

DAWN AC VERSION 8 User and Safety Manual

DAWN Version 8 E-Manual

Table of Contents

Part 1 Company Name and Address	7
Part 2 How To Use the Manual	8
1Next Screen	9
Part 3 Customer Obligations	10
Part 4 Safety Manual	16
Part 5 Using the System	30
1Getting Started Workflow	30
2. Logging Into DAWN	30
3Logging out of DAWN	43
4DAWN Front Page	43
5Distinguishing live from test systems	46
Part 6 Configuring the System	49
1Adding/Editing Health Authorities	49
2Adding/Editing Organisation Types	50
3Adding/Editing Organisations	52
4. Adding/Editing Organisation Wards (Optional)	55
5Adding/Editing Clinics	57
6Adding Devices	
7Adding/Editing Healthcare Professional Types	67
8Adding/Editing Healthcare Professionals	
9Adding/Editing User profiles	
10Adding/Editing Patient Groups (Optional)	
11Adding/Editing Teams	
12Adding/Editing Personal Settings	
13Adding/Editing Risk Classes	
	101

	103
23. Adding/Editing Diagnosis Groups	1 0 4
24. Adding/Editing Diagnosis Stages	106
	110
	111
	118
	120
	124
31Selecting a Patient Summary Report	124
	127
	129
	143
	159
Part 7 Editing System Settings	165
1List of system settings	166
Part 8 List Views - What are They?	167
1. Accessing List Views	167
2. List Views	168
Part 9 Adding a New Anticoagulation Patient	169
1Search for a patient	169
2. New Patient Wizard Screen	171
3Wizard Screen - Entering Treatment Plan	174
4. New Patient Screen	178
Part 10 Managing Patients Under Different Therapies	199
1. Induction Dosing	199
2Maintenance Dosing	206
3Manual / Bridging Dosing	207
Part 11 Stopping Treatment, Deactivating or Marking a	
Patient as Deceased	215
1Stopping Treatment	216
4Marking a patient as deceased	

Antagonist Patient	226
	226
	245
	261
Part 13 Producing Messages Manually From DAWN	267
1. Letters tab	200
	208
2Letters Tab - Dose Not Authorised Message	268
	268
2. Letters Tab - Dose Not Authorised Message 3. Pop Up Warning Mesage Part 14 Handling Non-Attendance for a Warfarin or	268
2. Letters Tab - Dose Not Authorised Message 3. Pop Up Warning Mesage Part 14 Handling Non-Attendance for a Warfarin or Other Vitamin K Antagonist Patient	268 269 270
2. Letters Tab - Dose Not Authorised Message 3. Pop Up Warning Mesage Part 14 Handling Non-Attendance for a Warfarin or Other Vitamin K Antagonist Patient 1. Confirm DNA Selection	268 269 270 270
2. Letters Tab - Dose Not Authorised Message 3. Pop Up Warning Mesage Part 14 Handling Non-Attendance for a Warfarin or Other Vitamin K Antagonist Patient 	268 269 270 270 271
	268 269 270 270 271
 	268 269 270 270 271 272
 2. Letters Tab - Dose Not Authorised Message	268 269 270 270 271 272
 	268 269 270 270 271 272 272
 2. Letters Tab - Dose Not Authorised Message	268 269 270 270 271 272 272
 2. Letters Tab - Dose Not Authorised Message	268 269 270 270 271 272 272 273 273 274
 2. Letters Tab - Dose Not Authorised Message	268 269 270 270 271 272 272 273 274 274
 2. Letters Tab - Dose Not Authorised Message	268 269 270 270 271 272 272 273 274 274

2 Setting Up DawnMailer to Process Messages for a	
Print Station	
6Selecting paper types	
Part 17 Setting Up Messaging - email, SMS, phone, fax	299
1Queuing phone calls - Message Center	
2. Messages to Patients	
3. Messages for HC professionals	306
4 Reminders to log into DAWN for Healthcare Professionals	309
Part 18 Reports	311
1List of reports	311
	311
3. Running Reports	312
Part 19 Anticoagulants, Tablet Options, Dosing	
Regimes and Instructions (warfarin)	313
1 Patient Tablet Options and Dosing Regimes - Basic	
	313
2 Important Difference When Switching From Regimes	
To Patient Tablet Options	315
3. Dosing Instruction Types	316
4. Working with Dosing Instructions	316
5. Displaying Instructions In Fractions or Decimals	341
6 Setting Up Default Values for Patient Specific Tablet	
Options	
7Setting Up Regimes and Instructions	351
Part 20 Enforcing Mandatory Use of the NHS Number	366
1Overview	366
2Switching on NHS Number Compliance	368
3NHS number compliance Settings	368
4. NHS number compliance options	369
5 Changes to the Patient Screen when you Enforce	
Compliance	
6NHS number compliance dropdown options	372
7 Changes to the New Patient Wizard when you Enforce	
Compliance	
8NHS number warnings	373

9 NHS number compliance and printing patient	
identifiers	
10. Changes to the Patient Search Screen	375
11Patient Identifiers in Screen Titles	376
12. Restricting Who Can Change NHS the Number Status	377
13NHS number restriction in user profile	377
Part 21 Frequently Asked Anticoagulation Questions	379
1. How Do I Undo a Dose?	379
	379
3. Changing a Patients Clinic	380
4. Managing Maintenance / Induction / Bridging INRs	381
Part 22 New Oral Anticoagulants (non-VKA) Section	383
1 Overview of New (Direct) Oral Anticoagulants	
(non-VKA, DOAC)	383
2. Detailed Non-VKA Workflow	410
3Changing Anticoagulant	454
4. Viewing Patient History	456
5. Handling Non-Attendance for non-VKA Patients	457
6. Settings for Direct Oral Anticoagulants	459
Part 23 Variance Growth Rate (VGR)	467
1	467
2. Enabling VGR Functionality	469
3VGR in the Patient Screen	471
4. Use of VGR in Letters	
5VGR Settings	472
Part 24 System Settings	474
1Login System Settings	474
2. Password System Settings	476
3Clinic / Diary System Settings	477
4. Patient Record System Settings	478
5. Treatment Plan System Settings	480
	481
7Other System Settings	486
Part 25 Data Exchange	492
1. Export Screen	493
2. Import Screen	494

Contents	6
Index	495

1 Company Name and Address



DAWN is a registered trademark of **4S Information Systems Ltd.** and represents a new era in software where the adaptability built into the software empowers the customers, with minimum IT professional help, to quickly get the information they require from their system without long delays.

4S DAWN Clinical Software

Telephone: 44(0)15395 63091



Westmorland House, Elmsfield Park, Holme, Nr Carnforth, Cumbria, LA6 1RJ

E-mail: support@4s-dawn.com

Website: https://www.4s-dawn.com



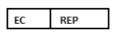
Version 8.0.28

Last updated January 18th, 2024



CE

5061045580006



Patient Guard Europe UG (haftungsbeschränkt) Hauffstr. 41,73765, Neuhausen, Deutschland/ Germany.

2 How To Use the Manual

If a text bubble asks you to 'Click Here' and a red circle is present on the bubble, you will be able to click on the link to take you to the next screen.

For example, clicking on the link on the image below will take you to another screen:

Risk Class	Low	•
Pref. Clinic	Doms Anticoagulant Clinic	*
Phone	111-222-4444 - home	•
Age:	55	
Diagnosis 🗕 🚽 🗄	lick here on he Diagnosis xxt ●	
Diagnosis 🗕 🚽 🗄	ne Diagnosis VT NOT SPECIFIED	
Diagnosis —————— th Lte	ne Diagnosis xt	
Diagnosis ———— tr te Target Range	2.0 - 3.0	

2.1 Next Screen

We are taken to this next screen

Discher en this tab to return to previous sorten

Patient *

Diagnoses *

Diagnosis biagnosis date

Diagnosis date

Diagnosis Control (1)

06/06/2016

*

*

Diagnosis Diagnosis date

Diagnosis Diagnosis Notes

*

*

*

*

*

</t

3 Customer Obligations

This obligations form should be completed and returned to 4S before using the software.

1. The application should be seen as an aid to the healthcare professional. All dosage and test interval advice issued by the application must be checked by a competent healthcare professional before instructing the patient.

2. Patients classed as unstable should be segregated and treated separately from stable patients.

3. The customer must have a procedure to ensure **rigorous follow up of non attendees** and ensure that all patients have a next test date.

4. The customer must ensure that only personnel that have been adequately trained in the use of the software in accordance with the *Anticoagulation Safety Manual* should operate the system.

5. The customer must check the front screen tallies daily and act on any concerns

6. Prior to initial use and following any software upgrade or change to the software settings, an appropriate and thorough validation exercise of the software should be completed for your local way of working before 'live' operation. This shall include a test of dose instructions and test intervals covering the full ranges of INRs; and all outputs including letters, emails, links to other systems etc. Records of the results of the validation shall be maintained. The validation should be authorised by the lead clinician/physician. A separate Test System which simulates live operation is highly recommended.

Any configuration or system changes requested by customers who do not have test systems will only be completed after a risk management plan has been completed and written agreement from the customer has been received accepting the risks involved.

7. It is vitally important that the customer site establishes a **robust method of backing up** and restoring their data, including occasional tests of the backups through restoration. Usually the backup should be done at the end of each working day. If there is a lot of system activity a more frequent back-up procedure should be considered.

8. The customer is expected to operate best practice with regard to keeping their copy of the software up to date. The product is being periodically updated with important safety and operational features. If you are paying software maintenance fees these upgrades are usually free.

9. The customer is expected to keep abreast of key changes and urgent issues in the product and documentation by visiting the webpage http://www.4s-dawn.com/safety-notices/ weekly. To this end, the customer must inform 4S of changes to lead contact personnel to ensure that communication is not missed.

10. The customer shall review / update the settings (such as target ranges, questionnaires) and operation of the software on any change to best practise or new advice from drug manufacturers or other relevant bodies.

11. The customer should notify 4S immediately if they notice any anomalies within the data or experience anything within the system that could potentially cause a mishap.

12. The customer should notify 4S of any external interaction with third party systems that impact safety operations and rely on information coming to or from your DAWN system (in any format) or if the intended use is going to be changed.

13. For DOAC (direct oral anticoagulants) Module Users:

Prior to initial use and following any software upgrade or change to the software settings, an appropriate and thorough validation exercise of the DAWN DOAC software should be completed for your local way of working and against the latest country specific Summary of Product Characteristics (SPC or SmPC) for the DOAC product.

Customers have the ongoing responsibility to ensure that the DAWN DOAC module complies with the latest country specific Summary of Product Characteristics (SPC or SmPC) for the DOAC and that the product is safe to use.

Records of the results of the validation shall be maintained. The validation should be authorised by the lead clinician/physician. A separate Test System which simulates live operation is highly recommended.

14. Consent - Storing Personal Information

The customer consents to personal details of relevant healthcare professionals being securely stored by 4S DAWN in order to carry out activities involved in the implementation of the DAWN system and to support you in using our products and services. Further information can be found in our privacy policy at the end of this document.

Please note, we will not share your details with any third parties.

I AGREE TO THE ABOVE OBLIGATIONS BEFORE USING THE DAWN AC SOFTWARE.

Signed by Lead Clinician/Physician:	
Print Name:	
Email Address:	
Date:	
Signed by Lead User or Operator:	
Print Name:	
Email Address:	
Date:	
Organisation Name:	
Town:	
Country:	

It is important that you return the signed form to 4S before using the software.

You can:

- fax it to 44 (0)15395 62475

- email a scanned copy to support@4s-dawn.com

- post it to 4S Information Systems Ltd, Westmorland House, Elmsfield Park, Holme, Nr Carnforth, Cumbria, LA6 1RJ

4S DAWN Clinical Software Privacy Policy

At 4S DAWN Clinical Software we are committed to protecting and respecting your privacy.

This policy explains when and why we collect personal information, how we use it, the conditions under which we disclose it to others and how we keep it secure.

Any questions regarding this policy can be directed by email to <u>privacy@4s-dawn.com</u> or in writing to 4S DAWN Clinical Software, Westmorland House, Elmsfield Park, Holme, Nr Carnforth, Cumbria, LA6 1RJ. Contact Name: Syd Stewart, Managing Director

Who are we?

4S DAWN Clinical Software is a division of 4S Information Systems Ltd. The company was founded in 1984 and has been involved in medical applications since start up supplying to over 300 leading healthcare organisations worldwide.

The company is registered in England and Wales, No 3165486, and the registered office is:

4S Information Systems Ltd Westmorland House Elmsfield Park Holme Nr Carnforth Cumbria LA6 1RJ, LA6 1RJ

How do we collect information from you?

We obtain information about you when you contact us via our website, by email or by phone, for example, when you enquire about our products and services, when you register to receive one of our newsletters or when your organisation becomes a customer of 4S DAWN Clinical Software etc.

We occasionally obtain information from publicly available sources such as NHS Trust websites in order to communicate with you.

What type of information is collected from you?

The information we collect might include your name, address, email address, area of speciality, IP address and what 4S DAWN web pages you accessed.

How is your information used?

We may use your information to:

- Assist you with a sales enquiry
- Process an order you have made
- Support you in using our products and services
- Carry out any other obligations arising from any contracts entered into between you and 4S DAWN Clinical Software
- Notify you of changes to our products and services
- · Seek your views on the products and services we provide
- Send you communications that maybe of interest. These may include new products and services, company events etc.
- Process a job application

© 2024

Retain your services as a supplier

Your information will be held by us for as long as is necessary for the relevant activity or as long as is set out in any contract you hold with 4S DAWN Clinical Software.

Who has access to your information?

We will NOT sell or rent your information to third parties. We will NOT share your information with third parties for marketing purposes.

Your contact information will only be shared with other 4S DAWN Clinical Software customers with your explicit consent.

You are in control

You have a choice whether you wish to receive information from us or not. If you no longer wish to receive information, you can email: privacy@4s-dawn.com at any time to let us know and we will then update your details on our systems. If you unsubscribe from our newsletter using the link within the newsletter, this will only remove you from the newsletter mailing list and you may continue to receive other communication from us. If you do not wish to receive any communication from us, please specify this using the email address above.

How you can access and update your information

The accuracy of your information is important to us and if you change your email address or you are aware that any of the other information we hold about you is wrong, please email us at privacy@4sdawn.com so that we can update our records accordingly.

Security Precautions

No sensitive data such as bank or card details are obtained and stored by us.

Non-sensitive data such as your email address that are transmitted via online and email communications can never be guaranteed to be 100% secure. While we strive to protect your personal information, we cannot guarantee the security of any information that you send to us and do so at your own risk. However, once we receive your information, we do our best to ensure its security within our internal systems.

Transferring your information outside Europe

For those who are located within the EU, your personal data will not be transferred outside of the EU.

If you use our products and services and you are located outside of the EU we will aim to ensure that your privacy rights continue to be protected as outlined in this policy.

Automated decision-making

There is nothing in place to facilitate any type of automated decision-making or profiling about you based on the personal information that we hold.

Lodging a complaint

In the first instance, please contact 4S DAWN Clinical Software at privacy@4s-dawn.com or 015395 63091 to inform us of your issue so that we are able to rectify it.

After contacting us, if you are still unhappy with the way your data has been handled by 4S DAWN Clinical Software, you have the right to lodge a complaint with the supervisory authority. <u>https://</u>

ico.org.uk/concerns/

4 Safety Manual

Introduction

This document is intended to highlight potential safety issues that must be understood and addressed before using the DAWN Clinical Framework Anticoagulation module.

It is vital for the on-going safe operation of your software that users of the software are aware of the Safety Instructions as detailed in this manual. Please keep this manual in a safe place for ready referral by your staff.

What Safety Issues Are There?

The DAWN Clinical Framework web application provides the functionality to manage your anticoagulation patients. The application allows for INR results to be imported via an interface or entered manually and to calculate the next dose and next test date. If you are to import results via an interface, please also read the Interface Safety Manual.

The application should be seen as an aid to the Healthcare Professional. It is a condition of use that all instructions or information issued by the application are checked by a competent healthcare professional before instructing the patient.



Inadequate checking of the Dose and Next Test Date could cause severe injury or death.

Check that each dose and next test date instruction are correct, clear and safe for each patient.

Use the software in accordance with the design intent as specified in the User **Manual.** E.g. use the Maintenance module for stable patients and the Induction module for initiating patients.

Segregate and manage patients by risk level e.g. unstable patients and patients in transition - stopping/starting/changing protocols/interacting medication changes, and previous thromboembolic or bleed events.

Use the appropriate treatment/management protocol and appropriate competent personnel for each patient's indication and risk status.

Check that all non-attendees are followed up and every patient has a next test date appropriate to their risk level.

Appoint a competent healthcare professional to carry out the recommended checks.

Develop written procedures to use with this system to meet your local needs.

These procedures should incorporate not only necessary operational steps but safety steps. The computer system along with these written procedures should form part of a quality management system. Subject this system to external auditing by a suitable quality standards authority.

Train your staff in the use of the computer system.

DAWN Clinical Framework provides a number of checks and warnings to try and prevent errors. These include:

- alerts and warnings after each dosage calculation
- · having limits outside which dosing cannot occur
- list views for identifying non-attendees and patients with no next test date
- front screen tallies for displaying some data more prominently

Which Key Safety Areas Have Been Identified?

The following key safety areas have been identified:

Correct Patient Identification:

It is critical that the users ensure that they have identified the correct patient before taking action such as editing information, dosing, reports or taking any clinical action.

Avoiding Transcription or Transposition Errors:

Careful procedures should be put in place to check that any transcription error or transposition of data cannot occur. The aim should be to eliminate completely any such potential for this type of error.

Managing Patients Appropriately:

The DAWN AC maintenance module is designed for stable patients only. Patients who are not within this category should be segregated and managed differently, i.e., by using the induction module or dosing manually. Some examples of patients who are not within the stable category are as follows:

- Patients with high INRs
- Patients with low INRs (e.g. especially those with mechanical heart valves)
- Patients recently admitted / discharged
- Patients on bridging or preparing for procedures e.g. cardioversion, colonoscopy
- Patients on induction therapy
- Patients with miss days dose instructions
- Patients with boost days dose instructions
- Patients starting and stopping interacting medications
- · Patients who have had recent or recurring adverse events

Checking Clarity of Dose Instruction to Patient / Healthcare Professional:

It is essential to ensure that any dose instruction messages printed, emailed or faxed are clear and unambiguous. As well as the format of the instruction itself, users need to check that the anticoagulant instructions are clear, i.e., that the number of tablets or milligrams is displayed, any conditional entries such as any boost or miss days are correct and there is no scope for confusion. If your dosing instructions are configured to display decimals rather than fractions, the potential of misreading a decimal in the dosing instructions should be taken into account. If emailing dosing instructions, or any messages that rely on correct formatting in order to be understood, choose *email with PDF attachment* instead of email. The format of a simple email relies on the recipient's email client. PDF files display the same way on any computer.

Ensuring Patients and Healthcare Professionals receive Emails, SMS messages, and Faxes.

Always ask recipients to confirm they are receiving your email, fax or SMS messages, and educate them to contact you if they do not receive a message when expected.

It is possible to set up message events with a single delivery method, such as SMS only, or email only. Such messages are only sent to recipients who have SMS, or email, (or whichever method you have chosen) as one of their preferences. If the recipient does not have SMS, or email, or whatever you have chosen as a messaging option, they do not receive the message. Either:

- Limit the use of these options to messages which are optional (such as SMS advance reminders for appointments).
- Set up a corresponding message event for each type of delivery method you use, e.g. Email dosing instruction, SMS dosing instruction etc.. so all recipients receive at least one version.

Alternatively, configure the message to be sent by "phone" or by the recipient's "written" preference.

Losing Track of a Patient:

It is vital that a patient does not get 'lost' within the system, e.g. treatment plan wrongly closed; no next test appointment made; no follow up on non-attendances; opted out of timed message reminders.

Ensuring Operational, Data and System Set-up Integrity:

It is essential that the system and procedures are critically examined initially and routinely to ensure that the whole system integrity is maintained at all times.

Managing High Risk Patients Safely

From examining mishaps in the NPSA National Reporting and Learning System (NRLS), we noted that many incidents occur when a patient is in a state of change, eg, stopping for a procedure, discharged from hospital, high INR, low INR, very low INR, receiving miss or boost doses, etc.

It is important when dealing with such patient records that you can easily identify these higher risk cases, eg, patients that have been given vitamin K or patients that had a zero dose on their last visit.

When going through processes such as bulk rescheduling, DAWN currently treats all patients in the same way, and so if you choose to reschedule for seven days time, all patients will be moved ahead by seven days. However, this is not always appropriate for the high risk patients.

We recommend that you subset your higher risk patients, possibly though using the risk class facility or using separate high risk clinics, so that these can be dealt with separately.

Safety Check Lists



Derived from identified safety considerations, your procedures should incorporate and address the following safety points presented in the form of a check list by functional area. **This list is not intended as a complete and exhaustive list.** Each user must determine their own safety procedures and ensure that they are operated correctly and consistently.

The checklists are in two sections as follows, one for the routine users of the system:

- Adding/editing patient's details
- Adding/editing patient treatment plan
- Adding previous treatment history
- Running clinics / monitoring patient results
- Adding the next test date/time
- Adding/editing/deleting user letters/messages
- Adding/editing/deleting patient questionnaires

And secondly, there are separate check lists for system managers to consider:

- Dose/interval settings and Dose Instruction formats and messages (letters, email, faxes)
- Clinic diary settings
- Procedures, letters and events
- Look up information
- List view settings
- Reports
- Custom modules
- Automatic authorisation of INRs
- Questionnaire definitions
- Data and operational integrity

User Checklists:

Safety Check List for Patient Searching and Adding/Editing Patient's Details:

When adding a new patient, the user should perform a thorough search to ensure the patient's details have not been previously entered.

Be aware of name misspellings and transposing numerical identification numbers when searching.

Ensure all patient data (including all data entered via any of the tabs on the patient screen) has been entered and checked for correctness. Attention should be paid to the last name, first name, unit number and date of birth so that the patient can be uniquely identified every time.

Ensure no special characters or symbols are entered in any of the fields, including

notes fields (eg. é, û etc.). Avoid copying and pasting anything from other applications. These may cause issues when sending messages to other systems that can't interpret non standard characters.

Ensure all patient procedures that are entered into the system have been checked for correctness.

Ensure all patient events that are entered into the system have been checked for correctness.

Ensure all patient reminders that are entered into the system have been checked for correctness.

If you are using the maintenance module, ensure the patient is stable and has reached the maintenance dose (if the patient is a maintenance patient).

Ensure the patient has not been incorrectly marked as deceased or inactive.

Ensure the patient's preferences for mailings / alerts / SMS messages are correct.

If your organisation is an administration centre that adds patients then allocates them to a different organisation for monitoring, ensure that you do not leave any patients unallocated. If you are using version 8 +, use the Home Page "Awaiting Referral" tally and corresponding list view to check for anyone who still needs allocating.

Safety Check List for Adding/Editing Patient Treatment Plan Details:

Ensure all treatment plan data (including all data entered via any of the tabs on the treatment plan screen) has been entered and checked for correctness. Attention should be paid to ensure:

- the correct dosing regime has been selected i.e. the instruction of the tablets or pills to be taken by the patient
- the correct primary diagnosis has been entered for the patient
- the correct target INR range has been selected
- the correct start date has been entered
- if short term, the correct treatment duration in weeks has been entered
- the correct maximum % dose change and maximum test interval have been entered if a next test has been created, the correct test date and preferred clinic has been entered and the visit has been correctly scheduled into the appropriate clinic diary

Ensure the treatment plan has the correct status and has not been suspended or stopped in error. The treatment plan should be activated before any dosing can be carried out.

Safety Check List for Adding Previous Treatment History:

You MUST check that the previous treatment history has been entered correctly.

Ensure the correct dosage results and INRs have been entered for this patient.

Note: DAWN AC is designed for only one INR/Dose record per day.

Be aware of the consequences of adding incomplete information – missing doses and INRs – entering zero values.

Safety Check List for Running Clinics / Monitoring Patient Results:

Be aware with the Maintenance Module that the computer recommended next dose is based on the last dose recorded for the patient – if that is wrong then the next dose will be wrong or inappropriate.

Be aware with the Maintenance Module that the computer next test interval is based on the stability of the patient – indicated by the length of the last test interval and the INR this time. If the last test interval is wrong then the next interval will be wrong or inappropriate.

Be aware that with the Maintenance Module the inbuilt algorithms do not take account of interacting medications, previous adverse events, previous and planned procedures.

Be aware that DAWN AC can provide visual warnings of the presence of any recorded and current interacting medication, previous adverse events, previous and planned procedures.

Ensure all entered INR results are correct and have been entered against the correct patient with the correct test date.

Check any manual override of the dose and next test date and always add a comment to say why the change was made.

Check any manual override of missing or boost days and always add a comment to say why the change was made.

The patient MUST be stable and reached a maintenance dose before using automatic dosing in the Maintenance Module.

Validate each dose and next test date BEFORE informing the patient.

Where it is necessary to change a patient's dose, call the patient or speak to them face to face to ensure they have understood the change. You may wish to send an email or printed letter containing the same information, but this should be used to reinforce/ summarise the discussion. It should not be used in place of the conversation.

If patient record books with labels are being used, check the correct dosage instruction report is stuck in the correct patient's record book.

Check the correct dosing information is copied by hand to the correct book or patient report.

Check that all patients (including non attendees) due on a particular day have been dealt with completely. Ensure you assess and take into account the stability of each and every non attendee before deciding on the date to reschedule their appointment for.

Check that the correct information is communicated to the patient by letter, telephone or

any other communication method.

Routinely ensure that each patient has a maximum percentage dose change and maximum interval limits set in the system.

Routinely ensure that all active patients have a future appointment.

Routinely check that all patients that are marked as admitted, active admitted or discharged within the system have been followed up and dealt with.

Safety Check List for Adding the Next Test Date/Time:

Ensure that the patient has a next test date/time and is scheduled into the diary.

Use the list view to ensure that all active patients have a next test date.

Safety Check List for Adding/Editing/Deleting Letters/Messages:

Ensure all new, altered and imported letters / message templates have been checked for correctness and have been thoroughly tested before using them in a live situation.

Check whether any messages such as texts and emails will be sent over insecure, external networks. If so, they should not contain personal, confidential or sensitive information, unless you have obtained the permission of the subject (refer to your information governance guardian for your organisation's guidelines). Neither should messages contain personal, confidential or sensitive information if they are copied to recipients who are not authorised to see it.

Check the correctness of all letters/messages sent out from the system. This should be carried out for all available methods of communication including printed output, SMS, emails and faxes.

To prevent the wrong information being communicated to a patient or healthcare professional, where possible, include the patient identifiers in any printed output, emails and faxes (e.g. dose instructions).

To prevent the wrong dose instruction being communicated to a patient, include the current test date alongside the dose instruction.

Where printing user letters/messages for a group of patients, have a tally of the number of user letters you expect to produce and match that to the number of user letters actually produced, to avoid missing anyone out.

To prevent truncation of the message changing its meaning, check the maximum size of a text or SMS message is not exceeded for any patient or colleague.

Carry out regular end to end testing of timed or other messages on all platforms which will receive them. For example, when a recipient asks to receive messages via text or email, ensure you view a text message or an e-mail as it is received by the patient or healthcare professional. Check that e-mails, SMS text messages or faxes are received and all content is rendered accurately (e.g. half-symbols are displayed correctly, and doses line up with the correct day of week).

Where possible, encourage the use of emails with PDF attachments over regular emails (where the content is put straight into the body of the email). Using PDF's avoids issues with different email clients rendering HTML content in different ways.

If any messages are configured to be sent by a single delivery method, e.g. SMS only, ensure that either the message is optional, or that additional message events exist to send equivalent message by all other delivery methods, e.g. email with PDF attachment only, mail only etc.

Where sending SMS messages using an *SMS via Email* provider, choose the *Plain Text* option in the *External System Connection* settings. If you do not check this box, the email is sent in HTML format and you rely on the *SMS via Email* provider to convert it to plain text. If they do not do this, the message may contain hypertext markup directives that may make it difficult to read.

If messages get sent from DAWN at timed intervals, or when specific events occur, check with recipients that the messages are received at the expected times and that the message content is correct.

Establish an understanding with the intended recipient that they should inform you if they do not receive a message when expected (for example, following a blood test).

Use the following filters on the Status list view to check for patients, next of kin and/or healthcare professionals who are missing the appropriate contact details for their messaging preference:

Description

	·
Email/Fax/SMS pref but no address/no	Finds patients with email as their messaging preference but no email address, fax as their preference but no fax number, or SMS as their preference but no mobile number.
Next of Kin Email/Fax/SMS pref but no address/no	Finds patients whose next of kin has email as their messaging preference but no email address, fax as their preference but no fax number, or SMS as their preference but no mobile number.
Patient's clinician with missing email/fax/ mobile	Finds patients whose GP, consultant or treatment plan team member has email as their messaging preference but no email address, fax as their preference but no fax number, or SMS as their preference but no mobile number.

Safety Check List for Adding/Editing/Deleting Patient Questionnaires:

If you have purchased and are using the questionnaire module:

Filter

Ensure all new, altered and imported questionnaire types have been checked for correctness and have been thoroughly tested before using them in a live situation. When completing a patient questionnaire, check all the captured information is correct before saving or printing it.

System Manager's Check Lists:

Safety Check List for Dose/Interval Settings and Dose Instruction Formats/ Regimes:

Ensure all dose/Interval settings and dose instruction formats/regimes have been thoroughly tested before using them in a live situation.

Ensure any old or unused dosing regimes and target ranges are deactivated or removed from the system to avoid them from being selected for a patient in error.

Check all regimes have been set up and checked for correctness and clarity.

Validate the dosage (tablet) instructions on set-up or on changing.

Target Ranges:

Ensure all target ranges have been thoroughly tested before using them in a live situation.

Check all target ranges have been set up and checked for correctness. For each target range:

Ensure the result status records (e.g. low, in range, high) have been defined with the correct lower and upper limit values.

Ensure all the INR triggers have been correctly defined. Particular attention should be paid to ensure the lower and upper limit values have been correctly entered together with the appropriate action (e.g. warning, calc. prevention).

Ensure all the interval rules have been correctly defined with the correct lower and upper limit values.

Ensure all the miss or boost rules have been correctly defined with the correct lower and upper limit values.

Safety Check List for Clinic Diary Settings:

Ensure all clinic diary settings have been thoroughly tested before using them in a live situation.

Ensure there are adequate time slots for a typical day's patients list.

Check that any adjustment you have made to the diary for a clinic is correct.

Ensure your days are adjusted or excluded for known staff absences etc.

Ensure that the system settings are set to maintain a diary for the appropriate weeks ahead for your centre.

Ensure that the system settings are set to retain the diary for the appropriate weeks in the past for your centre.

Any deletion of diary slots should be undertaken under strictly controlled conditions and after a backup has been taken.

Safety Check List for Defining Procedures, Letters and Events:

Ensure all definitions for procedures, letters and events have been thoroughly tested before using them in a live situation.

Ensure all procedures have been defined correctly in the Procedure look-up table and have been made available for use by the relevant departments.

Ensure all events have been defined correctly in the Event look-up table and have been made available for use by the relevant departments.

Ensure all letters have been defined correctly (via message templates) and have been set up to be created on the appropriate message events.

Safety Check List for Defining Look Up Information:

Ensure all definitions for look up information have been thoroughly tested before using them in a live situation.

Ensure all information defined in the system look-up tables has been entered and checked for correctness.

Safety Check List for List View Settings:

Ensure all list view settings have been thoroughly tested before using them in a live situation.

Check that all the required list views have been set up correctly and are available for use.

For each list view, check that the correct fields are displayed.

For each list view, check that each filter brings up the correct patients and that no patients meeting the criteria are missing.

For each list view, make sure that users are aware of the correct filters to apply to select the correct subset of patients.

Safety Check List for Reports:

Ensure all new, altered and imported reports have been thoroughly tested before using them in a live situation.

Check that all the required reports have been defined and are available for use.

For each report, check that the correct fields are included.

For each report, check that the correct data is being generated.

Safety Check List for Custom Modules:

If you have purchased and are using any custom modules:

Ensure all new, altered and imported custom modules have been thoroughly tested before using them in a live situation.

Safety Check List for Automatic Authorisation of INRs:

If you have purchased and are using the automatic authorisation module:

Ensure thorough testing has been carried out on your test system before switching on automatic authorisation in your live system.

Perform routine checks to ensure that only the correct INR's are being automatically authorised.

Safety Check List for Questionnaire Definitions:

If you have purchased and are using the questionnaire module:

Ensure all new, altered and imported questionnaire definitions have been set up and checked for correctness. For each questionnaire definition:

Ensure the questionnaire definition has been correctly defined with the correct name and code and has been assigned to the correct department.

Ensure all the options / calculations have been defined correctly.

Ensure all new, altered and imported questionnaire definitions have been thoroughly tested in your test system before using them in a live situation.

Safety Check List for Data and Operational Integrity:

Ensure you have written procedures and physical arrangements for:

Checking all user profiles are properly set and are checked to be working.

Checking that the system settings are appropriate to the environment and method of working and to optimise system performance within your organisation.

Only amending or deleting look-up and normal table settings after a backup has been taken. This will help minimise the potential loss of data should you inadvertently delete the incorrect settings and need to restore your database.

Checking the hardware for possible errors, especially the data disk storage.

Replacing backup media regularly - media only has a set storage life.

Backing up routinely at appropriate intervals and test if you are able to restore the data and programs if required.

Ensuring your backup procedures are working and are appropriate for your database. If your database recovery type is set to full, ensure you are taking transaction log backups at regular intervals.

Ensuring backup media is stored safely in a separate place from the computer system and is readily referenced.

Providing adequate protection from power failures, notebook/laptop battery discharge and interruptions.

Providing adequate protection from staff inadvertently switching power off at the mains.

Checking for computer virus violation.

Documenting and reporting software and operational problems or 'near misses' to DAWN Clinical Software and your own management.

Documenting all changes to system set-up to show they are properly controlled and validated.

Routinely checking that the DAWN Mailer program is operational and working correctly.

Routinely checking that the DAWN Timed Message Service is operational and working correctly.

Routinely checking that the DAWNMessageService is operational and working correctly.

Routinely checking that the DAWN Timer Manager is operational and working correctly.

Ensure your procedures are complete i.e. no sections have been removed, and are kept in a safe and accessible place for ready reference by your users. Make frequent checks that this is the case.

Preventing adding or editing of data in the underlying database by using a third party program or tool. All data access must be done through the DAWN Clinical Framework.

Keeping all the application files complete and together. Do not copy files from previous copies of the application into the current set of files. The application files have a high inter-dependency and require absolute referential integrity.

Encouraging use of the test system to rehearse any infrequently used procedures before live execution.

Using the test system to test out future upgrades before applying the upgrade to the live system.

Ensuring that users do not enter 'real or live' data into your test system and use it operationally.

Ensuring that the system is checked thoroughly after any upgrades / patches are installed on the live system

Ensuring any old, out of date user manuals or e-books are destroyed and the current versions are readily available with no sections missing in full or in part.

Have a contingency plan in place should your computer system hardware or software fail such that you can continue to manage your patients until the computer is operational again.

5 Using the System

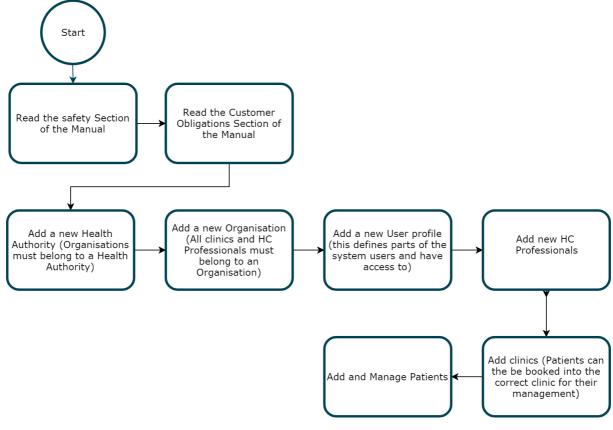
Enter topic text here.

5.1 Getting Started Workflow

WORKING THROUGH THE SYSTEM

Before starting to dose patients and use the DAWN system in a live situation, we need to set up several sections first. This configures the DAWN system to your specific needs, so that patients can be monitored quickly and effectively, and all the information logged against them is correct, e.g., the patient is booked into the correct clinic at the correct time, and has the correct referring GP and consultant details.

The following flowchart shows the steps typically required to get started with the system:



5.2 Logging Into DAWN

When opening up DAWN, you will need to log in with your user account.

Take care to type your user name and password correctly using the correct combination of capital and small letters, ensuring that the Caps Lock is on and off at the correct times. Take care not to confuse the letter O and the number zero or the letter I and the number one.

You are allowed up to five attempts at logging into DAWN before your user account will become locked. If your user account is locked you will no longer be able to use your current password, even if you remember it later on.

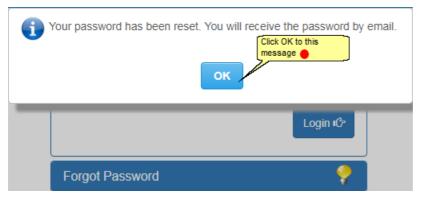
If all users are unable to log into the DAWN system, there may be an issue with the DAWN system itself. Please contact your IT department if this occurs.

Login	<u>-</u>
Username:	Username:
Password:	Password:
You can unlock your user account by using the password reset option.	Login 🖒
Forgot Password	🤗

5.2.1 Resetting your password by email



5.2.2 Reset password message



5.2.3 Enter your temporary password

Once you have clicked the Reset button you should shortly receive an email with a temporary password. Use this password with your DAWN Username to login. On logging in you will be

asked to set a new password.

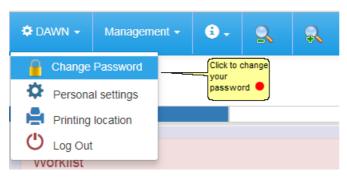
ew pa	ssword:
onfirm	•
	•
8	Must be 6 characters at minimum
-	Must contain at least 3 alpha (A-Z) character(s)
-	Must contain at least 1 numeric (0-9) character(s)
8	Must contain at least 1 special character(s) (~`!@#\$%^&*()"+{{[];:<>,.?/ \)
8	Confirmation OK
	OK ✔ Cancel

The new password must meet the requirements listed under the new password text boxes. When you input a new password, as you meet the requirements the red cross will change to a green tick. Once all the requirements have been met, you can click the OK button to set your new password. (For example, a password such as Tracy1! would meet these criteria).

New pa	ssword:
•••••	
Confirm	1:
•••••	
0	Must be 6 characters at minimum
	Must contain at least 3 alpha (A-Z) character(s)
	Must contain at least 1 numeric (0-9) character(s)
	Must contain at least 1 special character(s) (~`!@#\$%^&*()"+{{[];:<>,.?/ \)
0	Confirmation OK
	OK 🗸 Cancel

If your password change has been successful, the system should log you into DAWN. If you are unsuccessful, a message should appear telling you why.

5.2.4 Changing you password



5.2.5 Enter your new password

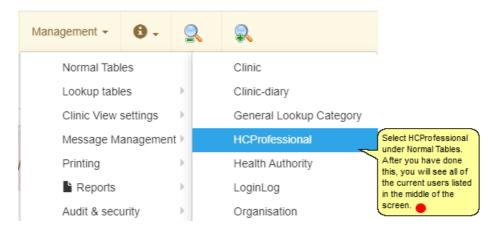
Current	Password:
New pa	ssword:
Confirm	
Contirm	
8	Must be 6 characters at minimum
8	Must contain at least 3 alpha (A-Z) character(s)
8	Must contain at least 1 numeric (0-9) character(s)
8	Must contain at least 1 special character(s) (~`!@#\$%^&*()"+{}[];:<>,.?/ \)
8	Confirmation OK
	OK 🗸 Cancel

5.2.6 Reset a password using another account

Follow this guide to reset a password using another account (because a user has forgotten their password and the account is locked out).

Log into your DAWN system *Hint - If you are a system administrator you might wish to keep a spare account for this.*

Click on the System Menu button and the System Menu list will appear.



5.2.6.1 Search for the user

Enter the Last Name of the user you want to find into the box labelled "LastName" at the top of the screen and click Search.

Search for:	Organisation			✓ Role	✓ La	st name Nicol	
	First name			User	Ē		Search
Edit the ICProfessional	rganisation		Role	Last name	First name	Initials	In Us
	Dawn Hospital	× →	Consultant	✓ Nicol	A	AN	X
=	The Hospital	~ →	GP email contact	✓ Nicol	Brenda	BN	X
🔳 🔬	The Hospital	× →	BMS	V Nicol	Brenda		X

5.2.6.2 Edit the	HCProfessional
------------------	-----------------------

HCProfessional 🗙	
Dawn Hospita	I - Nicol A
Organisation	Dawn Hospital
Role	Consultant v
Last name	Nicol
First name	(A
Initials	AN
In Use	Select the Account info tab.
Address info	Teams Account info Notes Patients
User	Топу
	Click to reset existing password for user
Password Expire	28/04/2012
Failed logins	0
Failed logins (all	0
Locked 🕄	
	The failed login count gives the total number of failed logins logged so far for the user. This checkbox indicates whether the account is 'locked' and therefore used of not. A user can have five attempts to login with the incorrect password before their account will be automatically locked. This checkbox can also be manually selected to lock a users account. Uncheck this box to unlock a users account

5.2.6.3 Click to set new password



The password for user 'Tony' has been cleared.

The user will need to immediately set a new password when first logging in.

ок

Make a note of the new password.

Your user can then log in using this new password. At login, they will be asked to set a new password as the computer-generated one is set to automatically expire.

5.2.7 Logging In - Active Directory Support

DAWN version 7.0 (1010 and above) supports Active Directory Login. This means users who have a network login can store this ID in DAWN. When they access the application, if DAWN recognises their network ID, it automatically logs them in without prompting them to type a DAWN specific user ID and password.

Enable Active Directory Support

Update each user's Healthcare Professional Account record with their Network ID

Disabling Anonymous Access to the DAWN AC Website

5.2.7.1 Enabling Active Directory Support in DAWN AC

🗢 DAWN 🗸	Management -	i -	g	ζ	R	
	Normal Table	es	+			
	Lookup table	es	•			
	Clinic View s	settings	->-			
	Message Ma	anagemen	it≻			
Worklist	Printing		•		<u>A</u>	
	Reports		•			
Patients with	Audit & secu Dav Click here acces the	to		ıal/ jing	Explanation	
No INR Toda;	Sys.				Polar Tools	
Incomplete V	Coded Com	ments			System Settings	
			1		International Settings	
Missed Test	1 2	211			Data Exchange	
					Ū.	

5.2.7.1.1 Amending the system settings - domain

Type "Domain" into the *Search for Name* field and click the Search button. The *DefaultNetworkDomain* system setting is displayed.

3	9

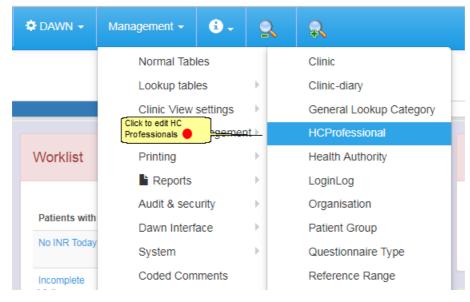
System Settings 🗙										
Search Q										>
Sorting: Search for: Name		Type/Name	Value 🕄			Last changed				Search
Customizations										
Name 🚯		Value 🟮			Description 🕄	Туре	Min	Max	Required	Last Changed
DefaultNetworkDomain	in	4slive.global		Enter the name of your active directory domain	The default domain for the network, used for the automatic identification of users	text	1	64		10/11/2015 10:55
Click on save										1-1/1* Q

5.2.7.1.2 Amending the system settings - Active Directory

Enter "ActiveDirectory" in the Search for Name field and press the Search Button. The *SupportActiveDirectory* system setting is displayed.

System Settings X	•											
Search Q												
Sorting: Search for:	Name 🕄	activedirectory	By Type/Name	_	Value 🔒							
		active an ectory			Make sure the Value is set to 1 (to disable Active Directory support change the							
Customizations					Value to 0).							
Name 1 SupportActiveDir	irectory		Value 🕄		Descriptio	gon-procedure	support automatic k	ogon of users using) their			
H H + Down	n 🛓 Save 🚔 F	Print 💭									1-20 / 165	

5.2.7.2 Update each user's Healthcare Professional Account record with their Network ID



5.2.7.2.1 List of HC Professionals

k on the form ide each rec Professional of	First name		v Role User		Last name You can you the	ptionally search on se fields	Sear
/	Organisation		Role	Last name	First name	Initials	In Use
😑 😜	11 SHEEN COURT	▼ →	GP	McGroarty	Feargal	С	X
🖃 😜	11 SHEEN COURT	• •	BMS	Seal	John	JS	×
🗉 🍯	14 IMPERIAL AVENUE	• →	GP	Perry	VU	P	X
=	18 DEBADALE HOUSE	▼ →	GP	Mark	Alexandra	В	
🖻 😜	21 STILEMAN HOUSE	T 🔶	GP	Heritage	VI	Н	×
= 😜	21 STILEMAN HOUSE	▼ →	GP	Hughes	GA	Н	X
🖻 😜	21 STILEMAN HOUSE	▼ →	GP email contact	Jack	lisa.jones@bfwhospitals.nhs.uk	G	×
😑 😜	21 STILEMAN HOUSE	• →	GP	Miah	TD	M	X
🖻 🌒	21 STILEMAN HOUSE	▼ →	GP	Rosindale	XA	R	×
E 😜	21 STILEMAN HOUSE	• →	District Nurse	Smith	Paul	PS	×
🖻 😜	21 STILEMAN HOUSE	▼ →	GP	Trainer	FR	Т	×
😑 😜	25 ALEXANDER ROAD	• •	GP	Man	A		×
🖻 😜	25 Lulworth Crescent	• •	GP	Ali	ZB	A	X
B	25 Lulworth Crescent	T ->	GP	Biss	В	BB	×

5.2.7.2.2 Update Network Logins

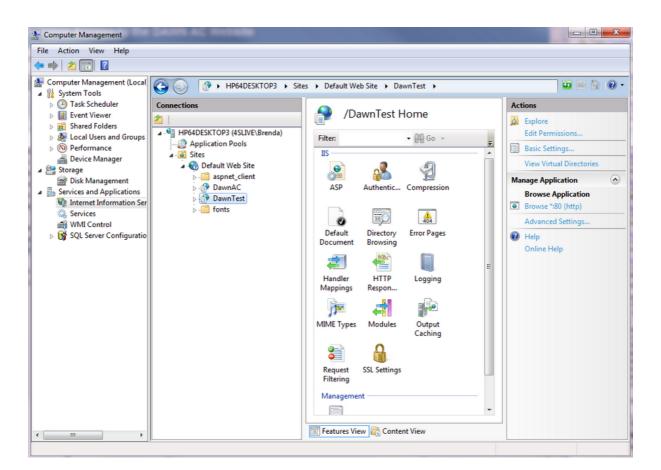
Updating the Healthcare Professionals' Account Records

41

Address info Te	ams Account info Notes Patients
User	DDawn
	Click to reset existing password for user
Password Expires	16/03/2017
Failed logins	0
Failed logins (all) 🕄	1
Locked 🕄	
Last login date 🕄	17/03/2017 09:12
Total logins 😫	5 Enter the user's Active Directory Network User ID in the
User Profile	System Manager
Network Login	Dawn
	Click to save
M < > M ON	lew 💼 Delete 🛨 Save 🔳 List 🚔 Print 🗘

5.2.7.3 Disabling Anonymous Access to the DAWN AC Website

Right click on My Computer and choose Manage from the pop up context menu to display the Computer Management Console.



Expand the Services and Applications branch of the menu and click on Internet Information Services.

Expand the Web Sites folder, right click on the Web Site which hosts DAWN AC and choose Properties from the pop up context menu. The web site properties are displayed.

Choose the Directory Security page and click the Edit button in the Anonymous Access and Authentication section

Deselect the Anonymous Access option and ensure the Integrated Windows Authentication option is selected.

5.3 Logging out of DAWN

🗙 🗋 DAWN Versi	ion 7 E-Manu	×							
&SID=6794750704	41F08DF1C	A4918576B55	D0D&PageI	D=0					Q 🕶 🙀 🙂 🔤
Change Pas		•	2	R Ether click	: Log Oi	ut or just close the window	with the X		Thu 01/02/2018
 Personal set Printing loca Log Out VVOTKIIST 			_	A		Rheuma	tology		۵
Patients with	Induction	Maintenance	Manual/ Bridging	Explanation		Database name	Database size	Last Database backup	Log size (MB)
No INR Today	0	2	0	Awaiting result / yet to attend		DawnAC	1824	18/10/2017 11:36	5
Incomplete Visits	0	41	2	Dose needs entering and/or authorising					
Missed Test	4	289	5	Needs rescheduling		Patient Licens	es		*

5.4 DAWN Front Page

VN 🕈 Q Patient	🗏 Lists 🕿 Calls 🖹 Repo	orts 💠 Brenda	- Management -	8 -	0	<u>,</u>								
rsion 8.0.0 (1358)		on of DAWN you is shown here												Tue 09/01
	Anticoaguiauo	<mark>م</mark>									Rhe	umatology		
Velcome DAWN			Worklist							A	Database	This tally shows you when the DAWN database was last backed up		
O You are currently logged on as 'Su Manager'.	pport DAWN' with user profile 'System	n	Patients with	Induction	Maintenans	This shows your DAWN hyperlinks to	system.	Click on any	of the		Database name	Database size	Last Database baokup	Log size (MB)
Location for printing	Office		urrent printing on is shown here	0	0	nyperiinks to		waiting resu		lend	DawnAC	1824	18/10/2017 11:35	7
			Incomplete Visits	1	47	3		ose needs e uthorising	ntering and	Vor				
Conditions of Use		0	Missed Test	0	116	4	N	leeds resche	duling		Patient Licen	ISØS		
By logging on to this system you have been di	emed to have accepted the 10 following war	mings and	Active Treatment	4	634	8	N	ion-stopped	treatment pl	lans	Total	Active	Unused	
ionditions of use: 1. Inadequate checking of Dose and Nex death.	Test Date instructions could lead to severe i	injury and	No next test date	1	77	4	N	leeds sched	ling		1000	680	Unused 320	This tally shows how
2. Check that all therapy instructions are	appropriate before instructing a patient. see to ensure rigorous follow up of non atten	dees and												many patient licenses you
	stware, e.g. Power failure, switching off, can are injury or death. Following any such intern		Messaging							A	Inbound Inte	rface	The status of your	
	a multiple copy schedule. rediately if you notice any anomalies within t that appears not to be correct or not working	Outbound	Messages		Interface	Email	SM S	Fax	Mail	Total	Status		inbound interfaces shown here	5
checking the webpage: http://www.4s-	otices issued by 4S DAWN Clinical Software lawn.com/safety-notices/at least weekly.	being processed	Waiting to be sent		0	3	0	0	329	332	On Hold		17	
 Ensure that you have been adequately 10. By using this software the user is boun Maintenance agreement and Custome 	d by the term	through DAWN Mailer are shown	Failed to be sent		0	1	0	0	0	1	Total Queued		17	
	The status of vo	here	Outbound Interface	Status							Timo In Pan	ge - last 7 days		
	outbound interfa is shown here		Running								nino in Adiij	yo last r days		
	<u> </u>										Below range	In rans	e Above ran	

5.4.1 Concurrent User Warning

DAWN alerts you if there are other DAWN users viewing the same patient record as you are. The system setting **ConcurrentUsersWarning_Enabled** must be set to 1 to enable this functionality. The alert is enabled by default and can be switched off by setting the **ConcurrentUsersWarning_Enabled** system setting value to 0.

This feature does not work if DAWN user profiles are shared across multiple users. Sharing a single DAWN user profile across multiple users is actively discouraged and not recommended.

This warning will not be triggered if the interface updates patient information whilst there is a user in the patient record.

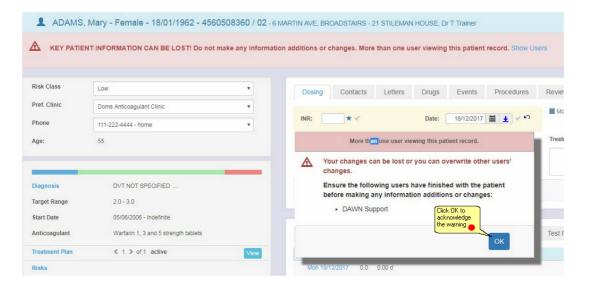
The Concurrent User Warning does not stop a user from updating the

patient record. It is at the user's discretion to ensure that it is safe to update the patient record whilst this warning is displayed.

Concurrent User Warning

5.4.1.1 Concurrent User Warning Message

If you open a patient record and there is at least one other person already viewing the same patient record then a warning will be displayed that other users are viewing this patient record. The warning will list the other users currently viewing this patient record.



User warning pop up With a list of current users viewing this patient record

5.4.1.2 Acknowledge the warning message

Patient 🗙									
	GARYEN, Daen	erys - Fe	male - 01/01/1987 - 012 345	678	9 / 02 - 4 The Square, N	lilnthorpe			
🛦 кеу р	ATIENT INFORMAT	ION CAN B	E LOST! Do not make any informat	tion a	additions or changes. N	ore than one us	er viewing this	patient reco	ord. Show Users
TIR%	Above Average	VGR	Above Average (max diff: 0.9)		Dosing Contac	ts Letters	Drugs 1	Events	Procedures
Risk Class	Low				INR: ★ ✓		Date:	08/01/2018	l ⊥ √ ⊧∩

The banner will remain visible whilst you are viewing the patient record and there are also other users viewing the same patient record. The pop up window will only be displayed the first time you visit the patient record.

Clicking the Show Users button will open a pop up window and display a list of users viewing the same patient record. However, if there are no longer any other users viewing the patient record then the banner will disappear. This can be used to check if the patient record is safe to edit.

The pop up window can be disabled from being displayed when you first navigate to a patient record that is already open by another user by setting the ConcurrentUsers_ShowMessageBox system setting value to 0. This will not stop the pop up window from being displayed when you click Show Users on the banner.

5.4.1.3 Troubleshooting

1. I keep getting the Concurrent User Warning after I have clicked Show Users. However, I know that the user or users listed are no longer viewing the same patient record?

Answer: If the user has exited DAWN by closing the browser window via the (X) then it could take up to 20 minutes for the users session to expire depending on how DAWN is configured. When this happens the user will no longer show as viewing the patient record. Users should log out of DAWN using the Log Out flag located on the top right of the DAWN application to prevent this scenario.

2. The User or Users are still showing as viewing the patient even after 20 minutes of being logged out.

Answer: It is possible that DAWN or the machine running DAWN may have been restarted whilst there were Users using the system. In this case the User Patient Access Log records will have to be manually removed using the User Patient Access Log form located in the System Menu under System -> User Patient Access Log. Only users with the relevant permissions can access the System Menu.

🕿 Calls 📄 Reports	🌣 Brenda 👻	Management 🗸	🕄 Help 🗸	Q -			
		Normal Tabl	es 🕨 🕨				
- 4560508360 / 02 - 6	MARTIN AVE, BRO	Lookup table Clinic View s		, Dr T Trainer			
)o not make any informat	tion additions or ch	Message Ma Printing	anagement ⊧ ⊧	ing this patient record. Show Users			
		Reports	Þ				
•	Dosing Co	Audit & secu	ırity 🕨 🕨	Events	Procedures	Reviews	
•		Dawn Interfa	ace 🕨				
	INR:	System		Pola	ar Tools	ĺ	
		Coded Com	ments	Sys	tem Settings		
				Inte	rnational Settings		
				Data	a Exchange		
				Cus	tom Modules		
			_	NHS	S Number Compli	ance	
	Accept INR	DNA Un-schedul	е	VGF	R Setup Screen		
				Exte	ernal System Con	nection	
3	Oranh I lin	Dest		Tim	er Manager		
	Graph His		access User Access Log	Erro	r Log		
View	Date	INR Dose	Dosing Ins.	Use	r Patient Access	Log	

5.4.1.4 User Patient Access Log

To remove a user from the User Patient Access Log, select the rubbish bin icon and then click the Save button.

Patient X UserPatientAccessLog X		
HC Professional	Patient	Date Accessed
Dawn Hospital - Support DAWN	 ADAMS Mary (18/01/1962) # M47904 / 4560508360 	▼ → 20/11/2017 14:38
Dalton Square Surgery - Nicol Brenda	 ADAMS Mary (18/01/1962) # M47904 / 4560508360 	▼ → 20/11/2017 14:39

User Patient Access log screen shows which patient record each user is viewing. If there is a user stuck viewing a patient record even though they have logged out of DAWN, the rubbish bin can be selected and the Save button clicked to remove the User Patient Access Log.

5.5 Distinguishing live from test systems

DAWN has different menus for Test and Live or Production systems.

DAWN Live

DAWN Test

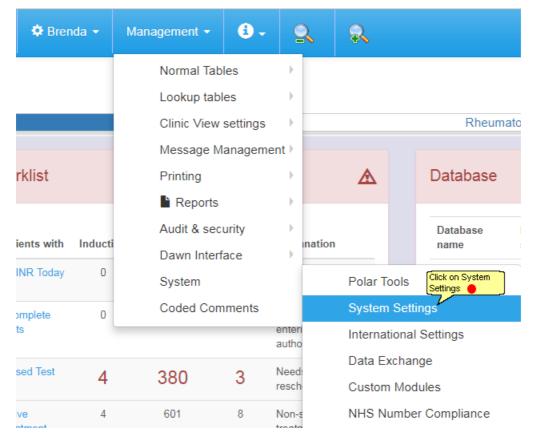
5.5.1 DAWN Live System

C		ń	Q Patient	🗮 Lists	🕿 Calls	Reports	÷ 🏚	Brenda 🗸	Management	• • •	2	R
V	ersion 8.0.0	(1359)										
					Anticoagulatio	n						
	Welcome DAW	/N				1		Worklist				
	You are curre 'System Manage		ged on as 'Sup	port DAWN'	with user prof	ile		Patients with	Induction	Maintenance	Manual/ Bridging	Explana
	🚔 Location for	printin	g	Office		T		No INR Today	0	7	0	Awaiting attend

5.5.2 DAWN Test System

DAWN Test	A	Q Patient	📕 Lists	🖀 Calls	🔓 Re	ports	🌣 DAWN 👻	Manageme	ent - 🔒	- 🔍	R
Test System	n Ve	rsion 8.0	.0 (1359)								
			Ar	nticoagulation	1						
Welcome DAWN	1				1		Worklist				
You are current 'System Manager'.		d on as 'Suppo	ort DAWN' wi	th user profile	e		Patients with	Induction	Maintenance	Manual/ Bridging	Explana
	rinting		ffice		v		No INR Today	0	7	0	Awaiting

5.5.3 Setting the test or live system



5.5.3.1 Edit the Live/Test system setting

System Settings 🗙							
Search Q							
Sorting: Search for:	Name 🕄	Search for Test_S	System By Type/Name	Value 9			
Customizations		e value to 1 to display st system or 0 for live					
Name 📵	Value 📝	Description 🗓			Туре	Min	Max
Test_System	0	Is this a DAWN Te a test system	st system: 0 - No, it's a prod	luction system; 1 - Yes, it's	Integer	0	1
± Save	S						

6 Configuring the System

6.1 Adding/Editing Health Authorities

Health Authorities can be added into the system in order to group organisations for reporting purposes. A Health Authority needs to be added before an organisation can be created.

DAWN	÷	Q Patient	🗮 Lists	🕿 Calls	Reports	🌣 DAWN 👻	Management -	6.	2	R
Version 8.0.0	(1358)						Normal Tab Lookup tabl		•	Clinic Clinic-diary
			Anticoa	agulation		-	Clinic View Me <u>ssage M</u> I <mark>Click here</mark>	anagemer	⊧ it ⊧	General Lookup Category HCProfessional
Welcome DAW	/N			1	Wa	orklist	Prin new health		→	Health Authority LoginLog
You are curre profile 'System N Location for	lanage	ř				tients with Induc	Audit & sect Dawn Interf	·) 	Organisation Patient Group
	printin	g Offic	e	Ŧ		omplete 1	System Coded Com	iments	►.	Questionnaire Type Reference Range

6.1.1 List of Health Authorities

Health Auth	nority 🗙				
	Name	Address 1	Address 2	Town	Cou
📃 😜	Lakeside County				
📃 🔍	South Lakeland PC	г			
You can optionally click on the Form icon to the left of each record to see further details	To delete a record, click on the Bin icor the record and then the Save button at t	n beside I click			
	Click here on the New b new health authority	• outton to add a			
H H	↓ Down O New	🛓 Save 📑 Print			

6.1.2 Adding/Editing Health Authorities

DAWN	
Health Authority 🗙	Enter a name and other details
Name	
Address 1	
Address 2	
Town	
County	
Postcode	
Telephone	
Fax	
Email	
You will need to save this new record	d before you can add related records
Click here on the OK button to save this record and return to the list of organisation types.	d before you can add related records
✓ OK X Cancel	

6.2 Adding/Editing Organisation Types

If you need to add a type for an organisation that does not exist in the standard list, new types can be added here.

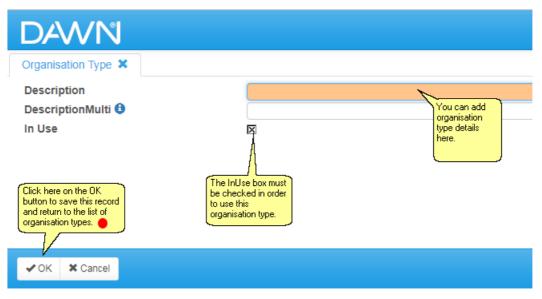
Messages

Email

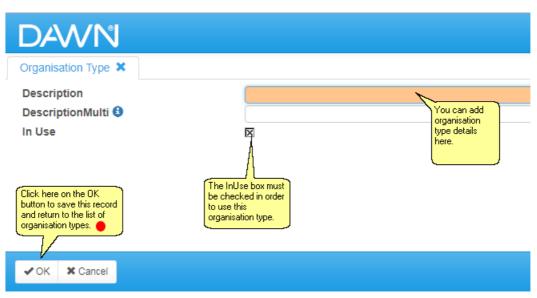
Interface



correct or not working correctly.



6.2.2 Adding/Editing an Organisation Type



6.3 Adding/Editing Organisations

Different organisations can be set up within the system so that healthcare professionals and clinics can belong to a particular organisation. You must have a Health Authority set up within the system before creating a new Organisation.

	ŵ	Q Patient	🗮 Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management -	🖲 Help 🚽	Q •
							Normal Tab	les	Clinic
Version 8.0.0 (1	357)			Lookup tabl	les 🕨 🕨	Clinic-diary			
			ļ	Clinic View	settings 🔹 🕨	General Lookup Category			
							Message M	anagement 🕨	HCProfessional
Welcome DAWN	N				1	Worklist	Printing	•	Health Authority
							Reports	•	LoginLog
You are current 'System Manager'		ed on as 'Sup	port DAWN'	with user pro	file	Patients with	Audit & sec	urity 🕨 🕨	Organisation
								k here 👔	Patient Group
🚔 Location for p	rinting	1	Office		v	No INR Today		add a new anisation	Questionnaire Type
						Incomplete	Coded Con	iments	Reference Range
Conditions of Us					9	Visits			Team
	50					Missed Test	2	93	Test
By logging on to this sys			med to have ad	cepted the 10	following	Active	2	630	Test Alias
warnings and conditions						Treatment Plan			Test Group
 Inadequate check severe injury and 	d death.					No next test date	0	28	Therapy Template
 Check that all the Check that you have 	nave a p	rocedure in plac	e to ensure rigo	prous follow up		Uate			Trial
attendees and er 4. Interruptions to ti					hing off,				Ward

6.3.1 List of Organisations

D	4	VN	Ĥ	Q Patient	i≣ u	ists 🔷 Calls	Reports	🌣 DAWN 🗸	Management
Orga	nisatio	on 🗙							
Sea	rch C	L							
Sele	ction	:					OwnOrganisat	ion	
Sear	rch fo	r:	Туре					¥	Name
Assist	ted Ca								
_		Name			In Use	Address 1		Address 2	
		Meadowfi	ield		X	4 The Square			
GP Pr	actice								
	_	Name			In Use	Address 1		Address 2	
	٩	ST JOHN	IS MEDIC	AL CENTR	X	86 BROOKSIDE	EAVENUE	PITSEA STRE	ET
		11 SHEEI	N COURT	•	X	OULTON			
	9	Dethick C	ourt Prac	tice	X	11 Dethick Cour	t	Burnop St	
		98 CLOS	EFIELD G	ROVE	X	ASHFORD			
	9	26 DALE	ACRE		X				
	٩	21 STILE	MAN HOU	JSE	X	BURLEY-IN-WH	ARFEDALE		
	9	FARLEY		k here to add a v organisation	X	179 POOLEY G	REEN RD		
	9	25 ALEXA		•	X	ST DOGMAELS	3		
	٩	BROCKW		O HEALTH	X	STATION RD			
M	₩	↓ Down	O New	± Save	🖨 Print				

6.3.2 Adding/Editing Organisations

ganisation *	An organisation type must be chosen from the list
(New record) Type An organistion name must be unique	GP Practice Group
Name	The in use box must be checked to use this organisation
Address Health TestCentres	care professionals Teams Wards Location Clinics Monitoring Patient groups Print station
Address 1	If this organisation is going to monitor patients, click on the Monitoring tab
Address 2	
Town County	
Postcode	
Telephone Fax	
Email	
Code	
ick here to save the cord.	(Make a choice)
OK 🗱 Cancel	be selected

(New record)				Ľ	the list			
Type An organistion name must be unique	GP Practice Gro	up			V			
Name	The Doctors Pra	ctice	The issue he	x must be check				
In Use	X		this organisati		ed to use			
Address Health TestCentres	n care professionals	Teams	Wards	Location	Clinics	Monitoring	Patient groups	Print station
Address 1							on is going to monitor h the Monitoring tab]
Address 2								
_								
Town								
Town County								
County								
County Postcode								
County Postcode Telephone								
County Postcode Telephone Fax								

6.3.2.1 Mark the organisation as the monitoring organisation

Enter topic text here.

6.4 Adding/Editing Organisation Wards (Optional)

Wards can optionally be set up within the system to monitor inpatients. You must have an Organisation set up within the system before creating a new Ward.

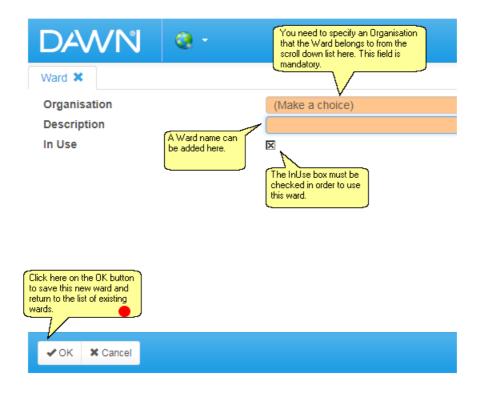
DAWN	ŵ	Q Patient	🗮 Lists	🕿 Calls	Reports	🕏 DAWN 🗸	Management -	🕄 Help 🗸	Q •	
							Normal Ta	bles	Clinic	
Version 8.0.0	(1357)			Lookup ta	bles 🕨 🕨	Clinic-diary				
			1	Anticoagulatic	n		Clinic View	v settings 🔹 🕨	General Lookup Category	
							Message	Management 🕨	HCProfessional	
Welcome DAV	ΝN				1	Worklist	Printing	+	Health Authority	
						_	Report:	s >	LoginLog	
You are curre System Manag		ged on as 'Su	port DAWN'	with user pro	file	Definition of the	Audit & se	curity 🕨 🕨	Organisation	
						Patients with	Dawn Inte	rface 📃 🕨	Patient Group	
Location for	r printin	g	Office		Ŧ	No INR Today	System	+	Questionnaire Type	
						Incomplete	Coded Co	mments	Reference Range	
Conditions of						Visits			Team	
Conditions of	Use				θ	Missed Test	2	93	Test	
By logging on to this	system vo	ou have been dee	emed to have a	cepted the 10 f	ollowing	Active	2	630	Test Alias	
warnings and condition	ons of use	e:			-	Treatment Pla		050	Test Group	
1. Inadequate cl severe injury		f Dose and Next 1.	Test Date instru	ctions could lea	d to	No next test	0	28	Therapy Template	
		nstructions are a procedure in place				date		lick here to dd a new	Trial	
attendees an	d ensure t	hat all patients h rations of the sol	ave a next test	date.				Vard.	Ward	

6.4.1 List of Wards

DAWN	A	Q Patient	🗮 Lists	🕿 Calls	P Repo	rts	🗢 DAWN 🗸	Management 👻
Ward 🗙								
Organisatio	n					Des	cription	
📑 😭 🛛 Dawn Hos	oital				• >	Wa	rd 18	
📑 😭 🛛 Moor Stree	t				• •	Wa	rd 10	



57



6.5 Adding/Editing Clinics

Clinics must be set up within the system so that patients can be booked into these clinics for each visit. Patients can also be logged as having a particular preferred clinic. You will need to set up an Organisation before creating a new clinic.

🗘 DAWN 👻		🚯 Help 👻	Click here to add
	Normal Tab	les	Clinic a new clinic
	Lookup tabl	es →	Clinic-diary
	Clinic View	settings 💛	General Lookup Category
	Message M	anagement 🕨	HCProfessional
	Printing		Health Authority
	Reports	÷	LoginLog
	Audit & sec	urity >	Organisation
	Dawn Inter	ace >	Patient Group
	System	+	Questionnaire Type
	Coded Corr	nments	Reference Range
			Team
			Test
			Test Alias
			Test Group
			Therapy Template
			Trial
			Ward

6.5.1 List of Clinics

isease area	Anticoagul	atian									•		Disease area	Organisation	Description	In Us
isease alea	Anneoagui	auon										►	Anticoagulation	Dawn Hospital	Anticoagulation Ripon District Nurses	x
escription	Anticoagula	tion Ripon Dis	trict Nurses										Anticoagulation	Dawn Hospital	Badger	×
rganisation	Dawn Hos	latio									• →		Anticoagulation	Dawn Hospital	Dabigatran pathway	x
		pitai											NOAC	Dawn Hospital	Dabigatran Review Clinic	x
ocal Code	B1												Anticoagulation	Dawn Hospital	Dalton Square Surgery GP (S)	x
Use	x												Haematology	Dawn Hospital	Day Hospital Clinic	x
Slot Templates	Adjustments	Create/De	lete Diary										Anticoagulation	Dawn Hospital	Doms Anticoagulant Clinic	×
													Gastroenterology	Dawn Hospital	DVT Clinic	x
O Add a new record	■ 1.2/2												Haematology	Dawn Hospital	Nurse-led Clinic	×
													Anticoagulation	Dawn Hospital	Outreach Nurse Clinic Barnet	x
Start Time	End time	Max. cap.	Reserved cap.	Interval	Sun	Mon	Tue	Wed	Thu	Fri	Sat		Anticoagulation	Dawn Hospital	Park Lane	x
68:00	12:00	30	15	1 hour		R							Anticoagulation	Dawn Hospital	Pathology Outpatients (M)	×
69:00	17:00	1	0	5 minutes			R						Anticoagulation	Dawn Hospital	Self tester phone (home)	X
													Anticoagulation	Dawn Hospital	South Milnthorpe self (RC)	x
													Anticoagulation	Dawn Hospital	zavenue	
													Anticoagulation	Dawn Hospital	zBank Hill	
													Anticoagulation	Dawn Hospital	zbamsley	
													Anticoagulation	Dawn Hospital	zBradford	
													Anticoagulation	Dawn Hospital	zBriggs	
													Anticoagulation	Dawn Hospital	zClarence	
													Anticoagulation	Dawn Hospital	zCode Road	
													Anticoagulation	Dawn Hospital	zDay	
													Anticoagulation	Dawn Hospital	zDodge	
													Anticoagulation	Dawn Hospital	zEdgeware	
													Anticoagulation	Dawn Hospital	zHanover	
													Anticoagulation	Dawn Hospital	zLane	
													Rheumatology	Dawn Hospital	zMonitoring Clinic	
													Anticoagulation	Dawn Hospital	zPotter	
Centrality													Anticoagulation	Dawn Hospital	zRaigmore HAC	
Click he clinic	re to add a new												Anticoagulation	Dawn Hospital	zRaigmore Postal GP service	
													Anticoagulation	Dawn Hospital	zRose	
< > H 0	New The Delet	1.4.4	Print												and the second	1/42

6.5.2 Adding/Editing Clinic Details

nic 🗙				A Disease area must be specifi the clinic, eg, anticoagulation		
Disease area	(Make a choice	e)			5	×
Description	1					A clinic descript
Organisation		2)				be specified for new clinic. The
-	(Make a choice	=)				description mus unique. The clini
Local Code		Chainean	ha also also al la			local code may optionally be ad
In Use	X	The in use box must I order to use this clinic				
Slot Templates	Adjustments	Create/Delete Dia	iry			
			have t in the interfa	linic is a point-of-care testing clinic le option to select the default devi linic. This info can be used by out ces that send test result and devic r systems.	ce used bound	
Default Device	(None selected	1)	have t in the interfa	e option to select the default devi linic. This info can be used by out ces that send test result and devic	ce used bound	~
Default Device	(None selected	1)	have t in the interfa	e option to select the default devi linic. This info can be used by out ces that send test result and devic	ce used bound	~

6.5.3 Adding/Editing Slot Templates

DAWN	ŵ	Q Patient	🗮 Lists	🕿 Calls	Reports	🕸 DAWN 👻	Management -	🕄 Help 🗸	Q •
Clinic 🗙									
Disease area	A	nticoagulation							T
Description	Me	eadowside							
Organisation	Т	ne Hospital							• →
Local Code									
In Use	X								
Slot Templates	Adju	stments C	Create/Delete	e Diary					
• Add a new record	-								
There are no items to) displa	y what days th each day, ho	e clinic runs on	v the clinic diary , how many time s in each clinic sl ate.	slots for				

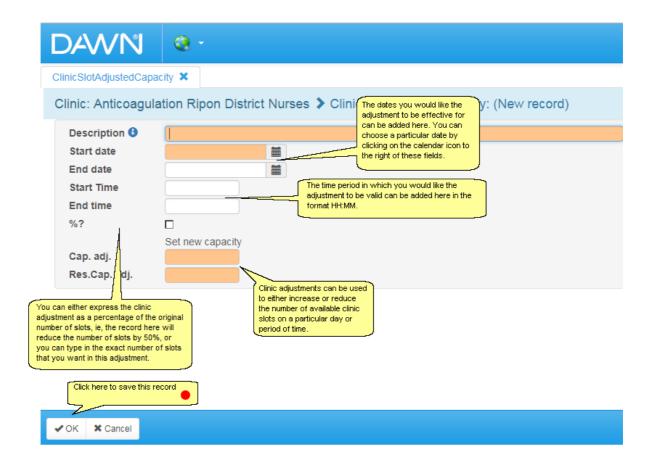
DAWN	Q •	
ClinicSlotTemplate 🗙		
Clinic: Meadowside	e > ClinicSlotTemplate:	(New record)
Start Time End time Max. cap. Reserved cap. Interval Sun Mon Tue Wed Thu Fri Sat	his slot	A start and end time must be specified in the format HH:MM. The maximum number of patients in each slot and a reserved capacity also need to be added. The slot time interval can be added here. So on this record, DAWN will create clinic slots of 1 minutes each from 8:00am to 3:00pm. Each five minute slot will have a capacity of 1 patient, with 1 reserved slot. A reserved capacity is used to deal with any extra patients who may come into the clinic. So DAWN will not automatically book patients into these reserved slots, but the user can use these extra slots if a clinic is full.
Click here to save the record		
✓OK X Cancel		

6.5.5 Saved Slot Template Form

You ca more s on the	Org n Loc I In Use	licking plates a stiffrom Lisation	Anticoagul Meadowsio The Hospi Click here adjustments	le tal to add a new clinic	elete Diary								▼ ▼ →
	0		▶ 1 - 1 / 1										
		Start Time	End time	Max. cap.	Reserved cap.	Interval	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	4	08:00	13:00	1	1	5 minutes Your save slot templa will appear here	te	X	X	X	X		

6.5.6 Adding/Editing Adjustments

Clinic 🗙		
Disease area	Anticoagulation	¥
Description	Anticoagulation Ripon District Nurses	
Organisation	Dawn Hospital	▼ →
Local Code	B1	
In Use	X	
Slot Templates	Adjustments Create/Delete Diary	
Add a new recor		
There are no items	to display	



6.5.8 Saved Clinic Adjustment Form

DAWN	A	Q Patient	🗮 Lists	🖀 Calls	Reports	🗢 DAWN 🗸	Ma	anagement -	🕄 Help 🗸	٢		
Clinic X ClinicSI	otTempla	te 🗙										
Disease area	A	nticoagulation								¥		
Description	A	Anticoagulation Ripon District Nurses										
Organisation		awn Hospital								• →		
Local Code	B	1										
In Use	X				Click here to							
Slot Templates	Adju	istments C	reate/Delete	e Diary								
Add a new rec	ord 🔶	1 - 1 / 1										
Descripti	on	Start date	End da	ate S	start Time	End time	%?	Cap. adj.	Res.Cap. adj.			
Public hol	day	25/12/2017	26/12/2	2017 0	8:00	17:00		0	0			

6.5.9 Creating the Diary

DAWN	ŵ	Q Patient	🗮 Lists	🖀 Calls	Reports	💠 DAWN 👻	Management -	🕄 Help 🗸	Q -
Clinic 🗙									
Disease area	A	nticoagulation							Y
Description	Ar	nticoagulation F	Ripon District	Nurses					
Organisation	D	awn Hospital							▼ →
Local Code	B1								
In Use	X								
Slot Templates	Adju	stments C	reate/Delete	Diary					
Legend:								Once you have your clinic diary, will automatically these diary slots	DAWN v extend
	ith app	oointments be deleted	scroll down li	ould like to ry for from the]		4	future for you	
Last day in diary	No	diary available			-		o create the e next chosen weeks		
# of weeks to create	S	elect		•	Create dia	ary	You can also delete the diary for a set	•	
# of weeks to delete	S	elect			Remove d	lata from diary	number of weeks		

CAUTION - avoid creating the diary for too many weeks in advance.

In normal running, DAWN will automatically extend the diary for you, ensuring you always have slots for the number of forthcoming weeks defined in the *Diary_AutoCreateWeeksAhead* system setting. As a rule of thumb, set this to 4 weeks more than the maximum interval you would give a patient. If you don't usually allow patients to go more than 12 weeks without a test, make this setting 16; if you don't let patients go more than 6 weeks without a test, make it 10.

Likewise, if you manually extend the diary as shown above, avoid exceeding this number. Limiting how far the diary is extended into the future allows you more flexibility in changing your slot templates. New diary pages are based on your existing slot templates. If you change your slot templates, the changes are not reflected in the diary until new pages are created, existing pages still retain their original time slots.

The system setting *Diary_WeeksToKeepInHistory* determines how many past weeks are retained in the diary. DAWN automatically deletes old diary pages, leaving just the number of weeks defined here. The diary only holds patient appointment times - the INR dates are held separately with the INR and dose. Unless you have a special requirement to report on past appointment times, keep this number as low as possible. Make it zero if you don't need to retain any past appointment times for reference.

Limiting how far ahead the diary is extended and how many past weeks are retained helps optimise system performance.

6.5.10 Clinic Diary Slots

)///A	♥ 4	Q , Patie	nt 🔚 List	is 🔼 🖀 Cal	s 🕒	Reports	¢	DAWN -	Management	
nic 🗙										
Disease area	a	Anticoagulat	ion							
Description	(Dalton Squa	re Surgery Gl	° (S)						
Organisatio	Dawn Hospital									
Local Code	S									
In Use	1	X								
Slot Temp	lates A	djustments	Create/De	elete Diary						
2017 - 47 12/11/2017 4 (20)	2017 - 48 19/11/2017 80 (118)	2017 - 49 26/11/2017 87 (118)	2017 - 50 03/12/2017 90 (118)	2017 - 51 10/12/2017 86 (118)	2017 - 17/12/2 85 (11	017 24/12	7 - 53 2/2017 (118)	2018 - 1 31/12/2017 93 (118)	7	
2018 - 2 07/01/2018 91 (118)	2018 - 3 14/01/2018 97 (118)	2018 - 4 21/01/2018 91 (118)	2018 - 5 28/01/2018 88 (118)	2018 - 6 04/02/2018 97 (118)	2018 - 11/02/20 98 (11	018 18/02	8 - 8 2/2018 (118)	2018 - 9 25/02/2018 98 (118)	3	
2018 - 10 04/03/2018 98 (118) Legend:		Once the clinic any weeks wit appointments v highlighted in y	h patient vill be		d v e	our new clin isplayed here veeks. You c ach block of ore detail	e broken (an option	lown by ally click on		
2017 - 49	Current wee	ek			~				4	
2017 - 50	Week with a	appointments								
2017 - 51	Week about	t to be deleted	t							
Last day in o	diary	10/03/2018								
# of weeks t	o create	Select			Y	Create di	ary			
# of weeks t	o delete	2 old weeks			•	Remove	data fron	n diany		

6.6 Adding Devices

If you employ point-of-care testing, DAWN may be the first place you capture the test result. If you also send the results on from DAWN to another system (such as a lab system or an electronic patient record) via an outbound interface, you may need to include info about the device or analyser used. DAWN allows you to setup a lookup table of devices and associate a device with a clinic as the default device for the clinic.

Adding a new device

Adding a New Clinic

6.6.1 Adding a new device

Management -	i -	2	2	R	
Normal Tables	5	ŀ			_
Lookup tables				Anticoagulation Tables	Þ
Clinic View se	ttings	Þ		Allergy	
Message Man	agemer	t⊁		Anticoagulant Brand	
Printing		ŀ		Blood Group	
Reports		Þ		Cessation Reason	
Audit & securi	ty	Þ		Device	
Dawn Interfac	e	ŀ		Diagnosis	Þ
System		Þ		Disease area	
Coded Comm	ents			Drug	Þ
				Ethnic Origin	

Device Model Nam	e	You must specify a model name and	6
Device Identifier Test Code Value		identifier for the device. The identifier must be unique. The model name does not have to be unique as you may have several devices of the same model.	
associated w performed by	er a test code ith the tests the device and he device itself.		
1 Use	X		
In Use You will need to s		you can add related records Once you have saved the new record and selected it as the default device for one or more clinics, the clinics appear here.	

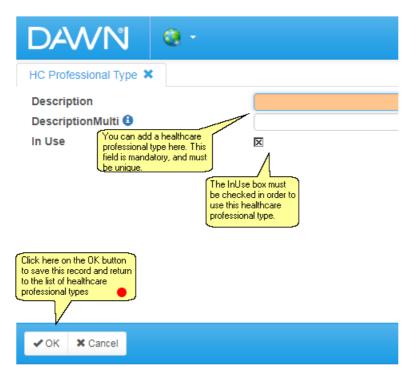
6.7 Adding/Editing Healthcare Professional Types

If you need to add a type for a healthcare professional that does not exist in the standard list, new types can be added here.

AVN 🕇	Q Patient	🗮 Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management -	🕄 Help 🗸	Q •		
						Normal Tab	les 🕨			
rsion 8.0.0 (1357)			Lookup tabl	es	Anticoagulation T	ables				
		ļ	Clinic View	settings 🔹 🕨	Allergy					
						Message M	anagement 🕨	Anticoagulant bra	and	
Welcome DAWN					Worklist	Printing	•	Blood Group		
						Reports	•	Cessation Reaso	n	
You are currently logg	jed on as 'Suj	pport DAWN'	with user pro	īle		Audit & sec	urity 🕨 🕨	Diagnosis		
'System Manager'.					Patients with	Dawn Interf	ace 🕨 🕨	Disease area		
🚔 Location for printing	J	Office		Ŧ	No INR Today	System	•	Drug		
			Incomplete	Coded Com	nments	Ethnic Origin				
					Visits			Event		
Conditions of Use				0	Missed Test	Click here to edit a Health Professional	icare	HC Professional Typ		
By logging on to this system you	u have been dee	emed to have a	ccepted the 10 f	ollowing	Active	L	630	Intervention Time	slot	
warnings and conditions of use:					Treatment Plan	2	030	Language		
 Inadequate checking of severe injury and death. 		Test Date instru	ctions could lea	d to	No next test	0	28	LMWH drug		
 Check that all therapy in Check that you have a p 					date		20	Messaging		
attendees and ensure th 4. Interruptions to the oper	hat all patients h	ave a next test	date.					Organisation Typ	e	
can lead to data corrupti	ead to severe in				Procedure					
			-		Messaging			Risk Managemer	nt	
any such interruption to 5. Read the Safety Section										
any such interruption to	latabase using a al Software imm	ediately if you n	otice any anom					Therapy Status		

6.7.1 List of Healthcare Professional Types

	rofessional Type ×	•	Q Patient	i≣ Lists	Calls	Reports	✿ DAWN ◄	Managen		Sector Secto	· 🥹 •	
	Description						Health Profes	sional types r in a list.	Des	criptionMulti	9	In Use
9	Consultant							fields are	Со	nsultants		×
9	GP								GP	's		×
9	District Nurse								Nu	rses		×
9	Pharmacist								Ph	armacists		X
9	BMS								BM	IS		×
9	ClericalOfficer								Cle	erks		×
9	Manager								Ма	nagers		×
9	IT									orofs		X
9	Phlebotomist								Ph	ebotomist		X
9	LPN								LP	Ns		X
9	Nursing Home Ma	anager							Nu	rsing Home Ma	nagers	×
e, you c left of th healthc ged aga	a healthcate professional can click on the Bin icon t he record [please note - if are professional type is ainst a healthcare al, then it cannot be delete both the Down		Click here on New button to new healthca professional to	add a e								



6.8 Adding/Editing Healthcare Professionals

Healthcare professionals can be added to the DAWN system and can optionally be set up with user accounts to access their patients. Once healthcare professionals have been added to the system they can be logged as a patient's referring GP, consultant, etc.

	ŵ	Q Patient	🗮 Lists	🕿 Calls	Reports	🕸 DAWN 👻	Management -	🕄 Help 🗸	Q -	
				Normal Ta	bles	Clinic				
ersion 8.0.0 (1	1357)			Lookup tal	oles 🕨 🕨	Clinic-diary				
			ļ	Clinic View	settings	General Lookup Catego				
							Click here to Healthcare		HCProfessional	
Welcome DAWN	N				1	Worklist	Professiona	• •	Health Authority	
							Reports	; >	LoginLog	
You are current		ged on as 'Su	port DAWN'	with user pro	file		Audit & se	curity 📃 🕨	Organisation	
'System Manager'						Patients with	Dawn Interface		Patient Group	
🚔 Location for p	rinting		Office		Ŧ	No INR Today	System 🕨		Questionnaire Type	
						Incomplete	Coded Co	mments	Reference Range	
Conditions of U						Visits			Team	
Conditions of Us	se				θ	Missed Test	2	117	Test	
By logging on to this sys warnings and conditions			emed to have ac	cepted the 10	ollowing	Active Treatment Plan	2	630	Test Alias Test Group	
1. Inadequate chec			Test Date instru	ctions could lea	d to				Therapy Template	
severe injury and 2. Check that all th	erapy in	nstructions are a				No next test date	0	28	Trial	
 Check that you i attendees and e 					of non				Ward	
Interruptions to t	he oper	rations of the sof	tware, e.g. Pow	er failure, switc	hing off,					

An Organisation must be created before a healthcare professional can be added.

6.8.1 List of Healthcare Professionals

earch for: Organisation		v Role		v Last name	[
e each record to show		User			ou can optionally search on	Se
ofessional details				a	ny of these fileds	
Organisation		Role	Last name	First name	Initials	In U
E 11 SHEEN COURT	* →	GP v	McGroarty	Feargal	С	X
🖹 🍟 🛛 11 SHEEN COURT	• →	BMS •	Seal	John	JS	×
🗐 🤮 🛛 14 IMPERIAL AVENUE	v 🔸	GP 🔻	Perry	VU	P	X
🗐 😭 🛛 18 DEBADALE HOUSE	• +	GP v	Mark	Alexandra	В	
🗐 🍵 21 STILEMAN HOUSE	• →	GP v	Heritage	VI I	H	X
E 21 STILEMAN HOUSE	v 🔸	GP v	Hughes	GA	H	X
🗐 🧃 21 STILEMAN HOUSE	¥ 🔶	GP email contact	Jack	lisa.jones@bfwhospitals.nhs.uk	G	X
🗐 🍵 21 STILEMAN HOUSE	т 🔶	GP 🔻	Miah	TD	M	X
E 9 21 STILEMAN HOUSE	T →	GP 🔻	Rosindale	XA	R	X
S 21 STILEMAN HOUSE	v 🔶	District Nurse	Smith	Paul	PS	×
🗐 🌚 🛛 21 STILEMAN HOUSE	v 🔶	GP 🔹	Trainer	FR	T	X
	т 🔶	GP T	Man	Α		×
Click here to add a new	v 🔶	GP T	Ali	С В	A	×
	▼ →	GP T	Biss	В	BB	×
						X

HCProfessional X (New record) Organisation (Make a choice) Choose and organisation and Role from the drop down lists Role (Make a choice) Last name Add a first name and last name First name Initials The in use box must be checked to use this record In Use × Address info Teams Account info Notes Patients Click on the account info tab to create a user account for this healthcare professional Title National Number Local Number **Direct Telephone** The healthcare professional's details can be added here. Mobile A valid email address must be entered if this HCProfessional is to have a user account. Email

6.8.2 Adding/Editing Healthcare Professional Details

Email with PDF attachment

E-mail

Direct Fax

Messaging method:

IMPORTANT: *email with PDF attachment* is more robust choice for messages which risk being misinterpreted if they are formatted badly. Dosing instructions are a prime example. With simple email, the content is placed in the body of the email and relies on the recipient's email client to format the content correctly. Some clients may be more reliable than others. With *email with PDF attachment*, the content is saved to a PDF file (which will display the same way on any computer) and attached to a covering email.

have not entered a mobile number

The messaging method determines how the healthcare professional receives written messages, e.g. by email, by SMS, or by mail (printed hard copy). If you choose a method that relies on a particular contact detail (e.g. an email requires an email address, phone requires or a phone number), you are prevented from saving the record, if you have not entered the relevant contact detail. In other words you cannot select SMS if you

If you select phone, the healthcare professional will be phoned with any messages that can be sent either by phone or written. However, you must also select how they receive messages that can only be sent by a written method (e.g. "Phone (written by email)".

Can Also Receive Messages By:

When you first add a new record, the *Can Also Receive Messages By* section does not include any options except *Mail*. As you add different contact details such as email address, phone numbers, or fax numbers, check boxes appear for additional messaging options such as email. phone, fax or SMS. Checking one or more of these options means the recipient can receive messages that are configured to be sent only by that means. For example, checking the SMS box ensures the healthcare professional can receive SMS (only) messages (even if their main messaging method is something else).

See Adding a New Message Event for details on how to set up SMS (only), Email (only), Phone (only) ...etc messages.

6.8.3 AddingEditing Healthcare Professional Account Information

HCProfessional 🗙		
(New record)		
Organisation	The Hospital	
Role	Pharmacist	
Last name	Brown	
First name	Mary	
Initials	Notes can optionally	
In Use	be added into the Notes tab	
Address info Te	ams Account info Notes Patients	A user name needs to be added. This user name will be used to
User		log into DAWN.
Click here to set a new		A password expiry date is
password for the	Click to create a new password for user	populated. This ensures
Password Expires	Click to create a new password for user	populated. This ensures that the user will change their password on logging into DAWN so that this information remains
	0	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential.
HCProfessional Password Expires	0 The f total logge	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential. ailed login count gives the number of failed logins ad so far for the user. A user
HCProfessional ● Password Expires Failed logins	0 The f total logge can of times indicates whether the account is 'locked' and Dass	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential.
HCProfessional ● Password Expires Failed logins Failed logins (all) €	0 The f total logge can of indicates whether the the system the system total	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential. ailed login count gives the number of failed logins d so far for the user. A user mly attempt to log in three before being 'locked out' of ystem if the user name or word is incorrect.
HCProfessional Password Expires Failed logins Failed logins (all)	0 The f total logge can of times indicates whether the account is 'locked' and Dass	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential. ailed login count gives the number of failed logins d so far for the user. A user only attempt to log in three before being 'locked out' of ystem if the user name or word is incorrect.
HCProfessional Password Expires Failed logins Failed logins (all) Locked Last login date	0 The f total logge can of indicates whether the account is 'locked' and therefore used or not.	populated. This ensures that the user will change their password on logging into DAWN so that this information remains confidential. ailed login count gives the number of failed logins d so far for the user. A user only attempt to log in three before being 'locked out' of ustern if the user name or word is incorrect.

	(The password for user 'Mary' has been set to:	A random password is generated for your new record. This can be used along with the user name to log into DAWN.
Brown Mary	1	zcu7r3	
The Hospital	This password can be changed by the HC Professional at the	The user will need to immediately set a new pas	sword when first logging in.
Pharmacist	DAWN login screen.		
Brown	-	Click here on the OK button return to the list of HC Professionals	
Mary			
Teams Account info Notes Patie	ents		
Mary			
Click to reset existing password for user			
26/11/2017			
0			

6.8.4 Adding Healthcare Professional Password

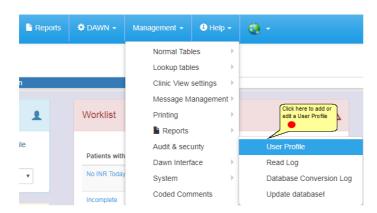
6.9 Adding/Editing User profiles

Several User Profiles can be configured in DAWN and applied to different Healthcare Professionals. Some users require read-only access while others will need to edit certain values in DAWN.

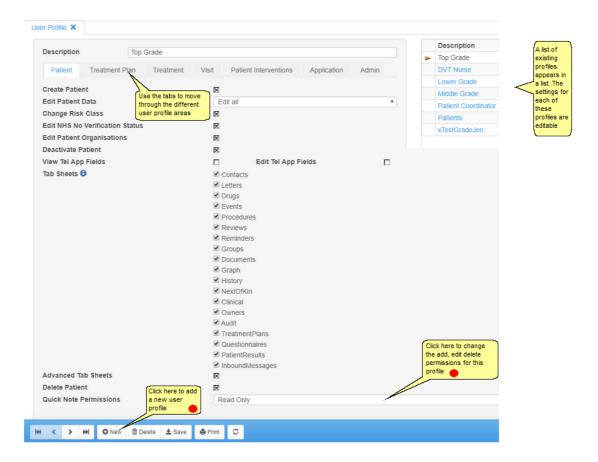
See also the Personal Settings on the Front Screen of DAWN - each user can further modify their own access to parts of the DAWN system.

If there are multiple application areas on one database, when creating or amending user profiles, ensure the application area specific permissions have been set on the individual user profiles.

Failure to do this could result in users not being able to see all the relevant patient information, eg. treatment plans etc.



6.9.1 Viewing and Editing Existing User Profiles



6.9.2 Adding a New User Profile

Profile 🗙		You need to add a user profile name here.
escription	Trainee	
	Indirec	
Patient	Treatment Plan	Treatment Visit Patient Intervent The Allow Edit Patient
reate Patien	t	determines whether the user can edit all of
dit Patient D	ata	Edit all information, the
hange Risk	Class	Contact information
dit NHS No	Verification Status	
dit Patient C	rganisations	X
)eactivate Pa	tient	
/iew Tel App	Fields	Edit Tel App Fields
ab Sheets 🕄)	 Contacts Letters Drugs Events Procedures Reviews Reminders Groups
		 Documents Graph History NextOfKin Clinical Owners Audit
		 TreatmentPlans Questionnaires PatientResults InboundMessages
dvanced Tal	b Sheets	Should the user be able to edit Quick Notes?
elete Patien	t	
uick Note P	ermissions	Add New Only

Description	Trainee		
Patient Treat	ment Plan Trea	itment Visit	Patient Int section. You can specify here whether the user can
Create Treatment Pl Edit Treatment Plan Activate And Edit Tr	Test Limits		create a treatment plan, edit the treatment plan, etc. To allow the user to carry out an action, click in the check box so that it is
Suspend Stop Treat Admit Discharge Tre Delete Treatment Pl Edit Patient Therapy	eatment Plan an	C (None selected)	This is the treatment section. These fields determine which risk class of patient the user can carry out each action for. For example, if the 'schedule treatment' action is set as 'High', then the user can schedule
Schedule Treatmen Unschedule Treatm Enter And Accept IP DNA Treatment Accept Dose	t ent	Atment Visit (None selected) (None selected) (None selected) (None selected) (None selected)	Patterne have been been been been been been been be
Authorise Dose Authorise Manual/E Reset Treatment Add/Edit Treatment Customise Dose Ins	Records (3)	(None selected)	This determines which users are permitted to authorise Manual/Bridging doses. When this option is checked the user can authorise Manual/Bridging patients up to the risk class level defined by the settings above.
Patient Treat Edit Visit Schedule Visit Unschedule Visit DNA Visit Close Visit Delete Visit	(None selected) (None selected) (None selected) (None selected) (None selected) (None selected) (None selected)	atment Visit	Patient Interventions Application Admin These settings refer to different application areas within Dawn, such as Rheumatology. If anticoagulation is the only area that is used then these settings can be be left unselected. If other application areas are being used, then these settings will determine who is able to ached and DNA a visit as well as who is able to add and edit patient results.

Patient Treatment Plan	Treatment Visit Patient Interventions Application Admin	
Edit Patient Intervention	(None selected)	•
Add Patient Intervention	(None selected)	•
Suppress Patient Intervention	(None selected)	•
Patient Treatment Plan	Treatment Visit Patient Interventions Application Admin	
Management Menu Reports Edit Reports Message Center Clinic View Clinic Diary Front Screen Tallies		
Patient Treatment Plan	Treatment Visit Patient Interventions Application Admin	
View All Organisations User Management Maintain User Profiles Maintain Dosing Engine Tables Maintain System Tables Maintain Medical Lookup Tables Maintain Organisation Tables System Tools View Audit Tables		
Monitor Screens		

Diseas	se Areas		
O Add a	a new record 🔶 1 - 1 /	1	
I	Disease area	Allow Access	Edit Treatment Plan Medical Data
<u>ن</u>	Anticoagulation	×····	
			Users can be given certain permissions in different applications of the system here. To add a new application area, you can click on the Form icon to the top left of this box.
	a new record	onals With This	Profile
here are	no items to display		Once the user profile is in use, the healthcare professionals with this user profile are displayed here.
OrderNr	0	where the appear in	
in Use	×	The InUse box must b checked in order to us user profile	
√ок 🗴	Cancel		Click here on the OK icon to save this user profile and return to the list of user profiles

6.9.2.1 Editing / Deleting Quick notes

Quick Note Permissions	Add New Only	•
	Read Only	Select whether a user with this
	Add New Only	profile can add, edit or delete
	Add and Edit	Quick Notes or just read them.
	Add, Edit and Delete	

6.10 Adding/Editing Patient Groups (Optional)

Patient groups are used to group together a subset of patients for use in reporting, list views, research purposes, etc. Patient groups are not a mandatory section to be filled in within DAWN.

	ient 🗮 Lists	🕿 Calls	Reports	🗘 DAWN 🗸	Management -	🕄 Help 🗸	Q •	
			Normal Tab	les	Clinic			
Version 8.0.0 (1357)		Lookup tab	les 🕨 🕨	Clinic-diary				
	,		Clinic View	settings 🔹 🕨	General Lookup Category			
					Message M	Ianagement 🕨	HCProfessional	
Welcome DAWN			1	Worklist	Printing	÷	Health Authority	
					Reports	÷	LoginLog	
You are currently logged on a 'System Manager'.	s 'Support DAWN'	with user prof	file	Patients with	Audit & sec	Click here to add	Organisation	
					Dawn Inter	a new patient group.	Patient Group	
🚔 Location for printing	Office		*	No INR Today	System		Questionnaire Type	
				Incomplete	Coded Con	nments	Reference Range	
Conditions of Use			9	Visits			Team	
			•	Missed Test	2	117	Test	
By logging on to this system you have be warnings and conditions of use:	en deemed to have a	ccepted the 10 f	ollowing	Active Treatment Plan	2	630	Test Alias Test Group	
 Inadequate checking of Dose and severe injury and death. Check that all therapy instruction: 	are appropriate befo	re instructing a j	patient.	No next test date	0	28	Therapy Template	
 Check that you have a procedure attendees and ensure that all patient 4. Interruptions to the operations of 	ents have a next test	date.					Ward	

6.10.1 List of Patient Groups

DAV	VN	ń	Q Patient	🗮 Lists	🖀 Calls	Reports	¢ DA	WN -	Mar
Patient Gro	oup 🗙								
	Description	n			0	rganisation			In Use
🔳 😜	Audit					Dawn Hospital		→	×
🔳 😜	PTS Audit					Dawn Hospital	•	→	X
🔳 🍵	DNA DISC	LAIMER				Dawn Hospital	•	+	X
🔳 🍵	Self tester					Dawn Hospital		+	X
🔳 🍵	Audit					Dawn Hospital		+	X
icon to th	Click	here on the n to add a i nt group		groups is displa list. The patien description field editable.	group				
H4 HH	↓ Down	V O New	± Save	🖨 Print					

6.10.2 New Patient Group Form

DAWN Q.	
Patient Group 🗙	
Description	[]
Organisation	Dawn Hospital
You will need to save this new record be	efore you can add related records Once this record is in use, the patients belonging to this group will be displayed in this box. The Organisation that the user is logged against will automatically be populated here.
In Use Click here on the OK button to save this record and return to	The In Use check box must be checked in order to use this patient group.
the list of patient groups. ●	

6.11 Adding/Editing Teams

Different teams can be set up within the system so that healthcare professionals can belong to a particular team within DAWN, e.g., Anticoagulation Nurses, Rheumatology Nurses. Healthcare professionals can belong to more than one team at a time.

List views can be used to filter patients by particular teams.

≣ Lists 🕿 Calls	Reports	🗢 DAWN 🗸	Management 👻	🕄 Help 🗸	@ *
			Normal Tab	les	Clinic
			Lookup tabl	es 🕨 🕨	Clinic-diary
Anticoagulatio	n		Clinic View	settings 🔹 🕨	General Lookup Category
		_	Message M	anagement)	HCProfessional
	1	Worklist	Printing		Health Authority
			Reports		LoginLog
port DAWN' with user pro	port DAWN' with user profile			urity 🕨 🕨	Organisation
		Patients with	Dawn Interf	ace 🕨 🕨	Patient Group
Office	Ŧ	No INR Today	System		Questionnaire Type
		Incomplete	Coded Com		Reference Range
		Visits		here to add w team	- Team
	θ	Missed Test	2	117	Test
med to have accepted the 10 f	following	Active			Test Alias
nica to have accepted the 101	T			630	Test Group
est Date instructions could lea	id to	No next test	0	28	Therapy Template
propriate before instructing a e to ensure rigorous follow up		date		20	Trial
ive a next test date. ware, e.g. Power failure, switc					Ward

6.11.1 List of teams

DAV	/N	ŵ	Q Patient	🗮 Lists	🕿 Calls	Reports	🗘 DAWN 🗸	Mana	agement 👻	😫 Help 🗸	۰ 🔕
Team 🗙											
Search Q											
Search for:	: N	ame									
(Organisatio	n							Name		In Use
🔳 😜 [Dawn Hosp	oital						• →	Team A		X
🔳 😜 [Dawn Hosp	oital						• →	Team B		X
🔳 😜 [Dawn Hosp	oital						• →	DVT team	1	X
🔳 😜 [Dawn Hosp	oital						• →	Haematol	ogy team	X
	Click here to team	o add a ne	e e e e e e e e e e e e e e e e e e e								
H H H		New Mozilla F		Print							

6.11.2 Choosing a New Team Organisation

DAVN	â	Q Patient	🗮 Lists	🕿 Calls	Reports	You can pick an organisation which this team Help - belongs to.
Team 🗙						NOTE - although you specify an organisation here, heatthcare professionals belonging to another organisation can also be added to this team
Please select	a O	rganisati	on for t	he table	Team	a
(None selected)						
Alegent Health						
The Hospital						
ST JOHNS MEDIC	AL CEN	TRE				
St James Hospital						
11 SHEEN COURT						
18 DEBADALE HO	USE					
Dethick Court Pract	ice					
98 CLOSEFIELD G	ROVE					
26 DALEACRE						
Click here to choose an	JSE					
organisation 🔴	CENTRE	E				
✓OK X Cancel						

6.11.3 Adding a New Team

Team 🗙			
Organisation	The Hospital		
Name			You need to add a
Notes		Can optionally be added here	
In Use	X		
he to eit Te	nce the record has been saved, althcare professionals can be added this new team. This can be done her from this screen, or within the am tab on a healthcare professional cord.		
n a list view			
✓OK X Cancel			

ſ

6.11.4 List View Team Filter

am 🗙 🛛 List View 🗙					
		Worklis	t Annu	ual Review	Hold
T Filter Records		Post CI	inic Check	Status	No N
With Incomplete Visits	T T	Filte			
		1 6 r	ecords four	nd. ote - if you would li	ke to use
Dates		Туре	the list vi teams, th	ews to filter on par ien please contact	ticular the 4S
(Any date)	T		support t this up	eam who will help	you to set
Clinic	>	In R	this team fil	do not wish to incl ter on your list viev an be removed by	
Therapy	>	Туре		the 'Show Team F the list view set up	
HC Professional/Team	Once new tean	ns have been	AD/	AMS, Mary	
		system, you are	UAL AD	AMSON, Free	ł
(All roles)	particular team	here	BO	OTH, Raymo	nd
(All teams)	1		TAF	RGARYEN, D	aenerys

6.12 Adding/Editing Personal Settings

DAWN Personal Settings are user specific and can be used to determine which tabs and screens the user will and will not view within the system.

D	AVVN	A	Q, Patient	🗮 Lists	🕿 Calls	Repor	rts	¢ B	Brenda 👻	Man	nagement	t - B Hel	·
V	ersion 8.0.0	(1357)			Anticoagulati	on			Change Persona Printing	al settin	ngs 📕	the user's pers settings	onal
	Welcome DAV	٧N				Ŧ		Ċ					
	You are curre 'System Manage Location for	er'.		oport DAWN' Office	with user pro	file			Patients with No INR Toda		nduction 0	Maintenance	Manu Bridg
			l						Incomplete V	ísits	0	5	
	Conditions of l	Jse				0			Missed Test		1	429	

6.12.1 Personal Settings Form

de these tabs on the Patient screen	Contacts		O Add a new record → Select	Default Clinic for each Module
	Letters		Disease area	Clinic
	Drugs			
	Events Procedures	You can check the boxes	Anticoagulation	Dalton Square Surgery GP (S
	Reviews	to prevent these tabs		
	Reminders	showing on the main patient screen		
	Groups			
	Documents			
	Graph			
	Graph History			
	NextOfKin			
	Owners			
	Audit			
		lect an option from the list to		
	ch	oose the tab to default to on the tient screen		
PLEASE NOTE: You are advised not to suppress these	Questionnaires PatientResults	tient screen		
notifications in case incorrect				
or missing messages are not noticed.		\sim		
elect this tab first	History	Ŧ		
on't tell me when letters/emails are sent		Set your own preference for		
on't tell me about red question mark alerts		lisplaying height and weight in metric rr imperial		
nits for Patient Height	(None selected)	•		
nits for Patient Weight	(None selected)	٣		
	X			

6.13 Adding/Editing Risk Classes

A risk class can be chosen for a patient to indicate what their risk level is, e.g., high risk, low risk. This risk class appears on the top left of the main patient screen.

🌣 DAWN 👻	Management -	🕄 Help 🗸	Q •	
	Normal Tab	les 🕨 🕨		
	Lookup tab	les	Anticoagulation Tables	
	Clinic View	settings 🔹 🕨	Allergy	Rheuma
_	Message M	lanagement >	Anticoagulant Brand	
Worklist	Printing	÷	Blood Group	Database
	Reports) - F	Cessation Reason	
	Audit & sec	urity >	Diagnosis >	Database name
Patients with	Dawn Interf	ace 🔸	Disease area	DawnAC
No INR Toda;	System	÷	Drug 🕨	
Incomplete V	Coded Con	nments	Ethnic Origin	
			Event	Patient Licen:
Missed Test	1	429	HC Professional Type	Fallent Licen:
Active Treatm	ent 3	634	Intervention Timeslot	Total
Plan			Language	
No next test date	0	35	LMWH drug	1000
			Messaging	
			Organisation Type	
			PI Click here to add/edit risk	Inbound Inter
Messaging	9		RI Classes	Risk
			Therapy Status	Risk Class
Messages	Interl	ace Email	Visit Type	Severity 🕨
Waiting to be	sent	5 0	0 0 14 19	Warn Level

6.13.1 List of Risk Classes

isk (Class X	The risk cla set to order classes - th	r the risk	sk class. eg, high risk displayed in red		
de	elete this record	Risk Level	Color Code	Manual Review Only	Treat as Priority	In Use
F	Low	0		X		Uncheck this box
9	Review	10	#EE9A49	X		to remove the risk class from
9	Medium	15	#FFE0E0	X		the available options
9	Pharmacist call Phone	30		X	X	
9	Non-compliant	95		X	X	
1	LMWH	97	#1aff1a	X	X	X
9	New patient	98		X	×	× _
9	Paediatric Patient	99	FFFF00	X	×	Check this box to inc patients with this risk
9	High	100	#FF0000	X	×	in priority groupings
	Click here to add a new risk class					

6.13.2 Adding a new risk class

DAWN		Enter a description for the new risk class		
Risk Class 🗙		~		Enter a risk level for the new risk class
Description				
Risk Level			-	
Color Code				
Manual Review Only		this box to include ts with this risk		
Treat as Priority	Class	in priority		Add a colour (optional)
In Use	and re	ings in list views eports		
Click here to save the new risk class and return to the list]			
✓ OK X Cancel				

6.14 Adding/Editing Severities

There are 2 steps involved in configuring the Patient Risks :

- Set Severity for Risk
- Set Risk

DAWN -	Management	• 3		@ -
	Normal	Tables	Þ	
	Lookup	tables		Anticoagulation Tables >>
	Clinic V	'iew settin	gs →	Allergy Rheumatology
	Messag	je Manag	ement≻	Anticoagulant Brand
Worklist	Printing			Blood Group Database
	🔓 Rep	orts		Cessation Reason
	Audit &	security		Diagnosis Database name Database size Las
Patients with	Dawn I	nterface	•	Disease area DawnAC 1824
No INR Today	System			Drug >
Incomplete V	Coded	Comment	s	Ethnic Origin
				Event Patient Licenses
Missed Test	1	429		HC Professional Type
Active Treatmer	nt 3	634		Intervention Timeslot Total Active
Plan				Language
No next test date	0	35		LMWH drug
				Messaging
			_	Organisation Type
				Procedure Click here on the Severity table to edit this and
Messaging				Risk Management
				Therapy Status Risk Class
Messages	1	nterface	Email	Visit Type Severity Severity
Waiting to be se	ent	5	0	0 0 14 19 Warn Level Severity Type

6.14.1 List of severities

sk	×	Choose from the drop down box of options	Choose from drop down b options	n the remov	eck this box e the risk fr ailable optio	om	
	Description	Severity		Warn Level 🟮		1	Įn
9	Complience	Moderate (No Hospitalisation)	• →	Low	v -		X
9	A You can click on the cant bleeding	Major Haemorrhagic	• →	Elevated risk	• -	•	X
9	A Bin icon and then the sease sease	Major Haemorrhagic	• →	Elevated risk	v -		X
9	A bottom of the screen to tes mellitus, coronary artery disease or hypertension	Therapy Indication Factor	• →	Elevated risk	• -	•	X
9	delete this record	Therapy Indication Factor	• →	Elevated risk	v -		X
2	Alcohol	Moderate (No Hospitalisation)	• →	High	τ -	•	×
2	Ambulance	Minor Haemorrhagic	• →	Low	- ·		X
2	Arteriovenous malformations	Major Haemorrhagic	• →	Elevated risk	τ -	•	X
2	Bacterial endocarditis	Major Haemorrhagic	• →	Elevated risk	• -	•	X
2	Brain, spinal or ophthalmic surgery	Major Haemorrhagic	• →	Elevated risk	v -	•	×
	Bronchiectasis or history of pulmonary bleeding.	Major Haemorrhagic	• →	Elevated risk	v -	•	X
	Brooker Centre Patient	Moderate (No Hospitalisation)	• →	High		•	×
	Cirrhotic patient with Child Pugh B & C	Major Haemorrhagic	• →	Elevated risk	v -	•	X
	Congenital or acquired coagulation disorder	Major Haemorrhagic	* →	Elevated risk		•	X
	Consent given	Moderate	• →	Low	• -	•	X
2	Creatinine clearance <15ml/min	Major Haemorrhagic	v →	Elevated risk	τ -	•	×
2	Current or recent gastrointestinal ulceration	Major Haemorrhagic	▼ →	Elevated risk		•	X
1	Diabe You can add a new risk	Minor Haemorrhagic	▼ →	Low	τ -	•	×
2	GERL GERL	SEVERE	* →	Very High		,	X

6.14.2 Adding a New Severity Setting

DAWN	ń	Q Patient	≣ Lists	🕿 Calls	Reports	🕸 DAWN 👻	Management -	🕄 Help 🗸
Severity 🗙								
Please select		everityTy he severity type	pe for t	he table	e Severity			Q
Risk			5					
Drug								
Allergy Event								
DAWN Severity X		@ •		Ente	r a description and ber	d order		
Description			-	<u> </u>				
Order			100)	V			
In Use			X	,				
Click OK to save to a list of seven								

6.15 Adding/Editing Warn Levels

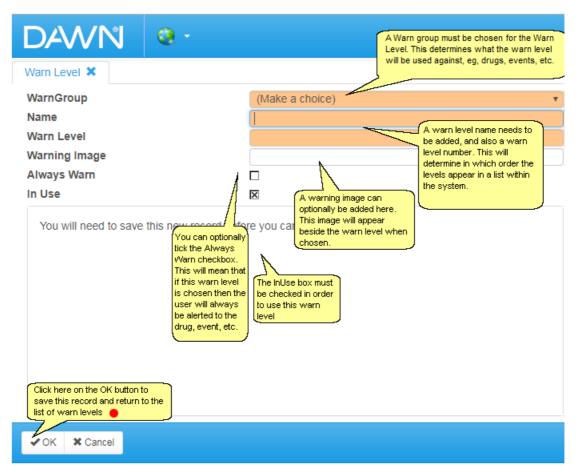
If you need to add warn levels to drugs, events, etc that do not exist in the standard list, new warn levels can be added here.

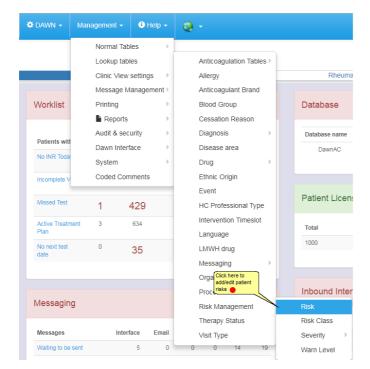
≱ DAWN → I	Management 👻	🕄 Help 👻	Q •	
	Normal Tat	oles 🕨		
	Lookup tab	les	Anticoagulation Tables I	
	Clinic View	settings 🛛 🕨	Allergy	Rheum
	Message N	lanagement 🕨	Anticoagulant Brand	
Worklist	Printing	•	Blood Group	Database
	Reports	•	Cessation Reason	
	Audit & sec	curity 🕨 🕨	Diagnosis	Database name
Patients with	Dawn Inter	face 🕨 🕨	Disease area	DawnAC
No INR Today	System	•	Drug	
Incomplete V	Coded Cor	nments	Ethnic Origin	
			Event	Patient Licer
Missed Test	1	429	HC Professional Type	Patient Licer
Active Treatmen	t 3	634	Intervention Timeslot	
Plan			Language	Total
No next test date	0	35	LMWH drug	1000
uale			Messaging	
			Organisation Type	
			Procedure	Inbound Inte
Messaging			Risk Management	Risk
			Therapy Status	Risk Class
Messages	Inter	face Email	VISI Click here to	Severity
Waiting to be set	nt	5 0	0 add/edit the warn	

6.15.1 List of WarnLevels

D	ANN	1	Q Patier	nt 🛛 🗮 L	ists	🔁 Calls	B R	Reports	¢ (AWN	Mana
Warr	Level 🗙										
Sea	irch Q										
Sea	rch for:	Warn	Group ing Image These existing wa fields are editable	-All-						v	Name
Drugs		Ĺ		<u></u>							
	Name		Warn Level		Warn	ing Image		Always	Warn	In Use	
9	Normal		3						,	X	
9	Always warn		10					X		×\ \	
۹.	Warn		100					X		X	e different n levels are
Event										grou	ped by table,
To	delete a record, you	can	Warn Level	Warning Image			Always	Warn	In belor	ill warn levels nging to drugs	
clic	k on the Bin icon to t the row. If the recon	the left	1								n the system lisplayed
aire	eady being used, the		2								r the 'Drugs'
	nnot be deleted.		3							X	ہ
9	Always warn		10		IMA	GES/EXCLA	MA	X		×	
Proce	dures										
	Name		Warn Level		Warn	ing Image		Always	Warn	In Use	
	Normal		0							×	
9	Minor		1							×	
9	Always warn		11					X		×	
9	Major	add a new							X		
Risks											
		V									
144	Down	O Nev	v 🛓 Save	🖨 Print	C						

6.15.2 Adding a New WarnLevel





6.16.1 List of Risks

Risk	Class X	Lists The risk cla set to order classes - th	ss is can be	coding can be set for sk class. eg, high risk displayed in red	Management 🗸	3
d	elete this record	Risk Level	Color Code	Manual Review Only	Treat as Priority	In Use
5	Low	0		X		Uncheck this box
9	Review	10	#EE9A49	X		risk class from
9	Medium	15	#FFE0E0	X		the available options
9	Pharmacist call Phone	30		X	X	⊠ 7/
	Non-compliant	95		X	X	
9	LMWH	97	#1aff1a	X	X	X
9	New patient	98		X	X	×
9	Paediatric Patient	99	FFFF00	X	X	Check this box to include patients with this risk class
9	High	100	#FF0000	X	×	in priority groupings in list views and reports
_	Click here to add a new risk class					
M	₩ ↓ Down ONew ± Save	Print 📿				

6.16.2 Adding a New Risk Setting

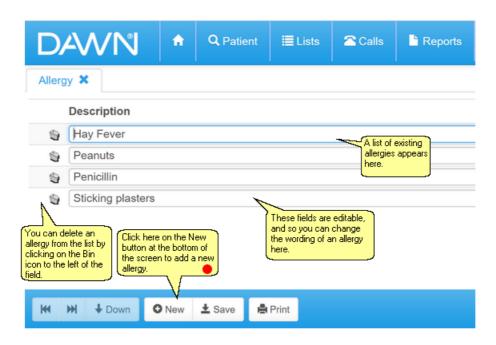
DAWN @ ·	
Risk 🗙	Enter a description
Description	Enter a severity
Severity	(Make a choice)
Warn Level 😉	(Make a choice)
In Use Click OK to save and return to a list of risks	Enter a warn level
✓ OK X Cancel	

6.17 Adding/Editing Allergies

If you need to add an allergy that does not exist in the standard list, new allergies can be added here.

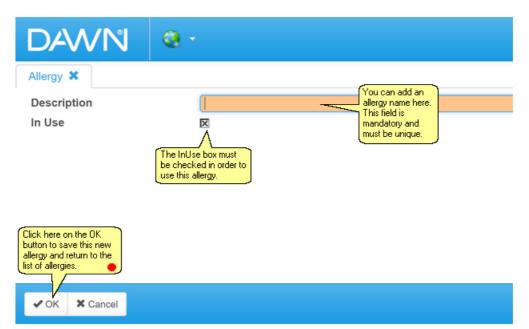


6.17.1 List of Patient Allergies



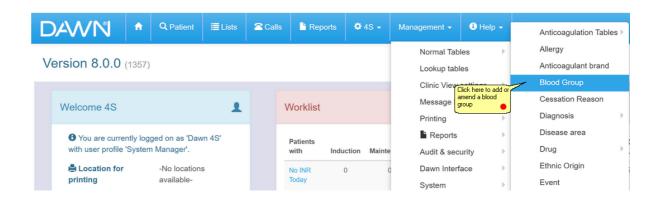
96

6.17.2 Adding a New Patient Allergy



6.18 Adding/Editing Blood Groups

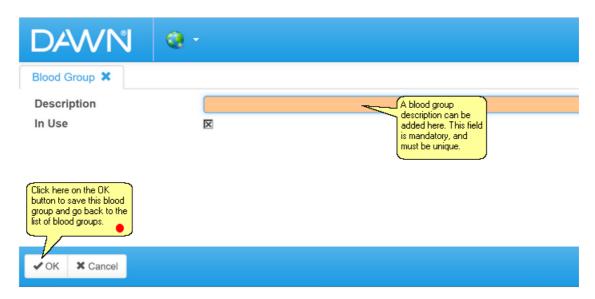
If you need to add a blood group that does not exist in the standard list, new blood groups can be added here.



6.18.1 List of Blood Groups

DAWN	A	Q Patient	🔳 Lists	🕿 Calls	Reports	🌣 4S 🗸	Management 👻					
Blood Group 🗙	Blood Group 🗙											
Description												
😭 🛛 A Positive				st of existing blood ups appears here								
O Positive			The	ese fields are able.								
You can delete a blood gro by clicking on the Bin icon the left of the record.			<u> </u>									
	on the New b w blood grou											
₩ ₩ ↓Down	O New	🛓 Save 🔒	Print									

6.18.2 Adding a Blood Group



6.19 Adding/Editing Diagnoses

If you need to add a diagnosis that does not exist in the standard list, new diagnoses can be added here.

≣ Lists	Calls Reports 🗘 4S 🗸		✿4S - Management - ❸ Help -		Anticoagulation Tables ►			
					Normal Tab Lookup tabl		Allergy Anticoagulant brand	Mon 04/12/2017
					Clinic View	settings 🛛 🕨	Blood Group	Click here to add or edit a diagnosis
1		Worklist	Vorklist		Message M	anagement ⊧	Cessation Reason	
					Printing	•	Diagnosis	Diagnosis
1 4S'		Patients			Reports	Þ	Disease area	Diagnosis Group
			duction	Mainte	Audit & seci	urity 🕨 🕨	Drug	Diagnosis Stage
		No INR	0	0	Dawn Interf	ace 🕨	Ethnic Origin	2/2017 08·08 6

6.19.1 List of Diagnoses

DAWN	A	Q, Patient	🗮 Lists	🖀 Calls	Reports	\$ 4S -	Management -	🕯 Help 🗸	Q •	
Diagnosis 🗙 Search Q	diagn	of existing oses appear here, a fields are editable,]							>
Description		Co	de Name		In Use	Diagnosis	Group	Diagnosis St	age	Relevant for
ACUTE BRONC To delete a diagno cick on the Binic this field (pease no diagnosis is logged patient, then it can deleted)	sis, you ca n to the lef te - if the against a	n Ît of				(None se	lected) 🔻		w record Diagnosis Stage	 Anticoagulation DOAC Monitoring Gastroenterology Haematology Rheumatology Rivaroxaban Test Results
S AF & CARDIOVE	ERSION				X	Atrial Fib	rillation 🔻 🔶	O Add a ne	w record Diagnosis Stage	Anticoagulation
H H → Down C Click here or buton to ad diagnosis			Print							1-20 / 104 Q

6.19.2 Adding a New Diagnosis

DAVVI	V 🧕	•		
Diagnosis 🗙 Description Code Name In Use DiagnosisGrou You will need	to save this new	(None selected)	The InUse box must be checked in order to use this diagnosis ated records Lated records	be down ups aated
Relevant for	been sa optional stages i	le new record nas aved, you can Ily add diagnosis into this box, eg, ed, early, etc.		
✔OK X Can	cel			
Click here on the DK button to save this re- and return to the list of diagnoses.	cord			

6.20 Adding/Editing Drugs

If you need to add a drug that does not exist in the standard list, new drugs can be added here.

🖀 Calls	Calls 📑 Reports 🌣 4S 🗸		Management 🗸 🕃 Help 🗸		Anticoagulation Tables >		
				Normal Tabl		Allergy Anticoagulant brand	Mon 04/12/2017
			_	Lookup tabl		Blood Group	
١	Norklist			•	anagement 🕨	Cessation Reason	
				Printing) 	Diagnosis Disease area	Click here to add or edit a drug
	Patients with	Induction	Mainte	Audit & secu	urity 🕨 🕨	Drug	Drug
	No INR	0	C	Dawn Interf	ace 🕨 🕨	Ethnic Origin	Drug Class
	Today			System	•	Event	Drug Interaction
	Incomplete	0	1.	Coded Com	ments	HC Professional Type	Drug Dose Units
	Visits	0		ar	ntering nd/or uthorising	Intervention Timeslot Language	Drug Duration Uni Frequency

6.20.1 List of Drugs

DAWN	ŵ	Q Patient	🗮 Lists	🗠 Calls	Reports	\$ 4S -	Management -	🕯 Help 🗸	Q •		
Drug 🗙											
Search Q		existing drugs									>
Description	appear	*	F	elevant inte					Relevant for	Drug Class 🕄	In U
8-deoxycycl	ne			(None select		These fields are editable.			¥	(None selected)	• 🗵
E Acetazolani	de			(None selected)					(None selected)	• 🗵	
Actofan				(None selected)					 These fields are editable. 	(None selected)	• 🖂
E Actron eff. ta	ablets			(None selected)						(None selected)	• 🗵
E Adalat				(None selected)					•	(None selected)	• 🗵
Adifax				(None select	ed)				T	(None selected)	• 🖂
Agent assoc	iated with	n serious bleedi	ing	(None select	ed)				¥	(None selected)	• 🗵
To view further drug details, click on the Form icon to the left of this field.	Net	Print E	dit							1-20 / 3	12 Q

6.20.2 Adding a New Drug

Drug 🗙	
Description	A drug name can be added here. This field is mandatory
1	and must be unique.
Relevant interaction	(None selected)
DrugNotes You can choose an interaction level from the secol down lat.	You can calibratily add any drug note: her: Calibrating on the Case to Calibrating on the Case box will expand the field
Relevant for	
Local Code	
Order Number	0
Drug Class 🚯	(None selected)
In Use Templates Warnings	The In Use box must be checked in order to use this drug.
Click have on the OK button to save this record and return to the lat of dug. Save this new record before and return to the lat of dug. VOK X Cancel	ore you can add related records

6.20.3 Marking a drug as interacting

DAWN *	Q Patient ≣ Lists ≅ Calls Neports ₽ Brenda → Management → Image: Calls Image: Calls	R							
Drug 🗙 Warn Level 🗙									
Description	Amiodarone Select the interaction								
Relevant interaction	Significant enhanced anticoagulation effect: Significant	~							
DrugNotes	< <enhanced anticoagulation="" effect="">></enhanced>								
Relevant for	Anticoagulation Select the disease area/s DVT Assessment Haematology NOAC Rheumatology Rivaroxaban								
Local Code									
Order Number	0								
Drug Class 😫	(None selected)	~							
In Use Templates Warnings	Select the default warning level. Select always warn if appropriate for the drug								
Warn Level 🔒	Normal	~ →							
WarningDuration	28 Click here on the OK button to save this record and return to the list of drugs. ●								
₩ < > ₩ O New	Belete Save EList Print C 11/	312 Q							

6.21 Adding/Editing Events

There are 2 steps involved in configuring the Events settings:

- Set Severity for EventSet the event

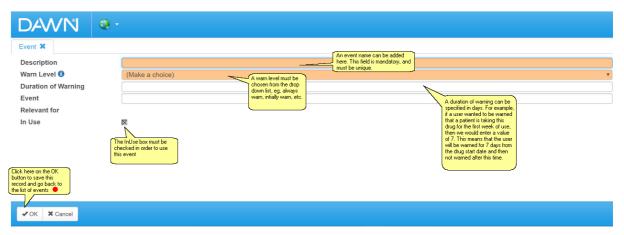
If you need to add an event that does not exist in the standard list, new events can be added here.

🗮 Lists	🖀 Calls	E Repo	orts 🔅	4S 🗸	Management 👻	🕄 Help 🗸	Anticoagulation Tables ►
					Normal Tabl	es 🕨	Allergy
					Lookup tabl	es	Anticoagulant brand
					Clinic View	settings >	Blood Group
		Worklist			Message M	anagement)	Cessation Reason
•		VVOIKIISU			Printing	÷	Diagnosis
vn 4S'		_		n Mainte	Reports	÷	Disease area
		Patients with	Induction		Audit & secu	urity 🕨 🕨	Drug
s		No INR	0	0	Click here to a		Ethnic Origin
		Today			edit a new eve		Event
		la constata	0		Coded Com	ments	HC Professional Type
-		Incomplete Visits	0	1	er	ntering	Intervention Timeslot

6.21.1 List of Events

DAWN	÷			🕿 Calls	Reports	🏶 4S 🗸	🕄 Help 🗸	Q •		
Event 🗙										
Description			Warn Level	0	Duration	of Warning	 Event	Relev	ant for	In Use
Click on the bin icon to delete an event [lease note - if the event is logged against a patient, then it cannot be deleted]	GI		Normal	existing fields are e				DC Ga Ha Rh Riv	ticoagulation DAC Monitoring stroenterology ematology eumatology varoxaban st Results	×
BLEED UPPER	GI ere to add	a new	Normal	Ŧ	•			DC Ga Ha Rh	ticoagulation DAC Monitoring stroenterology ematology eumatology (aroxaban	×
K4 ₩ ↓ Down	New	🛓 Save 🖷	Print						1-20	0/27 Q

6.21.2 Adding a New Event



6.22 Adding/Editing Procedures

If you need to add a procedure that does not exist in the standard list, new procedures can be added here.

D	AWN	ft	Q Patient	🗮 Lists	🖀 Calls	La Repo	orts 🌣	4S 🗸	Management 👻	🕄 Help 👻		Anticoagulation Table	les ⊧
									Normal Tal	bles 🕨		Allergy	
ve	ersion 8.0.0	(1357)							Lookup tab	oles		Anticoagulant brand	1
									Clinic View	settings		Blood Group	
	Welcome 4S					Worklist			Message N	/anagement ⊧		Cessation Reason	
						Trontalot			Printing	Þ		Diagnosis	Þ
	9 You are curre	ntly log	ged on as 'Daw	n 4S'		Patients			Reports			Disease area	
	with user profile	'Systen	n Manager'.			with	Induction	Mainte	Audit & see	curity >		Drug	Þ
	🚔 Location for		-No location:	5		No INR	0	0	Dawn Inter	face >		Ethnic Origin	
	printing		available-			Today			System			Event	
						Incomplete	0	1	Coded Cor	nments		HC Professional Typ	pe
						Visits	0			entering		Intervention Timeslo	ot
	Conditions of I	Jse		•						and/or authorising		Language	
						Missed	4	50	6 1	Veeds		LMWH drug	
	By logging on to this a accepted the 10 follow	/ //				Test	1	58		escheduling		Messaging	Þ
			f Dose and Next T			Active	2	63		procedure		Organisation Type	
			to severe injury an nstructions are ap			Treatment Plan			t	reatment	•	Procedure	

6.22.1 List of Procedures

DAV	۷N ,		Q Patient sting procedures	I≣ Lists	🕿 Calls	L I	Reports	🌣 4S 🗸	Management -	🕄 Help 🗸	Q -			
Procedure	Procedure X are editable.													
Des	cription		V	Warn Level	0		Pre-Warr	n Duration	I	Post-warn Dura	ition			
To you ice the action	od results ch o delete a procec ou can click on th on to the left of th cord (please note ie procedure is lo gainst a patient, ti annot be deleted	dure, ne Bin ne e if gged hen it		Normal	Ŧ	→	0			0				
	ood test	<u> </u>		Normal	v	•	0			0				
H				Print										

6.22.2 Adding a New Procedure

Procedure X Description Warn Level ③ Pre-Warn Duration Post-warn Duration Relevant for In Use The InUse book be checked in use this proce	order to procedure date then the tree and nost

6.23 Adding/Editing Diagnosis Groups

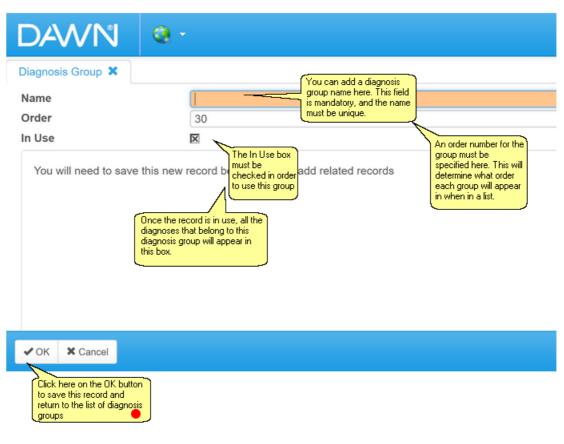
If you need to add a diagnosis group for a diagnosis that does not exist in the standard list, new diagnosis groups can be added here.

DAWN A Q Patient	Lists 🖀 Ca	lls 📑 Reports	✿ 4S ◄	Management -	i Help 🗸	Anticoagulation Tables ▶	
		Normal Tab	les 🕨 🕨	Allergy	Mon 04/12/2017		
Version 8.0.0 (1357)				Lookup tab	es	Anticoagulant brand	
				Clinic View	settings 🔹 🕨	Blood Group	
Welcome 4S		Worklist		Message M	lanagement 🕨	Cessation Reason	
		WORKIG		Printing	+	Diagnosis Click here to add	Diagnosis
You are currently logged on as 'Dawn 4S		Patients		Reports	÷		Diagnosis Group
with user profile 'System Manager'.			uction Main	nte Audit & sec	urity 🕨 🕨	Drug 🔶 🕨	Diagnosis Stage
Location for -No locations		No INR	0	0 Dawn Inter	ace 🕨 🕨	Ethnic Origin	2/2017 08:08 6
printing available-		Today		System	+	Event	

6.23.1 List of Diagnosis Groups

DAWN *	Q Patient 🗮 L	ists 🗖 Calls	Reports	\$ 4S →	Management -	3 Help 🗸							
Diagnosis Group 🔀													
Search Q A list of existin diagnosis grou appear. These are editable.	aps will												
Name				Order									
VTE				10									
Atrial Fibrillation				20									
Surgical				20									
the left of the record (please note -	To delete a diagnosis group, you can click on the Bin icon to the left of the record (please note - if the diagnosis group is logged against a diagnosis, then it cannot be deleted)												
H H Down O New	🛓 Save 📑 Print												
Click here on the N button to add a ne diagnosis group													

6.23.2 Adding a New Diagnosis Group



6.24 Adding/Editing Diagnosis Stages

If you need to add a diagnosis stage for a diagnosis that does not exist in the standard list, new diagnosis stages can be added here.

	Q Patient	🗮 Lists	🖀 Calls	Reports	\$ 4S •	Mar	nagement 🗸	🕄 Help 👻	Anticoagulation Tables >	
Version 8.0.0 (1357)						Normal Tabl		Allergy Anticoagulant brand	Mon 04/12/2017	
							Clinic View s	,	Blood Group Cessation Reason	
Welcome 4S		1		Worklist			Message Ma Printing	anagement ⊧	Diagnosis	Diagnosis
You are currently I		vn 4S'		Patients			Reports	•	Click here to add a new diagnosis stage	Diagnosis Group
with user profile 'Syst	em Manager". -No location	9		with In	duction Mai	nte	Audit & secu Dawn Interfa		Ethnic Origin	Diagnosis Stage 2/2017 08:08 6
printing	available-			Today	0	U	System		Event	02017-00.00 0

6.24.1 List of Diagnosis Stages

DAWN	÷	Q Patient	🗮 Lists	🗠 Calls	Reports	\$ 4S ₹	Management 🗸						
Diagnosis Stage 🗙													
Search Q	will aj Thes	of existing stages opear here. e fields are											
- DVT NOT SPECIFIED	edital												
Name		V				Order							
Acute						10							
Chronic						20							
To delete a diagnosis stag click on the Bin icon to the record (please note - if the stage is logged against a o then it cannot be deleted)	e left of th diagnosis diagnosis,	e											
₩ ₩ ↓Down C	New	🛓 Save 🔒	Print										
Click here button to diagnosis	add a nei												

6.24.2 Adding a New Diagnosis Stage

DAWN	Q •	
Diagnosis Stage 🗙 Diagnosis Name Order In Use	- AORTIC VALVE DISEASE A diagosis stage name can be added here. This field is mandatory.	A diagnosis must be chosen for the stage from the drop down list be specified for the diagnosis stage. This determines what order each diagosis stage will appear in a list.
✓ OK ★ Cancel Click here on the UK button save this record and return to list of diagnosis stages.		

6.25 Adding/Editing Languages

If you need to add a language that does not exist in the standard list, new languages can be added here.

DAW	∛ 🕈	Q Patient	🗮 Lists	Calls	Repor	rts 🗘	4S -	Management -	🕄 Help 🗸		Anticoagulation Tab	oles⊧
								Normal Tab	es 🕨		Allergy	
Version 8	.0.0 (1357	7)						Lookup tabl	es		Anticoagulant brand	d
								Clinic View	settings 🔹 🕨		Blood Group	
Welcom	15				Vorklist			Message M	anagement)		Cessation Reason	
veicom	40		•		VOINISt			Printing	Þ		Diagnosis	Þ
🕄 You a	re currently lo	gged on as 'Daw	/n 4S'		Patients			Reports	Þ		Disease area	
	profile 'Syste	00				Induction	Mainte	Audit & sec	urity 🕨 🕨		Drug	Þ
🖶 Loca	ion for	-No locations	6		No INR	0	0	Dawn Interf	ace 🕨		Ethnic Origin	
printing		available-			Today			System	Þ		Event	
					In constants	0		Coded Com	ments		HC Professional Typ	pe
					Incomplete Visits	U	1		ntering		Intervention Timeslo	ot
Conditio	ns of Use		0					Click her add/edit	the	_	Language	
By logging o	to this system	vou have been dee	med to have		Missed	1	58	6 N	eeds		LMWH drug	

6.25.1 List of Languages

	A list of existing editable language entries appears he	ere.				
Name			odeName		OrderNr	In Use
English			ENG		0	X
Spanish			SPA		0	X
AFRIKAANS			AFR		1	X
ALBANIAN			ALB		2	X
AMHARIC			AMH		3	X
ARABIC			ARA		4	X
AYMARA			AYM		5	×
BENGALI			BEN		6	X
BULGARIAN			BUL		7	X
delete a language, ck on the Bin icon	O New ± Save	🖨 Print				1-20 / 71

6.25.2 Adding a New Language

DAWN	@ •	
Language 🗙 Name CodeName OrderNr In Use	You must add a name and code name for the new language here. These fields must be unique. 0 The in use box must be checked in order to use	The order number specifies in what order the language appears in the available list
Click here on the OK button to save your new language and move back to the list of languages	this language	

6.26 Adding/Editing Message Templates

Letters and forms can be configured within the DAWN system. These need to be tested thoroughly if edited or added. The support team at DAWN can configure message templates for you if these are needed. Please test any new/amended message templates carefully before using with real patient data.

DA	2001 *	Q Patient	Lists	🔁 Calls	Reports	\$ 4S ₹	Management 🗸	🕄 Help 🚽	@ 1
Ver	rsion 8.0.0 (1357)						Normal Tabl Lookup tabl	es 🕨	Click here to add or edit a message template
١	Welcome 4S		1	V	Vorklist		Clinic View s Message Ma Printing	Ū.	Message Template Message Event
	• You are currently logg with user profile 'System				Patients with Ind	uction Mainte	Reports	⊧ urity	Timed Message Template

6.26.1 List of Message Templates

Name Description Template Printable Message Order Number In Image: Search Q New Referral Approved Letter New Referral Letter Image: Search Q Image: Post-Annual-Review Letter Post-Annual-Review Letter Image: Search Q Image: Search Q Image: Post-Annual-Review Letter Post-Annual-Review Letter Image: Search Q Image: Search Q Image: Post-Annual-Review Letter Review Letter Review Letter Image: Search Q Image: Phone patient Image: Post-Annual-Review Letter Image: Post-Annual-Review Letter Image: Post-Annual-Review Letter Image: Phone patient Image: Phone patient Image: Post-Annual-Review Letter Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone patient Image: Phone	essage T	ēmplate 🗙	appear	message templates in a list. You can clio n the list to view fur	ck on any										
Image: Second	earch C	2	details												>
Image: Section of the section of th		Name					Desc	ription Tem	plate			Pri	ntable Message	Order Number	In Us
Image: Post-Annual-Review Letter Post-Annual-Review Letter Image: Post-	=	New Referr	al Appr	oved Letter			New	v Referral Le	tter			X	Specify an	1	X
Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter Image: New Letter	🖹 🦙 Post-Annual-Review Letter				Pos	t-Annual-Rev	view Letter			X		2	×		
Image: Priorie patient Image: Priorie patient Image: Priorie patient	=	Review Letter				Rev	Review Letter						3	X	
Image: Second	3	Phone patie	ent									order	4	X	
Image: Second	3	DOM Query	/ for NC	OAC to GP Lette	er		DOM	VI Query for I	NOAC to GP Letter			10	X		
	=	Tranisition I	etter				GP	Transition			X		10	X	
	=	[**content**] DOM	query for NOA	C		[**co	ontent**] DO	I query for NOAC				20	X	
🖹 🐑 Poor performing patient to GP 🛛 🛛 🛛 🖸	E	Poor perfor	ming pa	atient to GP								×		30	×

6.26.2 Adding a New Message Template

DAWN	@ ·		The Printable Patient Message must be checked for the template to appear
Message Template 🗙	A message template name needs to be added. This		A mailmerge type must be chosen for the message template.
Name	name must be unique.		Mail Merge Type (Make a choice)
Notes	Message template notes		Printable Messaç 🔲 🛛 Set a number to order the list
	can optionally be added here.		Order Number 0
Description Temp		A description for the	Paper Type (None selected)
Custom Module	(None selected)	message template can be added. This description will	In Use 🗵
Template (HTML)	Using these tabs, you can preview the message berryleta and specify	appear when an audit of messages sent is viewed. nessage template text here. he letter tiseri needs to be in sull patient date into the letter, s, such as (PatientDOB). For a data tems, please contact the	The in Use box needs to be checked in order to use this message template This may affect which printer the enessage is printed to.
Click here on the OK button to save this message template and return to the list of message templates			

6.27 Adding/Editing Message Events

Message events can be created so that messages can be automatically printed, faxed, emailed or sent to a phone list when certain actions are carried out within the system. Please test messaging settings carefully before using with real patient data.

D	ANN A Patient ELists	🖀 Call	s 🕒 Reports	\$ 4S ₹	Management 👻	🕄 Help 👻	0
					Normal Tabl	es 🕨	
V	ersion 8.0.0 (1357)				Lookup tabl	es 🕨	
					Clinic View	settings 🔹 🕨	
	Welcome 4S		Worklist		Message M	anagement	Message Template
	_				Printing Click	here to add	Message Event
	You are currently logged on as 'Dawn 4S'		Patients		Rep or ed	it a age event	Timed Message Template
	with user profile 'System Manager'.			luction Mainte	Audit &	•	Timed Message

6.27.1 List of Message Events

earch C	2							
arch fo	r: Caption	Event Type		Template		_		
arch to	r: Capuon	Event Type _All-	✓	Search				
	To view further message event details, click on the Form icon Caption	Event Type		Template			In Use	Order
	Dose letter as PDF	Patient ManualMessage		Dose letter economailer	~	-	X	0
3 9	Dose letter automatic print	Treatment OnSchedule	~	Dose Letter (Simple)	~	•	×	0
	o delete a message event, lick on the Bin icon to the	ClinicView		Treatment Plan and Recent History Report	~	-	X	0
	aft of the record.	ClinicView	~	INTOUTNONOTES	~	+	×	30
1	DNA	Treatment_OnPatientDidNotAttend	~	Non Attendance Letter (cc GP #3) [DM]				40
e 😜	DNA Discharge	TreatmentPlan OnPatientIsNonAttending	~	Discharge for Non Attendance Notice (to GP) [DM]				50
e 🗧	INTOUT	Patient_ManualMessage	~	INTOUTNONOTES				60
3	Call Patient with dose	Patient_ManualMessage	~	Dose Letter (Simple)				180
3	PAS Update - inactivate	TreatmentPlan_OnStop	~	Outbound ADT^A01 or A03 Status Update Message	~	•		220
	PAS update - activate	TreatmentPlan_OnActivate	~	Outbound ADT^A01 or A03 Status Update Message	\checkmark	•		230
	new message event • vate (on deceased)	Patient OnPatientDeceased	~	Outbound ADT^A01 or A03 Status Update Message	\checkmark	-		240

6.27.2	Adding	а	New	Message	Event
--------	--------	---	-----	---------	-------

DAWN								
Message Event 🗙								
Caption		Spe	cify a name for the message event]				
Event Type	(Make a cho	pice)						~
Template	(Make a ch	pice)		Grand			Choose the type of event. This determ when a message is automatically sent can trigger on actions like scheduling a	t. This
Patient message	(Send no m	essage)		The patient messag kin, GP and so on d the message is sen	etermine who t to, and how it		patient, closing a visit, etc. The messa template section determines which me template is sent.	
Next Of Kin message	(Send no m	essage)		is sent. For example message can be se which means that ti	t as 'written',		template is sent.	~
GP message	(Send no m	essage)		be sent a written m an email, SMS or ha	essage such as			~
Consultant message	(Send no m	essage)		<u> </u>				*
HC Profs message	(Make a ch	pice)			C	Choose a printer p	aper type if the message is intended for a	~~~
Keep informed level	(None selec	cted)				specific sort of prin omitted here, the print	nter (e.g. label printer, colour printer). If rinter paper type specified on the	~
HC Professional Type	(None selec	ted)				message template printer found for th	is used. In the absence of both, the first e location is used,	~
In Use	×	{	The InUse box must be checked in o this message event	rder to use				
Paper Type	(None selec	ted)	-	<u></u>		L.		*
Check this checkbox if any pending m this type should be discarded when th event is triggered again for the same p See the examples below of when and to check this box. Order No	is message patient.	already ha message generated	ave one. For example, you may h more than once, you may have b	ave a non attenda uilt logic into the to you check this che	nce reminder m emplate to say o eckbox in this ca	nessage. If there is don't generate a ne ise, the existing m	essage would be marked as discard	Ð
✓ OK X Cancel								
Click here on the OK button to save this record and return to the list of message events You will need to save this	new record b	efore you ca	You can set up a message ever enables the user to print a bulk n for many patients on a list view.	essage Once this				
			record is saved, the clinic view(wish to use the message event chosen here.					

Understanding Delivery Options

Drop down lists allow you to select how a message is delivered to each type of recipient (patient, next of kin, GP, consultant, or HC Professionals in the patient's treatment plan team). The following table lists the options and explains what each of them means.

Written	The message is sent as a written message by whichever delivery method
	the recipient has selected as their main messaging method, i.e.: email,
	email with PDF attachment, mail, SMS, or fax.
Phone	The message is sent to the message centre so that the recipient will be
	called on the phone. (The message centre is a list of outstanding phone
	messages, which can be worked down and actioned by DAWN users
	responsible for phoning patients).
Written and Phone	The message is sent both as a written message and sent to the message
	centre.
Written or Phone	The message is sent either as a written message or sent to the message
(depending on recipient's	centre for phoning, depending on the recipient's main messaging
preference)	method.
Mail (always)	The message is printed (for mailing) regardless of the recipient's
	messaging method preference.
Mail (only)	The message is printed, but only if the recipient has "Mail" as their main
	messaging method, or as one of their additional messaging options.
	CAUTION: No message is produced for recipients who do not have
	"Mail" selected as an option for messaging, at all.
Phone (only)	The message is sent to the Message Centre, but only if the recipient has
	"Phone" as their main messaging method, or as one of their additional

[massaging ontions				
	messaging options.				
	CAUTION: No message	e is produced for recipients who do not have			
	"Phone" selected as an	n option for messaging, at all.			
Email (only)	The message is sent as	a simple email (with the content in the email's			
	body), but only if the re	ecipient has "email" as their main messaging			
	method, or as one of t	heir additional messaging options.			
	CAUTION: No message	e is produced for recipients who do not have			
		option for messaging, at all.			
	eman selected as an	option for messaging, at all.			
Email with PDF attachment	The message content is	s saved to a PDF file and sent as an attachment			
(only)	with a covering email, but only if the recipient has "email with PDF				
	attachment" as their main messaging method, or as one of their				
	additional messaging o	ptions.			
	You can specify the co	ntent for the covering email in the system setting,			
	DawnMessages_Email	<i>Template.</i> The template can be plain text or			
	include html tags (so ye	ou can include images such as health centre			
	logos). You can also u	se the following merge fields to personalise the			
	message:				
	[RecipientType]	"patient" or "HC professional"			
	[RecipientTitle]	The recipient's title, e.g. Dr, Mr, Mrs			
	[RecipientFirstName]	The recipient's first name			
	[RecipientLastname]	The recipient's last name			
	[EmailSubject]	The subject line of the email. This can be configured in the Message Template to includ wider range of merged content, e.g. "Your INF from 04/12/2020"			
	Only include HTML tag	s if your External System Connection is not			

	configured to send emails in plain text format (otherwise the tags are
	rendered as part of the text, e,g, IMPORTANT test result instead
	of IMPORTANT test result.
	CAUTION: No message is produced for recipients who do not have
	"email with PDF attachment" selected, as an option for messaging, at all.
SMS (only)	The message is sent as an SMS text message, but only if the recipient has
	"SMS" as their main messaging method, or as one of their additional
	messaging options.
	CAUTION: No message is produced for recipients who do not have
	"SMS" selected, as an option for messaging, at all.
	The message is sent by fax, but only if the recipient has "fax" as their
Fax (only)	main messaging method, or as one of their additional messaging options.
	CAUTION: No message is produced for recipients who do not have "fax"
	selected, as an option for messaging, at all.

CAUTION When using methods with "(only)" in the caption

Delivery options that include the word "(only)" are only sent to recipients whose preferences include that messaging option. For example, "Email (only)" messages are only sent to recipients who have "Email" as one of their messaging options. If a single message event is always supposed to trigger a message for a recipient (whatever their preferences), choose written, phone, or mail (always).

Delivery options with "(only)" in the title are designed to be used in tandem with other message events. For example, you might wish to create several variations of a message template, one for emails, one for SMS messages and one for printing or faxing. In this case, you could create five different message events, each with a different delivery option, e.g. "email (only)", "SMS (only)", "Fax (only") etc. Each event would trigger in response to the same action, but only the ones that match the recipient's preference would produce a message. Thus, if the recipient had "email with PDF attachment" as a preference, they would receive an email (with a PDF attachment), whereas if they had SMS as a preference, they would receive a different version of the message via SMS. If they had both "email (with PDF attachment)" and "SMS" as preferences, they would receive the message by email and by SMS.

Please be careful when using delivery options with "(only)" in the title. If you do not set up a message event for every delivery type, then not all patients will get the message. This might work well for an SMS reminder of an upcoming appointment, but not for something critical like a dose letter.

Discarding Pending Messages

Most messages are processed and delivered immediately they are generated. However, phone messages (and less commonly, emails) may stay in the queue for several hours or even days if it proves difficult to reach the recipient on the phone. Some types of message should be superseded by a later message if they have not yet been delivered by the time the same message event fires again for the same patient. For example, consider the following scenario:

You dose a patient and generate a new dosing instruction phone message. It proves difficult to reach the patient on the phone and the message sits in the queue for several days. During this time, the patient has another blood test and is dosed again, and a new dosing instruction message is generated with a different dose. Now, two dosing instruction messages are in the phone queue, but we only want the patient to get the latest one. The earlier one now contains an incorrect dosing instruction.

Checking the *Discard Pending Messages* checkbox ensures that whenever this message event fires, DAWN looks to see if there are any pending messages that were generated by the same event for the same patient. If there are, it marks them as discarded. In our example, this would mean the earlier message is automatically discarded when the new message is generated.

Important note: if this checkbox is checked, any pending message of the same type for the same patient are discarded when the event fires again, **whether or not the event actually generates a new message this time**. To understand this, let's refine our example:

Let's suppose you have two dosing instruction messages, one for priority patients (e.g. those who need an urgent dose change or who have a particular risk factor), and those for routine patients (who are essentially getting confirmation to continue you as they are). Priority dosing instructions are triggered by a *Priority Dose Instruction* message event, while routine dosing instructions are triggered by a *Routine Dose Instruction* message event. The message template for each event has built in logic that determines whether it creates a message. Both message events fire when the patient's dose is authorised, but only one actually creates a message. If the patient meets the criteria for a priority message, the *Priority Dose Instruction* event creates a priority dosing instruction message. Otherwise, the *Routine Dose Instruction* event creates a routine dose instruction message and the *Priority Dose Instruction* event produces nothing.

If our patient's yet-to-be-delivered last dose instruction was a routine dosing instruction message, it is important that it is still marked as discarded when the *Routine Dose Instruction* message event fires again, event if it is a different message event, e.g. the *Priority Dose Instruction* event, that creates the new message this time. Indeed, if the patient is stopping treatment with immediate effect, it is possible that no new dosing instruction of either type is generated, but we still want the out-of-date one to be discarded.

When should I not check the Discard Pending Messages checkbox?

Let's consider another type of message: a reminder or non-attendance chaser message. If you trigger reminder messages in bulk from a list view, it might be possible for the same patient to get multiple reminders in the same week. You might think that checking the checkbox would ensure that the first message is discarded when a second one is generated, but this only happens if the first message is still pending. If the patient had already been called successfully, they would still have a new message generated and would be called again. To avoid this, you might build logic into your message template to only generate a new message if the patient has not already had a reminder message generated this week. However, checking *Discard Pending Messages* in this scenario introduces a problem. In this case, if the first message is still pending when the message event fires again, the first message is discarded, but this only changes its status. It still exists, and because it exists, no new message is generated. As a consequence, the patient does not get called at all.

In this type of scenario, you should **NOT** check the checkbox. The original message is still valid and the logic in the template ensures that a duplicate message is not created. With the checkbox unchecked, everything works as it should. Checking the checkbox could result in the patient getting no message at all.

6.28 Adding/Editing Coded Comments

You can define short codes for frequently used comments; for example "nbb" for "no bleeding or bruising".

The *CodedCommentPrefix* system setting is used to define a prefix ("." by default) that identifies the text you type (in any notes field) as a short code.

As such you could type ".nbb" anywhere in a Patient Note, Treatment Note or Quick Note and this would automatically expand to say "no bleeding or bruising" when the note is saved.

	÷	Q Patient	🔚 Lists	🕿 Calls	Reports	CAWN		Management -	Help	
Version 8.0.0		Normal Tabl		+						
				Antico	agulation			Clinic Views Message Ma		⊧ t⊧
Welcome DAW	'N					L	W	Printing		•
You are current Manager'.	ntly log	ged on as 'Sup	port DAWN'	with user pro	file 'System		Pε	Audit & secu	1	
🖶 Location for	printin	g	Office		Click her add/edit comment	coded	No	Dawn Interfa System	ace	+
								Coded Com	ments	

6.28.1 List of coded comments

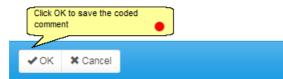
Enter topic text h

D	AVN	ŵ	Q Patient	🔚 Lists	🗠 Calls	Reports	🗘 Dawn 🗸	Management -	Help -	Q •
Code	ed Comments 🗙									
Sea	rch Q									
Sear	rch for:	ShortCo	ode					FullComm	ent	
	ShortCode				FullC	omment				
9	accmed				Medi	cation change:	***name of med)	(***started, stopped	, increased, de	creased, drop down) (
9	accunable				Antic	oagulation Clini	c has attempted t	to contact patient rep	eatedly regard	ing a critical INR. We
Ø	ade20				Patie	ent has started o	n a new medicati	on and is worried ab	out interaction	with Warfarin. Please
9	ade30				Pres	l assessment - enting complain ily history:	t			
Ð	baseline Click to a coded co	add a new omment			Base Plate HBG Albur					
ж	₩ ↓ Down	O New	± Save	Print						

ere.

6.28.2 New coded comment form

DAWN	Q •
Coded Comments 🗙	
ShortCode	nnm
FullComment	No new medications started



6.29 Adding/Editing Cessation Reason

Different cessation reasons can be set up within DAWN so that this can be chosen within the patient's treatment plan.

Please note - once a cessation reason has been added into DAWN, the cessation reason will then become a mandatory field to fill in within the patient's treatment plan.

C	DAVVN	A	Q Patient	🗮 Lists	🔁 Calls	Repo	orts 🌣	4S -	Management 🗸	i Help 🗸	A	nticoagulation Table	es 🕨
V	ersion 8.0.0	(1357)							Normal Tabl Lookup tabl Clinic a new	es ere to add	A	llergy nticoagulant brand lood Group	
	Welcome 4S			1		Worklist			Mess Printing			essation Reason	Þ
	You are curre with user profile		0	/n 4S'		Patients with	Induction	Mainte	Reports	▶ urity		lisease area Irug	Þ
	🚔 Location for printing		-No locations available-	5		No INR Today	0	C	Dawn Interf	ace		thnic Origin vent	

6.29.1 List of Cessation Reasons

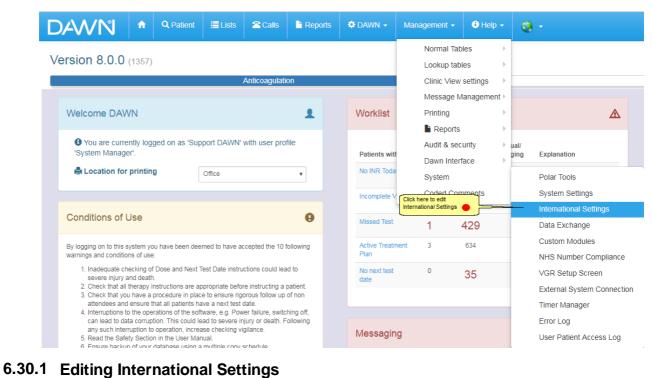
	rch Q	You can search for a cessa reason by name here	tion			
Antico	agulation Name	<i>د</i>	_		OrderNr	
9	High Risk				0	
9	Completed Co	ourse		The cessation] [1	
9	Transfer to Da	abigatran		reasons for each] [1	
9	Apixiban			displayed here	2	
9	Compliance o	n Dabigatran			2	
9	Patient Decea	ased			12	
OAC	Monitoring					
	Name				OrderNr	
9	Reflux] [1	
9	Bleeds				2	
н	₩ ↓ Down	O New ± Save	🚔 Print			

DAWN 📃 Lists 🖀 Calls Reports 🗢 DAWN 👻 Management -🗄 Help 🗸 Cessation Reason 🗙 Please select a Disease area for the table Cessation Reason Q You need to choose an Anticoagulation application area for the cessation reason here. You Gastroenterology cessation reason here. You can either click on the application area and choose the OK button at the bottom of the screen, or double-click on the screen. Haematology LMWH the entry. NOAC Rheumatology Rivaroxaban ✓ OK X Cancel Click here to choose an application area

6.29.2 Choosing Cessation Reason Application Area

6.29.3 Cessation Reason Form

DAWN	@ -		
Cessation Reason 🗙			
	b	Anticoagulati	on Vou must specify an order number for this reason. This will determine in what order the reason appears within a list.
✓ OK X Cancel			
You can click on here to save the reason)		



6.30 Adding/Editing International Settings

• •	Patient	E Lists	Calls	Reports	🗢 DAWN 👻	Management -	🖲 Help 👻	Q *		
					Time				Numbers	
D	D/MM/YYY	Y Y			Format		HH:MM 21:15	Ŧ	Decimal character Thousands character	
20/	/10/2030								Sample	12,345,678.99
			DD/MM/YYYY * 7	(DD/MM/YYYY •) (7 •	(DD/MM/YYYY •) (7 •	DD/MM/YYYY • 7 • Format Sample	DD/MM/YYYY • / •	DD/MM/YYYY • Format HHMM / • 21:15 21:15	DDAMMYYYYY • / • Sample 21:15	Time Numbers DD/MM/YYYY • Format HH:MM • Decimal character / * Sample 21.15 Thousands character

6.31 Selecting a Patient Summary Report

The DAWN system can be customised to display a "Report" button on the main patient screen.

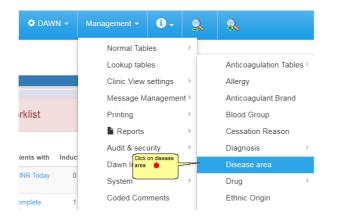
Pressing the Report button displays a summary of the patient's treatment to date, based on a preselected message template.

Diagnosis	ATRIAL FIBRILLATION	
Target Range	2.0 - 3.0	
Start Date	01/10/2016 - Indefinite	
Anticoagulant	Warfarin 1mg Strength (in mg/ Daily)	
Treatment Plan		Report
Risks		

The patient summary is displayed in its own window, with pop-up Print options, in the same way as letters and messages are displayed when you select a Direct Print message from the drop down list on the letters tab.

6.31.1 Setting the Patient Summary Report

Note: The following instructions should only be performed by a system administrator.



6.31.2 List of disease areas

Diseas	e area 🗙			
Searc	ch Q			
Searc	h for:	Name		
edit the settings	Code Name	Name	Order	In Use
T E	AC	Anticoagulation	0	×
	GE	Gastroenterology	2	
	СН	Haematology	7	
	LMWH	LMWH	10	
	DBG	NOAC	2	
	RH	Rheumatology	1	×
	RIV	Rivaroxaban	2	

6.31.3 Setting the Patient Summary Report in disease area

Clicking on this will bring you to the Disease Area screen, as seen below

127

Disease area 🗱			
Code Name	AC		
Name	Anticoagulation		
Order	0		
In Use	X		
Settings Front Page Tallies Htt	nl		
Hex Color Code			
Custom Module		AnticoagulationEvents	•
Treatment Plan Summary Message	0	Select the message you want to see from the Report button Treatment Plan and Dosing History (Last 12 months)	▼ →
Drug Dose Description Caption 🕄			
Click Save to save this option			
₩ < > ₩ ± Save IIList	🖨 Print 🛛 🗯		

6.32 Adding/Editing Reports

🌣 Brenda 👻	Management -		2	R
	Normal Tables	Þ		
	Lookup tables	►		
	Clinic View settings	;)		
	Message Managen	nent⊧		
Worklist	Printing	Þ		
	Reports			Parameter
Patients with	Click here to add/edit a report	<u> </u>	-	Report
	Dawn Interface	\rightarrow	a	
No INR Today	System	Þ	0	Awaiting result / yet t attend
Incomplete Vi	Coded Comments		1	Dose needs entering

6.32.1 List of reports

Search Q		>
Search for: Name 3		Search
Name 🕄	In Use	Order Nr 🤇
📑 🔮 % DNA by Clinic	X	0
📑 🔮 % DNA in date range	X	0
😑 🦉 % INR +/- 0.2 Target Range (InRange flag)	X	0
😑 🦉 % INRs in above and below range	X	0
📑 🦉 % INRs in range	X	0
😑 🦉 % INRs in Range and within 0.2 of Limit Report	X	0
😑 🦉 % INRs Report (Excluding First 3 Months)	X	0
📑 😜 % INRs within 0.5 and 0.75 of TargetClick a report to edit it		0
🗧 🦉 % INRs within limits on first five visits	X	0
😑 🦉 % INRs within/not in 0.5 and 0.75 of Target	X	0
Manual overrides and %TIR by clinic	X	0
😑 🦉 % Manual overrides by user	X	0
😑 🦉 % Manual overrides by user and clinic & <>Inrange	X	0
🗐 🔮 % Non Attendances Report	X	0
🗐 🚳 % of INRs between values	X	0
📑 🦉 % Stats % TIR per user	X	0
📑 🦉 % Time b/w	×	0
📑 🦉 % Time in Range Bands Report	×	0
😫 🦉 % Time in range by clinic (trt records 22+ weeks)	X	0
🗐 近 % Time in Click to add a new report 🛑 OSIS	X	0

6.32.2 New report form

eport 🗙			
Name 🕄	New TTR Report	Enter the name of the report	There are no items to display
Description 😫	Coptional Coptional	description of the report al)	
In Use	X		
	meters Envelopes So	ettings Chart	
Enter the query			
			Synchronise
	Louis to a		Synchronise
K < >)))	O New	we ●	Synchronise

6.33 Messaging using Timed Messages

With the correct configuration, your DAWN system is able to send messages such as Emails and SMS to patients and Healthcare Professionals. The service which generates timed messages is run on your DAWN server and will need to be started / restarted when you are ready to test your settings. See Timed Message Service for more details.

You may need help from your IT department or DAWN support team to configure email and SMS gateways.

There are three stages to configuring DAWN for messaging...

- 1. Add an External System Connection
- 2. Add a Timed Message Template
- 3. Add a Timed Message

Once the gateway(s) and three stages have been configured, your DAWN system will be able to send messages such as...

- An email to specified Healthcare Professionals at a specified time each day with a count of patients with out of range results requiring acknowledgment
- An email to specified Healthcare Professionals at a specified time each day with a count of patients who have not had the expected monitoring test results recorded on DAWN more than 7 days after the visit due date, either due to non-attendance or missing test results due to other reasons
- An appointment reminder to patients a specified number of days before (or after for non-

attendances) an appointment by any combination of methods including email or SMS.

NEXT

6.33.1 Timed Message Service

If you add, edit or delete a Timed Message then you will need to restart the Timed Message Service on the DAWN server so that it picks up the changes. You will need to speak to the DAWN support team or your IT department so that this service can be restarted. The **'Timed Message Processing'** service should be set as an **Automatic** startup and run continuously to allow messages to be relayed by e-mail or SMS at preset times.

To access the Timed Message Service on the DAWN server, click on the Windows Start button in the bottom left hand corner (this may look slightly different depending on which version of Windows you are using)

In the Search programs and files box type in services.msc and press Enter

Search programs of	and files 🔎	services.msc			
🚳 🙆		📀 (Č) 🚞 🖸			

Scroll down the list of Services until you find Timed Message Processing

ettipg Helgetile								
	🖸 📑 🚺 🖬 🕨 🔲 🕪							
ices (Local)	🔅 Services (Local)							
	Timed Message Processing	Name 🔶	Description	Status	Startup Type	Log On As		
		🧠 Shell Hardware Detection	Provides notifications for AutoPlay hardwa	Started	Automatic	Local System		
	Stop the service	🎑 Smart Card	Manages access to smart cards read by th		Manual	Local Service		
	Restart the service	🎑 Smart Card Removal Policy	Allows the system to be configured to lock		Manual	Local System		
		🤹 SNMP Trap	Receives trap messages generated by loc		Manual	Local Service		
	Description:	🎑 Software Protection	Enables the download, installation and enf		Automatic (D	Network S		
	Service to process Timed Messages	🤹 Special Administration Console Helper	Allows administrators to remotely access a		Manual	Local System		
		🕵 SPP Notification Service	Provides Software Licensing activation an		Manual	Local Service		
		🕵 SQL Active Directory Helper Service	Enables integration with Active Directories		Disabled	Network S		
		🖏 SQL Server (MSSQLSERVER)	Provides storage, processing and controlle	Started	Automatic	Network S		
		🖏 SQL Server Agent (MSSQLSERVER)	Executes jobs, monitors SQL Server, fires		Disabled	Network S		
		🕵 SQL Server Browser	Provides SQL Server connection informatio		Disabled	Local Service		
		Q SQL Server VSS Writer	Provides the interface to backup/restore	Started	Automatic	Local System		
		SSDP Discovery	Discovers networked devices and services		Disabled	Local Service		
		System Event Notification Service	Monitors system events and notifies subsc	Started	Automatic	Local System		
		Task Scheduler Double click th	e Timed Message Processing hedule	Started	Automatic	Local System		
		CP/IP NetBIOS Helper service to ope	n the Service properties	Started	Automatic	Local Service		
		Telephony	Provides Telephony APT (TAPT) Support fo		Manual	Network S		
		🔍 Thread Ordering Server	Provides ordered execution for a group of	Started	Manual	Local Service		
		Timed Message Processing	Service to process Timed Messages	Started	Automatic	Local System		
		TPM Base Services	Enables access to the Trusted Platform Mo		Manual	Local Service		
		🕵 UPnP Device Host	Allows UPnP devices to be hosted on this c		Disabled	Local Service		
		🕵 User Profile Service	This service is responsible for loading and	Started	Automatic	Local System		
		🤹 Virtual Disk	Provides management services for disks, v		Manual	Local System		
		🕵 Volume Shadow Copy	Manages and implements Volume Shadow		Manual	Local System		
		🔅 Web Management Service	The Web Management Service enables re		Manual	Local Service		
		Windows Audio	Manages audio for Windows-based progra		Manual	Local Service		
		🔅 Windows Audio Endpoint Builder	Manages audio devices for the Windows A		Manual	Local System		
		Windows CardSpace	Securely enables the creation, manageme		Manual	Local System		
		Windows Color System	The WcsPlugInService service hosts third		Manual	Local Service		
		Windows Driver Foundation - User-mode	Creates and manages user-mode driver pr		Manual	Local System		
	1	Windows Error Reporting Service	Allows errors to be reported when progra		Manual	Local System		

imed Message Processing Properties (Local Computer)										
General Log On Recovery Dependencies										
Service name: TimedMessages										
Display name: Timed Message Processing										
Description: Service to process Timed Messages										
Path to executable: "C:\Program Files (x86)\Polar Studio\Services\Timed Message Service\Tim										
Startup type: Automatic (Delayed Start)										
Help me configure service startup options. Click the Stop button to stop the Timed										
Service status: Started										
Start Stop Pause Resume										
You can specify the start parameters that apply when you start the service from here.										
Start parameters:										
Make a note of any Start parameters OK Cancel Anniv										
	General Log On Recovery Dependencies Service name: Timed Messages Display name: Timed Message Processing Description: Service to process Timed Messages Path to executable: " "C:\Program Files (x86)\Polar Studio\Services\Timed Message Service\Tim Startup type: Automatic (Delayed Start) Help me configure service startup options. Click the Stop button to stop the Timed Message Processing Service Start Stop You can specify the start parameters that apply when you start the service from here. Start parameters: Make a note of any Start									

6.33.3 Timed Message Processing Service - starting

Timed Message Pro	cessing Properties (Local Computer)
General Log On	Recovery Dependencies
Service name:	TimedMessages
Display name:	Timed Message Processing
Description:	Service to process Timed Messages
Path to executable "C:\Program Files	e: (x86)\Polar Studio\Services\Timed Message Service\Tim
Startup type:	Automatic (Delayed Start)
Click the Start but to start the Timed Messages Proces	ce startup options.
Service Service s	Stopped
Start	Stop Pause Resume
You can specify the from here.	he start parameters that been and there are start parameters in here if they were used previously
Start parameters:	
	OK Cancel Apply

The Timed Message Processing Service has now been restarted and will have picked up any changes that have been made previously.

Note:

If logging is enabled then the Timed Message Processing Service writes to a text file within the project file on the DAWN server.

In this example, the log file will be found in: C:\Program Files (x86)\Polar Studio\ProjectMS \TimedMessageLogs\

A new log is created every time the Timed Message Processing Service is restarted (this is signified by the 1 at the end of the Start parameters). Any logs older than one month are deleted.

6.33.4 Adding/Editing an External System Connection

External System Connections can be configured within the DAWN system. These need to be tested thoroughly if edited or added. The support team at DAWN can help configure External System Connections for you if these are needed. Please test any new/amended External System Connections carefully before using in a live context.

External System Connections are used for enabling Email and SMS from DAWN.

D	AWN	ŵ	Q Patient	🔳 Lists	🕿 Calls	Reports	🗢 DAWN 👻	Management -	😫 Help 👻	0	9 -		
V	ersion 8.0.0	(1357)		ļ	Anticoagulatio		Normal Tables Lookup tables Clinic View settings						
I	Welcome DAW	VN					Worklist	Message Management Printing			۸		
	You are currently logged on as 'Support DAWN' with user profile 'System Manager'. Location for printing Office						Patients with	Reports Audit & security Dawn Interface System		al/ ing	Explanation Polar Tools		
	Conditions of L	Jse				•	Incomplete Visits	Coded Co	mments		System Settings International Settings		
	By logging on to this s warnings and conditio			med to have a	ccepted the 10	following	Missed Test Active Treatment Plar	2	196 ₆₃₁		Data Exchange Custom Modules NHS Number Compliance		
 Inadequate checking of Dose and Next Test Date instructions could lead to severe injury and death. Check that all therapy instructions are appropriate before instructing a patient. Check that you have a procedure in place to ensure rigorous follow up of non 					dequate checking of Dose and Next Test Date instructions could lead to are injury and death. I ck that all therapy instructions are appropriate before instructing a patient. I ck that you have a procedure in place to ensure rigorous follow up of non					_	VGR Setup Screen External System Connection Timer Manager		
 attendees and ensure that all patients have a next test date. Interruptions to the operations of the software, e.g. Power failure, switching off, can lead to data corruption. This could lead to severe injury or death. Following any such interruption to operation, increase checking vigilance. Read the Safety Section in the User Manual. 							Messaging				Error Log User Patient Access Log		

6.33.4.1 List of External System Connections

DAVN A Q Patie	ent 🗮 Lists	Calls Calls Reports	🗢 DAWN 👻	Management -	🕄 Help		
External System Connection 🗱							
Search Q							
Search for: System Name			Co	onnection Type	-All-		
System Name		Con	nection Type		E	In Use	
DAWNDoctor		Em	Email			1	×
DawnTest		SM	1S via Email		~		X
A list of existing External System Connections will be displayed. You can click on the form icon next to any record in the list to view further details and edit the record						The In Use box needs to be checked in order to use this External System Connection	
Click here on the New button to add a new External System Connection							
H H Down New ± Save	🖨 Print						1-2

6.33.4.2 Adding an External System Connection

The External System Connection screen is dynamic. Depending on the Connection Type that is chosen, certain fields will be visible or hidden.

DEVVIN	An External System Connection name	
External System Connection 🗙	needs to be added. This must be unique	
System Name	A connection type needs to b	
Connection Type	(Make a choice) drop down menu. Depending Type that is chosen, certain f hidden	ields will be visible or
Description		
Username	Username and password of External System (not always required)	
Password		
From Address	The email address to send messages from	
URL	Used if SMS by Email is the Connection Typ	
Use a Fixed Email Address? 🕄	If your email to SMS service uses a fixed e address, check the Use a Fixed EmailAddr	email ress
Fixed email address	checkbox and enter the address in the Fixe address field.	ed email
SMS Email Domain	If Use Fixed Email Address is unchecked, e domain in SMS Email Domain, e.g. @email-bo-sms.com. In this case, DAVW or	
Server Name or IP	IP Address or Name of Email the enail address by concatenating the rec mobile phone no with the domain, e.g. 0777828999@email-to-sms.com.	sipient's
Port		
Send as Plain Text	For Email / SMS via Email. Check to send the email as plain text. Leave unchecked to send as HTML	
Requires TLS/SSL 😫	Check if server requires	
File Type	(None selected)	
File Name	If File is the Connection Type The following	
Request Format	file types are available: Plan Text	
	HTML (POF)	
Expiry Date		
Maximum SMS Characters		
In Use	Maximum characters allowed in SMS by	
	provider	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
✓ OK ¥ Cancel	The In Use checkbox	

6.33.4.3 Deleting an External System Connection

Great care should be taken when deleting an External System Connection. The support team at DAWN can help you with this if needed.

Open the External System Connections.

DANN A Q Patient	E Lists Calls Rep	orts 🗘 DAWN - Manager	nent 🗸 🚯 Help 👻 🌏 🗸	
xternal System Connection 🗶				
Search Q				>
earch for: System Name	Conne	-All-		Search
System Name	Connection Type	E	xpiry Date	In Use
DAWNDoctor	Email			
■ DawnTest	SMS via Email			
■ NHS	Email			
Click on the Save button t	o save		Uncheck the in Use box so that the External System Connection is not being used. Once the record is not in Use it can be deleted	
the External System Connections				
	🚔 Print			1-3/3 Q

6.33.4.4 Delete the External System Connection

Once you have marked an External System Connection as not In Use and pressed the Save button, a bin icon will appear next to the External System Connection.

DAWN 🕈	Q Patient	🗮 Lists	🕿 Calls	Reports	🕸 DAWN 👻	Management -	🕄 Help 🗸					
External System Connection 🗙	External System Connection 🗱											
Search Q												
Search for: System Name Connection Type -All-												
System Name				Co	onnection Type							
DAWNDoctor				×E	Email							
■ DawnTest				5	SMS via Email							
🗏 🛯 🖉				E	Email							
A bin icon appears next to the External System Connection that has been marked as not in Use. Click on the bin icon so that it turns red Click on the Save button to delete the External System Connection and return to the list of External System												

If you attempt to mark an External System Connection which is being used as not In Use then an error message will appear. If you have marked the wrong External System Connection as not being In Use by accident then mark the External System Connection as In Use. If you intend to delete this External System Connection then you will first need to create a new External System Connection type that you wish to replace and then delete the External System Connection.

6.33.5 Adding/Editing a Timed Message Template

Timed Message Templates can be configured within the DAWN system. These need to be tested thoroughly if edited or added. The support team at DAWN can help to configure Timed Message Templates for you if these are needed. Please test any new / amended Timed Message Templates carefully before using with real patient data.

	atient 🗮 Lists	🕿 Calls 📑 F	Reports	🗢 DAWN 🗸	Management 🗸	🕄 Help 🗸	e -
Version 8.0.0 (1357)		Normal Tab Lookup tabl					
	ļ	Anticoagulation			Clinic View	settings 🔹 🕨	
					Message M	anagement	Message Template
Welcome DAWN			L	Worklist	Click here to add / edit a Timed Message		Message Event Timed Message Template
You are currently logged on 'System Manager'.	as 'Support DAWN'		Template	rity 🕨	Timed Message		
System Manager .				Patients with	Dawn Interf	ace 🕨 🕨	ing Explanation
Location for printing	Office	~		No INR Today	System		0 Awaiting result / yet to attend
				Incomplete	Coded Com	ments	0 Dose needs enterina

6.33.5.1 List of Timed Message Templates

DAW	N 1	Q Patie	nt 🗮 Lists	🖀 Calls	Reports	🗢 DAWN 🗸	Management -	🕃 Help 🗸	۰ 🕲	
Timed Message	e Template	ĸ								
	Name				Í	A list of existing Time Templates will appear	r at the top of	R	ecipient Type	In Use
•	List of Pati	ents Dosed for	GP surgery			the screen. You can record in the list to vie		Н	CProfessional	×
	DAWN Re	port			Į	details below		P	atient	×
ame			List of Patients	Dosed for G	P surgery					
omments										
ecipient Type			HCProfessional							
emplate Field (This SQL Query he data fields tr sed in the temy elow. Only SEL ROM clauses a remplate Type remplate <style> CaptionList { background- border-right: border-top: padding: 4px</td><td>y defines o be plate LECT and are needed.) color: Darkgr: solid 2 white solid 2 white</td><td>ay;</td><td>SELECT Organisation.c Organisation.p FROM Organisation F HCProfessiona ONLOrganisati Plain Text (HTM</td><td>kiOrganisatio RIGHT JOIN al</td><td></td><td>references Brichers templates but will</td><td>be ignored in SMS i</td><td>messages)</td><td></td><td></td></tr><tr><td>.FldListAlt { font-size: 90</td><td><u>†</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>In Use</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>You can optionally cli the arrow buttons to through each existing Message Template be</td><td>look g Timed</td><td>New ± Save Click here on the N a new Timed Mess</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table></style>										

6.33.5.2 Adding a Timed Message Template

Template Field Query (This SQL Query defines the data fields to be used in the template below. Only SELECT and FROM clauses are needed.) You can add the Timed Message Template field query here. This defines the fields available for use in the template below. The query must have a SELECT and FROM clause. If the recipient type is Patient then the FROM tables must include Patient. If the recipient type is Patient then the FROM tables must include PAtient. If the recipient type is HC Professional then the FROM tables must include HC Professional Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template You can add the Timed Message Template text here. HTML can be included for messages to be sent by email but will be ignored in SMS messages. To pul patient data into the message we use data items such as (PatientDOB) - defined in the Field Query above. For a full list of available data items, please contact the DAWN support team In Use The In Use box must be checke in order to use this Timed Message Template		A Timed Message Template name	
Comments Recipient Type (Make a choice) (Make	Timed Message Template 🗙		
Comments for the Timed Message Template Field Query Recipient Type (Make a choice) Template Field Query (Make a choice) Visu can add the Timed Message Template field query here. This defines the used in the template below. The query math have a SELECT and FFROM clauses. If the recipient type is AP Point then the FFOM falses must include AC Professional FROM clauses are needed.) Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template U You can add the Timed Message Template data into the message template text here. HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template U The I Use box must be checke in order to be to be the town of the SM message Template text here. TMML can be included for email templates be once to be the must be checke in order to be town on the SM message Template be U In Use The In Use box must be checke in order to be the town on the Template be defined Message Template be defined Message Template bowe, please create one or more records on the Timed			
Recipient Type (Make a choice) must be chosen Template Field Query (This SQL Query defines Professional) the data fields to be used in the template Edited of the sease below. Only SELECT and FROM tables for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the template below. The defines the fields available for use in the defines the fields available for use in the define the field duery template text (HTML can be included for email templates but will be ignored in SMS messages) Template		<i>V</i>	
Recipient Type (Make a choice) (Patient or HC Professional) (This SQL Query defines the data fields to be used in the template below. The query must have a SELECT and FROM clauses are needed.) (Patient or HC Professional) (Patient or HC Professiona	Comments		Message Template
This SQL Query defines the data fields to be used in the template below. Only SELECT and FROM clauses are needed.) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Vou can add the Timed Message Template text here. HTML can be included for messages to be sent by email but will be ignored in SMS messages. To pul patient data into the message we use data dems such as (PatientDOB) - defined in the FROM clause. For a full ist of available data tems, please contact the DAWN support team In Use	Recipient Type	(Make a choice)	(Patient or HC
the data fields to be used in the template below. Only SELECT and FROM clauses are needed.) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template Type Plain Text (HTML can be included for email templates but will be ignored in SMS messages) Template U Vou can add the Timed Message Template text here, HTML can be included for email templates but will be ignored in SMS messages) Template U Vou can add the Timed Message Template text here, HTML can be included for email templates but will be ignored in SMS messages) Template U Vou can add the Timed Message Template text here, HTML can be included for email templates but will be ignored in SMS messages) To pull patient data into the message we use data items such as (PatientDOB) - defined in the Fidd U duery above. For a full ist of available data items, please contact the DAWN support team In Use (None selected) Maximum SMS Characters Order Number 40 Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be.			Professional)
Template You can add the Timed Message Template text here. HTML can be included for messages to be sent by email but will be ignored in SMS messages. To pull patient data into the message we use data items such as (PatientDOB) - defined in the Field Query above. For a full list of available data items, please contact the DAWN support team In Use	the data fields to be used in the template below. Only SELECT and	fields available for use in the template below. The query must have a SELECT and FROM clause. If the recipient type is Patient then the FROM tables must include Patient. If the recipient type is HC Professional then the	
You can add the Timed Message Template text here. HTML can be included for messages to be sent by email but will be ignored in SMS messages. To pull patient data into the message we use data items such as (PatientDOB) - defined in the Field Query above. For a full list of available data items, please contact the DAWN support team In Use	Template Type	Plain Text (HTML can be included for email templates but will be ignored in SMS	S messages)
messages to be sent by email but will be ignored in SMS messages. To pull patient data into the message we use data items such as {PatientDOB} - defined in the Field Query above. For a full list of available data items, please contact the DAWN support team In Use Custom Module (None selected) Maximum SMS Characters Order Number 40 Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be. If or	Template		
In Useuse this Timed Message Template(None selected)(None selected)(Maximum SMS Characters(None selected)(Maximum SMS Characters(Maximum SMS characters	To avill a stight data late if		
Custom Module (None selected) [] Maximum SMS Characters [] Order Number 40 Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be. ✓ OK X Cancel	defined in the Field Query above. F		
Maximum SMS Characters Order Number 40 Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be. ✓ OK X Cancel	defined in the Field Query above. F the DAWN support team	For a full list of available data items, please contact	
Order Number 40 Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be. ✓ OK X Cancel	defined in the Field Query above. F	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template	
Once you have created a Timed Message Template above, please create one or more records on the Timed Messages screen for this template to define when the message should be sent and who the recipients will be.	defined in the Field Query above. F	The In Use box must be checke in order to use this Timed Message Template (None selected)	
screen for this template to define when the message should be sent and who the recipients will be.	defined in the Field Query above. F the DAWN support team	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template (None selected) Maximum SMS Characters	V
	defined in the Field Query above. F the DAWN support team	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template (None selected) Maximum SMS Characters 40	V
ick here on the OK button to	In Use Custom Module Order Number Once you have created a Timed Mess	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template (None selected) Maximum SMS Characters 40 sage Template above, please create one or more records on the Timed Messages	
ick here on the OK button to	defined in the Field Query above. F the DAWN support team	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template (None selected) Maximum SMS Characters 40 sage Template above, please create one or more records on the Timed Messages	
ave this Timed Message Template	defined in the Field Query above. F the DAWN support team	For a full list of available data items, please contact The In Use box must be checke in order to use this Timed Message Template (None selected) Maximum SMS Characters 40 sage Template above, please create one or more records on the Timed Messages	V

6.33.6 Adding/Editing a Timed Message

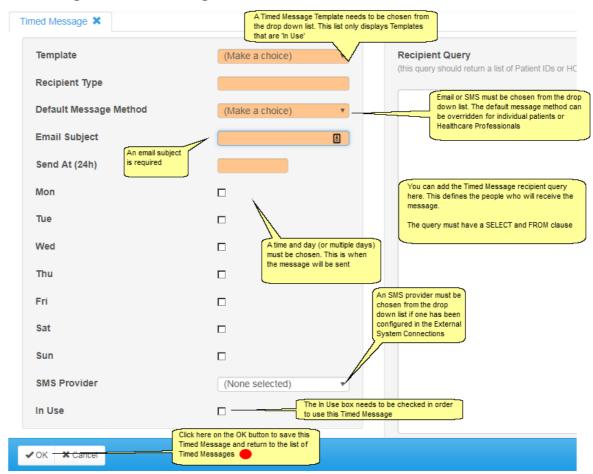
Timed Messages can be configured within the DAWN system. These need to be tested thoroughly if edited or added. The support team at DAWN can help configure Timed Messages for you if these are needed. Please test any new / amended Timed Messages carefully before using with real patient data.

You must have set up an External System Connection and Timed Message Template before setting up the Timed Message.

	Patient 📕 🔚 Lists	🕿 Calls	Reports	🌣 DAWN 👻	Management 🗸	🕄 Help 🗸	Q -
					Normal Tab	les 🕨 🕨	
Version 8.0.0 (1357)					Lookup tabl	es 🕨	
	ļ	Anticoagulation			Clinic View	settings 🔹 🕨	
					Message M	anagement	Message Template
Welcome DAWN			1	Worklist	Printing	÷	Message Event
					Reports	+	Timed Message Template
You are currently logged or	as 'Support DAWN'	with user profile			Click here to add / e Timed Message	dit a	Timed Message
'System Manager'.				Patients with	Dawn Interfa	ace	
Location for printing	Office	~	•	No INR Today	System	•	0 Awaiting result / yet to attend
				Incomplete	Coded Com		0 Dose needs entering

6.33.6.1 List of Timed Messages

DAWN	A	Q Patient	🗮 Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management 🗸	🕄 Help	- 🧕				
Timed Message 🗙	Timed Message X												
Search Q										>			
Search for: Recipient Ty Alst of existing Timed Messages will be displayed. You can click on the form icon next to any record in the list to view further details and edit the record Email Subjev Email									earch				
Template			Reci	pient Type	Default	t Message Metho	d Send At (24h)	Mon	Tue Wed	Thu F	ri Sat	Sun	In Use
📑 😭 🛛 List of Patie	ents Do	sed for GP : 🗸	→ HCF	Professional	Email	~	13:05	×	XX	X		×	×
button Messa		new Timed	i Print				The time and day(s) of the time and day(s) of the that the Timed Message is be sent are displayed he can be edited	is due to	mark used	ed Messag ed as In Us to send m ssionals a	e before essages	it can b to HC	- - 171



6.33.6.2 Adding a Timed Message

6.33.7 Altering Patient Specific Contact Details

If the patient's usual method of communication needs to be overridden within DAWN for timed messages then these steps need to be completed.

Graph History Personal Treatment plans	Questionnaires Test Results Interface Warnings	
Contact info Next of kin Clinical Owners	Account Audit	
Personal and Address	Contact (main) Click on the Personal tab, then the Contact	Contact (Additional)
• Add a new record Telephone Numbers	(Additional)	
There are no items to display		
• Add a new record Email Addresses		
There are no items to display		
Add a new record Email / SMS Alerts		
There are n Click to add a new Timed Message		
H < > H O New ± Save List ♣ Print	0	

6.33.7.1 Adding a new timed message - patient specific

Message Contact Details × Patient: TARGARYEN Dae	nerys (01/01/1987) # / 012 345 678	9 > Message Contact Details: (New record)
Template Select a Message Method Contact Type In Use	(Make a choice)	Details entered on this screen will override the default message method defined for the timed message and / or allow contact details other than the main mobile number or email address for the recipient to be used when sending the message. There is no need to enter details here if the recipient wants to receive the alert by the default method for the message to their main mobile number or email address. To see the default settings or the message contact your system administrator or view the Timed Messages screen from the System Menu.
Select DK when done		

The three Message Methods are:

Email	Message sent by email
SMS	Message sent by SMS
Opt Out	No message to be sent for this Template (e.g. patient does not want to receive
	SMS reminders about attendance

The five Contact Types are:

Main mobile no	This will send the message to the patient's main mobile number (if it has
	been entered into DAWN)
Main email	This will send the message to the patient's main email address (if it has
address	been entered into DAWN)
Next of kin mobile	This will send the message to the patient's next of kin's mobile number (if
no	it has been entered into DAWN)
Next of kin email	This will send the message to the patient's next of kin's email address (if

address	it has been entered into DAWN)
Specify	This contact type allows you to enter new different contact details. If the
	Message Method is Email then you can add a different email address to
	send the message to. If the Message Method is SMS then you can add
	a different mobile phone number to send the message to.

6.33.7.2 Saved timed messages - Patient

♦ Add a new record → Email / SMS Alerts							
	Template	Method	Туре				
9	DAWN Report	SMS	Main Mobile No				

6.33.7.3 Review the timed message settings

To review the settings for timed messages, please run a Report called 'Active patients with contact details'

6.33.8 Altering Healthcare Specific Contact Details

If the Healthcare Professional's usual method of communication needs to be overridden within DAWN for timed messages then these steps need to be completed.

14 IMPERIAL	AVENUE - Perry V U	
Organisation	14 IMPERIAL AVENUE	Email / SMS Alerts
Role	GP	Add a new record
Last name	Perry Click to add a new timed message	There are no items to display
First name	VU	
Initials	P	
In Use	X	
Address info	Teams Account info Notes Patients	
Title	Dr	
National Number	G8712863	
Local Number		
Direct Telephone	07829 487435	
Mobile	0777 351 5424	
Email		
Direct Fax	01539 324 6714	
Messaging metho	(Mail 🔹	

The additional contact for Email / SMS Alerts should now be visible on the Healthcare

Professional's record.

To review the settings for timed messages, please run a Report called 'Active HC professionals with contact details'.

BACK

6.33.8.1 Adding a new timed messsage - HCProfessional

Select a template	AL AVENUE - Perry V U	> Mes	sage Contact Details: (New record) Details entered on this screen will override the default message method defined for the timed message and / or allow contact details other than the main mobile number
Message Method (M	ake a choice Select a messaging method	• •	or email address for the recipient to be used when sending the message. There is no need to enter details here if the recipient wants to receive the alert by the default method for the message to their main mobile number or email address. To see the default settings or the message contact your system administrator or view
In Use 🖂			the Timed Messages screen from the System Menu.

The three Message Methods are:

✓ OK X Cancel

Email	Message sent by email		
SMS	MS Message sent by SMS		
Opt Out	No message to be sent for this Template (e.g. Healthcare Professional does not want to receive SMS reminders about non-attendance		

The three Contact Types are:

Main mobile no	This will send the message to the Healthcare Professional's main mobile			
	number (if it has been entered into DAWN)			
Main email	his will send the message to the Healthcare Professional's main email			
address	address (if it has been entered into DAWN)			
Specify	This contact type allows you to enter new different contact details. If the			
	lessage Method is Email then you can add a different email address to			
	send the message to. If the Message Method is SMS then you can add			
	a different mobile phone number to send the message to.			

6.33.8.2 Saved timed message - HCProfessional

G Add a new record → 1 - 1 / 1						
	Template	Method	Туре			
	List of Patients Dosed for GP surgery	Email	Main Email Address			

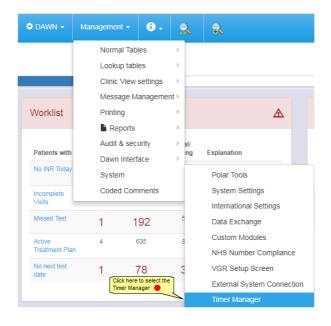
6.33.8.3 Review timed message settings - HCProfessional

To review the settings for timed messages, please run a Report called 'Active HC professionals with contact details'.

6.34 Timer Manager

The Timer Manager allows tasks to be run in the background. For example, the clinic diary can be updated in a background process over night.

The Timer Manager runs independently of DAWN and will always be running in the background and can be controlled via the Timer Manager screen. The Timer Manager can be configured to send emails when a task running in the background encounters an error.



6.34.1 Timer Manager Screen

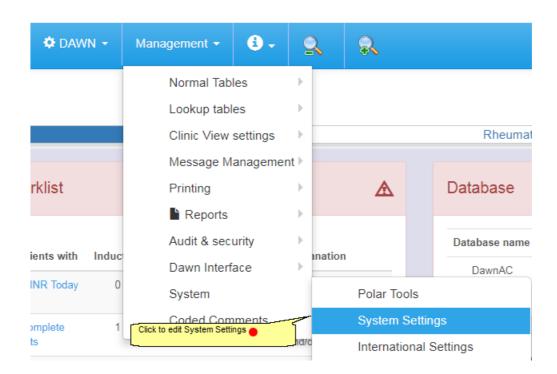
The Timer Manager screen displays the project the timer is running in, the interval in seconds in which the timer is checking for new tasks, the ID of the process and the current date and time. When the Timer Manager has a task running the task name is also displayed. The Timer Manager screen by default is set to refresh automatically every few seconds. This allows for any updated data to be displayed on the screen.

	Timer Manager 🗙									
	Auto Refresh	X								
C:\Program Files (x86)\Polar Studio\Project\Dawn_MF_Project.bpp 5 RunTimer(Context, 120, "[Hash]") 1852 19-01-2018 09:25:23 Pause Alive						Kill process				
	Last-error: 10204, 19-	01-2018 09:07:17, 12		1	1		1	1	1	
	Re-Initialise timers Kill all Start all									
	Refresh									

6.34.2 Settings - Timer Manager

The Timer Manager can be configured to send emails if there is an error and run on a single server if the DAWN system is set up to use load balanced servers.

Please Note: The computer name does not need changing for load balanced application pools. The context for 'load balanced servers' refers to DAWN running on multiple web servers where users are automatically routed to the least busy server.



6.34.2.1 Search for Timer Manager

System Settings 🗱									
Search Q							>		
Sorting: Search for: Name I TimertMahager	Enter TimerManager and search	Las	t changed				Search		
Customizations Name I Value Description I Type Min Max Required Last Changer									
TimerManager_ErrorEmail_EmailAddress		Email address to recieve error emails from timer tasks, leave empty to send no emails on error	string				28/08/2015 12:00		
TimerManager_ErrorEmail_IgnoredErrorNumbers		List of error numbers which should be ignored, i.e. no email notifications for these errors (separate values with ',' or ',' eg 10,20;30)	string				28/08/2015 12:00		
TimerManagerComputerName		The name of the computer that is to run the TimerManager, set blank to disable the Timer Manager (default use * for current computer name)	string				28/08/2015 12:00		
₩ ₩ ↓Down ±Save ≜Print C							1-3/3* Q		

6.34.2.2 Configuring the Timer Manager to Send Error Notifications

In order to configure DAWN to send emails, your DAWN system should be set up with a valid SMTP server. If your system is not already configured to send emails, enter the address of your mail server in the system setting **SendMail_CDOsys_SMTPserverName**.

Error emails sent from DAWN system need to have a sender address to identify the sender of the email to the recipient. To set the sender address, you must enter the email address into the setting **NewPasswordFromAddress**.

A recipient email will need to be set up and should be the email address of the person you wish to receive the error email notifications. To configure the recipient email enter the email address into the system setting **TimerManager_ErrorEmail_EmailAddress**.

Certain error numbers can be suppressed by populating the **TimerManager_ErrorEmail_IgnoredErrorNumbers** with a comma or semi-colon separated list of the error numbers you wish to ignore.

For the changes to be applied the timers must be reinitialised using the Timer Manager screen..

6.34.2.3 Configuring the Timer Manager Computer Name

The default value for **TimerManagerComputerName** setting is * which will automatically identify the current server name that DAWN is running on.

If DAWN is set up to use load balanced servers (e.g. using two application servers pointing at a SQL database), the Timer Manager must be set up to run on a single server. If you are running load balanced servers then you should input the computer name of one of the servers into the **TimerManagerComputerName** system setting. This will prevent the Timer Manager from running on each server, thus stopping the Timer Manager from running tasks twice.

Leaving the **TimerManagerComputerName** setting blank will stop the Timer Manager from running. However, this change will only take effect once the Timer Manager has been manually closed on the server by ending the process in Task manager.

6.34.3 Settings - Auto Maintain Diary

The Auto Maintain Diary process updates the clinic diary using the Timer Manager, therefore not affecting the end user whilst the diary is being updated.

🌣 DAWN 👻	Management -	8.	9	2	R		
	Normal Tab	les	►				
	Lookup tabl	es	Þ				
	Clinic View	settings	►				Rheumat
	Message M	anagemen	t⊧				
rklist	Printing		Þ		▲		Database
	Reports		Þ				
ients with Induc	Audit & sec	urity	ŀ	anation			Database name
	Dawn Interf	ace	×	ination			DawnAC
INR Today 0	System				Polar To	ols	
omplete 1	Coded Com Click to edit System Setti		5		System \$	Settin	gs
ts			_nd/o		Internatio	onal S	Settings

6.34.3.1 Search for Auto Maintain Diary

System Settings 🗙										
Search Q										>
Sorting:		By Type/Name			Last	changed				
Search for:	Name 🚯	DiaryExtensionStartTime	Value ()							Search
Customizations Name 🕄		Value 🕄	Description 3			Туре	Min	Мах	Required	Last Changed
DiaryExtensionSta	ırtTime	0		tart. Format: an integer indi is 21, to allow 3 hours of pr	cating the hours in 24 hour occessing time for the task	Integer	0	21	X	28/08/2015 12:00
🛓 Save 🚔 Print	S									1-1/1* Q

The **DiaryExtensionStartTime** setting takes a value between 0 and 21 which refers to the hour in 24 hour format at which the auto maintain diary task will begin processing. For example, setting the setting to 17 will start executing the **Auto Maintain Diary** task at 5pm each time it needs to run. Values of 22 - 24 are not allowed to be input so that tasks do not run into the next day.

6.34.3.2 Finding when the diary was last extended

The last time the diary was updated by the Timer Manger can be checked in the DAWN system settings by finding the **Diary_AutoMaintenance_LastDate** setting and checking the value as shown in Figure 2. The format the value takes is **YYYYMMDD**.

System Settings 🗙										
Search Q										\$
Sorting:			By Type/Name			Last changed				
Search for:	Name 🕄	Lastdate		Value 8						Search
Customizations										
Name 🕄			Value 🕄		Description 3	Туре	Min	Max	Required	Last Change
Diary_AutoMainte	nance_LastDate		20180119		The date the diary was automatically maintained the the last time	for text	0	20		11/05/2012 13:30
ErrorLog_AutoMa	ntenance_LastDate		20180119		Last date the Maintenance task last ran	Text	0	20		29/12/2016 10:26

6.34.4 Stopping the Timer Manager Manually

In some circumstances the Timer Manager may need to be stopped manually in order to register an updated system setting. This can be done by going to task manager on the server that the Timer Manager is running on, clicking on the Processes tab, finding the processes **PolarStudionActionTimer.exe** and **PolarTimerManager.exe** and selecting End process or End task depending on the Operating System.

Processes Serv	vices Performance	Networking	Users				
Image Name	User Name			CPU	Memory (Description	
LMS.exe *32	SYSTEM			00	1,240 K	Local Manageability Service	
sass.exe	SYSTEM			00	6,968 K	Local Security Authority Process	
lsm.exe	SYSTEM			00	1,656 K	Local Session Manager Service	
LSSrvc.exe *32	SYSTEM			00	668 K	LightScribe Service	
mdhpSUN.exe *32	Brenda			00	19,756 K	Software update notification	
ModLEDKey.exe *32	Brenda			00	284 K	Monitor LED Key	
MsMpEng.exe	SYSTEM			00	53,332 K	Antimalware Service Executable	
mspaint.exe	Brenda			00	126,624 K	Paint	
msseces.exe	Brenda			00	4,792 K	Microsoft Security Client User Interface	
NisSrv.exe	LOCAL SERV	LOCAL SERVICE		00	6,980 K	Microsoft Network Realtime Inspection Service	e
nvvsvc.exe	SYSTEM			00	832 K	NVIDIA Driver Helper Service, Version 259.36	
nvvsvc.exe	SYSTEM			00	2,880 K	NVIDIA Driver Helper Service, Version 259.36	
OfficeClickToRun.exe	SYSTEM			00	19,480 K	Microsoft Office Click-to-Run (SxS)	
OUTLOOK.EXE *32	Brenda			00	78,204 K	Microsoft Outlook	
PolarStudioActionTimer.exe	*32 Diary			00	27,864 K	PolarStudioActionTimer.exe	
PolarTimerManager.exe *3	2 Diary			00	1,596 K	PolarTimerManager.exe	
Receiver.exe *32	Brenda			00	5,420 K	Citrix Receiver Application	
redirector.exe *32	Brenda			00	1,384 K	Citrix FTA, URL Redirector	
SCNotification.exe *32	Brenda			00	6,140 K	SCNotification	
SeaPort.EXE *32	SYSTEM			00	3,236 K	Microsoft SeaPort Search Enhancement Broke	r
SearchIndexer.exe	SYSTEM			00	31,444 K	Microsoft Windows Search Indexer	
SelfServicePlugin.exe *32	Brenda			00	5,292 K	Citrix Receiver	
services.exe	SYSTEM			00	6,916 K	Services and Controller app	
sidebar.exe	Brenda			00	14,052 K	Windows Desktop Gadgets	
Skype.exe *32	Brenda			00	75,208 K		
smss.exe	SYSTEM			00	128 K	Windows Session Manager	
SnippingTool.exe	Brenda			00	14,272 K		
splwow64.exe	Brenda			00	3,036 K	Print driver host for 32bit applications	
Show processes from all u	isers						End Process

6.35 Portal Questionnaires

If you have purchased the Patient Portal module, DAWN gives you a url which your patients can use to access a portal on the internet.

The DAWN Portal allows patients or healthcare professionals to complete questionnaires in the Cloud and post the answers back to your DAWN system.

Use of the Portal Questionnaires within Dawn require the Dawn SQL Server Database to be at version 2016 (13.0) or higher. In addition the database compatibility level needs to be at least 130.

6.35.1 Setting up Portal Users

Patients or HCProfessionals can be set up as Dawn Portal users with their email address as the user id. This is done via the Patient screen - Personal / Account tab and the HCProfessional screen - Account Info tab.

Setting up a Patient Portal Account

Setting up a HCProfessional Portal Account

6.35.1.1 Setting up a Patient Portal Account

Go to the patient Personal tab and select the Account tab.

149

Graph History	Personal Trea	tment plans	Questionnaires	Test Results				
Contact info Next o	f kin Clinical	Owners	Account Audit	t				
User	Bertie	Bertie The email address is pulled from the email address field on the						
Portal UserID	bertie@4s-dawn.c	com	contact info tab					
Portal User		o make this a portal user						
	Click to reset existin	ng portal passwo		< to set or reset a sword				
Password Expires	12/11/2023							
Failed logins	2							
Failed logins (all)	10							
Locked								
Last login date	15/09/2023 10:20	0:07						
Total logins	53							
Password Reset Request Registration Completed Ts&Cs Accepted			Date and time registration was completed Date and time terms and co completed					

Complete the form and click 'save'.

NB The patient's email address must unique. If you try and save a record for an email address which is not unique, the following message will be displayed:

A portal user must have a unique main email address. The following people also have this email: Patient - Bertie Bassett (10270)
οκ

6.35.1.2 Setting up a HCProfessional Portal Account

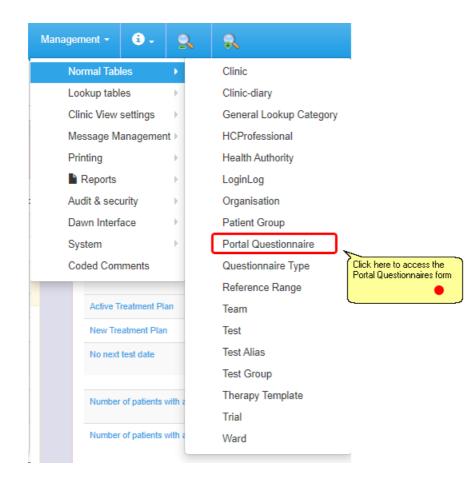
Go to the HCProfessional record and select the account info tab.

Patient X HCProfessional X	
In Use	
Address info Teams	Account info Notes Patients
User	Dawn
	Click to reset existing password for user
Password Expires	14/05/2050
Failed logins	0
Failed logins (all) 🕄	99
Locked 🕄	
Last login date 🕄	09/10/2023 10:37
Total logins 🕄	1363
User Profile	System Manager 🗸 🔶
Network Login	The email address is pulled from the email address field on the
Portal UserID	jonathan@4s-dawn.com
Portal User	Check to make this account a portal user
Portal Password Expires	28/12/2023
	Click to reset existing portal password for user

6.35.2 Creating Portal Questionnaires

If you have purchased the Patient Portal module, DAWN gives you a url which your patients can use to access a portal on the internet. The portal connects to your DAWN system to log patients in using credentials stored in your database. They can they fill out questionnaires and post their answer back into your DAWN system.

You can create your own questionnaire templates in DAWN. This section explains how.



The Portal Questionnaires Form

Adding Questions

Restricting questionnaires to specific groups of patients

6.35.2.1 The Portal Questionnaires Form

The portal questionnaires form shows existing portal questionnaires:

Portal Quest	onnaire INR questionnaire	
Code name	QINR	
In Use	 Only questionnaires marked as in use are displayed in the portal You cannot delete questionnaires that are in use 	Give questionnaires unique code names for use in message templates or list views. (This means you can change the name but keep the code so the message template still works.)
Questions Changing	Restrict Access Click this tab to restrict access to this questionnaire to specific clinics, disease areas, or patient	bers, always check all parent/child relationships are still
Add a ne	wrecord Questions	
Number	Question	Relationship
1	Since your last INR, have you experienced any bleeding or bruising?	Parent (main) question
1.1	If Yes, please give details	Child (sub) question
1.2	If yes, what level of medical assistance did you receive?	Child (sub) question
edit1.2	If No, have you experienced any other possible side effects of your therapy?	Child (sub) question
2	Since your last INR, have you had any change in medications?	Parent (main) question
2.1	If yes, please give details	Child (sub) question
3	Please indicate the dose in mg you have been taking for each day of the week:	Parent (main) question
3.01	Put "N/A" if your instruction was for <7 days and this day was not included	Child (sub) question
3.02	Put "0" if the day was included but you took no warfarin on that day.	Child (sub) question
3.1	Sun	Child (sub) question
3.2	Mon	Child (sub) question
3.3	Tue	Child (sub) question
3.4	Wed	Child (sub) question
3.5	Thu	Child (sub) question
3.6	Fri	Child (sub) question
3.7	Sat	Child (sub) question
4 Use the navig move betwee questionnaire		Parent (main) question
	₩ ONew ±Save IIList ♣Print O	1/2

The Portal Questionnaire form in Detail view

PortalQue	PortalQuestionnaire 🗙								
Search C	٩				>				
Search fo	or: Portal Questic	Code name			Search				
	Portal Questionnaire	Code name	In Use						
► 🔳	INR questionnaire	QINR	×	You cannot delete questionnaires that are in use					
	HAS-BLED proforma	HAS_BLED	×	You cannot delete questionnaires that are in use					

The Portal Questionnaires form displayed as a searchable list.

6.35.2.2 Adding Questions

PortalQuestionnaire 🗙	PortalQuestionnaireQuestion	×	
PortalQuestionnaire:	INR questionnaire > Po	talQuestionnaireQuestion: Since your last INR, have yo	ou experienced any bleeding
Number	1		
Question	Since your last INR, have you	The type of control used to answer the question, i.e. radio buttons, free text, drop	
Туре	Dropdown list		down list, checkbox
Multiple selection?	Check this b answer (only	ox if the user can select more than one available for drop down lists)	
	Before changing or deletin (the <i>Required</i> setting of question) Add a new record + C		
	Answer	(You must save a new question before you can add	
	Yes	1.1 & 1.2	options)
	No	1.3	
			Each parent question is displayed in its own section.
Relationship 🕄	Parent (main) question		Child questions are displayed within their preceding parent's section and formatted to show they extend the parent, e.g. "If you answered yes, please give details".
Answer Required	Yes	Must the respondee answer this question?	
In Use	×	<u> </u>	

Answer Required Options for Child Questions

The *Answer Required* options for *parent* questions are Yes or No. Child questions have and additional option: *If parent answer is...*

Answer Required	If parent answer is	~	• Yes
			○ No

When you choose *If parent answer is* as the *Answer Required* setting, the options for the parent question are displayed so you can choose the appropriate one. N.B. if the parent question is free text, a free text field is displayed so you can type the expected answer. Using this option with free text is not recommended as there is no guarantee that the respondee will type or spell their response the same way.

If an option for a multiple choice question is used to make a child question mandatory, the question number of the child question is displayed in the *Used in Questions* column.

Deleting Questions

When designing questionnaires, it is sometimes necessary to add and remove questions, renumber questions, or change their relationships. DAWN does not make this difficult by preventing you from deleting or renumbering child questions or parent questions that have children. However, please take care, when deleting or renumbering questions, that the remaining questions still have an appropriate relationship with their neighbours. Likewise, if you delete an option for a question that is used to make a child question mandatory, remember to edit the child question to update this setting.

6.35.2.3 Restricting questionnaires to specific groups of patients

You may wish to create questionnaires for specific groups of patients. Ideally, you only want these patients to be able to complete these questionnaires. The *Restrict Access* tab allows you to restrict who can access a questionnaire based on:

- Disease Area
- Preferred Clinic
- Patient Group

The Disease Area tab

Disease Areas Clinics Patient Groups	
Restrict to Disease Arr Anticoagulation DOAC Monitoring Gastroenterology Rheumatology	

Selecting one or more disease areas restricts the questionnaire to patients with non-stopped treatment plans in that or those disease areas. If you do not select any disease areas, the questionnaire is available to patients in all disease areas, regardless of their treatment plan status.

Only in use disease areas are available for new selections.

The Clinics Tab

Disease Areas Clin	nics Patient Groups
	Pharmacy (Arnside Infirmary) DOACs pathway (Dawn Hospital)
	☑ Park Road Clinic (Dawn Hospital) ☑ South Medical Centre (Dawn Hospital)
	□ Consort Road (Milnthorpe District General) □ River Medical Clinic (Milnthorpe District General)
	Read and the second control of the seco

Selecting one or more clinics restricts the questionnaire to patients with the selected clinic as their preferred clinic. Only *in use* clinics for selected disease areas are displayed, unless you have not selected any disease areas, in which all *in use* clinics are displayed.

If you select disease areas and clinics, the patients must have a non-stopped treatment plan for a selected disease area **and** have a selected clinic as their preferred clinic.

The Patient Groups Tab

Disease Areas Clinics Patient Groups
Restrict to these Patie Audit (Dawn Hospital) PTS Audit (Dawn Hospital) The provide the provided the provide
DNA DISCLAIMER (Dawn Hospital) Self tester (Dawn Hospital) Audit (annual) (Dawn Hospital)
For Boots (Dawn Hospital) mg education patient group (Dawn Hospital) Gott active to former theorem (Dawn Hospital)
 Call patient (Dawn Hospital) Do not call (Dawn Hospital) PESI0 (Dawn Hospital)
PESI1 (Dawn Hospital) Large font (Dawn Hospital)

Selecting one or more Patient Groups restricts the questionnaire to patients who are members of one of the selected groups.

If you select disease areas and patient groups, then patients must have a non-stopped treatment plan in one of the selected disease areas **and** be a member of one of the selected groups.

If you select clinics and patient groups, patients must have one of the selected clinics as their preferred clinic **or** be a member of one of the selected groups.

If you select disease areas, clinics and patient groups, the patients must have an non-stopped treatment plan in one of the selected disease areas **and either** have a selected clinic as their preferred clinic **or** be a member of one of the selected patient groups.

6.35.3 Viewing patient portal Questionnaires

Once a patient (or HCProfessional on behalf of a patient) has completed a questionnaire in the portal it can be viewed on the patient record in the questionnaires tab:

Graph	History	Personal	Treatment plans	Questionnaires (2)	Test Results Interfa	ace Warnings
		Portal Question		completed que: (the value for c be defined in th	umber of recently stionnaires received lassing as recent can le disease area	
→ Po	ortal Question	nnaires 1 - 7 /	7	_settings)		
→ Po		nnaires 1 - 7 / naire Name	Click on the qu	estionnaire to	Status	Answered Date
→ Po		aire Name		estionnaire to	Status Processed	Answered Date 25/09/2023 09:30
	Questionn INR question	aire Name	Click on the qu read the respo	estionnaire to		

Portal Questionnaire	Patient	Self Testing Questionnaire					
Completed By	Patient						
Status	Submitte	ed	Answered Date	26/09/2	2022		
Answers	0	Please enter your INR rea	ding		2.5		
	1	Since your last INR, have bruising?	you experienced any bleeding or		No		
	1.1	If Yes, please give details					
	1.2	If yes, what level of medic	al assistance did you receive?		No option selected		
	1.3	If No, have you experience therapy?	ed any other possible side effects	of your	No		
	2	Since your last INR, have	you had any change in medicatio	ns?	No		
	2.1	If yes, please give details					
	3	Please indicate the dose	in mg you have been taking fo	r each d	ay of the week:		
	3.01	3.01 Put "N/A" if your instruction was for <7 days and this day was not included					
	3.02	Put "0" if the day was inclu	uded but you took no warfarin on a	that day.			
	3.1	Sunday dose			5		
	3.2	Monday dose			5		
	3.3	Tuesday dose			5		
	3.4	Wednesday dose			5		
	3.5	Thursday dose			5		
	3.6	Friday dose			5		
	3.7	Saturday dose			5		
	4	I confirm these answers a	re all accurate and complete		True		

6.35.3.1 Portal Questionnaire Answers

6.35.4 Portal Questionnaire Actions

You can optionally add an action to a portal questionnaire. When a new set of answers is received from the Portal, DAWN automatically attempts to complete the action.

For example: Add Answers to Treatment Record.

Setting this action will add the portal questionnaire answers to the treatment record:

Dosing Cor	tacts Letters	Drugs Ev	vents 1 Pro	ocedures	Reviews	Reminders 1	Groups	Documents
INR:	×	Date: 11/09/20	023 🛗 🗸 🕫	🛗 Mon 1	1/09/2023, 08:00	- 21:00: Self-Testers R	eschedule	
				Trea	tment Notes 1	Portal Quest	ionnaire Note	es 1
						rtal Questionnaire "INF /09/2023 10:23:23 by F		·
				2 3 any sup 4 5	Please enter your Have you made a pplements, since y If yes, please give Have you missed	tate you took your INR INR reading - [3.2] ny changes to your die our last INR reading? - e us the details here: - any of your anticoaguli nce your last INR? - [1	t, or have you s [No] [Started taking ation medication	started taking
						us the details here: -		11
Accept INR	DNA Un-schedu	le Sc	heduled					

6.35.4.1 Adding a Portal Questionnaire Action

Nanagement - 🕄 - 🔍	R	
Normal Tables	Clinic	
Lookup tables	Clinic-diary	
Clinic View settings	General Lookup Category	
Message Management ▶	HCProfessional	
Printing •	Health Authority	
Reports	LoginLog	
Audit & security	Organisation	
Dawn Interface	Patient Group	
System >	Portal Questionnaire	_
Coded Comments	Questionnaire Type	Click here to access the Portal Questionnaires for
	Reference Range	
Active Treatment Plan	Team	L
New Treatment Plan	Test	
No next test date	Test Alias	
	Test Group	
Number of patients with a	Therapy Template	
	Trial	
Number of patients with a	Ward	

6.35.4.1.1 Select the Portal Questionnaire to Add an Action

From the list of portal questionnaires, select the one you want to add an action to.

4 Do you drink alcohol?
14 Do you drink alcohol?
15 Are there other points you would like to bring to the attention of your antigoaculation service provider?

Select the Action for the drop down list

	ion 🗶
	ire: INR questionnaire > PortalQuestionnaireAction: (New record)
Action	(Make a choice)

Click OK to save.

6.35.4.2 Failed Portal Questionnaire Actions

If the action fails for a predictable and potentially transient reason, the action is re-queued and is retried after a set *retry interval*.

Action Result	1 - 1 / 1				
Portal Action		Initial Attempt Time	Latest Attempt Time	Attempt Count	Status
Add Answers to	Treatment Record	25/09/2023 10:02:41	25/09/2023 10:02:41	1	Awaiting Retry
HideProcessingLog	Treatment record c	ould not be found. If the r	ccessing to treatment rec rext scheduled test is over dule it. If no next test exist	r 3 days in the futur	e but you are

DAWN keeps retrying the action for a specified *retry period*, after which, if it still has failed to complete, it is marked as errored.

PortalQuestionnaire X Patient X PortalQuestionnaireAnswers X Action Result 1 - 1 / 1 Portal Action Initial Attempt Time Latest Attempt Time Attempt Count Status Add Answers to Treatment Record 23/09/2023 10:04:04 25/09/2023 10:04:49 3 Errored HideProcessingLog Processing Log expecting an INR today, then please reschedule it. If no next test exists, please schedule one and try again. 25/09/2023 10:04:49 Portal Action: Error proccessing to treatment record - Retry - A current active Treatment record could not be found. If the next scheduled test is over 3 days in the future but you are expecting an INR today, then please reschedule it. If no next test exists, please schedule one and try again 25/09/2023 10:04:49 Portal Action: Retry period expired - action result marked as errored 25/09/2023 10:04:49 Portal Answers: State Transition, MarkAsErrored completed successfully

The *retry interval* and *retry period* are pre-set appropriately for each type of action. These can be viewed (but not edited) from the system menu Lookup Tables under Portal Action:

Action Name	Retry Interval (Minutes)	Retry Period (Hours)
Add Answers to Treatment Record	1	48

For example, the *Add Answers to Treatment Record* action updates a current open treatment record with a summary of the patient's answers. If no matching treatment record can be found, the action is retried every minute for the next 48 hours, during which time, if a new INR result is received or the patient's next test is rescheduled for today, the record is then matched and the answers added.

You can manually retry an Errored or Processed action.

You can, at any stage of the process, mark the completed questionnaire as *Reviewed* to show that you have read the answers. Marking answers as reviewed removes the record from list views of newly completed questionnaires and cancels any further attempts to retry failed actions.

6.36 Creating Dashboard Panels from List views

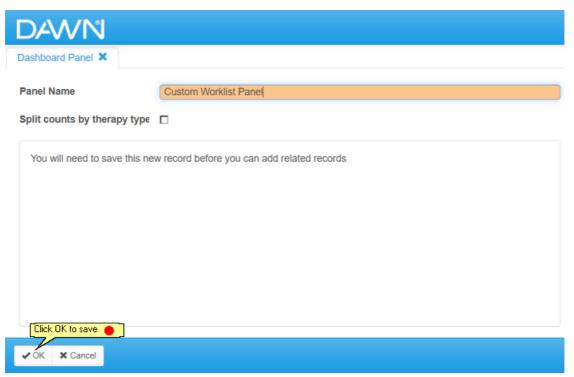
The first step is to create a dashboard panel.

🌣 4S 🗸	Management 🗸	i .	2	R	R	
	Normal Tabl	es	Þ			Click here
	Lookup tabl	es	ŀ			Dashboard Panel
_	Clinic View	settings			List View Se	ttings
stom Work	Message M	anagemer	nt⊧		Clinic View F	Filter
	Printing		Þ		Dashboard F	Panel
it	Reports		Þ		Dashboard F	Panel Group
INR Today	Audit & sect	urity	Þ	0		name
INK IOUAy	Dawn Interfa	ace	►	0		Dawr
omplete Visits	System		Þ	0		
sed Test	Coded Com	ments		0		

6.36.1 Add a dashboard panel

Dashboard F	Panel 🗙		
Search Q			
Search for:	Panel Name		
F	Panel Name		
📑 😜 (Worklist Panel Builder		
🔳 😭 🤇	Demo with support		
= 😜 🤇	Custom Worklist Panel		
	Search Q Search for: Panel Name Panel Name Vorklist Panel Builder Demo with support Custom Worklist Panel Click New		
₩ ₩	t Up ↓ Down O New ± Save ♣ Print 🗘		

6.36.2 New Dashboard Panel



6.36.3 New Dashboard Panel Group

Dashboard Panel 🗱	
Panel Name	Custom Worklist Panel
Split <u>counts by therapy type?</u>	
Add a new record Dashboard Panel Group	
There are no items to display	

Applicable for Anticoagulant Application Areas only: The 'Split counts by therapy type?' determines whether the dashboard counts are split by the AC Therapy (Induction, Maintenance, Manual/Bridging). Induction is only included if there is at least one non-stopped Treatment plan in the DAWN system, but this behavior can be overridden when calling the function in the Disease Area.

If you want to split the counts by therapy type then the following field must be present on the list view: ACTherapy Table Name: TreatmentPlan

Alternatively, you can create a new Dashboard Panel Group from:

Management 🗸 🕄 🗸	Q	R
Normal Tables	•	
Lookup tables	•	
Clinic View settings		List View Settings
Message Manageme	ent≻	Clinic View Filter
Printing	•	Dashboard Panel
Reports	•	Dashboard Panel Group
Audit & security	>	
Dawn Interface	•	
System	•	
Coded Comments	_	

6.36.4 Dashboard Panel Group

Dashboard Panel Group 🗙									
Caption	No INR Today	Enter the name of the Dashboard panel group							
ListView	Work List	This is the list view you want to use v at the second seco							
Listview Filter	Scheduled Tests	You must select a list view before selecting a filter. Changing the list view will clear the list view filter selection.							
Dashboard Panel	Custom Worklist Panel	The Panel you want this to be a part of v results of the Panel you want the top of the top of top							
Start Date Query	Date()	A date expression, e.g. Date(), Date() + 1, Date() + 7, or DateSeria(2022, 02, 15)							
End Date Query	Date()	If the date query entered for start or end date is							
Alert when Maintenance is over	0	The threshold above which the panel turns red for maintenance patients. If the Dashboard panel is not split by AC Therapy this caption says 'Alert when over'							
Alert when Manual/Bridging is over	0 <u> </u>	C Therapy only							
Never Alert	Select this option if you count to never display i Dashboard Count Information:	n red							
	 The date query will be: Toda Separate counts will be disp any active Induction patients 	layed for Maintenance and Manual/Bridging. A count for Induction will also be displayed if there are							
		or Induction patients will be displayed in red if the count is greater than 0 (This cannot be changed)							
		or Maintenance patients will be displayed in red if the count is greater than 0 (1 or above) or Manual/Bridging patients will be displayed in red if the count is greater than 0 (1 or above)							
Order Number	10 The grou Pare then	of white an order of the Dashoad Panel count in the b. If this is blank, it is treated as 0. If two If Group terms have the same order number they are ordered alphabetically based on aption							
K K K K K K K K K K K K K K K K K K K	🛓 Save 🛛 🗐 List 🚔 Print 📿	1/15 Q							

6.36.5 Displaying the Dashboard Panel on the Home Page

Add the Name of the panel to the Disease area 'Front Page Tallies HTML':

eg. <%CreateDashboardPanelFromListViews(Context, "Custom Worklist Panel", False)%>

This will create a panel on the front screen similar to the following:

Custom Worklist Panel

ist	Induction	Maintenance	Manual/Bridging
No INR Today	0	0	0
Incomplete Visits	0	0	0
Missed Test	0	77	0
Active Treatment Plan	0	83	0
New Treatment Plan	0	0	0
No next test date	1	6	0

Example Front Page Tallies HTML

The below is an example of using the CreateDashboardPanelFromListView function with the other standard front page Dashboard Panels:

⋒

```
<div>
```

```
<div class="row">
    <div class="col-lg-6">
       <!--Worklist panel-->
       <%CreateDashboardPanelFromListViews(Context, "Custom Worklist Panel", False)%>
       <!--licenses dashboard-->
       <%MakeLicensesPanel(context)%>
    </div><!--col-lg-6-->
    <div class="col-lg-6">
       <!--DATABASE Dashboard-->
       <%MakeDatabasePanel(Context)%>
       <!--messaging panel-->
       <%MakeMessagingDashboardPanel(Context)%>
       <!--Inbound Interface-->
       <%MakeInboundInterfacePanel(context)%>
    </div><!--col-lg-6-->
  </div>
</div>
```

Deler Dete Evelopmen ¥	Deckhoord Denel	
Polar DataExchange 🗙	Dashboard Panel 🗙	
Panel Name		Custom Worklist Panel
Split counts by therapy typ	pe?	
Create DataExchange	ck on Create ataExchange and select e location you want to ve it to	
O Add a new record →	Dashboard Panel Group	
	Caption	
9	No INR Tod	lay
-		N 19 - 14

6.36.6 Creating the Dataexchange of the Dashbpoard Panel

6.36.7 Importing Dataexchange of the Dashbpoard Panel

To import the data into a DAWN system, go to DataExchange and select the DataExchange file.



Ensure you use the 'Import' tab and not 'Customised Import' unless you are fully competent with what you are doing, as this import will also update the WARNING list views and filters referenced in the panel.

Polar Data	Exchange 🕽	•
Export	Import	Customized import
• FSTP	anel	
0	Custom Wor	klist Panel
 ListVie 	ewFSTPanel	Group
0	No INR Toda	ау
0	Incomplete \	/isits
0	Missed Test	
0	Active Treat	Select the Perform import/updates
0	New Treatm	
0	No Next Tes	
Perform impo	ort/updates	update existing ones.

7 Editing System Settings

Editing System Settings incorrectly could cause the system to stop working in a safe manner. Please consult 4S before making any changes to these settings

System settings are global settings that help tailor the behaviour of different aspects of the application. This section does not discuss what all the different system settings do as that would take them out of context. Instead they are discussed individually in the context of the chapters to which they relate.

🌣 DAWN 👻	Management -	i .	9	2	R		
	Normal Tabl	es	⊩				
	Lookup tabl	es	ŀ				
	Clinic View	settings	ŀ				Rheumat
	Message M	anagemen	t⊧				
rklist	Printing		ŀ		⋒		Database
	Reports		ŀ				
	Audit & secu	urity	ŀ				Database name
ients with Induc	Dawn Interfa	ace	ŀ	anation			DawnAC
INR Today 0	System				Polar Too	ols	
omplete 1	Coded Com Click to edit System Setti	ments	5		System S	Setting	js
ts			nd/o		Internatio	onal S	ettings

However, this section describes how to amend a system setting.

For a full list of System Settings, please refer to the section 'System Settings'

7.1 List of system settings

earch Q			
orting: earch for: Name 0	By Type/Name	Value 🕥	
istomizations	Name Value Value Description S Value Value Description osingInstructions_ShowTotalMgInDecimals 0 Should the Total Mg line of a dosing instruction always be displayed in decimals regardless of whether the tablet lines are shown in fractions. 0=No; 1=Yes osingInstructionsInDecimals 0 Outst the AC dosing-instructions be displayed using fractions (0) or decimals (1).		
AC_DisplayDosingInstructions_ShowTotalMgInDecimals	0		
		0=No; 1=Yes	
AC_DisplayDosingInstructionsInDecimals	0	Must the AC dosing-instructions be displayed using fractions (0) or	
AC_DisplayDosingInstructionsInDecimals AC_DisplayTextStyleDosingInstructions		Must the AC dosing-instructions be displayed using fractions (0) or decimals (1). Must the AC dosing-instructions be displayed in text-style (1) instead of	

8 List Views - What are They?

List Views are interactive lists of patient records selected and ordered on predefined criteria.

Use List Views to quickly access records for

- patients attending today,
- · patients with abnormal INR results,
- reminders outstanding, ...

Up to 20 List Views can be configured in your DAWN system.

The user can apply filters such as date range or patient status to refine the list of records viewed. A default filter may be set for the top filter and the date filter on each list view and the user's selection of other filters will remain selected if the user chooses another list to view. A With / Without option is available for the top filter only to view a list of patients without a test scheduled for example.

NB - the With / Without option only applies to the top filter.

Bulk messages can be sent as letters, faxes or e-mails for patients identified on a List View.

If you edit/amend List Views within the system, remember to check all changes thoroughly. This can be done using a 'dummy' patient within the system.

Click HERE to look at how to view a List View.

8.1 Accessing List Views

From the DAWN front page choose List View.

	itient 🗮 Lists	🕿 Calls 📑	Reports	🗢 DAWN 🗸	Managemei	nt 🗸 🔹 H	elp 🗕 (8 -
ersion 8.0.0 (1357)	Click here to go into list views	the						
	ļ	Anticoagulation						
Welcome DAWN			1	Worklist				A
You are currently logged on a 'System Manager'.	as 'Support DAWN'	with user profile		Patients with	Induction	Maintenance	Manual/ Bridging	Explanation
🖶 Location for printing	Office	~		No INR Today	0	14	0	Awaiting result / yet to attend
Conditions of Use		Or click on any of the hyperlink take you to a lis	t of	Incomplete Visits	0	4	0	Dose needs entering and/or authorising
		the criteria	9	Missed Test	2	196	8	Needs rescheduling
By logging on to this system you have b warnings and conditions of use:			ing	Active Treatment Plan	2	631	9	Non-stopped treatment plans
 Inadequate checking of Dose an severe injury and death. Check that all therapy instruction Check that you have a procedur attendees and ensure that all pa 	is are appropriate befo e in place to ensure rig	re instructing a patien orous follow up of nor		No next test date	0	32	1	Needs scheduling

8.2 List Views

AVVN	n	Q Patient	≣ Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Manag		🕄 Hel		Q •				
t View 🗙	Steart files	only applies to ti	he les												
filter on		only applies to t	list	Annual Revie	w Hold	Monitor Listvie	w In r	eprocessi	ng Po	or Perf	orming Pati	ient List	Reminders new	Non atter	ndan
Filter Records	/	/	Status	No Next Test D	ate Pro	ocedures E	events	Risks	Dabigat	ran	Non-VKA	Trea	atment Notes	Postal Clinic	C
With Incomplete Visits	·	~	Filter Date						With Incom On or Befo			displaye	list views are d in these tabs - click elevant tab]	
🖬 Dates	V	The available this list view a	filters for	ords found.											
On or Before		displayed her can choose s	e. You me	Name		Test Date	Time	INR	Target	TIR	Drugs	Events	Procedures	Risk Class	
Start		once to find the subset of patient	he correct	ANDERSON, L	uke	06/12/2	017 09:	00 0.00) 2.50	68%				Low	
08/12/2017	×														
Apply filters aff	heck the list ter a system on or upgrad		In Rai Type	Name		Test Date	Time	INR	Target	TIR	Drugs	Events	Procedures	Risk Class	
Clinic		>		ADAMS, Julie		06/12/2	017	2.60	2.50	78%				Paediatric Pa	tien
		-		ADAMS, Mary		27/11/2	017	2.10	2.50	73%				Low	
Therapy		>		TARGARYEN,	Daenerys	29/11/2	017	2.90	2.50	97%	Yes			High	
HC Professional	*	>	able filters for												
Organisation		this list vi displayed		Each patient record patient details to ac come back to the lis	cess that patier				Ensure that						
Patient Group			ind the correct	If an expected patie your administrator of					are clearly I confusion if within the s	adding r					
Message		>													
Print the list by cl here	icking														

9 Adding a New Anticoagulation Patient

The most important step before adding a patient in DAWN is to check that patient does not already exist and avoid creating duplicate patient records.

D		A	Q Patient	🔚 Lists	🕿 Calls	Repo	orts	🗢 DAWN 👻	Managemer	nt 🗸 🔹 He	lp -
V	ersion 8.0.	search f	or a patient, click h	ere.	pat		dding then	se the patient search n from scratch, as th ng added.			
				,	Anticoagulatio	n					
	Welcome DAW	/N				Ŧ		Worklist			
	You are curre 'System Manage		ged on as 'Sup	port DAWN'	with user pro	file		Patients with	Induction	Maintenance	Manı Bridı
	🚔 Location for	printin	g	Office		•		No INR Today	0	14	
								Incomplete Visits	0	0	
	Conditions of U	Jse				θ		Missed Test	2	132	
	Rv loaaina on to this s	vstem vo	u have been dee	med to have a	ccepted the 10 t	following		Active Treatment Pla	2 n	630	
		therapy ii i have a ensure t	nstructions are ap	e to ensure rig	orous follow up date.	of non		No next test date	0	28	

9.1 Search for a patient

To avoid unsafe duplicate patient records, ensure you click the 'Show All' to search for patients in all application areas.

Enter the patient details to search on.

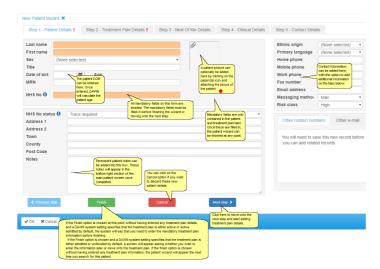
4S Dawn Clinical Software recommend you search firstly on the unique patient identifier and secondly on other patient identifiers such as name and date of birth.

Patient 🗙													
Search (ર												>
Selection		A	ctive pa	atients		Patients with a	ctive Treatment Plar	ns for selected app.ar	ea	S	show all		
Search fo	r: Last nan	ne Banks				First name	J		MRN			o avoid unsafe	٦
	NHS No	0				Town			County		У	uplications, ensure ou search all pplications areas l	
	Post Coo	le				Sex	-All-	٣	Dateoft	pirth	c	licking on 'Show a efore searching	ŕ
	Date of D	Dea				Language		٣	Status	-All-	<u> </u>		•
	Home ph	ion				Mobile phor			Work p	hone			
	Email ad	dre				Next of kin ı			Next of	kin I			
	Last name	First name	Age	MRN	NHS No (Dateofi	birth Address 1	1	Address 2	Town	County	Search Post Code	Se
	BANKS	James	92	X64922	59333445	94 24/05/1	927 14 ST HEL	LENS GARDENS		CLIFTON	YORKS	YY1 1YY	M
	BANKS	Julia	47	750000175		07/09/1	972 12 Elm Co	ourt	Dutton	Bakersfield	Lancashire	LA5 7TH	Fe
		If you d patient on New	in the lis										

1 The most important step before adding a patient in DAWN is to check that patient does not already exist.

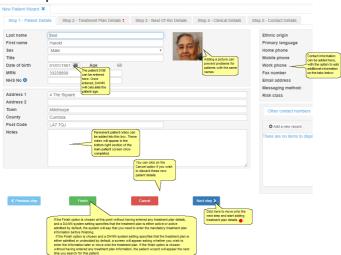
To avoid unsafe duplications in DAWN, check if a demographics interface is adding patients to DAWN, before adding any patients manually

9.2 New Patient Wizard Screen



9.2.1 Adding a patient picture

Enter topic text here.



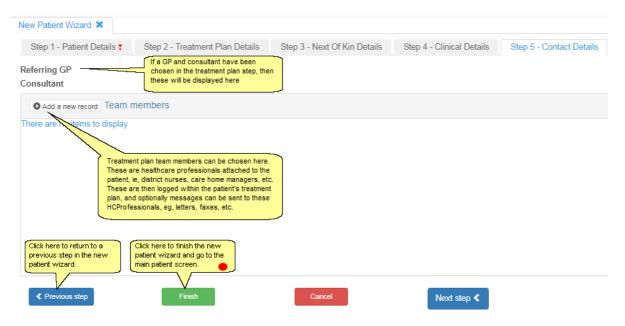
9.2.2 Wizard Screen - Next of Kin Details

ew Patient Wizard 🗙		
Step 1 - Patient Details	Step 2 - Treatment Plan Details Step 3 - Next Of Kin Details Step 4 - Clinical Detail	ls Step 5 - Contact Deta
Name Address	<u>(</u>	Next of kin details can optionally be added here.
Home phone Mobile phone Work phone		
Fax number Email address		
Messaging method:	(None selected)	•
Click here if you wish to nove to a previous step in he new patient wizard.	do not wish to add any clinical or next	k here to move onto the istep and start adding cal details

New Patient Wizard 🗙 Step 1 - Patient Deta	ails : Step 2 - Treatment Plan Details	Step 3 - Next Of Kin Details	Step 4 - Clinical Details	Step 5 - Contact Details
Clinical Details				• Add a new record Risks
Blood group High risk Weight Height	(None selected) (None	Bł Bł	VI A patient's blood grr weight and height o optionally be specif	an
There are no it Additio	Additional diagnoses nal diagnoses (besides the primary sis you added in the treatment plan step) added here			• Add a new record Allergies There are <u>items to display</u> Any patient allergies can be added here
Click here if you wish to move to a previous step in the new patient wizard.	You can click finish here if you do not wish to add any contact details Finish	Cancel	Click here to move onto the next step and start adding contact details Next step >	
± Save				

9.2.3 Wizard Screen - Clinical Details

9.2.4 Wizard Screen - Contact Details



New Patient Wizard X Step 1 - Patient Details 1 Step 2 - Treatment Plan Details 1 Step 3 - Next Of Kin Details Step 4 - Clinical Details Step 5 - Contact Details Dosing and Tablet O Disease area Primary diagno Use Do sing Regime (None selected Use Customised Table AC Therapy Induction Warfarin Record Dose As Daily Average Maintenance Half a Tablet Brand UK Generic Split Tablet Into Manual/Bridging Induction Target rang Start date Duration Tablet Strength Pills (5 mg) Ħ Pills (3 ma) Pills (1 mg) First seen date Preferred clinic Preferred Time Next test date v Total mg Dose Lin Dose In Tablets Ħ Laboratory (None se Set the status of the TreatmentPlan to Active (Requires a Diagnosis, TargetRange, Regime, StartDate and Duration type) Dosing Limits > Set the status of the Treatr ntPlan to Admitted Referral > Set the status of the Treatment Plan to Active Adr es a Diagnosis, TargetRange, Regime, StartDate and Duration type Transport > D ± Save

9.3 Wizard Screen - Entering Treatment Plan

Entering a Start Date that is in the Future

If you enter a start date that is in the future, DAWN asks you to confirm this is correct by saving the record again.

Start date Duration type	04/05/2016	Message from webpage
First seen date Preferred clinic Preferred time Next test date	Grove Road (Princ	WARNING: The given StartDate is in the future Save this record again to accept the given StartDate
Laboratory Patient Tablet Option	(None selected)	ОК

If the interface tries to add a patient and treatment plan with a start date in the future, the attempt is unsuccessful and the message is put on hold.

If you regularly add records for patients who are starting say tomorrow or next week, you can configure DAWN to only prompt you (or the interface) to confirm the start date if it is over a certain number of days in the future by changing the *TreatmentPlanStartDaysInFuture* system setting.

SystemSetting				
	Sorting: By Type/Name Last changed Search for: Name: TreatmentPlanStart Value:		SEARC	H
Customizations				
Name Value	Description	FieldType	MinValue	MaxValue
TreatmentPlanStartDaysInFuture 7	How many days in the future can the treatmentplan start date be set before displaying a warning message	Integer	0	90

DAWN does not prompt you to confirm start dates unless they are over this number of days in the future.

Patient Tablet Options

In previous versions of DAWN, you would choose a patient's tablet strength, instruction format, brand and whether to allow splitting tablets by selecting a preset combination of these options called a Dosing Regime. In version 7.9.48 onwards you can customise these options individually for each patient.

The Patient Tablet Option Default settings determine whether the New Patient Wizard defaults to *Use Dosing Regime* or *Use Customised Tablet Options*. If you have upgraded from a pre-7.9.48 version of DAWN, the initial default is *Use Dosing Regime*, but you can change this by amending your Patient Tablet Option Default settings.

To use patient specific tablet options:

1) Select the Use Customised Tablet Options radio button. An Edit Tablet Options button appears.

(None selected)	~
options?	
	-

2) Press the Edit Tablet Options button to display the Patient Tablet Options Settings form.

Patient Tablet Options Set	ttings - New record		
Anticoagulant:	Warfarin	~	Record Dose As: Daily Average 🗸
Brand:	UK Generic (Warfarin)	~	Split Tablet Into: Half a tablet 🗸
Dose In:	Tablets 🗸		
Tablet Strength:	Pills (5 mg), Pink (UK Generic (~]
Tablet Strength:	Pills (3 mg), Blue (UK Generic (~]
Tablet Strength:	Pills (1 mg), Brown (UK Generi	~]
Show Total MG Instructions Line:	X		
	View Sample Instructions		

For new patients, the settings default to whatever is specified in your Patient Tablet Option Default settings. If you have upgraded from a pre 7.9.48 version of DAWN, the initial defaults are based on your most widely used dosing regime.

3) Change the settings as appropriate for this patient:

Anticoagula	e.g warfarin, phenindione etc (please note: the list only includes vitamin
nt	K antagonists - to select DOACs or other non VKA anticoagulants you
	must use a dosing regime).

Brand If you use different brands of this anticoagulant, select the appropriate brand. If you don't have any brands set up, leave this blank.

Record Choose whether you enter the dose as a daily average or the weekly total when you add history or manually update the numeric dose.

In the following example, the numeric dose is the daily average. If it was recorded as a weekly total the Dose field would be 28 and would be followed by a small "w". The instruction would be the same:

INR: 2.5 In Range V Date: 03/05/2016									
+/-									
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat	•	
Pills (5 mg) 🥮									
Pills (3 mg) 🥏	1	1	1	1	1	1	1	•	
Pills (1 mg) 🥮	1	1	1	1	1	1	1		
Total mg	4	4	4	4	4	4	4	Y	
							c	₽	
H No dose chan	ge		Dos	e:	4.00	d	\sim		

- Split Tablet Options: half a tablet; quarter of a tablet or whole tablets. Should DAWN produce doses that can only be achieved by splitting a tablet or should it assume the patient will only use whole tablets?
- Dose In This settings determines whether the instruction shows the number of tablets to take or the number of mg to take each day. For example:

+ <i>i</i> -							-
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
mg	41/2	41/2	41/2	41/2	41/2	41/2	41/2
 Docing instruc	tion	in mo					I
Dosing instruc	uon	in ing	1				
+ <i>i</i> -							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (3 mg) 🤝	11/2	11/2	11/2	11/2	11/2	11/2	11/2
Dosing instruc	tion	in tab	lets				'
-							
+/-							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (3 mg) 🥮	11/2	11/2	11/2	11/2	11/2	11/2	11/2
Total mg	41/2	41/2	41/2	41/2	41/2	41/2	41/3

Dosing instruction in tablets with total mg line (see also Show Total mg Dose line below)

If you wish to show the number of tablets and the total mg as in the

example immediately above, choose tablets then check the checkbox for *Show Total Mg Instruction Line* (see explanation below).

TabletIf you have chosen to Dose In mg, only one Tablet Strength option isStrength 1displayed. If the patient has mixed tablets, select the smallest strength
they use. DAWN then produces dosing instructions that are achievable
with any combination of tablet strengths that includes this one.

If you have chosen to *Dose In* tablets, you can choose a single tablet strength or a combination of up to 3 strengths. When you select an option for *Tablet Strength 1, a Tablet Strength 2* drop down list is displayed. If you choose an option for *Tablet Strength 2* as well, a *Tablet Strength 3* drop down is displayed (you are limited to three strengths).

If you wish to select more than one tablet strength, choose the largest strength in the top box and the smallest strength in the bottom box (each drop down list only includes tablet strengths smaller than the one selected in the drop down list above).

If you select more than one tablet strength, DAWN produces instructions that show how to achieve the dose with the combination of tablets, for example:

+/-							
Coumadin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg)	1	1	1	1	1	1	1
Pills (2½ mg)		1		1		1	

Dosing instruction using two tablet strengths (without the Total mg line - see Show Total Mg Dose Line below)

Show Total Mg Dose Line If you have chosen to *Dose In* tablets, you can include an additional line showing the total number of mg too. This is useful if you are using more than one tablet strength or a tablet strength that is greater than 1.

+/-							
Coumadin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg)	1	1	1	1	1	1	1
Pills (2½ mg)	1						
Total mg	71⁄2	5	5	5	5	5	5

The Show Total Mg Dose Line option is disabled if you have chosen to *Dose In* mg.

9.4 New Patient Screen

Patient ×	YEN, Daenerys - Female	- 01/01/1987 - 012 345 6789 / 02 - 4	Click to view, add or edit	Click to view, add or edit events	Click to view, add or edit reminders groups	Click to view, add or edit or document	The system can also be configured to display the GP, consultant or laboratory in the header caption using the system setting Patient/Form (Caption_Field).
Risk Class	Hut		Dosing Contacts Letters Drugs	Events Procedures Reviews	Reminders Groups	Documents	L
Pref. Clinic	Dalton Square Surgery GP (S)	By default, the caption includes the patient's gender. This can be hidden			Wed 29/11/2017, 09:30 - 09:4	IS: Dalton Square Surgery GP (S) Reschedule	
Phone	01539563091 - home	using the system setting "PatientForm_Caption_DisplayGender".	INR: ★ ✓ Da	e: 29/11/2017 🛗 🗸 🕫		1	
Age:	30				Treatment Notes ()		
Diagnosis Target Range Start Date Anticoagulant	ATRIAL FIBRILLATION 2.0 - 3.0 01/10/2017 - Indefinite Sinthrome Mixed Tabs (plain text / Daily Avg)	Accept INR DNA Un-schedule Graph History Personal Treatment	Sc to fill in .	istead display a next appoin	Itment date box for you	
Treatment Plan	< 1 > of 1 active	Mew	Date INR Dose Dosing	nstructions	Time DN	IA In range Comments	
Risks			Wed 29/11/2017 0.0 0.00 d				
the tre an	dd general notes (Quick Notes at are not related to a particul astment record (adding, eddin nd deleting of Quick Notes is ontrolled by user profiles)	ar	Id history dea If you wish to add any historical INR and di information for the patient, click on this but Please note, DAVW needs at least two NW and doese to be able to automatically sugg a dose and test date next time.	on. S			

9.4.1 Adding History

Date	INR	Dose	Dosing Instructions	\$			Time	DNA	In range	Comments
Wed 29/11/2017	0.0	0.00 d								
Add INR and Dos	e Histo	у								×
Add INR and Dos	e Histo	ry								×
Add INR and Dos	e Histo	ry	INR		Dos	e				X Miss Days
	e Histo		INR		Dos	e				
			INR dose and any miss days (if needed). Once you]			Miss Days

9.4.2 The Personal Tab

		iew the accou	nt tab						
Contact info Next of kin C	linical	Owners	Account	Audit _		Click here to view the a	udit tab 🔴		
Click here to view the Contact Info tab	ere to he I tab	lick here to iew the wners tab			more	there to view or add e personal details, eg he numbers 🔴			Additional Click here to view or add additional details. eg emai address
Last	_	ARGARYEN	l I						
First		Daenerys							
	Age 30)							
	MRN								
NHS Numb	-	12 345 678						_	
NHS Number stat			sent but not	traced				•	
Addr	_	The Square	9					_	
	ress 2								
		/lilnthorpe						_	
		Cumbria						_	
Post		.A7 7QJ						_	
	JON _	Female						•	
_		Aiss						-	
Dateo		1/01/1987							
Date of I									
Ethnic		Caucasian						•	
-	J J							*	
S	Status A	ctive							

9.4.2.1 Contact Info

Contact info Next of kin Clinical	Owners	Account Audit		
Personal and Address		Contact		Additional
	Û	Click here to view or add more personal details phone numbers		Click here to view or add additional details. eg email address
Last name	TARGARYEN	l		
First name	Daenerys			
Age	30			
MRN				
NHS Number (1)	012 345 6789)		
NHS Number status 🕄	Number pres	ent but not traced	•	
Address 1	4 The Square	3		
Address 2				
Town	Milnthorpe		j	
County	Cumbria			
Post Code	LA7 7QJ			
Sex	Female		•	
Title	Miss			
Dateofbirth	01/01/1987			
Date of Death				
Ethnic origin	Caucasian		T	
Language	ICELANDIC		•	
Status	Active			

Some of the field captions can be customised via system settings, for example:

9.4.2.1.1 Contact Info Main

Graph History Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
Contact info Next of kin Clinica	al Owners	Account Audi	t		
Personal and Address		Contac	t (main)		Contact (Additional)
Home phone	01539563091				
Mobile phone	07527113321				
Work phone	01539563092				
Email address	daenerys@targa	yen.com			
Fax number					
Messaging method:	Mail				

Messaging Method

For details of how the Messaging Method is used see Preferences for messaging by Patient

If you choose a method that relies on a particular contact detail (e.g. an email requires an email address, phone requires or a phone number), you are prevented from saving the record if you have not entered the relevant contact detail. In other words you cannot select SMS if you have not entered a mobile number.

Email with PDF attachment

IMPORTANT: *email with PDF attachment* is more robust choice for messages which risk being misinterpreted if they are formatted badly. Dosing instructions are a prime example. With simple email, the content is placed in the body of the email and relies on the recipient's email client to format the content correctly. Some clients may be more reliable than others. With *email with PDF attachment*, the content is saved to a PDF file (which will display the same way on any computer) and attached to a covering email.

Can Also Receive Messages By:

When you first add a new record, the *Can Also Receive Messages By* section does not include any options except *Mail*. As you add different contact details such as email address, phone numbers, or fax numbers, check boxes appear for additional messaging options such as email. phone, fax or SMS. Checking one or more of these options means the recipient can receive messages that are configured to be sent only by that means. For example, checking the SMS box ensures the patient can receive SMS (only) messages (even if their main messaging method is something else).

See Adding a New Message Event for details on how to set up SMS (only), Email (only), Phone (only) ...etc messages.

9.4.2.1.2 Contact (Additional)

• Add a new record Telephone Numbers There are no items to display • Add a new record Email Addresses There are no items to display • Add a new record > Email Addresses • Add a new record > Email / SMS Alerts • Add a new record > Email / SMS Alerts • Add a new record > Email / SMS Alerts • Add a new record > Email / SMS Alerts • DAWN Report	Person	al and Address	Contact (main)	Contact (Additional)
• Add a new record Email Addresses There are no items to display • Add a new record + Email / SMS Alerts Template Method Type	Add a new record	elephone Numbers		
There are no items to display Add a new record Email / SMS Alerts Template Method Type	There are no items to di	splay		
There are no items to display Add a new record Email / SMS Alerts Template Method Type				
There are no items to display Add a new record Email / SMS Alerts Template Method Type				
There are no items to display Add a new record Email / SMS Alerts Template Method Type				
There are no items to display Add a new record → Email / SMS Alerts Template Method Type				
O Add a new record → Email / SMS Alerts Template Method Type	O Add a new record	mail Addresses		
Template Method Type	There are no items to di	splay		
Template Method Type				
Template Method Type				
Template Method Type				
Template Method Type				
Template Method Type				
DAWN Report SMS Main Mobile No	-			
	DAW	N Report	SMS	Main Mobile No
Health Insurance No		•		

Misc Field

The *Misc* field is a miscellaneous field you can use for whatever you want. Again, you can change the field caption via the *PatientMisc1_FieldCaption* system setting. For example:



9.4.2.1.3 Editable contact fields

PatientForm_Caption_Field	GP	•	The user defined field to display in the caption of the Patient details window (use one of AddressLine2, Laboratory, GP or Consultant). Changes to this setting will not take affect until you log out and log back in
PatientNationalNo_FieldCaption	NHS No	•	The caption for the NationalNo field in table Patient
PatientPostCode_FieldCaption	Post Code	•	The caption for the Postcode field in table Patient
PatientTown_FieldCaption	Town	*	The caption for the Town field in table Patient
PatientUnitNo_FieldCaption	MRN	*	The caption for the UnitNo field in table Patient

The above settings would alter the contact info tab as follows:

Graph History Personal Trea	atment plans	Questionnaires	Test Results	Interface Warnings		
Contact info Next of kin Clinical	Owners	Account Audit				
Personal and Address			Contact		Additional	
	Û					
Last name	TARGARYEN	٧				
First name	Daenerys					
Age	30					
MRN						
NHS Number 🕄	012 345 678	Э				
NHS Number status 🕄	Number pres	sent but not traced			v	
Address 1	4 The Square	9				
Address 2						
Town	Milnthorpe					
County	Cumbria					
Post Code	LA7 7QJ					
Sex	Female					
Title	Miss					
Dateofbirth	01/01/1987					
Date of Death						
Ethnic origin	Caucasian ICELANDIC				v	
Language	Active				Ŧ	
Status	ACUTC					
Deactivate	eceased					

9.4.2.2 Next of Kin

Use the Next Of Kin tab to record the patient's next of kin details:

Graph History Personal Treat	ment plans Questionnaires Test Results Interface Warnings	
Contact info Next of kin Clinical	Owners Account Audit	
Name Address	John Targaryen 4 The Square Milnthorpe Cumbria	•
Home phone Mobile phone Work shore	01539563091	
Work phone EmailAddress Fax number	john @targaryen.com	
Messaging method:	E-mail	•

Messaging Method

The *Next of Kin* messaging methods work the same way as the *Patient* messaging methods. See Preferences for messaging by Patient for details.

If you choose a method that relies on a particular contact detail (e.g. an email requires an email address, phone requires or a phone number), you are prevented from saving the record, if you have not entered the relevant contact detail. In other words you cannot select SMS if you have not entered a mobile number.

Email with PDF attachment

IMPORTANT: *email with PDF attachment* is more robust choice for messages which risk being misinterpreted if they are formatted badly. Dosing instructions are a prime example. With simple email, the content is placed in the body of the email and relies on the recipient's email client to format the content correctly. Some clients may be more reliable than others. With *email with PDF attachment*, the content is saved to a PDF file (which will display the same way on any computer) and attached to a covering email.

Can Also Receive Messages By:

When you first add a new record, the *Can Also Receive Messages By* section does not include any options except *Mail*. As you add different contact details such as email address, phone numbers, or fax numbers, check boxes appear for additional messaging options such as email. phone, fax or SMS. Checking one or more of these options means the recipient can receive messages that are configured to be sent only by that means. For example, checking the SMS box ensures the healthcare professional can receive SMS (only) messages (even if their main messaging method is something else).

See Adding a New Message Event for details on how to set up SMS (only), Email (only),

Phone (only) ... etc messages.

9.4.2.3 Clinical

Use the *Clinical* tab to record additional clinical details such as allergies, risks and secondary diagnoses and to record the patient's blood group and current weight and height.

Diagnoses

Graph	History Personal Treatment plans	Questionnaires Test Results Interface Warnings
Contact in	fo Next of kin Clinical Owners	Account Audit
O Add a nr	ew record	
	Diagnosis	Diagnosis date
9	Diagnosis - ATRIAL FIBRILLATION	Diagnosis date 07/02/2023
9		-

Allergies

Allergies can have a status of 'Allergy assessment NOT YET COMPLETED' or 'Allergy Assessment complete'. If a new allergy is added to a patient record or an existing allergy is removed, the allergy status will be set back to 'Allergy assessment NOT YET COMPLETED' and would need to be manually changed to 'Allergy Assessment complete' as required.

	O IMPORTANT - Allergies currer	ntly being assessed - please change the allergy status when comple	ete.
Allergy Status	Allergy assessment NOT YET C	COMPLETED	~
O Add a new record	→ Allergies		
	Allergy	Severity	
3	Nuts		
Allergy Status	Allergy assessment complete		Ŷ
Add a new record	→ Allergies		
	Allergy	Severity	
9	Eggs		
8	Nuts		

Risks

O Add a new record → Risks	S	
	Risk	
9	Out of Area	

Blood group, weight, height, BM/BSA, ward

Blood group High risk	B Positive				
High risk	L				
Weight		74	kg		
Measured at	01/02/2023	BMI	•	25.6	
Height		1.70	m		
Measured at	01/02/2023	BSA		1.9	
Ward 🚯	(None selected)				

9.4.2.4 Owners

Use the Owners tab to record which organisations have ownership of the patient record (this is only relevant if you have users belonging to different organisations).

Use the monitoring owner to record which organisation is responsible for monitoring the patient (this is only relevant if you have patients being monitored by different organisations within the system.

9.4.2.4.1 Adding additional owners

You can define up to three other owners. Users whose User Profiles are not permitted to View All Organisations can only view patient records for which their organisation is an owner. Users with a User Profile that permits View All Organisations can view all patient records regardless of owner.

Graph History	Personal Treat	ment plans	Questionnaires	Test Results	Interface Warnings
Contact info Next of	f kin Clinical	Owners	Account Auc	3 or 4 to	add an
Organisation1	Dawn Hospital				-
Organisation2	(None selected)			k .	•
Organisation3	(None selected)				T
Organisation4	(None selected)				V
Monitored by 1 / Organis			Disease Area		Indicates the monitoring organisation for each
Dawn Ho	spital		Anticoagulation		application area

9.4.2.4.2 Changing the monitoring organisation

Enter topic text here.

Graph History	Personal Treatment plans	Questionnaires Test Result	s Interface Warnings
Contact info Next o	of kin Clinical Owners	Account Audit	
Organisation1 Organisation2 Organisation3 Organisation4	Dawn Hospital (None selected) (None selected) (None selected)	▼ ▼	
Click here to change the monitoring organisation		Disease Area Anticoagulation	
Send messages to: Patient Next of kin GP Consultant Healthcare professionals	X X X		

9.4.2.5 Account

The *Account* tab was originally conceived with the idea of giving patients limited access to their own records but this has never been fully implemented. However, this tab can be used for storing a PIN number used by the interface to match questionnaire results from patients who have filled in external questionnaire or scoring forms such as *INR Capture*. Instructions on how to use this tab are supplied if you purchase one of these external modules.

9.4.2.6 Audit

Use the Audit tab to view changes to the patient record

Contact info	Next of kin	Clinical	Owners	Account Au	dit		
Change Log							
Date	Field			Changed From	Changed To	User Name	
29/11/2017 12:32	cWorkPhone				01539563092	Support DAWN	
29/11/2017 12:29	cNextOfKinNar	me			John Targaryen	Support DAWN	
29/11/2017 12:29	mNextOfKinAd	ldress			4 The Square Milnthorpe Cumbria	Support DAWN	
StatusHistory							
Date				User ID	User N	ame	
29/11/2017 11:22				Dawn	Suppor	t DAWN	

9.4.3 Setting patient risk class

A risk class can be chosen for a patient to indicate what their risk level is, e.g., high risk, low risk. This risk class appears on the top left of the main patient screen. You can set the default risk class for new patients in the system settings.

1 Test-Pat	tient, Aaron - Male - 01/02/1	943 - T000003
Risk Class	High Risk	nge the risk
Pref. Clinic	(None selected)	~
Phone	- home	~
Age:	79	

Select the new risk class	Select	the	new	risk	class
---------------------------	--------	-----	-----	------	-------

Patient X Drug	High ×			
ADAMS,	Search for:			
	(None selected)			
Risk Class	Medium			
Pref. Clinic	Pharmacist to dose			
	Low Click to select			
Phone	Paediatric Patient			
Age:	High			

9.4.4 Adding patient contacts

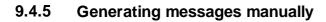
Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders	Groups	Documents
Team members									0	Add a new record
										ck to add a
									ne	w contact

9.4.4.1 Select a contact

Patient 🗙	TreatmentPlanTeamMember 🗙
Please	select a HCProfessional for the table TreatmentPlanTeamMember
You can sele	ect more than one item
	actice - GP Test
🗆 Hospi	tal - Dawn Dawn
🗆 Hospi	tal - Dawn Dawn3
🗆 Hospi	tal - Doctor DAWN
🗆 Hospi	tal - Interface Dawn
🗹 Hospi	tal - Nurse DAWN
🗆 Hospi	tal - Support Dawn2
Select a HCP and click OK	

Patient 🗙	TreatmentPlanTeamMe	ember 🗙			
HCP	rofessional		Keep Info	ormed Level 🚯	
🕨 🍯 Hosp	pital - Nurse DAWN->		None	1	~
				Select a keep informed level	
		Click to save			
ю н 1	t Up ↓ Down O New	/ 🛓 Save 🖨	Print 🗘		1-1/1

9.4.4.2 Select keep informed level



Rheumato Groups	logy Interventions Contacts Documents Select from this list to browser	Letters Drugs Events Procedures Reviews	S
- Select a D	virect Print (Local printer) - V	-Select a custom message to send-	
	Description	Created	
9	Results Letter to Patient	05/08/2020 10:03:20	
9	Results Letter to Patient	05/08/2020 10:02:07	
9	Results Letter to Patient	06/07/2020 16:37:21	

9.4.6 Adding drugs

You can record other drugs the patient is taking. If these drugs are know to interact with warfarin, you can set these interactions up. See section: Marking a drug as interacting

191

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders
Groups Do	cuments							
• Add drug	Click add drug	•						
	n Relevant Drugs							
Treatment Plan	n Relevant Drugs		Start da	te	End date	Dose Freq	uencv	Interaction
Treatment Plan Drug					End date	Dose Freq	uency	Interaction
Treatment Plan			Start da 14/04/202		End date	Dose Freq	uency	Interaction

9.4.6.1 Select the drug

atient 🗙	Drugs 🗙	Drug 🗙		
				Q
Abatace	ept (ORENCIA)			
Aceclofe	enac			
Adalimu	imab (AMGEVI	TA)		
Adalimu	imab (HUMIRA)		
Adalimu	imab (IMRALDI)		
Alendro	nic acid		Click to select the drug	
Amioder	rone			
Apremila	ast (OTEZLA)			
Azathiop	prine			
Baricitin	ib (OLUMIANT)		

Drugs 🗙	
Drug	Amioderone
Start date	12/05/2022
End date	Enter the end date, if known
Dose Description	Enter the dose (not mandatory)
Frequency	Enter the frequency (not mandatory)
Notes	You can optionally add any drug notes here.
Warn Level 🕄	Normal Change the warning level, if applicable
Duration of Warning	days Change the duration of warning, if applicable
Local Code	
Last Updated	12/05/2022 17:26:33
lick here on the OK utton to save this record ind return to the patient irug list.	
✓ OK X Cancel	

9.4.6.2 Complete the drug details (incuding interacting drugs)

9.4.6.3 List of patient drugs

Osing Contacts Letters Dru	gs ① Events Proced This indicates the number interacting drugs within the warning duration	of	Reminders Gro	ups Documents
Treatment Plan Relevant Drugs Drug	Start date End date D	ose Frequency	Interaction	
		1 2		
This drug is current a interacting	29/09/2022 and		Significant enhanced a	inticoagulation effect
Drug	Start date	End date Dose	Frequency	Interaction
Amlodopine This drug is current an not interacting	29/09/2022			

193

9.4.7 Adding events

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures		
Groups Documents								
Add Event								
There are no items	s to display							

9.4.7.1 Select the event

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders
Groups Documents								
	CALL .	J						
Add a new record	Add an review							
There are no items to	o display							

9.4.7.2 Select the severity

	Q
Major	
Minor	
Moderate (No Hospitalisation)	
Moderate (Hospitalisation)	
Major (Hospitalisation)	
Fatal	

Events 🗙		
Event	- GI Bleed	Choose the type of event from a drop down
Severity	Moderate (No Hospitalisation)	list of events.
Date Select the event date from the date picker	23/05/2022	pose the event severity from a drop
Notes	Add any pertinent free text notes about the event	wn list of severity gradings,
Warn Level 😫	Normal Choose a warn	evel from
Duration of Warning	days	
You will need to save this new re	Cord before you can how long DAWN will alter you about the event by displaying a red badge on the tab. If the warn level is set to "Always warn", the duration is ignored and the badge always displayed	
Click here on the DK button to save this record.		
✓ OK X Cancel		

9.4.7.3 Complete the event details

For instructions on customising the master lists of:

- Events, see:Adding/Editing_Events
- Severities, see: Adding/Editing Severities
- Warn Levels, see Adding/Editing Warn Levels

9.4.8 Adding procedures

The Procedures tab allows you to record details of upcoming procedures

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews
Groups Doct	uments						
Add Procedure	Click to add a p	ocedure 🔴					
There are no item	s to display						

9.4.8.1 Select the procedure

Please select a Procedure for the table Patient Procedure	
	Q
Bone density scan	
Cardioversion	
chest x-ray	
Smear test	

9.4.8.2 Complete Procedure details

Patient Procedure X		
Procedure	Cardioversion	~
Procedure Date	Enter the procedure date	
Notes		
	You can optionally add any procedure notes here.	
Pre-Warn Duration	0 days Enter the pre-warn duration	
Post-warn Duration	0 days Enter the post-warn duration	
Click here on the OK button to save this record.	Normal Change the warning level, if applicable	•
✓ OK X Cancel		

9.4.9 Adding reviews

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders
Groups Documents								
Add a pew record	Add a new record							
Add a new record								
There are no items to	ouspiay							

196

Treatment Plan	Rheumatology: 28/01/2019
Reason	Select a reviewer, if
Reviewer	(None selected)applicable
Dates and	Interval
Date Created	23/05/2022
Date reviewed	
Interval	If recurring, set a review interval
Next Review Da	
Review Notes	Mark as reviewed
ReviewHistory	

9.4.9.1 Complete the review details

9.4.10 Adding reminders

Rheumatol	ogy	Interve	entions	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders
Groups	Doci	uments								
O Add a ner	w record	i[dd a reminder							
There are no	items t	o display								

Reminder 🗙	
Due Date	23/05/2022
Reminder	Add a reminder description
Notes	
	Add a reminder notes, if applicable
Complete	
Lead Days	0 Add a reminder date lead days
User	Hospital - Dawn Dawn
Treatment Plan	Rheumatology: 28/01/2019

9.4.10.1 Complete the reminder details



9.4.11 Adding the patient to a patient group

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews	
Groups Documents								
Add a new recordAdd a patient group								
There are no items to display								

Procedure X P	atient X Patient	Group Member 🗙	Event 🗙		
Please sele	ct a Patient	Group for the	table Pat	ient Group Mer	nber
					Q
You can select more	e than one item				
□ New drug tria	l (Hospital) —	ct patient group/s			
□ XYZ group (H		<i>پ</i> ے			
[Click OK to save]					
✓ OK X Cancel					

9.4.11.1 Select patient groups

9.4.12 Adding documents

Rheumatology	Interventions	Contacts	Letters	Drugs	Events	Procedures	Reviews			
Groups Documents										
Add DocumentAdd a scanned document or saved image										
There are no item	is to display									

9.4.12.1 Select the file to attach

DAWN	
PatientDocument ×	
HCProfessional	Hospital - Dawn Dawn
Description	Enter a description
Date	23/05/2022 15:18:15
Size	
File Name	Browse for the image and the other
Visible For Patient	detais will be completed
Document	Choose File No file chosen
Click OK to save	Rheumatology: 28/01/2019
✓ OK X Cancel	

10 Managing Patients Under Different Therapies

Within DAWN there are three types of treatment plan therapy available for a patient on warfarin or other vitamin K antagonists:

- 1. Induction
- 2. Maintenance
- 3. Manual/Bridging

Click on each section to read more about how each therapy works.

Additionally, other therapies may be recorded within DAWN AC:

New Oral Anticoagulants (Dabigatran, Rivaroxaban, Apixaban etc)

10.1 Induction Dosing

Induction therapy is used to start or restart a patient on warfarin and tries to determine an appropriate maintenance dose using established protocols.

Induction is an optional module. If you have the induction module, you can start a patient on induction therapy

10.1.1 Setting induction therapy

Induction therapy is used to start or restart a patient on warfarin and tries to determine an appropriate maintenance dose using established protocols.

Induction is an optional module. If you have the induction module, you can start a patient on induction therapy by selecting the options shown below when you create (or edit) their treatment plan:

Primary Diagnosis	ATRIAL FIBRILLATION (20/12/2017)
Start date	20/12/2017 In order for the induction algorithm rules to work, the treatment
Duration	Long Term Indefinite
Preferred clinic	Dalton Square Surgery GP (S)
Preferred time	From until
Cessation Reason	(None selected)
Status active	suspend stop Admit
Therapy	There are 6 standard
ACTherapy 🕄	 Induction Maintenance Manual/Bridging induction algorithms included within DAWN, atthough additional custom induction algorithms can be added if
Target range	2.0 - 3.0
Induction algorithm	OATES ET AL - MALE
Max % Dose Change 🕄	20
Max Interval 🕄	140
Problem Patient	Recalc time in range

10.1.2 Induction dosing

Once you have set up the treatment plan for induction, dosing the patient is very much like maintenance dosing, where DAWN suggests a dose and next test date based on the INR entered:

+/- Warfarin Wed Pills (1 mg) 5 5		н	No warnings	
< 27 U				
Total mg 5		×	Treatment Notes 🥊	
		ф С		3
Dose 5.00 d√ (no previous dos Click to accept the dose	e) Next 24/12/20	017 🚞 4 d √		11

Please Note: During induction therapy most protocols suggest testing at intervals that are less than a week. If you use a formatted (HTML) dosing regime (as above), DAWN automatically customises the instruction so that it starts on the correct day and only includes the days until the next planned test.

If you deviate from the induction algorithm rules when dosing a patient (either by overriding the dose or next test), then you will have to manually dose the patient from then on.

10.1.3 Transfer to maintenance

When you authorise a patient's dose on the last day of the induction protocol, the system displays an Induction to Maintenance Transfer dialog:

Induction to Maintenance Transfer	c					
SNOW John (01/01/1990) #	/ 012 345 6789					
This patient has reached	the final day of the Induction Algorithm. Do yo	ou wish to transfer the patient	to Maintenance Therapy?			
Stability Check		۵	Maintenance Settings	5		
Last Dose	4.0	10	Patient Tablet Options:			
Last Dose But 1	4.0	0	Edit Tablet Options			
Difference	0.0	10%				
			Anticoagulant:	Warfarin	Record Dose As:	Daily Average
			Brand:	UK Generic	Split Tablet Into:	Half a Tablet
Induction Settings		Tablet Strength:	Pills (1 mg)			
No of Tests:	6		Show Total mg Dose	Yes	Dose In	Tablets
Last Dosed on Day:	27		Line			
Tablet Options:	Warfarin 1mg Tablets With Halves Daily		Target INR Range		2.0 - 3.0 *	
Induction Algorithm	TAIT ET AL INDUCTION		Max % Dose Change		20	
			Max Interval		140	
To Transfer the Patient to correct and choose 'Trans	Maintenance Dosing: please confirm the Mai sfer'.	ntenance Settings are	Inpatient			
			Transfer			Cancel

This screen gives an overview of the induction settings used, as well as a stability check between the current and last dose. At this point, check the stability figures carefully, and change the patient's dosing regime and target range (if needed), before pressing the Transfer button to move them over to maintenance therapy.

For example, in changing the dosing regime to meet the varying dose requirements of your induction protocol you might use more than one tablet strength during induction therapy. When you transfer the patient to maintenance therapy you may wish to move the patient on to a regime for the most appropriate single tablet strength.

Another consideration might be that most induction protocols are expressed in daily doses. If you normally record a total weekly dose for patients on maintenance therapy, you may have a special "daily" dosing regime that you use for induction. If so, you may wish to switch the patient on to one of your normal "weekly" regimes when you transfer them to maintenance therapy.

Please note, in this case, you should NOT change the dose to a total weekly amount as DAWN automatically converts the next dose to a weekly amount if the last dose is daily and the current regime is weekly (or vice versa).

201

If you decide that the patient should not be moved over to maintenance yet, then choose the Cancel button. If you choose to Cancel the transfer to maintenance screen above, then you can change the patient over to maintenance therapy later within their treatment plan.

IMPORTANT NOTE: If you cancel from the Transfer to Maintenance screen and keep the patient on induction therapy, then you will need to manually dose the patient until they move to maintenance, as there will be no induction algorithm rules left for DAWN AC to use.

10.1.4 Induction dose validation

- During the Induction phase, if you edit a dose so that the suggested dose and actual dose are not equal, all subsequent Induction dose calculations are prevented and a "Calc prevented: not following protocol" warning is generated. This is the case whether you modify a dose before you instruct the patient or retrospectively update the last dose to reflect what the patient actually took (see Retrospectively Adjusting the Last Dose).
- 2. During the Induction phase, if you test a patient on a day other than the date suggested in the protocol all subsequent Induction dose calculations are prevented and a "Calc prevented: not following protocol" warning is generated.
- 3. Unlike Maintenance doses, Induction doses can be calculated where:
 - The last instruction does not span 7 days
 - The last instruction contains LMWH.
- 4. Custom instructions never carry forward in Induction.

10.1.5 Standard Induction Algorithms Included in DAWN

1. Ageno Et Al - Low Dose

Sex	Dose	by Da	ay	in			
Both	5			mg per day			
	INR	Betwe	en	Last Dose	Dose	Miss Days	Interval
Day							
1	0.0	-	1.3	0.00	5.00	0	1
2	0.0	-	1.4	0.00	5.00	0	1
2	1.5	-	1.9	0.00	2.5	0	1
2	2.0	-	2.4	0.00	1.00	0	1
2	2.5	-	5.0	0.00	0.00	1	1
3	0.0	-	1.4	0.00	5.00	0	1
3	1.5	-	1.9	0.00	2.50	0	1
3	2.0	-	2.4	0.00	1.00	0	1
3	2.5	-	5.0	0.00	0.00	1	1
4	0.0	-	1.3	1.00	7.5	0	1
4	1.4	-	1.9	0.00	5.00	0	1
4	2.0	-	2.9	0.00	2.50	0	1

4	3.0	-	3.4	0.00	1.00	0	1
4	3.5	-	5.0	0.00	0.00	1	1
5	0.0	-	1.3	0.00	10.00	0	1
5	1.4	-	1.7	0.00	7.50	0	1
5	1.8	-	2.4	0.00	5.00	0	1
5	2.5	-	3.0	0.00	2.50	0	1
5	3.1	-	3.5	0.00	1.00	0	1
5	3.6	-	5.0	0.00	0.00	1	1

2. Ageno Et Al - Normal

203

Sex	Dose	e by Da	ay	in			
Both	7			mg per day			
	INR	Betwe	en	Last Dose	Dose	Miss Days	Interval
Day							
1	0.0	-	1.3	0.00	5.00	0	1
2	0.0	-	1.8	0.00	5.00	0	1
2	1.9	-	2.4	0.00	2.50	0	1
2	2.5	-	5.0	0.00	0.00	1	1
3	0.0	-	1.3	0.00	7.50	0	1
3	1.4	-	1.9	0.00	5.00	0	1
3	2.0	-	2.4	0.00	2.5	0	1
3	2.5	-	5.0	0.00	0.00	1	1
4	0.0	-	1.3	0.00	10.00	0	1
4	1.4	-	1.9	0.00	5.00	0	1
4	2.0	-	2.9	0.00	2.50	0	1
4	3.0	-	3.5	0.00	1.00	0	1
4	3.6	-	5.0	0.00	0.00	1	1
5	0.0	-	1.3	0.00	10.00	0	1
5	1.4	-	1.9	0.00	7.50	0	1
5	2.0	-	2.9	0.00	5.00	0	1
5	3.0	-	3.5	0.00	2.50	0	1
5	3.6	-	5.0	0.00	0.00	1	1
6	0.0	-	1.3	0.00	10.00	0	1
6	1.4	-	1.9	0.00	7.50	0	1
6	2.0	-	2.9	0.00	5.00	0	1
6	3.0	-	3.5	0.00	2.50	0	1
6	3.6	-	5.0	0.00	0.00	1	1

7	0.0	-	1.3	0.00	10.00	0	1
7	1.4	-	1.9	0.00	7.50	0	1
7	2.0	-	2.9	0.00	5.00	0	1
7	3.0	-	3.5	0.00	2.50	0	1
7	3.6	-	5.0	0.00	0.00	1	1

3. Fennerty Et Al

	Sex	Dose by	Day	in			
	Both	4		mg per	⁻ day		
		INR Betwe	en	Last Dose	e Dose	Miss Days	Interval
Day							
1	0.0	-	1.4	0.00	10.00	0	1
2	0.0	-	1.7	0.00	10.00	0	1
2	1.8	-	1.8	0.00	1.00	0	1
2	1.9	-	5.0	0.00	0.50	0	1
3	0.0	-	1.9	0.00	10.00	0	1
3	2.0	-	2.1	0.00	5.00	0	1
3	2.2	-	2.3	0.00	4.50	0	1
3	2.4	-	2.5	0.00	4.00	0	1
3	2.6	-	2.7	0.00	3.50	0	1
3	2.8	-	2.9	0.00	3.00	0	1
3	3.0	-	3.1	0.00	2.50	0	1
3	3.2	-	3.3	0.00	2.00	0	1
3	3.4	-	3.4	0.00	1.50	0	1
3	3.5	-	3.5	0.00	1.00	0	1
3	3.6	-	4.0	0.00	0.50	0	1
3	4.0	-	5.0	0.00	0.00	1	1
4	1.4	-	1.4	0.00	8.00	0	1
4	1.5	-	1.5	0.00	7.50	0	1
4	1.6	-	1.7	0.00	7.00	0	1
4	1.8	-	1.8	0.00	6.50	0	1
4	1.9	-	1.9	0.00	6.00	0	1
4	2.0	-	2.1	0.00	5.50	0	1
4	2.2	-	2.3	0.00	5.00	0	1
4	2.4	-	2.6	0.00	4.50	0	1
4	2.7	-	3.0	0.00	4.00	0	1
4	3.1	-	3.5	0.00	3.50	0	1
4	3.6	-	4.0	0.00	3.00	0	1

4	4.1	-	4.5	0.00	2.00	1	1
4	4.5	-	5.0	0.00	1.00	2	1

4. Oates Et Al - Female

	Sex	Dose b	y Day	in			
	Female	14		mg per o	day		
		INR Betw	een	Last Dose	Dose	Miss Days	Interval
Day							
1	0.0	-	1.3	0.00	2.00	0	14
15	1.0	-	1.1	2.00	5.00	0	7
15	1.2	-	1.3	2.00	4.00	0	7
15	1.4	-	1.9	2.00	3.00	0	7
15	2.0	-	3.0	2.00	2.00	0	7
15	3.1	-	4.0	2.00	1.00	0	7

5. Oates Et Al - Male

	Sex	Dose b	oy Day	in			
	Male	14		mg per day			
		INR Betw	veen	Last Dose	Dose	Miss Days	Interval
Day	,						
1	0.0	-	1.3	0.00	2.00	0	14
15	1.0	-	1.0	2.00	6.00	0	7
15	1.1	-	1.2	2.00	5.00	0	7
15	1.3	-	1.5	2.00	4.00	0	7
15	1.6	-	2.1	2.00	3.00	0	7
15	2.2	-	3.0	2.00	2.00	0	7
15	3.1	-	4.0	2.00	1.00	0	7

6. Tait Et Al Induction

Sex	Dos	e by Da	ay	in			
Both	8			mg per day			
	INR	Betwe	en	Last Dose	Dose	Miss Days	Interval
Day							
1	0.0	-	1.3	0.00	5.00	0	4
5	0.0	-	1.7	5.00	5.00	0	3

5	1.8	-	2.2	5.00	4.00	0	3
5	2.3	-	2.7	5.00	3.00	0	3
5	2.8	-	3.2	5.00	2.00	0	3
5	3.3	-	3.7	5.00	1.00	0	3
5	3.8	-	5.0	5.00	0.00	0	3
8	0.0	-	1.7	1.00	2.00	0	7
8	0.0	-	1.7	2.00	3.00	0	7
8	0.0	-	1.7	3.00	4.00	0	7
8	0.0	-	1.7	4.00	5.00	0	7
8	0.0	-	1.7	5.00	6.00	0	7
8	0.0	-	1.9	0.00	1.50	0	4
8	1.8	-	2.4	1.00	1.5	0	7
8	1.8	-	2.4	2.00	2.50	0	7
8	1.8	-	2.4	3.00	3.50	0	7
8	1.8	-	2.4	4.00	4.00	0	7
8	1.8	-	2.4	5.00	5.00	0	7
8	2.0	-	2.9	0.00	1.00	0	4
8	2.5	-	3.0	1.00	1.00	0	7
8	2.5	-	3.0	2.00	2.00	0	7
8	2.5	-	3.0	3.00	3.00	0	7
8	2.5	-	3.0	4.00	3.50	0	7
8	2.5	-	3.0	5.00	4.00	0	7
8	3.0	-	3.5	0.00	0.5	0	4
8	3.1	-	3.5	1.00	0.5	0	4
8	3.1	-	3.5	2.00	1.50	0	4
8	3.1	-	3.5	3.00	2.50	0	4
8	3.1	-	3.5	4.00	3.00	0	4
8	3.1	-	5.0	5.00	3.00	0	4
8	3.6	-	5.0	1.00	0.00	4	4
8	3.6	-	5.0	2.00	1.00	0	4
8	3.6	-	5.0	3.00	2.00	0	4
8	3.6	-	5.0	4.00	2.50	0	4

10.2 Maintenance Dosing

Maintenance therapy is used for a patient when the patient has reached a stable maintenance dose. DAWN uses an inbuilt algorithm to suggest the most appropriate dose and next test interval for a patient.

Once the treatment plan is set up, the DAWN system uses the previous INR and dose history combined with the current INR entered to suggest a dose and next test interval for the patient:

If DAWN is unable to suggest a dose or next test interval, then you will need to manually enter these for a patient. There are several reasons why DAWN may be unable to suggest a dose or next test interval:

- There is no previous dosing history to base a dose calculation on

- The last test was more than the maximum number of days allowed within the DAWN system settings

- The INR is very high or very low (less than 1.3 or bigger than 5 within the DAWN standard dose settings)

- The treatment plan start date is less than 7 days old
- Interval from last test is less than 7 days.

- Interval between the previous two tests is less than 7 days

- The last treatment record was dosed using bridging therapy (see 'Bridging Dosing' section)

You can choose to overwrite the suggested dose and next test intervals at any time for a patient. See 'Dosing an Anticoagulation Patient' for more details.

10.3 Manual / Bridging Dosing

Manual/Bridging therapy is used whenever the patient is in a period of instability such as when you are stopping and restarting warfarin for a surgical procedure. While a patient is on manual/bridging therapy, DAWN will force you to manually dose the patient. Once the patient is stable once again, you can then change the therapy back over to maintenance.

You can start a patient on manual/bridging therapy by selecting the options shown below when you create (or edit) their treatment plan:

Anticoagulation	
Primary Diagnosis	- ATRIAL FIBRILLATION (29/11/2017)
Start date	p1/10/2016 First seen date
Duration	Long Term 🔻
	Indefinite
Preferred clinic	Dalton Square Surgery GP (S)
Preferred time	From until
Cessation Reason	Patient Deceased •
Status active	suspend stop Admit
Therapy	Manua/Bridging therapy can be chosen from these radio button options
AC Therapy 🕄	Induction Maintenance Manual/Bridging
Target range	2.0 - 3.0

When you enter an INR for a patient on manual/bridging therapy, DAWN will not suggest a dose and next test interval, and a message appears within the Warnings box to inform you that this patient is on bridging:

Dosing Document	Contacts ts	Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups	
INR: 2.6	in Range √	۵	Date: 01/01/2018	a	🛗 Not sche	duled			
+/- Take n	o Warfarin			H	• C	Calc prevented: M	lanual/Bridging The	rapy. Dose manual	ly.
				▼ स	Treatment	Notes 🔋			
				ß					22
Dose 0	.00 d ? (dose z	zero) N	lext						
Accept	dose New IN	NR/Dose	Tes	ted No Fu	urther Tests 🗖				

10.3.1 Scenarios

The following scenarios aim to put certain aspects of the design in context by showing how they would be used to achieve specific tasks or solve specific problems. Click on each section to read more about how each therapy works.

Bridging therapy for patients on Warfarin (or other vitamin K antagonists)

Handling doses that fall in the next week for patients on on Warfarin (or other vitamin K antagonists)

Maintenance dosing patients on Warfarin (or other vitamin K antagonists)

10.3.1.1 Scenario: Bridging Therapy

The following scenario illustrates how an anticoagulation nurse, Maggie Marshall might edit a dosing instruction for a patient on Bridging therapy with a procedure on Wednesday. (The example is not based on any actual bridging protocol, but it hopefully illustrates how a bridging protocol could be used. The example uses British tablet colours. Clexane is a brand name for Enoxaparin used in the UK.)

Maggie has switched the patient's therapy to Bridging so when she enters an INR, DAWN AC does not automatically calculate a dose.

Dosing	Contacts	Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups	
Document	ts								
INR: 2.6 I	In Range 🗸	D	ate: 01/01/2018	γ κο	🚞 Not sche	duled			
+/- Take n	o Warfarin		instr you here	when no dosing uction is found, can double click to enter a om instruction		Calc prevented: N	lanual/Bridging Ther	apy. Dose manual	ly.
				¢	Treatment	Notes 🔋			
Dose 0	.00 d ? (dose z	:ero) N	ext	€					23
Accept	dose New IN	NR/Dose	Test	ted No Fu	rther Tests 🗖				

Maggie could type a dose in the dose field but this would give a standard instruction showing a dose for each day of the week. Maggie wants to stop warfarin until after the patient's procedure then restart with a higher loading dose on Thu and Fri. As such, she double clicks the dosing instruction box to enter a custom instruction manually. The Customise Dosing Instruction form is displayed.

10.3.1.1.1 Bridging with LMWH

Dosing C	ontacts	Letters		rugs	0	E	vents	F	Procedures	Reviews	Reminders	Groups	Documents	
INR: 2.8 In R	ange 🗸			Date:	01/0)1/201	8 🏅 🗤			🗮 Not schedule	d			
Customize dosing	g-instruction						ŝ	×						
	Warfarin	Sun 🔻	Mon	Tue	Wed	Thu	Fri	Sat		Calc	prevented: Manual	/Bridging Thera	py. Dose manually.	
mg						6.0	3.0	3.0						
	Total mg	0	0	0	0	6	3	3		Treatment Note				
	Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat		Treatment Note	.5			
08:00	40Mg													52
20:00	40Mg													
Enoxaparin Patient's weight:	 1 mg per K 40.8 kg (89.9 l) 		ured 20	▼)/12/2()17)	_	_Selec _regin		drug and					
Dose 1.71 d ?	Dose decreas	sed by 439	6	Next] 🗸						
Accept dose							ested		No Further Tes					

Maggie selects 1mg per kg / (q12h). This is a 12 hour regime, so DAWN displays two lines, one for an AM injection time and the other for a PM injection time. The patient weights 168 lbs which DAWN automatically converts to 76.2 kg. His weight was measured 4 days ago so is still valid to use in a dose calculation. The calculated dose is 76.2 kg but the nearest available syringe size is 80mg so DAWN rounds the dose to 80mg.

Dosing Contacts Letters Drugs 4 Events 1 Procedures Reviews Date: 03/05/2018 🍸 🏠 INR: 2.6 In Range 🗸 Mot scheduled Click to close the dosing instruction Customize dosing-instruction ю **X** box Warfarin Sun 🔻 Mon Tue Wed Thu Sat 6 3 3 ma Total mg 0 0 0 0 Treatment Notes 😱 Thu Lovenox Sun Mon Tue Wed Sat 0Ma 08:00 1 1 1 1 1 1 20:00 0Ma 1 1 1 1 1 1 1 mg per Kg (q12h) v Enoxaparin Patient's weight: 41.7 kg (91.9 lbs) (Measured 31/10/2016) - Too old to use Please re-measure Dose 0.00 d? (dose zero Next 28/06/2018 🗰 8 wk ? No Further Tests Tested Accept dose New INR/Dose

10.3.1.1.2 Add the days and times

Maggie leaves the default injection times of 08:00 and 20:00 as these are appropriate for her patient. She ticks the check boxes for the mornings and afternoons on which she wishes the patient to take an injection.

She specifies injections twice a day apart from the day before the procedure when she wants the patient to miss the afternoon dose and the day of the procedure where she wants the

patient to miss the morning dose.

Maggie closes the Customise dosing-instruction form and the patient's instruction and numeric dose are updated with her changes. The change results in a 35% dose decrease, which exceeds the max usually permitted for the patient's treatment plan. Consequently, a red question mark is displayed beside the dose. When Maggie hovers over the question mark, a pop up message explains why it has been raised

10.3.1.1.3 Dose warning message

(Warning: You entered a Dose that is significantly different from the previous Dose (current Dose: 1.71, previous Dose: 10.00). Please correct the Dose or click the
	Warning: You have prescribed a LMWH-drug. Therefore, the next recommended appointment-date is expected to be on or before 10/05/2018

Maggie clicks the red question mark to confirm she wants to give this instruction. The question mark turns to an exclamation mark, showing that she has acknowledged the warning. Maggie accepts the dose.

10.3.1.1.4 Next test after bridging

When Maggie doses the patient on their next (maintenance) test, automatic dose calculation is prevented as the last dose was a Bridging Therapy. This ensures that a bridging instruction is not used as a basis for the next maintenance dose.

Click Singlach section ntacts L Documents	etters Drugs 1	Events	Procedures	Reviews	Reminders	Groups	
INR: 2.6 In Range 🗸	Date: 01/01/2018	3 <mark>7</mark> 10	🛗 Not sche	duled			
➡J- Take no Warfarin		H	• C	calc prevented: N	lanual/Bridging The	rapy. Dose manual	у.
		• ▼	Treatment I	Notes 🔋			
dose an date and accept o	y set the d next test d Click dose when	C					33
Dose 0.00 d ? (do complete	tt						
Accept dose New INR/D	ose Te	ested No Fu	irther Tests				

In the event that Maggie neglects to switch the therapy to Bridging, dose calculation is also prevented if:

- The previous dose contained a LMWH instruction.
- The previous dose comprised a major edit. This is where the doses for two or more days differ by more than the smallest unit used in the regime.

(If the Regime contains 1mg tablets and the smallest permitted tablet part is half a tablet, the smallest unit would be $\frac{1}{2}$ mg. If the smallest tablet strength used in the Regime is 3mg and the regime only permits whole tablets, the smallest unit would be 3mg.)

10.3.1.2 Scenario: Handling Doses that Fall in the Next Week

Maggie has a patient with a low INR on Friday. She wants to instruct him to take 4½ mg on Friday followed by 3mg on Saturday and Sunday but the Sunday dose carries forward into the following week and looks odd on the instruction as it appears to precede rather than succeed the Friday and Saturday doses.

Dosing Contacts Letters	Drugs 1 Events	Procedures	Reviews	Reminders	Groups	Documents	
INR: 2.6 In Range 🖌	Date: 20/12/2017 √	2	🗎 Not schedule	ed			
	Mon Tue Wed Thu Fri		 Last 	3 INRs are all rising			
mg 3.0 Total mg 3 LMWH drug: (None selected) ▼	3 3 3 3 3		Treatment Not	es 🜗			
Dose 3.00 d√ No dose change	Next 10/01/2018	∎ 3 wk ✓					2
Accept dose New INR/Dose	Teste	d No Further Te	sts 🗖				

To correct this, Maggie selects Friday as the first day of the week from the drop down list in the Customise Dosing-Instruction form then enters appropriate doses under the appropriate days.

10.3.1.2.1 Day of first dose

Dosing Contacts Lette NR: 2.6 In Range ✓	rs Drucs Events Click here to stop instructions from Monday onwards	Procedures	Reviews	Reminders	Groups	Documents	
Customize dosing-instruction Warfarin Fri	▼ Sat Sun Mon Tue Wed Thu		• Last 3	INRs are all rising			
-	4.5 3.0 3.0						
LMWH drug: (None selected) ▼			Treatment Note	s 🚹			
Dose 1.50 d? Dose decreased by	50% Next 10/01/2018 🚞 3 v	vk √					2

She also clicks the day name for Mon to deselect Monday. As Tuesday, Wednesday and Thursday follow Monday, they are automatically deselected too. Now it is clear the instruction only spans 3 days.

10.3.1.2.2 Accept the pattern

Dosing Contacts	Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups	Documents	
INR: 2.6 In Range √		Date: 20/1	2/2017 🗸 🖍		Not schedule	ed			
Customize dosing-instruction Warfa	arin Fri 🔻	Sat Sun Mo	x X on Tue Wed Ti] say	ck the cross to ve	3 INRs are all rising			
mg Total	4.5 mg 4½								
LMWH drug: (None selected)					Treatment Not	es 🚹			
Dose 3.50 d? Do Click Acce dose		Next 10/	01/2018 🚞 3	wk ?					2
Accept dose New INF	R/Dose		Tested	No Further Tes	sts 🗖				

As the instruction does not include all 7 days, a Total Weekly dose is not calculated. Instead an average daily dose is shown.

However, where the instruction does not cover a full seven days, it is likely (as in this case) to include exceptional doses (essentially miss or boost doses) for certain days. Maggie's instruction contains a 4½ mg booster dose aimed at getting the patient's INR back into range, before reverting to his normal 3 mg per day. Consequently, the average of 3.5 mg is artificially high and not a sound basis for a subsequent dose calculation. To prevent an inappropriate dose like this one being used as the basis for a subsequent dose calculation, DAWN AC only calculates maintenance doses if the previous instruction spans 7 days.

Furthermore, as we have seen in the last scenario, DAWN also prevents dose calculation if the previous instruction contained a major edit. A major edit is where the doses for two or more days differ by more than the smallest unit used in the Regime. In this case, the smallest tablet strength used in the Regime is 1 mg and the smallest permitted part of a tablet is half a tablet. The smallest unit is therefore $\frac{1}{2}$ mg. The doses for Friday and Sat differ by more than $\frac{1}{2}$ mg so automatic calculation of the patient's next dose would be prevented for this reason too.

10.3.1.3 Scenario: Maintenance Dosing

The ability to edit dosing instructions is not only useful for Bridging therapy. In some cases, you may need to change which doses are specified for which days for Maintenance patients as well.

In many cases the Cycle button is a more convenient way of doing this as you can move an odd dose to a different day of the week without the risk of inadvertently changing the total weekly (or average daily) dose.



Maintenance Instruction (default)



Maintenance Instruction (after clicking Cycle button once)

However, Maggie Marshall has just taken on a patient who until now attended a different clinic. This patient has been used to taking 3 mg on Saturday and Sunday and 1½ mg during the week. The pattern DAWN suggests for the same dose specifies the 1 mg doses on Monday and Friday. This particular patient is stable and has got used to taking the odd doses at the weekend so she is reluctant to change this. The cycle button is no use as it keeps the two odd doses 4 days apart, whichever days they fall on. Instead she edits the pattern and changes the first day of the week so Saturday and Sunday appear together, then moves the odd doses to the weekend.

Warfarin	Mon	Tue	Wed	Thu	Fri	Sat	Sun	K
	1½	1½	1½	1½	1½	1	1	-
								3
								d
								C
	Warfarin							WarfarinMonTueWedThuFriSatSun1½1½1½1½1½1½11

As the average daily dose is updated each time Maggie change the dose for a particular day, she can use this value to ensure she ends up with the same overall dose as before. (If Maggie used Weekly Regimes, she would see a total weekly rather than an average daily dose.)

The next time Maggie doses this patient, so long as neither the dose nor regime have changed, DAWN AC carries the customised instruction forward.

11 Stopping Treatment, Deactivating or Marking a Patient as Deceased

When a patient finishes therapy you must stop their Treatment Plan. If they are not about to start a new Treatment Plan for an alternative course of therapy, you should Deactivate their patient record to free up a patient license. If a patient dies, you can mark them as deceased (automatically stopping any treatment plan). The following sections describe how to perform each of these operations:

Patient 🗙		
	RYEN, Daenerys - Female - 01/01/1987	7 - 012 34
Risk Class	Low	C C
Pref. Clinic	Dalton Square Surgery GP (S)	
Phone	01539563091 - home 🔻	IN
Age:	30	
_		
Diagnosis	ATRIAL FIBRILLATION	
Target Range	2.0 - 3.0	
Start Date	01/10/2016 - Indefinite	
Click on the hyperlink for treatment plan details	Sinthrome Mixed Tabs (plain text / Daily Avg)	
Treatment Plan	<pre>\$ 1 > of 1 active View</pre>	Ċ
Risks		C
		v

11.1 Stopping Treatment

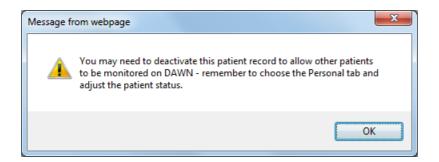
[A Patient	🗮 Lists	🕿 Calls	Reports	🗘 DAWN 👻	Man
F	Patient X Treatment	plans 🗙					
	Anticoagulation						
	Primary Diagnosis	- ATRIAL FIBR	RILLATION (2	29/11/2017)		T	
	Start date	þ1/10/2016	F	irst seen dat	e		
	Duration	Long Term	¥				
		Indefinite					
	Preferred clinic	Dalton Square	Surgery GP	(S)		• →	
	Preferred time	From	u	ntil			
	Cessation Reason	(None selected	d)			T	
	Status active	3			Click to s	to the treatment plan	

DAWN displays a message box asking you to confirm you wish to stop the Treatment Plan. The message box contains an optional free text notes field.

- 1. If you wish to enter a note explaining why treatment was stopped, type your note in the notes field.
- 2. Press OK to confirm you wish to stop the Treatment Plan.

The Treatment Plan status changes to Stopped.

If the patient has no other treatment plan active in another disease area (such as Haematology or DVT assessment), DAWN displays a message box reminding you to deactivate the patient). See the next section for instructions on deactivating patients.



11.1.1 Add an optional note about stopping

Are you sure you want to perform the action 'stop' on record 'Anticoagulation: You can give a short explanation in the text-field below (optional)	01/10/2016'?
Enter notes or leave blank and click OK	
OK Cancel	

11.1.2 Deactivate patient reminder



11.2 Deactivating a Patient

DAWN is licensed in part on the number of active patients. When a patient stops treatment and is not about to start a new course of treatment, deactivate their patient record to free up a patient license. Inactive patients are still available to view and can be included in management, research and clinical audit reports.

Contact info Next of kin Clinic	cal Owners	Account	Audit		
Personal and Address			Cor	ntact	
	Ø				
	TABOADVEN				
Last name	TARGARYEN				
First name	Daenerys				
Age	30				
MRN NHS Number (1)	012 345 6789				
NHS Number 👽		but not trans	d		
Address 1	Number present	but not traced	u		*
Address 1 Address 2	4 The Square				
Town	Milnthorpe				
County	Cumbria				
Post Code	LA7 7QJ				
Sex	Female				
Title	Miss				
Dateofbirth	01/01/1987				
Date of Death	0.001				1
Click to de-activate Ethnic origin	Caucasian				
the patient Language	ICELANDIC				•
Status	Active				

You cannot deactivate a patient without first stopping any active treatment plan (active in this sense also includes suspended, admitted, active admitted, discharged and nonattending statuses). If you attempt to deactivate a patient with an active treatment plan, DAWN prompts you to stop their treatment plan first.

11.3 Reactivating a Patient

Contact info Next of kin Clinic	cal Owners	Account	Audit		
Personal and Address			Cor	ntact	
	I				
Last name	TARGARYEN				
First name	Daenerys				
Age	30				
MRN					
NHS Number 🕄	012 345 6789				
NHS Number status 😉	Number present	t but not trace	d		
Address 1	4 The Square				
Address 2					
Town	Milnthorpe				
County	Cumbria				
Post Code	LA7 7QJ				
Sex	Female				
Title	Miss				
Dateofbirth	01/01/1987				
Date of Death					
Ethnic origin	Caucasian				
Language	ICELANDIC				
Status	Inactive				

11.4 Marking a patient as deceased

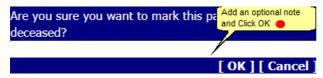
If a patient dies, you can mark them as deceased. Marking a patient as deceased automatically stops any active (or suspended, admitted, active admitted, discharged or non-attending) Treatment Plans.

Contact info Next of kin Clinic	cal Owners	Account	Audit		
Personal and Address			Con	itact	
	Ø				
	-				
Last name	TARGARYEN				
First name	Daenerys				
Age	30				
MRN					
NHS Number 🕄	012 345 6789				
NHS Number status 🕄	Number present	but not traced	1		
Address 1	4 The Square				
Address 2					
Town	Milnthorpe				
County	Cumbria				
Post Code	LA7 7QJ Female				
Sex Title	Miss				
Dateofbirth	01/01/1987				1
Date of Death	01/01/150/				
Ethnic origin	Caucasian				
Language	ICELANDIC				
Status	Active				

See the section Editing System Settings for instructions on how to change System Settings.

See the section Setting up a Cessation Reason for more details on Cessation Reasons.

11.4.1 Deceased message



11.5 Quickly identifying a patients current status

The top left panel of their patient screen shows the treatment plan or patient status

Active Treatment Plan Stopped Treatment Plan Suspended Treatment Plan

Inactive Patient	
Deceased Patient	t

DAWN	â	Q Patient	I Lists≣	🖀 Calls	P Re	port
Patient X Treatm	ent plans	×				
	YEN, Da	enerys - F	emale - 0	1/01/1987	- 012 3	345
Risk Class	Low				•	
Pref. Clinic	Dalton Sc	uare Surgery (GP (S)		T	
Phone	01539563	3091 - home			T	
Age:	30					
Diagnosis	ATI	RIAL FIBRILLA	TION			
Target Range	2.0	- 3.0				
Start Date	01/	10/2016 - Inde	finite			
Anticoagulant	Sin	throme Mixed	Tabs (plain text	/ Daily Avg)		
Treatment Plan	<	1 🔉 of 1 act	ive		Viev	v
Risks						

Active patient with an active treatment plan

DAVN		Q Patient	E Lists	🕿 Calls	P Repo
atient 🗙 Treatme	ent plans	s X			
	'EN, D	aenerys - F	emale - 0	1/01/1987	- 012 34
Risk Class	Low				¥
Pref. Clinic	Dalton	Square Surgery	GP (S)		¥
Phone	015395	563091 - home			•
Age:	30				
Disenseis					
Diagnosis		ATRIAL FIBRILLA	ATION		
Target Range	1	2.0 - 3.0			
Start Date	(01/10/2016 - Trea	itment stopped		
Anticoagulant	\$	Sinthrome Mixed	Tabs (plain text	t / Daily Avg)	
Treatment Plan		< 1 > of 1 sto	opped		View
Risks					

Active patient with a stopped treatment plan

DAWN	A	Q Patient	🗮 Lists	🕿 Calls	L Re	eports
atient 🗙 Treatn	nent plans	s 🗙				
	YEN, D	aenerys - F	emale - 0	1/01/1987	- 012	345
Risk Class	Low				•	
Pref. Clinic	Dalton	Square Surgery	GP (S)		T	
Phone	01539	563091 - home			T	
Age:	30					
Diagnosis		ATRIAL FIBRILLA	TION			
Target Range		2.0 - 3.0				
Start Date	(01/10/2016 - Trea	tment stopped			
Anticoagulant	;	Sinthrome Mixed	Tabs (plain tex	t / Daily Avg)		
Treatment Plan		< 1 > of 1 Ina	ctive		Vie	w
Risks						
ctive patient						

	ń	Q Patient	🗮 Lists	🖀 Calls	🎦 Rep	port
Patient 🗙 Treatm	ent plans	s X				
	YEN, D	aenerys - F	emale - 0	1/01/1987	- 012 3	345
Risk Class	Low				T	
Pref. Clinic	Dalton	Square Surgery (GP (S)		•	
Phone	01539	563091 - home			•	
Age:	30					
Diagnosis	,	ATRIAL FIBRILLA	TION			
Target Range	:	2.0 - 3.0				
Start Date	(01/10/2016 - Trea	tment stopped			
Anticoagulant	:	Sinthrome Mixed	Tabs (plain text	t / Daily Avg)		
Treatment Plan		\$ 1 ≥ of 1 De	ceased		View	2
Risks						
eceased patient						

Patient ×		
L SNOW,	Jon - Male - 0123456789	
Risk Class	High	*
Pref. Clinic	Dalton Square Surgery GP (S)	•
Phone	- home	•
Age:		
Diagnosis		
Target Range		
Start Date	09/01/2018	
Anticoagulant	No Set	
Treatment Plan	≪ 1 ≫ of1 New	Report
Risks		

Active patient with no Treatment Plan

12 Dosing a Warfarin or other Vitamin K Antagonist Patient

This section gives a workflow of how to dose a patient within the DAWN system and give them a next test date.

	EN, Daenerys - Female - 01/01/1987 - 012	345 6789 / 02 -	4 The Square, Miln	thorpe									
Risk Class	High	*	Dosing	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders	Groups	Documen	ts
Pref. Clinic Phone	Dalton Square Surgery GP (S) 01539563091 - home	T	INR:]★✓		Da	te: 29/	11/2017 🛗 🗸 🕫		₩ed 29/11/201	7, 09:30 - 09:4	45: Dalton Square	Surger
Age:	30		Click I	Here						Ask patient abou		athic remedies	
Diagnosis Target Range	ATRIAL FIBRILLATION		Accept IN	R DNA	Un-scheduk	9		Scheduled					
Start Date Anticoagulant	01/10/2016 - Indefinite Sinthrome Mixed Tabs (plain text / Daily Avg)		Graph	History	Personal	Treatmen	t plans	Questionnaires	Test Resu	lts Interface	Warnings		
Treatment Plan	1 ≫ of 1 active	View	Date	INR		-	structions			1	fime DNA	In range	Cor
Risks			Wed 29/11/20 Wed 01/11/20			0						-	Ask
atient is <u>colour</u> blind			Sun 01/01/20	17 2.4	3.00 d							-	
		la la	Mon 07/11/20	16 2.1	3.00 d								
O 🗹 Dawn Hospital -	Support DAWN - 29/11/2017 13:16		Fri 07/10/201	5 1.9	3.00 d								
Patient called for advice or	n starting taking argent nit for anxiety		Add history dat	а									

12.1 Entering INR and Test Date

01/1987 - 012 345 6789 / 02 - 4	The Square, Milnthorpe		Ple	ming indicates there ase note: The dosing ke a manual adjustme	algorithm does no	ot adjust for intera	acting drugs you	need, if necesary, to rug.
You can enter the INR Here. Click here to see what happens if there has been a	Dosing Conta	cts Letters	Drugs Events	Procedures	Reviews	Drugs 🚺	Groups	Documents
large INR change.	INR: *	~	Date: 30/1	1/2017 🗮 🛓 🗸	ŝ	Thu 30/11/2011	7, 09:45 - 10:00:	Dalton Square Surgery GP
			e either before today or in	5		Treatment Notes	0	
To make a computer aided dose and next text date recommendation, clck here on Accept INR button or press the "Enter' key on the right of your keyboard.			e einer berore today or in today's date date.			Ask patient abou	t her homeopath	ic remedies
	Accept INR	UNA Un-schedule	2	Scheduled				
/ Daily Avg)	Graph History	Personal	Treatment plans	Questionnaires	Test Results	Interface	Warnings	
View	Date	INR Dose	Dosing Instructions					In range Comme
Click here on the treatment record to view	The 30/11/2017	0.0 0.00 d	0		may occa	esults interfaces asionally bring in r	nore than one	Ask pati
the detailed patient treatment screen	Wed 01/11/2017	2.3 3.00 d			If this hap the interf	a patient for a nu opens, the second ace messages tai	d result is held in b and an alert is	
	Sun 01/01/2017	2.4 3.00 d				d, warning custo g in the tab that n		s
le le	Mon 07/11/2016	2.1 3.00 d			are chec	tant that any inter ked before dosing	as they may	
	Fri 07/10/2016	1.9 3.00 d			contain in dosing de	formation of relevention of relevention.	vance to the	
	Add history data							

When you enter and Accept an INR, the INR time is automatically recorded as the current time at this moment. This allows you to order list views are reports by the INR time to ensure you deal with INRs received earlier ahead of INRs received later. If you know the real sample time of the INR and you want to use this instead, you can amend the INR time on the Detailed Treatment Screen.

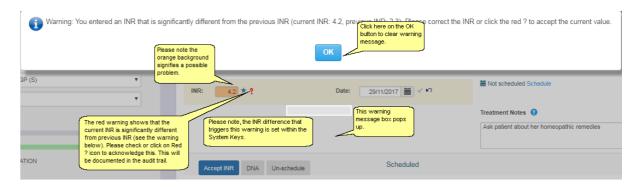
12.1.1 Calendar

Dosing Contacts	Letters	Drugs 1		Events	6	Proce	dures		Revie
INR: ★ ✓		Date:	22/1	2/2017		± √	ŝ		Fri 22
Click on < > to change the	month or year.				Dece	mber	2017		>
The pop up calendar is			Su	Мо	Tu	We	Th	Fr	Sa
displayed.			26	27	28	29	30	1	2
	Click on the date you	<u>,)</u>	3	4	5	6	7	8	9
	want.		10	11	12	13	_14	15	16
Accept INR DNA	Un-schedule	_	17	1	day's d tomatic		1	- 22	23
Accept INR DNA	Un-schedule		24	2 hig	hlighte	d. Click	8	29	30
		_	31	1 her	re on th	ne date.	•_4	5	6

12.2 Detailed Treatment Screen

Treatments for Dosir	ngEngineTest Aardvark (01/01	l/1911) # A1 /
INR: 2.1 InRange \checkmark	Date: 13/07/2020 🗸 🏠	The scheduled
	5 5 5½ 5 5 5 5 5 5½ 5 5 5 5 5 5 5½ 5 5 5 5	The treatment details for this visit are displayed here Treatmont Notes The dosing instructions can be displayed in either fractions or decimals using the system setting AC_DisplayDosingInstructionsInDecimals'.
Dose 36.00 wv Dose increased by 3%	Next 03/08/2020 🚞 3 wk 🕇	urther Tests
	record	
Miscellaneous Status his	tory Audit INR/Dose History	/ VGR
AC Therapy	Maintenance	
Non Attendance Count	0	If the treatment record has been flagged as a priority,
Treat as Priority	Priority Risk Class	S You can manually check or uncheck this checkbox to
See Dr Flag		change the priority setting for this treatment record.
Seen Dr Flag		
Sample No		
Inpatient		
Contact Status 🕄	NoRequirement	V If the auto authorising module is turned on,
Auto Authorisation Result		then the Auto Authorisation Result field will
INR Time 😆	16:00	display reasons why the result hasn't been auto authorised (if this is the case)
IR time defaults to the time the INR was to DAWN but you can change it to be th ample time if you have it.		
	Print S	
Click here on the Save button to save and return to the main patient screen		

12.3 Entering INRs Significantly Different From Previous



12.4 Entering INR Date That is Not Today

Risk Class	Low	T	Dosing	Contacts	6	Letters	Click on ? and a red excla logged within the audit tra	mation mark ! appears. This il too.	Reviews
Pref. Clinic	Dalton Square Surgery GP (S)	T							🗮 (Sched
Phone	01539563091 - home	Y	INR: 2	2.6 ★ ✓			Date: 29/11/2	017 🗮 🛓 ? 🗠	
Age:	30	Click here to accept)				The INR date is not today. A date to today or click here of Calendar icon to select a ne or click on blue icon to set of	on the ew date	Ask pati
		the INR or hit the					today.		
Diagnosis	ATRIAL FIBRILLATION	Enter key to display the recommended dose instruction and	Accept II			Jn-schedu	Ie S	cheduled	
Target Range	2.0 - 3.0	next test date. 🛡	Acceptin		· · ·	JII-SCHOOL			
Start Date	01/10/2016 - Indefinite								
Anticoagulant	Sinthrome Mixed Tabs (plain text / Daily Avg)		Graph	History	Pe	ersonal	Treatment plans	Questionnaires	Test Resu
Treatment Plan	<pre>\$ 1 > of 1 active</pre>	View	Date	IN	R Do	ose	Dosing Instructions		
Risks			Wed 29/11/20	017 0.0	0.0	00 d 🚺)		
1			Wed 22/11/20	017 1.3	3.0	D0 d			
atient is <u>colour</u> blind	1		Wed 01/11/2	017 2.3	3.0	D0 d			

12.5 Automatically Flagging the Treatment as a Priority

When you input an INR, DAWN automatically flags the treatment as a priority if:

- The INR is <= 1.5 or >=4
- The patient's treatment plan status is "Active Admitted" (in other words, the patient has been admitted to hospital but you are still monitoring their INR's and advising on their dosage).
- The patient's planned last test interval is less than 7 days. Where possible, this means the intended next test interval. In other words, if the patient was due to be tested again in 3 days, but was actually tested several days late, the record would still be flagged. Only where the last treatment record was added as history (and so does not have a recommended next date) does DAWN use the actual interval between the last INR and the current one.

When you authorise a dose, DAWN automatically flags the treatment as priority if:

The next planned test date is in less than 7 days.

When a **next test record is created** (this usually happens automatically on authorising the last dose), DAWN automatically flags the treatment as priority if:

• The patient's planned last test interval is less than 7 days. (This helps prioritise follow up of nonattenders).

In addition to these hard and fast rules, the risk class look up table has an additional *Treat as Priority* checkbox, which allows you to mark a risk class as priority. When an INR is input for a patient with a priority risk class, or if the patient's risk class is changed to a priority risk class while they have an INR and dose which is yet to be authorised, the treatment record is flagged as a priority.

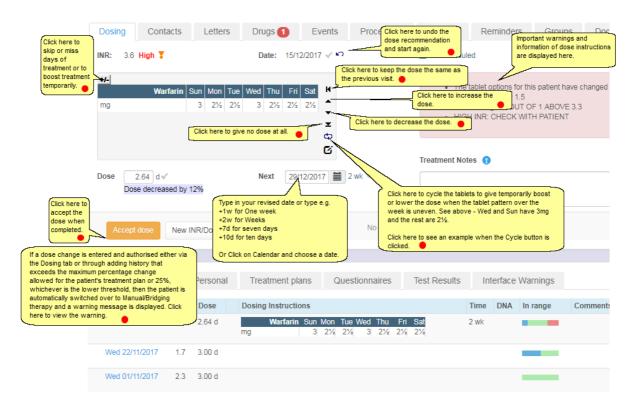
These priority flags can be used in List Views and Front Screen Tallies/Dashboard Panels to group patients into *priority* and *routine* groupings. This helps to expedite the dosing and contacting of priority patients.

The flags can also be used in Message Templates for conditional wording, or in Reports to show statistics on priority versus routine INRs.

You can manually change the *Treat As Priority* flag for a treatment record. See section, Detailed Treatment Screen, for details.

12.6 Accept the Dosing Instruction

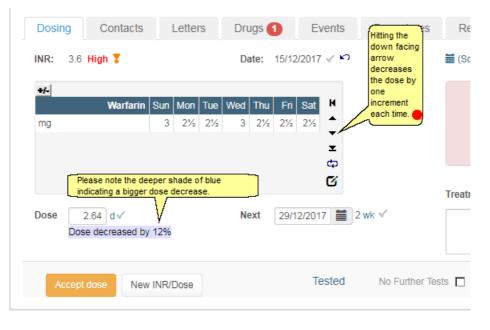
]	INR date or date of instruction is displayed here.	Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups	Documents	
	INR: 3.7 High ✓	See.	Date:	29/11/2017	γ'n	=	Not scheduled			
The Dosage Instruction appears here	2mg/3mg ALTERNAT	'E DAYS		H * *	Click on the icons to the left to see what they do		Dose chang Dose Chang HIGH INR: (e: 1 OUT OF 1		Warnings and important information messages are displayed here.
- Red: There are warnings that need to be acknowledged before the dose can be accepted. - Amber: There are warnings flagged against the record but these have been acknowledged and the user is able to accept the dose.	The numerical dose is displayed here.	Dose decreased	gives the % dose		7 🛗 2 wk √		eatment Notes	homeopa ha Inte ma sou tt is	nore than one res opens, the second erface Warnings to rk shown to warn mething in the tab s important that an ecked before dosi	is may occasionally bring at for a patient. If this result is held in the bo with an exclamation the user that there is hat needs attention. I thereface Warnings are ing as they may contain fifect the dosing decision.
- Green: There are no warnings flagged against the record and the user is able to accept the dose.	Graph History	Personal	Treatment pl	ans Qu	estionnaires	Test Results	Interface Wa			
Click here to accept the dose. 🔴	Date	INR Dose	Dosing Instr				Time	DNA In	range Co	mments
	Wed 29/11/2017	3.7 2.50 d		LTERNATE D	AYS		2 wk		•	k patient about her homeopathic remedie:
The history lines of	Wed 01/11/2017	2.3 3.00 d							n range	
dose instructions are displayed here.	Sun 01/01/2017	2.4 3.00 d								
	Mon 07/11/2016	2.1 3.00 d								
	Fri 07/10/2016	1.9 3.00 d								



12.7 Amending the Dosing Instruction

See Customising dosing instructions to learn how you can completely customise the dosing instruction - change the doses for each day individually; change the first day of the week; leave days out of the instruction (if it spans less than 7 days; or add a Low Molecular Weight Heparin instruction.

12.7.1 Dose Decrease



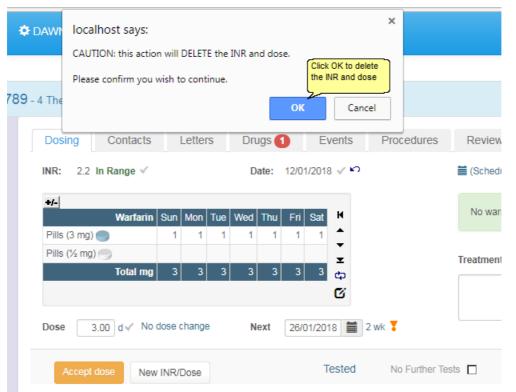
12.7.2 Dose Increase

Dosir	Contacts	Letters	Drugs 1	Events	Procedures	Rev
INR:	1.7 Low 🗸		Date:	18/12/2017 🗸 🖌)	🛗 Not
+/- mg	Warfarin	Sun Mon Tue 3 3 3		Fri Sat K 3 3 ↓	This has increa the dose. It has moved to No Do change from a decrease.	se
	Please note the whi change. Normally d background when t dose.	ose increases sho	ow a pink/red	ക		Treatm
Dose	3.00 d√ No (dose change	Next	25/12/2017]7 d √	
A	ccept dose New	INR/Dose		Tested	No Further Te	sts 🗖

12.7.3 Undo Dose / INR before authorisation

Dosing Contacts	Letters	Drugs 1	Events	Procedures	Rev
INR: 1.7 Low ✓		Date: 18/12	2/2017 🗸 🔿		🛗 Not
₩- Warfarin S	un Mon Tue			This icon resets t record.	he
mg	3 3 3	3 3 3	3 ▼ ▼		
			ф С		Treatm
Dose 3.00 d√ No do	se change	Next 25/	12/2017 🚞 7	d√	
Accept dose New I	NR/Dose		Tested	No Further Test	is 📘

Please note: you cannot use the quick reset button to remove a scheduled next test which has INR or dose information in the audit trail. In other words, a record that has had an INR entered and then been reset back to its original scheduled state. If you inadvertently remove such a record you make it much harder to find out what the INR and dose were, because you cannot simply click on the record to show its full details and look in Audit tab. As such, if you really do need to remove a scheduled next test that has INR or dose information in the audit trail, you must click the record in the history tab to display its full details, unschedule it then delete it manually.



12.7.3.1 Delete the dose and INR warning

12.7.3.2 INR and dose deleted

Dosing Conta	Letters	Drugs 1 Ev	Procedure	es Reviews	Reminde
	(Date: 12/01/2	018 🗮 🛓 🗸 🕫	🗎 (Scheduling) info not availa
				Treatment No	tes 🔋
Accept INR D	NA Un-schedul	e S	cheduled		
Graph History Add history data	Personal	Treatment plans	Questionnaires	Test Results	Interfac
Date	INR Dose	Dosing Instructions			Time DNA
Fri 12/01/2018	0.0 0.00 d				
• Wed 03/01/2018	2.3 3.00 d	Warfarin Sun Pills (3 mg) 1 Pills (½ mg) 1 Total mg 3	MonTueWedThu11113333	Fri Sat 1 1 3 3	2 wk

12.7.4 Undo Dose / INR after authorisation

If you authorise a dose and then discover new information that means the dose is no longer appropriate (perhaps you speak to the patient and discover the reason their INR has dropped low is that they forgot to take their tablets), use the reset button next to the scheduled next test date to remove the next test and make the current INR and dose editable again.

Dosing	Contacts	S	Letters	Drugs 1	Events	Procedu	res	Reviews	Re	minder	s Gro	ups	Documents	
INR:	*√			Date: 1	6/01/2018	± ~ ~ ~		i Tue 16/01/2	018, 09	:15 - 09:	30: Dalton S	quare S	Surgery GP (S) Res	schedule
					Click he the dos	ere to undo se		Treatment No	tes 🔋					
Acce	pt INR DN/	A	Un-schedule		Schedule	ed								
Graph	History		Personal	Treatment pla	ans Que	estionnaires	Т	est Results	Int	erface	Warnings			
Add history	/ data													
Date	1	NR	Dose	Dosing Instruction	ons				Time	DNA	In range	Co	mments	
Tue 16/	01/2018 0	0.0	0.00 d											
9 Tue 09/	01/2018 1	.8	3.36 d	Warfarin Pills (3 mg) 🔵 Pills (½ mg) 🌍 Total mg	Sun Mon Tu 1 1 1 3 3.5 3.5	1 1 1 1 1	Fri S 1 1 3.5 3	1 1	7 d					

12.7.4.1 Status returned to pre-authorised state

Dosing	Contacts	Lette	rs	Drugs	1	Events	Procedures	Reviews
INR: 2.4	In Range 🗸			Date:	15/01	1/2018 🗸 🎽		🗮 Not schedule
+/-	Warfarin	Sun Mon	Tue V	Ved Thu	Fri	Sat K	Edit the dose or ne date or click again	Last
Pills (3 mg)		1 1	1	1 1	1	1	this INR and dose	
Pills (1/2 mg) 🔵					• •		
	Total mg	3 3	3	3 3	3	3 क		Treatment Not
						ß		
Dose	3.00 d√ No	dose chang	e	Next	29/0)1/2018	2 wk ✓	
Accept	dose	INR/Dose				Tested	No Further Tes	sts 🗖

Dosing	Contacts	Letters	Drugs (Even	ts F	Procedures	F
INR:	1.8 Low 🗸		Date:	18/12/2017 🗸	K)		iii N
+/-			e 3½ mg has esday to Tues				
	Warfarin 🕇	Sun Mon Tue	Wed Thu	Fri Sat H			
mg		31/2 3 31/2-	⊷ 3 3½	3 31/2			
				Ŧ			
				¢,			
				<u>c</u>			Tre
Dose	3.29 d√ Dose increased by 1	00/	Next	01/01/2 table		f the icon each noved one positi	on

12.7.5 Tablet Shifts

12.7.6 Miss and Boost Days

Dosin	g	Con	tacts		Lette	rs	Dru	ugs		E	vents	;	Pro	cedure
INR:	4.7	High 🏅					D	ate:	18/0 ⁻	1/201	в 🍸 і	5		
+/-	0	mg for	4	days,	then: 1	<								
		Wa	arfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat	M			
Pills (3	8 mg)	-									÷			
Pills (1/	2 mg			4	5	4	5	4	5	4	Ŧ			
		To	tal mg	2	2.5	2	2.5	2	2.5	2	ф			
											Ø			
Dose		2.21 d	•	26%			N	ext	25/0	01/20	18	7	d√	

If the Regime is expressed in tablets the Miss or Boost instruction is expressed in tablets. If the Regime is in mg, the Miss or Boost rule is expressed in mg. However, if the Patient Tablet Options or Regime specify Mixed Tablets (of more than one tablet strength), Miss or Boost instructions are expressed in mg.

re, Milnthorpe	i The r	naxim	um va	alue fo	or the	Miss	-or-E	Boost	days i	is 2	
Dosing	_				OK						ures
INR: 4.9 High						Date:	0	3/06/2	2019 🗸	5	
		ys, then: Mon		Wed	Thu	Fri	Sat	K			
Pills (3 mg) 🔵								^			
Pills (1 mg) 🛑	2	11/2	2	1½	2	1½	2	× ×			
Tota	ilmg 2	1.5	2	1.5	2	1.5	2	ф			
								Ø			
Dose 1.79	d 🏅 Dose	decrea	sed by	/ 28%		Next		10/06	/2019	7	d 🗸

12.7.6.1 Exceeding miss or boost days maximum

The miss or boost days maximum is controlled by the system key: MaxMissOrBoostDays

12.7.7 Zero Dose

(i) Warning	g: You entered a Zero-Dose. Please correct	the Dose or click the red ? to acce	pt the current value.
T	INR: 4.4 High +- 0.00 mg for 1 days, then: Take no Warfarin The dark blue background indicates a ZERO dose. Dose 0.00 d? (dose zero)	Date: 18/12/2017 ✓ ♥ This is the No dose change icon. This is the zero dose icon. ♥ Next 25/12/2017 7 d ✓	To cancel a Zero dose either: click on the undo icon or click the up arrow to increase the dose or click on the No dose change icon
View	Accept dose New INR/Dose	Tested No	Further Tests 🗖

Dosing Contacts	Letters	Drugs	0	Events	Procedures	Re
INR: 4.4 High ¥		Date:	18/12/20	17 no colo behind	note that there is no ured background this message indicat e change	Not
● 0.00 mg for 1 d	ays, then: 🗸			H		
Take no Warfarin				•		
				±		
				ф Ф		
						Treatn
Dose 0.00 d ? (dose	zero)	Next	25/12/20	017 🚞 7	'd √	
Accept dose New IN	NR/Dose			Tested	No Further Te	sts 🗖

12.7.8 Set No Dose Change

12.7.9 Test Date Changes for a Warfarin or Other Vitamin K Antagonist Patient

Dosing Conta	acts Lei	tters Drugs 1	Events Proced	ures Reviews	Reminde	ers Groups	Documents
	×	Date:	02/02/2018 🗮 🛓 🗸 🖌	➡ Fri 02/02/20	018, 08:45 - 09:	:00: Outreach Nurs	se Clinic Barnet Resc
				Treatment No	tes 🔋	Click here on the 'Reschedule' hyp a new clinic diary	erlink to select
Accept INR [DNA Un-s	chedule	Scheduled				
Graph Histor	y Perso	onal Treatment	plans Questionnaire	s Test Results	Interface	e Warnings	
	y Perso	onal Treatment	plans Questionnaire	s Test Results	Interface	e Warnings	
	y Perso			s Test Results	Interface Time DNA	U III	Comments
Add history data	-	e Dosing Instru		s Test Results		U III	Comments

© 2024

12.7.9.1 Select a new date from the diary

Select a	n appointmer	t for TARGARY	EN Daenerys (01/01/198	37) # / 012 345 6789					
Recom	mended				9	Clinic			
Recomm	ended date		Wed 17/01/	2018		Clinic	Dalton Square Surgery		¥
Recomm	ended interval		14 days			Date	18/01/2018		
Preferred	d clinic		Dalton Squa	are Surgery GP (S)					e clinic by selectin the drop down lis
*	Sun 14/0 11 (-3d/-3	1	Mon 15/01/2018 16 (20) 12 (-2d/-14%)	Tue 16/01/2018 14 (20) 13 (-1d/-7%)		17/01/2018 4 (38) 14	Thu 18/01/2018 15 (20) 15 (+1d/+7%)	Fri 19/01/2018 14 (20) 18 (+2d/+14%)	Sat 2 (+3
Diary fo	or Thu 18/01/2	2018							
	or Thu 18/01/2 Until	2018 Cap. Left	Reserved cap. left						
rom			Reserved cap. left	0	(Select)				
rom 8:00	Until	Cap. Left		0 0	(Select) (Select)				
rom 8:00 8:15	Until 08:15	Cap. Left		-					
rom 8:00 8:15 8:30	Until 08:15 08:30	Cap. Left 0	1	0	(Select)				
Diary fo rom 8:00 8:15 8:30 8:45 9:00	Until 08:15 08:30 08:45	Cap. Left 0 0 0	1	0	(Select) (Select) (Select) (Select)	Choose the preferr	ed		
rom 8:00 8:15 8:30 8:45	Until 08:15 08:30 08:45 09:00	Cap. Left 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1	0 0 0	(Select) (Select) (Select) (Select) Select	Choose the preferr time by clicking on Select	5		

12.8 Monitoring the Patient's Time In Range

DAWN calculates the patient's time in therapeutic range using the Rosendaal method. It displays the time in range in two ways.

Time in Therapeutic range on Treatment Plan Screen

Time in Therapeutic Range on History Screen

238

)AVN	n	Q Patient	🗮 Lists	🖀 Calls	Reports
tient 🗙					
	RYEN, D)aenerys - F	emale - 0	1/01/1987	- 012 345
Risk Class	Low				T
Pref. Clinic	Dalton	Square Surgery (GP (S)		T
Phone	01539	563091 - home			T
Age:	30				
Diagnosis		ATRI 94% - in rar	nge last 12 mor	nths (incl manu	al / bridging)
Target Range	:	2.0 - 3.0			
Start Date	(01/10/2016 - Inde	finite		
Anticoagulant		Warfarin 1mg Stre	ength (in mg/ D	aily)	
		< 1 > of 1 act	ivo		View
Treatment Plan			146		VIEW

12.8.1 Patient's TTR on Treatment Plan

By default the time period is the last 12 months but you can change this by amending the *PercentageInRangeDayCount* system setting.

With the "factory settings" untouched, the time in range displayed here excludes any INRs that were recorded while the patient was on induction or manual/bridging therapy. The grounds for their exclusion is that during periods of induction or bridging, the INR is deliberately or inescapably low and these figures distort the overall performance.

However, some centres also use DAWN reports to find patients above or below certain time in range thresholds. If these reports include induction and manual/bridging INRs, there can be a confusing discrepancy between the bar chart and the report. Other sites keep certain patients on manual therapy for prolonged periods. In this case, excluding manual therapy INRs can give a misleading picture. To avoid such issues, you can configure the time in range bar to include all INRs, regardless of therapy, by changing the *TimeInRange UseBridgingInCalculation* system setting to 1.

Hover over the low, in range or high section of the time in range bar to see a tool tip giving the exact figure. The tool tip also tells you the time period the bar chart covers and whether manual/bridging and Induction INRs are included.

Please note: to conserve space and preserve legibility the tool tip does not differentiate between manual/bridging and induction. If it says manual/bridging INRs are included then induction INRs are also included; if it says manual/bridging INRs are excluded then induction

INRs are too.

12.8.2 Patient's TTR on History

On the **History** tab in the bottom right hand quadrant of the patient screen, the system also displays a bar chart showing time in, above and below range between each INR and the previous result. This allows you to see how the time in range has changed over recent weeks or over longer periods if you scroll down.

0	Graph History	Pe	rsonal	Т	reatment plans	Questionnaires	Test Results	Interfa	ace War	nings	
	Date	INR	Dose		Dosing Instruction	15			Time	DNA	In range
₽	Wed 29/11/2017	4.2	2.50 d	0	2mg/3mg ALTER	NATE DAYS			7 d		
	Wed 22/11/2017	1.7	3.00 d								
	Wed 01/11/2017	2.3	3.00 d								_
	Sun 01/01/2017	2.4	3.00 d								
	Mon 07/11/2016	2.1	3.00 d								
	Fri 07/10/2016	1.9	3.00 d								

12.9 Patient Switched to Manual/Bridging Therapy

Patent X Tris patient has been moved to manual/bridging therapy as their dose chammaintenance dose.	ge of 33% is outside the boundaries of normal maintenance dosing. Do not switch the patient ba	ick to maintenance therapy until you are fully confident they have achiev
Pref. Clinic This message is shown because of a large dose change. Care should be taken to check the message contents before clicking OK, in case the dose change is due to an error when entering the dose.	INR: + < Date: 06/12/2017 = + <	Wed 05/12/2017, 09:45 - 10:00: Datton Square Surgery GP (5) Reschedul
Age: 30		Treatment Notes 9
Deprove ATRUL FRENLATION The patient has now been revered to humalifying therapy. While the patient is on mexalibridging therapy, the health-care professional must nervarily dose the patient. To move the patient back onto matternance therapy once the patient is stakle again, change the therapy option within the patient is teacher them.	Accept INIT DNA. Un-schedule Scheduled	
Click on the Treatment Plan button to move the patient back to maintenance.		Results Interface Warnings
Manual/Bridging Treatment Plan < 1 > of 1 active Verw	Date INR Dose Dosing Instructions Wed 06/12/2017 0.0 0.00 d	Time DNA In range Comments
Risks	no	vote can be automatically entered into the treatment otes to explain why the patient has been moved over o manua/bridging therapy. See system settings

12.10 Switching Patient Back to Maintenance Therapy

t View 🗙 🛕 Confi	rm stable dos	e								
atient: G Switching	to maintenance there	apy activates automa	tic maintenance dose	calculation for this	s patient. To	switch to m	aintenanc	e therapy you must cont	firm that the patient is on a st	able maintenance dose
Can you Anticoa	confirm this patient is	on a stable mainten	ance dose?		Yes	No				
Primary Diagnosis	- DVT NOT SPECI	FIED (25/11/2006)		•		0000000	ng regini	c1	(gur saoraio
Start date	20/02/2006	First seen	date			Use Cust	omised Ta	ablet options?		
Duration	Long Term	•				Anticoag	ulant:	Warfarin	Record Dose As:	Daily Average
	Indefinite					Brand:		UK Generic	Split Tablet Into:	Half a Tablet
Preferred clinic	Doms Anticoagular	nt Clinic		• →		Tablet St	rength:	Pills (5 mg)		
Preferred time	From	until				Tablet St	rength:	Pills (3 mg)		
Cessation Reason		k to maintenance the	on the treatment plan apy again, a warning	to I		Tablet St	rength:	Pills (1 mg)		
Status active	maintenance dose (module). If the patier	er to confirm that the a requirement for usin it is stable, click on th patient will stay on M	g the maintenance	sp Admit		Show To Dose Lin		Yes	Dose in	Tablets
Therapy		\mathbf{N}				Referral	Tran	sport Admission	Notes VGR His	story Audit
CTherapy	Induction Ma	intenance 🔍 Manu	al/Bridging			Date of ref	erral		=	

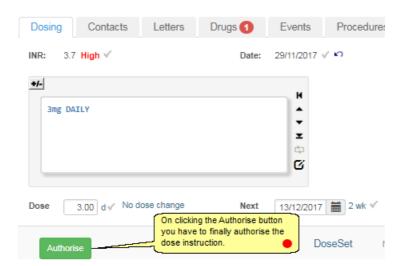
12.11 Treatment Notes

Dosing INR:	Contacts ★ ✓	Letters	Drugs 1 Date:		Procedures	Reviews	Reminders ed 06/12/2017, 09:4	Groups 5 - 10:00: Dalte	Documents on Square Surger	; ry GP (S) Reschedule	
Accept INF	R DNA	Un-schedule		Sched	You can ent treatment no here.	er]	ment Notes \\	the ex	nlight the note yel clamation mark. T on to the note!	llow click here on his will draw	▲ ▼ 57 23
Graph	History	Personal	Treatment plans	Questio	nnaires 1	est Results	Interface War	nings			
Date	INF	R Dose	Dosing Instruct	ions			Time	DNA In ra	ange Con	nments	
Wed 06/12/2	017 0.0	0.00 d									
Wed 29/11/2	017 1.4	4.00 d	1 4mg DAILY				7 d		Ask	patient about her homeopathic	remedies

12.11.1 Treatment Notes Highlighted

Dosing Contacts Letters	Drugs 1 Events F	Reviews	Reminders	Groups	Docume	nts
INR: ★ ✓	Date: 06/12/2017	₩ We	d 06/12/2017, 09:4	5 - 10:00: C	alton Square Su	rgery GP (S) Reschedule
		Treat	ment Notes 🔋			
		Miss	ed last two doses			eatment notes are highlighted. To turn this o ick on the exclamation mark icon again.
Accept INR DNA Un-schedule	Schedu					
Graph History Doreonal	Troatmont plane Ouestion	est Results	Interface War	nings		
Date INR Dose	Dosing Instructions		Time	DNA I	n range	Comments
Wed 06/12/2017 0.0 0.00 d	Ð				1	Missed last two doses

12.12 Authorise Dose



12.13 Authorise Messages

/N -	Management +	🕄 Help 🗸	Q •	
₹ & HAF	-, LEEDS & Distri	Dosing I	ing message(s) will b nstruction ient (Email)	e sent:
Wher config mess e.g. P	Dosing Con clicking on Authorise, t gured to send different ages automatically to no atient, GP, other Healtho ssionals.	types of ominated persons		27/12/2017 🚞 🛓 🗸 🏷

12.14 Stop Scheduling a Next Test Date

In some situations, such at the end of a short term treatment plan, you may not want to schedule a next test date/appointment.

When an INR has been accepted, a checkbox will be displayed which allows you to stop scheduling further appointments.

Dosing Contacts Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups
INR: 2.9 In Range √	Date:	29/11/2017	√ Kì	1	lot scheduled	
● ✓- 3mg DAILY		н		1	lo warnings	
Sing Corre		▼ ▼ ∞		Trea	atment Notes 🏮	
			eck this checkbox if want to schedule ar pointment for this pat	1 1	k patient about her	homeopathic rem
Dose 3.00 d √ No dose change	Next	20/12/2017	3 wk √			
Accept dose New INR/Dose		Te	ested No F	Further Tests		

The checkbox will only be displayed an INR has been accepted.

Leaving the checkbox unchecked will process the test as normal and schedule a next test date.

If you do not wish to schedule a next test as the current test will be the last for the patients treatment plan, you can check the checkbox and click Authorise to skip creating a next test date.

	Risk Class	Paediatric Patient	Ŧ	Dosing	Contacts	Letters	Drugs	Events	Procedures	Reviews
RIC T	Pref. Clinic	Dalton Square Surgery GP (S)	Ŧ	INR: 2.6	In Range √		Date	: 06/12/20	17 V KO	
Pho	one	01539563091 & 115 - home	T	+/-						
	Age:	11			Warfarin Sun	Mon Tue	Wed Thu F	ini Sat 🖁		
				2mg 🌐 1mg 🌰	1	1 1 ½ ½	1 1	1 1 1/2 1/2 🛫	No fur	ther test set.
								-	Click 4	ccept dose
								ආ		
	AF & CARE	IOVERSION						с С	and au	ithorise to ise the current
	AF & CARE 2.0 - 3.0	IOVERSION		Dose 2	2.43 d√ No dos	e change	Next	G	and au author	thorise to
				Dose 2	2.43 d√ No dos	e change	Next	G	ont author dose	thorise to
	2.0 - 3.0 26/08/2006			Dose			Next	G	017 m 3 m	thorise to
	2.0 - 3.0 26/08/2006	- Indefinite k 1mg Tablets With Halves Daily	View				Next	G	017 m 3 m	Ithorise to ise the current

Checking the checkbox and clicking 'Authorise' will authorise the current dose without creating a next apointment.

12.15 Changing Tablet Options

If a patient's dose changes significantly, he or she may be more suited to a different tablet strength. Likewise, if a patient struggles with splitting tablets into halves or quarters, you may wish to change their settings so DAWN only produces doses that can be achieved using whole tablets. If you use different brands of an anticoagulant, a patient may swap from one brand to another.

	RYEN, Daenerys - Female - 01/01/1987 - 012 345 6	789 / 02 - 4 The Square, Milnthorpe
TIR% Ab	ove Average VGR Above Average (max diff: 0.9)	Dosing Contacts Letters
Risk Class	Low	INR: ★ ✓
Pref. Clinic	Dalton Square Surgery GP (S)	
Phone	01539563091 - home 🔻	
Age:	31	
_		Accept INR DNA Un-schedule
Diagnosis	ATRIAL FIBRILLATION	
Target Range	2.0 - 3.0	Graph History Personal
Start Click on Treatm	ent 01/10/2016 - Indefinite	
Anticoagula	Warfarin 3 & 0.5mg Whole Tablets Daily	Add history data Date INR Dose D
Treatment Plan	< 1 > of 1 active Report	Tue 30/01/2018 0.0 0.00 d
Risks Patient is <u>colour</u> blin	d	4.2 2.43 d P
	-	 Wed 03/01/2018 2.3 3.00 d P
O 🖸 Dawn Hospi	tal - Support DAWN - 29/11/2017 13:16	Wed 27/12/2017 2.1 3.00 d P
D.10.11.1.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1		P

12.15.1 Switch to Custom Tablet Options

If the patient is on a preset *Dosing Regime*, you can either choose and alternative regime or you can switch to *Customised Tablet Options* and change the tablet options individually to tailor them to the patient's requirements. Likewise if a patient already has customised tablet options settings, you can edit their existing settings or choose to move them to a preset regime.

Dosing and Tablet Optic	ons		
O Use Dosing Regime?		Warfarin 1, 3 and 5 strength tablets	¥
• Use Customised Tablet opti-	ons?		
Anticoagulant:	Warfarin	Record Dose As:	Daily Average
Brand:	UK Generic	Split Tablet Into:	Half a Tablet
Tablet Strength:	Pills (5 mg)		
Tablet Strength:	Pills (3 mg)		
Tablet Strength:	Pills (1 mg)		
Show Total mg Dose Line	Yes	Dose In	Tablets

12.15.2 Customise the Tablet Options

Patient Tablet Options Settings 🗙	Change the anticoagulant		Choose whether you
Anticoagulant:	Warfarin v	Record Dose As: 🕄	Daily Average
Brand: Select the brand you use	UK Generic (Warfarin)	Split Tablet Into:	Whole tablet
Dose In:	Tablets Show the instructions by number of tablets or mg		Options: Allow whole, half or quarter tablets
Note:	Tablets must be selected in descending order.	If you wish to select one tablet strength, o	choose the
Tablet Strength:	Pills (3 mg), Blue (UK Generic (Warfarin))	largest tablet in the t smallest in the bottor drop down list only i	n box. (Each
Tablet Strength:	Pills (½ mg), White (UK Generic (Warfarin))	strengths smaller that the drop down list all	an the one in
Tablet Strength:	(None selected)		
Show Total MG Instructions Line:	This option determines whether the instructions show the total mg per day.		
Note:	Clicking the View Sample Instructions link produces	Sample instructions for the tablet	options selected in a new window.
	The process can take a few minutes to run dependin	g on the options selected.	
	View Sample Instructions		
Click to save the settings			
✓ OK X Cancel			

12.15.3 Saved tablet options

Dosing and Tablet Options										
Use Dosing Regime?		(None selected)	•							
Use Customised Tablet of Cu	options?									
Anticoagulant:	Warfarin	Record Dose As:	Daily Average							
Brand:	UK Generic	Split Tablet Into:	Whole Tablet							
Tablet Strength:	Pills (3 mg)									
Tablet Strength:	Pills (1 mg)									
Show Total mg Dose Line	Yes	Dose In	Tablets							
			Edit Tablet Options							

12.16 Adding additional INRs or doses for a day

By default, DAWN only allows recording one INR and dose per day. However, you can change a system setting to allow you to record multiple INRs and/or doses for the same day, if necessary. The following sections show how to switch on this functionality and describe three scenarios, which illustrate how you might use this feature and each of its options.

Switch On the Option to Record more than One INR or Dose Per Day

Recording an additional INR when a patient is tested twice on the same day

Changing an Already Authorised Dose but Retaining a Record of the Original

Recording a Second INR and Dose while Retaining the Original INR and Dose for a Day

12.16.1 Switch On the Option to Record more than one INR or Dose for a Day

Changing the system setting to allow one or more INR or doses per day.

	Q Patient	🔳 Lists	🗠 Calls	Reports	🗢 DAV	/N +	Management -	Help •		8 ·
/ersion 8.0.0 (1357)				Normal Tabl Lookup tabl		> >				
			Clinic View Message M	0						
Welcome DAWN You are currently logg	jed on as 'Sup	port DAWN'	with user pro	•	We	Printing Reports Audit & seci			Manual/	
Manager.						Pa	Dawn Interf	ace	hance	
						In	Settings 🔴	ments		System Settings

12.16.2 Changing the system setting to permit more than one INR per day

To enable you to record more than one INR or dose per day, change the **AllowMultipleINRsPerDay** system setting to **1**.

DAWN	ń	Q Patient	🔚 Lists	Calls	Reports	🕸 DAWN 🗸	Management +	🕄 Help 🗸	0.1	
System Settings 🗙										
Search Q										
Sorting:					E	y Type/Name				
Search for:	Name 🤅		allowmult	tipleINRsPerD	lay		Value 3			
Customizations Name 😉					Value	0	Descripti	on A		
AllowMultipleINDeDe	Click to s settings	ave these			1	•			istory for the current treatment plan. Set to 1 to allow, 0 to disable	е.
HH HH 🕇 Down	± S	iave 🖨 P	rint C							

12.16.3 New INR and dose button enabled

With this setting enabled an additional "New INR/Dose" button is present in the patient's dosing panel once you have entered an INR but not yet accepted the dose.

INR: 4.4 High ▼				Dá	ate:	29/01	1/2018	Г√ КЗ)		Ĩ	Not sched			
Warfar Pills (3 mg) 🥏	in Sun	Mon	Tue	Wed	Thu	Fri	Sat	H ▲				 Dose changed by 21% INR changed by > 1.5 Last 2 INRs are all right 			
Pills (3 mg) 5 4 5			5	5	5 4 5						 Last 3 INRs are all rising Dose Change: 1 OUT OF 1 HIGH INR: CHECK WITH F 				
Total n	ng 2.5	2	2.5	2.5	2.5	2	2.5	ф				• HI	GHINR	CHECK WITH	
								Ø							
Dose 2.36 d?				Ne	ext	05/0)2/201	8 🚞	7 d •	1	-	Treatment N	lotes 🤇	3	
Dose decreased	by 21%														

The following sections illustrate how you might use this feature.

Recording an additional INR when a patient is tested twice on the same day

Changing an Already Authorised Dose but Retaining a Record of the Original

Recording a Second INR and Dose while Retaining the Original INR and Dose for a Day

12.16.4 Recording an Additional INR when a Patient is Tested Twice on the Same Day

Example Scenario

You have an INR and perhaps a provisional dose for a patient, but before you accept and authorise the dose, the patient has an additional test and you receive a second INR. You want to dose the patient based on the second INR but you wish to retain a record of the first INR. If the second INR was received via an interface with the laboratory system, it will have been put on hold and will appear in the Hold Monitor. If you have received it via a written report, you need a way to enter it into DAWN without losing the first INR.

Solution

The current treatment record is in the "Tested" state, which means you have an INR and (possibly) a provisional dose that is yet to be accepted. The screen includes a *New INR/Dose* button.

Dosing Contacts	s l	Letters	Drugs	Events	Procedures	Reviews	
INR: 1.9 Low √			Da	ite: 06/12	/2017 🗸 🍤		
+/-							
Warfarin	Sun	Mon Tue	Wed Thu	Fri Sat	H A		
Pills (3 mg) 🔵					÷		
Pills (1 mg) 🛑	2	1½ 1½	2 11/2	1½ 1½	x		
ф С							
					0		
Dose 1.64 d√ ^N	lo dose	change	Ne	20/1	2/2017 🚞 2 wk √		
Accept dose Ne	w INR/E	Dose	Click on N		Tested	No Further Tests	
			·				
Graph History	Per	rsonal	Treatmer	nt plans	Questionnaires	Test Resu	
Date	INR	Dose	Dosing	Instruction	15		
Wed 06/12/2017	1.9	1.64 d	Pills (3 r		un Mon Tue Wed 1	Thu Fri Sat	

12.16.4. Preserve the INR only

A dialog box is displayed asking you whether you wish to retain the existing INR, existing dose or both as a historical record.

	Retain existing INR and/or dose as historical record?
	OK to enter an additional INR and/or dose for 06/12/2017. Please choose whether to retain the existing INR, existing dose or both as a historical (Historical records are not used in dose or time in range calculations).
•	Preserve INR and Dose. I will enter a new INR and Dose for 06/12/2017 but wish to retain both the existing INR and dose as a historical record.
۲	Preserve INR only. I will enter a new INR and a dose based on that result. I only wish to retain the existing INR (but not the existing dose) as a historical record.
0	Preserve Dose only. I will enter a new dose for the existing INR but I wish to preserve the existing dose as a historical record.
	Click Preserve INR only then click OK

In this case, the existing dose is a provisional suggestion which has not been accepted and authorised. As such, there may be no need to retain a record of it, but you do wish to retain the existing INR.

The system resets the current treatment record so that you can enter a new INR and dose, but it retains a record of the original INR, which appears against the same day in the Treatment history.

12.16.4. Enter and accept the INR

Any existing treatment notes are also copied and displayed beside the first INR. Although the treatment notes are not cleared when the record is reset, this behaviour means you can change (or delete and re-enter new) notes for the new INR without losing a record of what you had written originally.

Enter a new INR and press the *Accept INR* button (or reprocess the INR if it came down over the interface and is currently sitting in the Hold Monitor). DAWN makes a provisional dose suggestion.

Dosing Cont	tacts	Letters	Drugs 1	Event	s Pro	cedures	Reviews	R	eminde
INR: 2.9 *			Date: 3	0/01/2018	i v k)	🛗 Not schedu	iled Sch	edule
Ent	er the ne	w INR					Treatment No	otes 🔋	
Click to ac	ccept the								
Accept INR	DNA	Un-schedu	ıle	Schee	duled				
Graph Histo	rv	Personal	Treatment pla	ans	Questionn	aires	Test Results	Ir	nterface
Add history data									
Date	INR	Dose	Dosing Instructio	ns				Time	DNA
Tue 30/01/2018	0.0	0.00 d							
	4.3								
Wed 03/01/2018	2.3	3.00 d	Warfarin Pills (3 mg) Pills (½ mg) Total mg	Sun Mon 1 1 3 3	Tue Wed 1 1 3 3	Thu Fri 1 1 3 3	Sat 1 3	2 wk	

12.16.4. Accept the dose

Adjust the dose, next test and treatment notes as appropriate then press *Accept Dose*. The dose is accepted and authorised and the next test created. Both INR's appear in the treatment history for the current test date but the dose appears beside the latest INR. The older INR and notes appear in a more muted colour so that the later result and dose are more prominent.

Dosing Conta	acts	Letters	Drugs 1	Events	Procedures	Revie
INR: 2.9 In Range	\checkmark		Date: 30/0	1/2018 🗸 🖍		🛗 Not sci
+/- Wart	farin 9	un Mon Tu	e Wed Thu Fr	Sat K		
Pills (3 mg)			1 1 1 1			
Pills (1/2 mg)				• •		
Tota	l mg	3 3	3 3 3 3			Treatmen
				C		
		se change		02/2018 🚞	4 wk ✓	
	accept t	he new INR an				
Accept dose	New I	NR/Dose		Tested	No Further 1	Tests 🔲
Graph Histor	y	Personal	Treatment p	lans Qu	estionnaires	Test Res
Graph History Add history data	y	Personal	Treatment p	ans Qu	estionnaires	Test Res
	y INR	Personal	Treatment p		estionnaires	Test Res
Add history data			Dosing Instruction			Sat 1
Add history data Date	INR	Dose	Dosing Instruction Warfarin Pills (3 mg)	ons Sun Mon Tu 1 1	ue Wed Thu Fri 1 1 1 1	Sat 1
Add history data Date	INR 2.9	Dose	Dosing Instruction Warfarin Pills (3 mg) Pills (½ mg) Total mg	Sun Mon Tu 1 1 3 3	ue Wed Thu Fri 1 1 1 1	Sat 1 3 Sat

Only the latest INR for any day is used in the Therapeutic Time in Range calculations and by the DAWN dosing engine in determining whether a to suggest a dose change.

Graph Histor	у	Personal	Treatment pla	ins	Quest	ionnai	res	Test F	lesults	Inte	erface	Warnings	
Add history data													
Date	INR	Dose	Dosing Instruction	15					Ti	me (DNA	In range	С
Tue 27/02/2018	0.0	0.00 d											
Tue 30/01/2018	2.9	3.00 d	Warfarin Pills (3 mg) Pills (½ mg) Total mg	1	n Tue V 1 1 3 3	Ved Ti	hu Fri 1 1 3 3	Sat 1 3	4 \	wk			
	4.3												
Wed 03/01/2018	2.3	3.00 d	Warfarin Pills (3 mg) Pills (½ mg)	1	n Tue V 1 1 3 3	Ved Ti	hu Fri 1 1 3 3	Sat 1	21	wk			

12.16.4. Authorised second INR and dose

12.16.5 Changing an Already Authorised Dose but Retaining a Record of the Original

Example Scenario

You have a dosed a patient and increased their dose slightly as their INR was a little low. You authorised the dose, which triggered an update to your electronic patient record system. As their dose has changed you also ring the patient to explain the change. However, in the course of conversation the patient informs you that they forgot to take their tablets yesterday. As such, you advise them to continue on the same dose. You now need to change the dose recorded in DAWN. As this will result in a new update being sent to your electronic patient record system, you ideally want to retain a record of the original dose in DAWN so it is clear that this was set, but then superceded by the later dose.

Solution

As you have already authorised the dose, the dosing tab on the patient screen now shows the patient's scheduled next test record.

Dosing Conta	cts	Letters	Drugs Even	ts Procedures	Reviews	Reminders	G	Groups	Docume	ents
NR: *	×		Date:	06/12/2017 🛗 🗸 🖸		🛗 Wed 06/12/201	17, 09:00	0 - 17:00	: Doms Antico	agulant C
				Click to undo		Treatment Notes	0			
Accept INR D	NA U	b d- d		Scheduled						
D	INA U	n-schedule		Conocalod						
			I		T 10					
Graph History		rsonal	Treatment plans	Questionnaires	Test Resu	lts Interfac	e Warr	nings		
			Treatment plans	Questionnaires	Test Resu		e Warr rime	nings DNA	In range	Con
Graph History	Pe	rsonal		Questionnaires	Test Resu			5	In range	Con
Graph History Date	Pe	rsonal Dose	Dosing Instruction	Questionnaires	u Fri Sat	1		5	In range	Con

12.16.5. Undo the authorised dose

The next test is removed and the current INR and dose are made editable again. The dialog includes a New INR/Dose button.

Dosing	Contacts	Letters	Drugs 1	Events	Procedures	Reviews	Reminders
INR: 2.9	In Range 🗸		Date: 30/01/2	2018 🗸 🖒		Mot schedule	d
+j-		Sun Mon Tu		Sat M		• Last 3	INRs are all risin
Pills (3 mg) Pills (½ mg)		1 1 3 3	1 1 1 1 3 3 3 3 3	1 - ▼ 3 cp		Treatment Note	s 💽
Dose 3		ose change NR/Dose		/2018 🚞 4	kwk ✓ No Further To	ests 🗖	
			Click New INR/Dose	•			
Graph	History	Personal	Treatment plan	ns Que	estionnaires	Test Results	Interface W
Add history of	data						
Date	INR	Dose	Dosing Instructions	s		Т	ime DNA In
Tue 30/01	/2018 2.9	3.00 d	Warfarin S Pills (3 mg)	un Mon Tue 1 1 1	Wed Thu Fri 1 1 1	Sat 4	wk

12.16.5. Preserve the dose only

253

	Retain existing INR and/or dose as historical record?
	to enter an additional INR and/or dose for 30/01/2018. Please choose whether to retain the existing INR, existing dose or both as a historical distorical records are not used in dose or time in range calculations).
•	Preserve INR and Dose. I will enter a new INR and Dose for 30/01/2018 but wish to retain both the existing INR and dose as a historical record.
•	Preserve INR only. I will enter a new INR and a dose based on that result. I only wish to retain the existing INR (but not the existing dose) as a historical record.
۲	Preserve Dose only. I will enter a new dose for the existing INR but I wish to preserve the existing dose as a historical record.
	Click preserve Dose only and then click OK
	✓ OK

254

Dosing Cont	acts	Letters	Drugs 1	Events	Procedures	Reviews	Remind	ers Grou
INR: 4.3 High ¥		Lottoro	Date: 30/01/2		Trocoduros			9:30: Dalton Squ
Pills (3 mg) 🔵 Pills (½ mg) 🌍	farin Si al mg	un Mon Tu 1 1 3 3	ie Wed Thu Fri S	Cat K 1 ▲ ¥ 3 ⊕		 Last Dose 		
				ß		Treatment Not	es 🚦	
Dose 3.00 d√		se change	Next 06/02/	2018 🚞 7	′ d √			
Accept dose		IR/Dose		Tested	No Further T	ests 🗖		
Graph Histor	у	Personal	Treatment plan	s Que	estionnaires	Test Results	Interfac	e Warnings
Add history data								
Date	INR	Dose	Dosing Instructions				Time DNA	In range
Tue 30/01/2018	4.3	3.00 d	Warfarin St Pills (3 mg) Pills (½ mg) Total mg	un Mon Tue 1 1 1 3 3 3		1	7 d	_
		2.36 d	Take 0 mg for 1 days, Warfarin St Pills (3 mg) Pills (½ mg) Total mg 2		Wed Thu Fri	Sat 5 2.5		

12.16.5. Amend and Accept the dose

12.16.5. Authorised second dose

	Graph Histor	у	Personal	Treatment plans	Que	estionnaires	Test Results	s Ir	nterface	Warnings	
A	Add history data										
	Date	INR	Dose	Dosing Instructions				Time	DNA	In range	Con
	Tue 06/02/2018	0.0	0.00 d								
0	Tue 30/01/2018	4.3	3.00 d	Warfarin Sun Pills (3 mg) 1 Pills (½ mg) 1 Total mg 3	1	e Wed Thu 1 1 1 3 3 3 3	Fri Sat 1 1 3 3	7 d			
			2.36 d	Take 0 mg for 1 days, the Warfarin Pills (3 mg) Pills (½ mg) 5 Total mg 2.5		e Wed Thu 5 5 5 5 5 2.5 2.5	Fri Sat 4 5 2 2.5				
θ	Wed 03/01/2018	2.3	3.00 d	Warfarin Sun Pills (3 mg) 1 Pills (½ mg) 1 Total mg 3	1	e Wed Thu 1 1 1 3 3 3 3	Fri Sat 1 1 3 3	2 wk			

© 2024

12.16.6 Recording a Second INR and Dose while Retaining the Original INR and Dose for a Day

Example Scenario

You reduced a patient's dose as their INR was slightly high. You have authorised the dose, which triggered an update to your electronic patient record system. Later in the day, the patient is retested and the new INR is in range. You want to enter the new INR into DAWN and set a new dose based on this result, but you do not want to lose the record of the original INR and dose.

Solution

As you have already authorised the dose, the dosing tab on the patient screen now shows the patient's scheduled next test record.

Dosing Contac	ts	Letters	Drugs	Events	Procedures	Reviews	Reminder	S	Groups	Docum	ients
NR: 📃 ★ 🗸	<i>,</i>		Date	. 06/12	2/2017		🛗 Wed 06/12/2	017, 09:	00 - 17:00): Doms Antico	oagulant C
					Click to undo		Treatment Note	es 🔋			
Accept INR DI	VA U	n-schedule			Scheduled						
Graph History	Pe	ersonal	Treatment	plans	Questionnaires	Test Resu	lts Interfa	ace Wa	mings		
Graph History Date	Pe	ersonal Dose		plans	Questionnaires	Test Resu	lts Interfa	ace Wa Time	mings DNA	In range	Cor
					Questionnaires	Test Resu	lts Interfa		0	In range	Cor
Date	INR	Dose	Dosing In	arfarin Sun	Mon Tue Wed Thu	u Fri Sat	lts Interfa		0	In range	Со

- 1. You want to retain the existing INR and dose then enter a new INR and dose for current date.
- 2. Choose **Preserve INR and Dose** then press the **OK** button. The system resets the current treatment record so that you can enter a new INR and dose, but it retains a record of the original INR and dose (together with any treatment notes). These appear against the same day in the Treatment history.

D	Oosing Contac	cts	Letters	Drugs	Events	Pro	ocedures	Review	s Ren	ninders	Groups	Documents	
IN	IR:★ √	,		Date:	06/12/201	7 🚞	γŊ	🗎 Wed	1 06/12/2017,	09:00 - 17	7:00: Doms Anti	coagulant Clinic Res	chedu
								Treatm	ent Notes (•			
	Accept INR D	NA	Un-schedule		Sch	eduled							
G	Graph History		Personal	Treatment	olans	Quest	ionnaires	Test R	esults	Interface	e Warnings		
	Date	INR	Dose	Dosing Instru	tions				Time	DNA	In range	Comments	
	Wed 06/12/2017	0.0	0.00 d										
		4.2	1.36 d	Warfar Pills (3 mg) 🔵	in Sun M	on Tue	Wed Thu	Fri Sat					
				Pills (1 mg) 🛑	1½	1 1½	11/2 11/2	1 1½					
0	Fri 22/09/2017	2.5	1.64 d		1 1	on Tue	Wed Thu	1 1½ Fri Sat 1½ 1½	8 wk		_		

Any existing treatment notes are also copied and displayed beside the first INR. Although the treatment notes are not cleared when the record is reset, this behaviour means you can change (or delete and re-enter new) notes for the new INR without losing a record of what you had written originally.

1. Enter a new INR and press the *Accept INR* button (or reprocess the INR if it came down over the interface and is currently sitting in the Hold Monitor). DAWN makes a provisional dose suggestion, which you can adjust as appropriate without losing the record of what this was originally.

Dosing	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders	Groups
INR: 2.6	In Range 🗸		Date:	06/12/2017 🗸	ŝ	🛗 Wed 06/	12/2017, 09:00 - 1	7:00: Doms Ani
+/- Pills (3 mg)		Sun Mon Tue	Wed Thu	Fri Sat 🖡		• L	ast 3 INRs are all.	rising
Pills (1 mg)	-	2 1½ 1½	2 11/2	1½ 1½ ⊻ ¢		Treatment	Notes 🔋	
				Ø		1		
Dose	2.5 d No d	loso change	Next		nut d			
	d√ 100	lose change	Next	31/01/2018	8 wk √			
Accept		/ INR/Dose	Next	Teste		Tests 🗖		
	dose New	r INR/Dose		Teste	d No Further	_	Its Interfac	e Warnings
Graph	dose New History	INR/Dose Personal	Treatme	Teste		Tests		e Warnings
Graph Date	dose New History	Personal R Dose	Treatmen	Teste	ed No Further Questionnaires	Test Resu	Time DNA	e Warnings In range
Graph	dose New History	Personal R Dose	Treatmen	Teste	ed No Further Questionnaires	Test Resu		Ū

2. Once you have amended the current dose as appropriate, press the *Accept dose* button to accept and authorise the new dose and create the next test record. Both INRs and doses still appear in the history for the current treatment record.

Dosing Conta	cts Let	ters D	rugs	Events	Procedures	Reviews	Re
INR: 2.6 In Range	~	I	Date: 06/	12/2017 🗸	n	🞽 Wed 06/	12/2017
+/- Warfari	n Sun Mor	Tue Wed	Thu Fr	i Sat K		• 1	.ast 3 IN
Pills (3 mg) 🔵 Pills (1 mg) 🍏	2 11/2	11/2 2	1½ 1½	2 1½ x		Treatment	Notes
				ф С			
Dose 1.64 d 🏅	No dose chan	ge I	Next 31	/01/2018	8 wk 🗸		
Authorise				Doses	Set No Furthe	r Tests 🔲	
Graph History	Perso	nal Tr	eatment p	lans	Questionnaires	Test Resu	Its
Date	INR Dose	Dos	ing Instruc	tions			Tim
• Wed 06/12/2017	2.6 1.64 (Pills	Warfari (3 mg) 🔵 (1 mg) 🛑	n Sun Mon		Fri Sat 1½ 1½	8 wl
	4.2 1.36	Pills	Warfari (3 mg) 🔵 (1 mg) 🔵	n Sun Mon	Tue Wed Thu 11/2 11/2 11/2	Fri Sat	
Fri 22/09/2017	2.5 1.64	1	Warfari	n Sun Mon	Tue Wed Thu	Fri Sat	8 wl

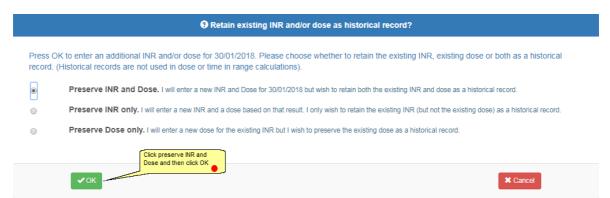
12.16.6. Undo the authorised dose and INR

The next test is removed and the current INR and dose are made editable again. The dialog includes a *New INR/Dose* button.

Dosing	Contacts	Letters	Drugs 1	Events	Procedures	Reviews	Reminde
INR: 2.9	In Range 🗸		Date: 30/01	/2018 🗸 🖒		🛗 Not schedule	d
+/- Pills (3 mg)		Sun Mon T	ue Wed Thu Fri	Sat K		• Last 3	INRs are all ri
Pills (½ mg	-	3 3	3 3 3 3	▼ ≭ ⊕ ℃		Treatment Note	s 🚦
		ose change	Next 27/0	2/2018 🚞	4 wk ✓ No Further Te	etc 🗖	
Accept	New	NR/Dose	Click New INR/Dos		No Faither le	515	
Graph	History	Personal	Treatment pla	ins Que	estionnaires	Test Results	Interface
Add history of	data						
Date	INR	Dose	Dosing Instruction	15		Т	ime DNA
Tue 30/01	/2018 2.9	3.00 d	Warfarin Pills (3 mg) 🔵 Pills (½ mg) 🥏		eWedThuFri 11111	Sat 4	wk

12.16.6. Preserve the INR and dose

Press the *New/INR Dose* button. A dialog box is displayed asking you whether you wish to retain the existing INR, existing dose or both as a historical record



12.16.6. Enter, amend and accept the new INR and dose

The system resets the current treatment record so that you can enter a new INR and dose, but it retains a record of the original INR and dose (together with any treatment notes). These appear against the same day in the Treatment history.

Dosing Cont	tacts	Letters	Drugs 1	Events	Procedure	s Reviews	Reminde	ers
INR: 2.7 In Rang	e 🗸	new INR	Date: 30/01	/2018 🗸 🏷		🛗 Tue 30/01/2	2018, 09:15 - 09):30: Da
₩a Wa Pills (3 mg) 🔵	rfarin (Gun Mon Tu	e Wed Thu Fri	Sat K		• Las	st 3 INRs are all	rising
Pills (1/2 mg) 🔵	al mg		3 3 3 3	-' ▼ エ 3 ⊕		Treatment No	otes 😲	
	ccept the	change	Next 27	2/2018	4 wk √			
Accept dose	New I	NR/Dose		Tested	No Further	Tests 🗖		
Graph Histo	ry	Personal	Treatment pla	ans Que	estionnaires	Test Results	Interfac	e Wa
Add history data								
Date	INR	Dose	Dosing Instruction	ns			Time DNA	In r
Tue 30/01/2018	2.7	3.00 d	Warfarin Pills (3 mg) Pills (½ mg) Total mg	1 1 1	1 1 1	ri Sat 1 1 3 3	4 wk	
	4.2	2.43 d	Warfarin Pills (3 mg) 🔵 Pills (½ mg) 🍚 Total mg			ri Sat 5 5 5 2.5		
Wed 03/01/2018	2.3	3.00 d	Warfarin Pills (3 mg) 🥏			ri Sat 1 1	2 wk	

Any existing treatment notes are also copied and displayed beside the first INR. Although the treatment notes are not cleared when the record is reset, this behaviour means you can change (or delete and re-enter new) notes for the new INR without losing a record of what you had written originally.

Enter a new INR and press the Accept INR button (or reprocess the INR if it came down over the interface and is currently sitting in the Hold Monitor). DAWN makes a provisional dose suggestion, which you can adjust as appropriate without losing the record of what this was originally.

© 2024

Graph Histor	y	Personal	Treatment plans	Questionnaires	Test Results	Int	terface	Warnings
Add history data								
Date	INR	Dose	Dosing Instructions			Time	DNA	In range
Tue 27/02/2018	0.0	0.00 d						
Tue 30/01/2018	2.7	3.00 d	Warfarin Sun N Pills (3 mg) 1 1 Pills (½ mg) 1 1 Total mg 3	Ion Tue Wed Thu Fr 1 1 1 1 1 3 3 3 3 3 3	i Sat 1 1 3 3	4 wk		_
	4.2	2.43 d	Warfarin Sun N Pills (3 mg) 9 5 Pills (½ mg) 5 5 Total mg 2.5	Ion Tue Wed Thu Fr 5 5 4 5 5 2.5 2.5 2 2.5 2.5	i Sat 5 5 5 2.5			
Wed 03/01/2018	2.3	3.00 d	Warfarin Sun M Pills (3 mg) 🔵 1	Ion Tue Wed Thu Fr	i Sat I 1	2 wk		

12.16.6. Authorised second INR and Dose

12.17 Dosing a Patient Without an INR Result

Pills (½ mg) 🔛 Total mg

In some situations you may wish to call the patient and advise them on what dose to take until they next have their blood tested. In many cases, you may simply suggest continuing on the same dose and having a blood test as soon as possible but the fact you have spoken to the patient and actively advised them to do this may be something you want to record as a dose record in DAWN. This could be even more important if the patient informs you their circumstances have changed - perhaps they have started taking a concurrent medication that interacts with warfarin - and you suggest a dose change to compensate.

In earlier versions of DAWN, dosing a patient without an INR was not possible. However, in version 7.9.53 onwards, you can enable this functionality by means of a system setting called *AllowZeroINR*. When you upgrade from an earlier version this system setting is switched off by default so that DAWN continues to work as it did before, but you now have the option to switch this feature on.

Co

262

Dosing Contac	cts	Letters	Drugs 1	Ev	ents	Procedur	es Re
INR: 📃 ★ 🗸	·		Date:	25/12/2	017 🚞	τ ∧ κι	m M
							Trea
Accept INR D	NA	Un-schedule		s	chedule	d	
Graph History	P	ersonal	Treatmen	t plans	Que	stionnaires	Test F
Date	INR	Dose	Dosing Instru	ictions			
Mon 25/12/2017	0.0	0.00 d					
Mon 18/12/2017	N/A	3.00 d	Warfa mg	arin Sun 3	Mon Tue 3 3	Wed Thu 3 3	Fri Sat 3 3
Wed 22/11/2017	1.7	3.00 d					

Automatic dose and next test date calculation is prevented in the following circumstances:

The number of weeks since the last INR exceeds the maximum test interval for the patient + 2 weeks

The patient is on manual/bridging therapy

The patient's last dose was a manual/bridging dose

The patient's last dose contained LMWH

The patient's last dose spanned less than seven days

The patient's last dose may have been a booster or loading dose (see Preventing dose calculations based on inappropriate doses)

12.17.1 Switch On the Option to dose without an INR

The simplest way to handle a patient who fails to attend is to reschedule their test as a DNA (Did Not Attend). See Handling Non-Attendance for a Warfarin or Other Vitamin K Antagonist Patient for more details. This method allows you to easily reschedule the patient's test while keeping track of how many consecutive tests they have missed.

However, in some situations you may wish to call the patient and advise them on what dose to take until they next have their blood tested. In many cases, you may simply suggest continuing on the same dose and having a blood test as soon as possible but the fact you have spoken to the patient and actively advised them to do this may be something you want to record as a dose record in DAWN. This could be even more important if the patient informs you their

circumstances have changed - perhaps they have started taking a concurrent medication that interacts with warfarin - and you suggest a dose change to compensate.

In earlier versions of DAWN, dosing a patient without an INR was not possible. However, in version 7.9.53 onwards, you can enable this functionality by means of a system setting called *AllowZeroINR*. When you upgrade from an earlier version this system setting is switched off by default so that DAWN continues to work as it did before, but you now have the option to switch this feature on.

	R Patient I≣ Lists	🗠 Calls	Reports	🗘 DAW	N -	Management -	Help -	@ •	
Version 8.0.0 (1357)		Normal Table							
Welcome DAWA	Clinic View se Message Mar	5							
Welcome DAWN Ovu are currently logged	on as 'Support DAWN'	with user pro	file 'System		W	Reports	•		
Manager'.					Pa	Audit & secur Dawn Interfac Click to go to Sys	xe →	Manual/ nance Bridging Polar Tools	Explanation
			In	Settings Codea Comm	ients	- System Se	ttings		

12.17.2 Changing the dose without an INR setting

Type AllowZeroINR in the search box and press the Search button.

System Settings						
Search Q						
Sorting: Search for:	Name 🕄	allowzeroin	By Type/Name		Value 0	
Customizations			Value 3		Description	
AllowZeroINR AllowZeroINR_R	evertTd		1	ă.	Allow dosing without an INR If dosing without an INR, the dose will revert to the previous dose if the setting is 1, otherwise the dose will be set to 0.	
₩ ₩ ∔ Dowr	🛓 🛓 Save 🚔 Prin	: C				1-20
Twos	vstem set	tings are d	lisplayed.	Alle	owZeroINR and	

Two system settings are displayed: AllowZeroINR and AllowZeroINR_RevertToPreviousDose

Set the *AllowZeroINR* setting "1" to enable dosing a patient without an INR. Set it to "0" to disable this functionality

The second setting, *AllowZeroINR_RevertToPreviousDose* determines whether the dose and next test date use default values or whether they are left blank. In the latter case, you must always enter a dose and next test date manually; in the former, the dose defaults to the same value as the last dose and the next test date defaults to 7 days' time - you can still change these if necessary.

Set the *AllowZeroINR_RevertToPreviousDose* setting to "1" to default the dose and next test date when you dose a patient without an INR. Set it to "0" to force users to always enter the dose and next test date manually.

12.17.3 Dosing without an INR

INR: Date: 06/12/2017	Reminders
Leaving the INR field blank, click on accept INR	17, 09:00 - 17:
Accept INF DNA Up exhedule	s
Accept INR DNA On-schedule	

12.17.4 Warning about not entering a INR

1	Warning: You have not entered an INR. Either enter an INR or click the red ? to dose the patient without an INR.									
	To remove the red ? without dosin	g the patient, click the Cancel All Changes Button - the back	wards looping arrow next to	the chequered flag on the top menu.						
P (5)	•	INR: * ? INR: * ? INR: * ?	22017 🗮 🛓 🗸 🏷	Not scheduled Schedule Treatment Notes						
ION										
		Accept INR DNA Un-schedule	Scheduled							

(Please note: if your Personal Settings are configured to suppress Treatment Warnings no message box is displayed but the same message is shown as a tool tip when you hover over the red question mark.)

12.17.5 Accept INR with previous dose suggested

If your *AcceptZeroINR_RevertToPreviousDose* setting is switched on (1) then DAWN defaults the patient's dose to the same as their previous dose and defaults their next test date to 7 days' time.

Dosing	Contacts	Letter	rs D	rugs 1	Events	Procedures	
INR: T			I	Date: 18/1	2/2017 🗸 🏠		
+/-	Westerin	0	Tue 10/2		iSat Ki		
mg	wariann	Sun Mon 3 3	3 3		Our		
					⊻ ¢p		
					Ø		Tre
Dose 3	3.00 d√ No	dose change	e I	Next 25	12/2017 🚞	7 d 🗸	
	Accept ti dose						
Accept	dose Nev	v INR/Dose			Tested	No Further Te	sts 🗖

12.17.6 Accept INR with no dose suggested

If your *AcceptZeroINR_RevertToPreviousDose* setting is switched off (0) the dose defaults to zero and the next test date is blank. A red question mark is displayed against the zero dose and the *Accept Dose* button is coloured red to indicate you must enter a dose or click on the red question mark to confirm you wish to leave it as zero. You are also prevented from accepting the dose if you do not enter a next test date.

Dosing	Contacts	Letters	s Drug	gs 🚹	Events	Procedures	Rev
INR:	r		Dat	te: 18/12	/2017 🗸 🏷		🛗 Mon
+/-							
	Warfarin	Sun Mon ⁺	Tue Wed	Thu Fri	Sat M		
mg		3 3	3 3	3 3	3		
					×		
					ф		
					Ø		Treatm
Dose	0.00 d ? (dos	e zero)	Ne	xt 25/1	2/2017 🚞	7 d √	
	Accept the	•					
Accep	ot dose New	INR/Dose			Tested	No Further Tes	sts 🗖

Dosing Con	tacts Lett	ers Drugs	Events	Procedures	6
INR:	×	Date:	25/12/2017	∓ √ Ю	Ĩ
					Tr
Accept INR	DNA Un-scl	hedule	Schedule	ed	
Graph Histo	ory Persor	nal Treatment	olans Que	stionnaires	Tes
	ory Persor	nal Treatment Dosing Instruc		stionnaires	Tes
Graph Histo	,	Dosing Instruc		stionnaires	Tes
Graph Histo Date	INR Dose	Dosing Instruc	tions in Sun Mon Tu	e Wed Thu F	Tes ri Sat 3 3

12.17.7 Dosed without an INR

13 Producing Messages Manually From DAWN

Letters, emails and faxes can be sent directly from the DAWN system. To set messages up to be sent automatically from the system, please go to the Setting Up Printing - User Guide section of the manual.

To manually produce a letter, email or fax from DAWN AC, click on the Letters tab on the main patient screen:

		A	Q Patient	🗮 Lists	🕿 Calls	E F	Reports	🌣 DAWN 👻	Managemen	it - 🤇
F	Patient 🗙							_		
	L TARGA	RYEN, D	aenerys - F	^r emale - 0	1/01/1987	- 012	2 345 6		Click here to move to t	e
	Risk Class	Low			Ŧ		Dosin	g Contacts	Letters	Drugs
	Pref. Clinic	Dalton Squ	uare Surgery GP	(S)	Ŧ					0
	Phone	015395630)91 - home		•		INR:	* <	Da	te: 20/1
	Age:	30					INK.	× *	Da	√ №
	Diagnosis	ATRIA	AL FIBRILLATION	1						
	Target Range	2.0 - 3	3.0							
	Start Date	01/10	/2016 - Indefinite				Ac	cept INR DNA	Un-schedule	
	Antionenulant	Cintha		(alain tout / Da	il. A.m.					

13.1 Letters tab

	RYEN, Daenerys - Female -	01/01/1987	- 012 345	6789 / but befor appointme	e authorising the dose	ab after entering an INF and creating the next ge will appear above to ssages.			
Risk Class	Low	•	Do	sing Contacts	Letters	Drugs 1	Events	Procedures	F
Pref. Clinic	Dalton Square Surgery GP (S)	•					Document	s	
Phone	01539563091 - home	T	- Sel	ect a Direct Print (l	.ocal printer) -	• -Sele	ct a custom m	essage to send	-
Diagnosis	ATRIAL FIBRILLATION	_		To print a letter manually DAWN system, click her down and choose a letter This prints the letter to o local printers.	e to scroll er.	the patien physician message. If you wo	t to the phone list, s scroll down and c	ustom message, eg, se send an email or fax to click on the required cus custom message within ur support team.	a stom
Target Range	2.0 - 3.0		1	Dosing	Instruction			29/11	/201
Start Date	01/10/2016 - Indefinite			u 0	Instruction Instruction			29/11 29/11	
Anticoagulant	Sinthrome Mixed Tabs (plain text / D	aily Avg)			Instruction			29/11	
5	ŭ	, ,,		9	Instruction			29/11	/201
Treatment Plan	1 > of 1 active	View	1	Dosing	Instruction			29/11	/201
Risks			1	Dosing	Instruction			29/11	/201
THORO									

13.2 Letters Tab - Dose Not Authorised Message

Dosing	Dosing Contacts Letters Drugs 1 If a user clicks on the Letters tab when the patient's treatment record has not been authorised, e.g., they are in the middle of being dosed, then the following message is displayed, telling the user that a message containing dose and next test date information cannot be printed yet.						
	Direct Print (Loc		-Select a cu Click here to see what happens when a user	ntil the next appointment has been created	d		
	Descripti	on	tries to print a letter or produce a message on this screen	Created			
1	Dosing In	struction		11/12/2017 13:59			
9				29/11/2017 17:11			
9	Dosing In:	struction		29/11/2017 17:11			
9	Dosing In:	struction		29/11/2017 17:00			

13.3 Pop Up Warning Mesage



14 Handling Non-Attendance for a Warfarin or Other Vitamin K Antagonist Patient

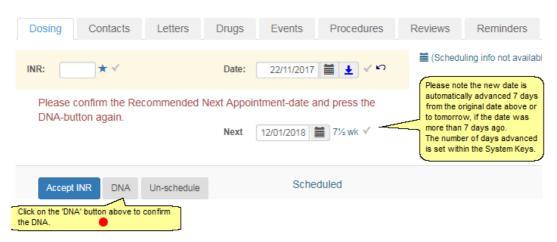
There are two ways of rescheduling patients within DAWN:

Mark the patient as a DNA in their main patient screen

OR

Bulk reschedule a batch of patients within a list view

14.1 Confirm DNA Selection



14.2	Show	the	DNA	Count
------	------	-----	-----	-------

Dosing Co	ntacts	Letters Drugs	Events	Procedu	res l	Reviews	Reminde	ers
INR:	~	Date: 16	/01/2018	¥	🛗 Tue 1	6/01/2018, (09:00 - 09:15: C	Outre:
					Treatme	nt Notes	9	
	ain on 'DNA' butt rm the DNA.	n-schedule	Scheduled	ł		count. Note to the patient's to Patient No preventing fu		et
						operator to in patient's abs	vestigate the ence.	
Graph Hist	ory Pe	rsonal Treatmen	nt plans	Questionnai	res		view a patient	Jce
Date	INR Dose	Dosing Instruction	ons			Time	V DNA In rang	ge
Tue 16/01/2018	0.0 0.00	I					2	
• Tue 17/10/2017	2.1 3.50	Warfarin Pills (1 mg) Pills (3 mg) Pills (5 mg) Total mg	¹ / ₂ ¹ / ₂ 1 1	ue Wed Thu ½ ½ ½ 1 1 1 ½ 3½ 3½	Fri Sat ¹ / ₂ ¹ / ₂ 1 1 3 ¹ / ₂ 3 ¹ / ₂	12 wk		
Tue 25/07/2017	2.4 3.50	Warfarin Pills (1 mg) Pills (3 mg) Pills (5 mg) Total mg	¹ / ₂ ¹ / ₂ ¹ / ₂ ¹	ue Wed Thu ½ ½ ½ 1 1 1 ½ 3½ 3½	Fri Sat ¹ / ₂ ¹ / ₂ 1 1 3 ¹ / ₂ 3 ¹ / ₂	12 wk		

TIR% Above Average	VGR Above Max Average Diff	0.3	D	osing Cor	tacts	Let	tters	Drugs	Even	ts	Procedu	ures	Reviews	F
Risk Class	Low	T	IN	R: 🚺 🖈	V		[ate: 0	9/01/2018		ŝ	🛗 Tue	09/01/2018	8, 08:15
Pref. Clinic	Outreach Nurse Clinic Barnet	Ŧ										Treatm	ent Notes	0
Phone	111-222-4444 - home	T												
Age:	82			Click here on DN. Non Attendance.		to record a								
				Accept INR	DNA	Un-sc	chedule		Sched	uled				
Diagnosis	ATRIAL FIBRILLATION													
Farget Range	2.0 - 3.0		G	raph Histo	ory	Perso	nal	Treatme	ent plans	Q	uestionna	aires	Test Re	sults
Start Date	24/06/2006 - Indefinite		Add	d history data										
Anticoagulant	Warfarin 1, 3 and 5 strength tablets			Date	INR	Dose	Dosir	ng Instruct	ions				Time	DNA
reatment Plan	1 > of 1 active	Report	1	Fue 09/01/2018	0.0	0.00 d								
Risks			0	Tue 17/10/2017	2.1	3.50 d	Pills (Warfarin 1 mg) 🔵 3 mg) 🔵 5 mg) 🔵	Sun Mon 1/2 1/2		Wed Thu ½ ½ 1 1	Fri Sat 1/2 1/4 1 1		

14.2.1 Manually marking a patient as non-attending

14.3 Patient Non-Attending

Risk Class Treatment Plan	Hgn		Dosing Contacts Letters Drugs Events Procedures Reviews Remind	ders
Pref. Clinic	Doms Anticoagulant Clinic			:00 - 17:(
Phone	0114267675 - home		INR: ★ ✓ Date: 11/01/2018	
Age:	5 treatment plan is marked as non attending and no more DNAs or treatments can be performed until the patient's treatment plan is reactivated.		Click here to view how to bulk reschedule patients	
Diagnosis Target Range	ATRIAL FIBRILLATION status change can be set within the system keys.	In attending and no more DNAs or treatments can be performed until the patients treatment plain is reactivisted. The number of DNAs before a status change can be ast within the system keys. Image: Construction of the system change can be ast within the system keys. -3.0 Accept INR DNA Un-schedule Image: Construction of the system keys. Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Image: Construction of the system keys. -3.0 -3.0 Int2012 - Patient is not attending Construction of the system keys. Int2012 - Patient is not attending Construction of the system keys. Int2012 - Date INR Date INR	Accept INR DNA Un-schedule Scheduled	
Start Date	01/01/2012 - Patient is not attending			Notes This is the sumulative BCC 1 DNA count so
Anticoagulant	Warfarin 1, 3 and 5 strength tablets		cumulative	
Treatment Plan	\$ 1 > of 1 NonAttending Report		far	\$0
Risks	got cancer		Date INR Dose Dosing Instructions Time	DNA
1			Thu 11/01/2018 0.0 0.00 d	3
O C Dava Lian	iter Dunnet RAURI 40000041444		Wed 27/09/2017 2.9 2.36 d Warfarin Sun Mon Tue Wei Thi Sat 8 wk Pills (1 mg) 2 ½ 2	

14.4 Using List Views To Reschedule Anticoagulation Patients

Please Note - Contact the support team before using this option as the system can be set up to print a DNA letter for each patient automatically when they are rescheduled.

	î	Q Patient	🔳 Lists	🕿 Calls	Reports	🌣 DAWN 👻	Manageme	nt -	- 🔍	R				
View 🗙														
		N	Vorklist /	Annual Review	W Hold Mor	nitor Listview	In reprocessi	ng Poo	or Performin	g Patient List	Rem	inders new	No	n attendance
Filter Records		P	ost Clinic Ch	eck Statu	us No Next	Test Date	Procedures	Events	Risks	Dabigatran			atm	Notes
With	Ŧ	The list is o	a unconthe)									Looking at the Non-Attendance	list vie	ew,
Late		filtered on	'late',				With La Today	ate				we can see a list here who are lat		
	~	but this car changed, e	- 17 me				Today					appointment	6 101 6	" J
Dates		days late',	etc ords	found.								•		
		~	Ensure y	ou select 'Any	Date' when			_	instly click in	to each patient re	cord in th	is too list and		
(Any date)	~			Non attendar				c	check whethe	er you want them	to be auto			
			! Priority	- schedule	manually bef	fore running	bulk resched		escheduled o	or DNA them manu	ially.			
Clinic	>	-	First Priori	ty Reason	Unit No		Name)ue	TIR	DNACount		Clinic
Therapy			INR Trend		C38166		FARRINGTON	Katherine		09/01/2018	100%		0	Doms Antic
Петару	>		Risk Class:	High	9090990	0909099	HAMILTON, Ed	iward		09/01/2018	100%		0	Outreach N
HC Professional/Team	>													
			Late - OK	to bulk res	chodulo									
Patient Group	>		Late - On	to buik res	schedule									
Reschedule DNA's	~		First Priori	ty Reason	Unit No		Name		0)ue	TIR	DNACount		Clinic
					P91253		BUSBRIDGE,	Julie		09/01/2018	100%		0	Doms Antic
					R22148		GAYNOR Geo	rge		09/01/2018	100%		0	Doms Antic
Days to advance			To reschedu		s in the right-hand			6		09/01/2018	100%		0	Dalton Squa
Days to advance		ſ						hard		09/01/2018	86%		0	Doms Antio
7		Í	Reschedule next appoint	ment on by a w	eek (or however)		pecify in the							
-			Reschedule	ment on by a w			pecify in the			09/01/2018	89%		0	Doms Antic
7			Reschedule next appoint 'days to adv Once the par patients rem	ment on by a w ance' box). tients are resch		many days you s isappear from the	e list. Any			09/01/2018	89%		0	Doms Antic

- Always ensure the date is set to 'Any Date' to avoid missing patients who are overdue their appointment.
- 14.5 Checking that all non-attending patients have a scheduled next appointment

List View 🗙	
Filter Decords	WorklistAnnual ReviewHold Monitor ListviewStatusNo Next Test DateProceduresE
With Late A Gweeks late	Filter Date
1 week late 2 weeks late 4 weeks late Late ! Priority - reschedule manually	There are no records to display Select this filter and if any
Test date advanced but no free slot in diary Late - OK to bulk reschedule Persistent Non Attenders Rescheduled Successfully Today	
Rescheduled successfully any date 1 Previous DNA 2 Previous DNAs 3 or more previous DNAs	

15 Interfaces

Outbound Interfaces

Inbound Interfaces

15.1 Outbound Interfaces

If you have an outbound interface from DAWN to another system such as sending a patient treatment summary then it is important to check that the DAWN outbound interface is running. The status of the outbound interface is visible on the DAWN front screen. The status of the outbound interface should be checked at least 3 times a day. Once in the morning, once in the afternoon and once at the end of the working day.

If the outbound interface is working correctly then the status "Running" will be shown on the

Outbound Interface X Messages Last Error Message F Pending: 0 No error to report s Awaiting Acknowledgement 0 Delivered Today: 0 Undeliverable 0 Ċ 30 seconds Interval Acknowledgement folder Undeliverables folder Active server (IdentiKey) B976.C3DC.51CB.9D19.B4F1.9787.4978.0C73 (This server is already activ Run Interface in Application (Virtual Dir dawnac Logged in Application (Virtual Dir) You are currently logged in to the Application running in dawnac The outbound interface is also running in this application (virtual dir) Stop 🔲

front screen in DAWN.

If the outbound interface has stopped running then the status "Stopped" will be shown on the

		There messa to be s	ges waitin	9	
Messages	Interface	E	SMS	Fax	Mail
Waiting to be sent	5 ´	0	0	0	0
Failed to be sent	0	0	0	0	0
Outbound Interface Sta	atus				

front screen in DAWN.

15.1.1 Starting the Outbound Interface

To start the outbound interface you will need the correct permissions in DAWN. The DAWN system lead should have the permissions to start the outbound interface and the 4S DAWN Support Team can also do this for you.

DAWN	ń	Q Patient	🗮 Lists	🕾 Calls	Reports	🗢 DAWN 🗸	Management 👻	🕃 Help 👻	0		
Version 8.0.0	(1357)						Normal Tab Lookup tabl				
			1	Anticoagulatio	n			-			
Welcome DAV	Version 8.0.0 (1357) Lookup tables Clinic View settings Message Manageme Printing Velcome DAWN Vorklist Vorklist Printing Reports Audit & security Patients with Dawn Interface No INR Tota Click to select the outbound Interface	anagement •	۸		Di						
'System Manag	er'.			with user pro		No INR Toda	Audit & sec Dawn Interf Click to select the outbour	ace	al/ Hold Monitor Inbound Interface Config	guratior	D
Conditions of	Jse				θ	Incomplete Visits Missed Test		87	Inbound Message Parar Outbound Interface Test Result Monitor	neters	

Once the menu structure is open (as in the example above), click on the OutboundInterface option.

	1	Last Error Message	*	Failure Notification	4
ending:	5	No error to report		Send notification of failure emails to:	
waiting Acknowledgement	0			Dalton Square Surgery - Nicol Brenda	♥ →
elivered Today:	0			11 SHEEN COURT - McGroarty Feargal	✓ →
ndeliverable	0			(None selected)	v
					/
Refresh					
terval	30 seconds		DAWN to send interfac can be	mail server has been configured in then email notifications can be set up d a notification that the outbound ce has stopped running. This email sent to up to 3 people. If you would re information on this feature or some	
cknowledgement folder			help se	etting it up then please call the 4S Support Team on 015395 63091	
ndeliverables folder			~		
ctive server (IdentiKey)	B976.C3DC.51CB.9D19.B4F1.9787.497	78.0C73	(This server is alread	ty active)	
un Interface in Application (Virtual Di	dawnac				
ogged in Application (Virtual Dir)	You are currently logged in to the Applica	tion running in DawnAppPool_1			
o start the outbound	The outbound interface is running in: Http	://localhost/dawnac/index.html?NoLoadBalance=1			

15.1.2 Outbound Interface Screen

Now return to the DAWN front screen and you should see that the Pending Messages to be sent by the interface have reduced (and will keep reducing until the count is 0) and the status is now "Running".

15.1.3 Outbound Interface Running

Outbound Interface X					
Messages	4		Last Error Message	*	F
Pending:	0		No error to report		s
Awaiting Acknowledgement	0				
Delivered Today:	0				
Undeliverable	0				ŀ
Refresh					
\$					
Interval	30 seconds				
Acknowledgement folder					
Undeliverables folder					
Active server (IdentiKey)	B976.C3DC.51CB.9D19.B4F1.9787.4	1978.	0C73	(This server is alread	ty active)
Run Interface in Application (Virtual Dir	dawnac				
Logged in Application (Virtual Dir)	You are currently logged in to the Appl	icatio	n running in dawnac		
	The outbound interface is also running	in th	is application (virtual dir)		
	Stop 🗖				

15.1.4 Generating an outbound message

DAWN is able to convert messages and output them to a location on the DAWN server.

Two file types that DAWN is able to output to are:

- Flat files
- PDF files

Please contact the 4S DAWN support team for help with this feature.

15.2 Inbound Interfaces

If you have inbound interfaces running, it is vital to check for messages which have gone on hold.

There is a tally on the front screen for this.

Inbound Interface	۸
Status	Count
On Hold	23
Total Queued	23

15.2.1 Viewing Unmatched Interface Results

Your DAWN system may be linked to one or several other systems using interfaces.

You can view two types of unmatched interface results within DAWN:

- The Hold Monitor displays messages that the interface has been unable to fully process.
- The Test Result monitor displays test results processed by the chronic disease monitoring test result interface but which could not update the patient's latest appointment.

The number of interface messages that have not been loaded into DAWN are shown on the front-screen and there is a link to access them.

You can also access the Hold Monitor and Test Results Monitor via the Management Menu:

🕈 DAWN 👻	Management -		R	
	Normal Tables			
Worklist	Lookup tables			
	Clinic View settings			
Patients with	Message Management 🕨 i		Explanation	
No INR Today	Printing		Awaiting result / yet to	
	Rep(Click here to access the	hold	tend	
Incomplete Visits	Audit & Security	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ose needs entering	_
Missed Test	Dawn Interface		Hold Monitor	
wisseu rest	System 🕨		Inbound Interface Configu	uration
Active Treatment Play	Coded Comments		Inbound Message Param	eters
			Outbound Interface	
	k here to access the test	-	Test Result Monitor	

15.2.1.1 Hold Monitor Guide

The Hold Monitor displays messages that the DAWN interface has been unable to fully process. Depending upon the types of interface you have configured, this may include patient demographics messages, admission and discharge messages, INR result messages and other Test result messages.

You must have a procedure in place to ensure the Hold Monitor is checked on a regular basis. Please refer to the DAWN Clinical Framework Interface Safety Checklist to ensure you have incorporated all the recommendations for the DAWN interface into your procedures. A copy of the Interface Safety Checklist will have been provided as part of your interface configuration and is also available on request by contacting 4S Support.

Sorting: Search for:	Disease	Oldest area	nrst			Newest	irst 🔻	ByUnitNo	Last Name	1	- L	astName	essageTyp	H	В	y Hold R	eason	
ick here to mark	UnitNo	Click here the patient	to go to record)							Enter search criterie and click search for particular messages		S	ear
ady for deletion	Patient	essage Type	Inserted Date	Last Name	First Name	Unit No	National No	Hold Reason		DoB	Result Datetime	Result Numeric			Appointment Datetime	DATE of TEST	Hospital	A
3 9 3	WIL 🔻 🕇	ORU^RI	19/01/2	WILLI	Lisa	C72!		Existing result for same day		19/	201801	1.5	2	F		2011		
= e S	WIL 🔻 🔶	ORU^RI	19/01/2	WILL	Julia	H58 ⁻		Current treatment plan has status of	suspended	02/	201801	1.9	2	F		2011		
= 9 C	CAI 🔹 🔿	ORU^RI	19/01/2	CAME	Liam	W13		Existing result for same day		22/	201801	2.6	2	F		2011		
	WIL ▼ → Click here to re-process the message ●	ORU^RI	19/01/2	WILLI	Julia	H58 [.]		Current treatment plan has status of	Admitted	02/	201801	1.9	2	F		2011		

15.2.1.2 Return to hold monitor

	t: WILLIAMS Lisa (19/03/1970) CLAYWOOD DRIVE, LEEDS - Riverside,		5688971605							
	Dosing Contacts Letters	Drugs 1 Ev	vents Procedure	es Reviews	Reminders Groups	Docu				
	INR: 2.3 In Range 🗸	Date: 19/01/2018	l √ KΩ	🗎 Fri 19/01/2018	■ Fri 19/01/2018, 08:00 - 08:15: Outreach Nurse Clinic Bar					
	₩- Warfarin Sun Mon T		No warnings	No warnings						
	Pills (3 mg)	½ 1½ 1½ 1½ 1½	 ★ ★	Treatment Notes	s 🟮					
•	Total mg 2 1.5 1 Dose 1.57 d√ No dose change		6 8							
	Accept dose New INR/Dose	Т	ested No Furthe	er Tests 🗖						
	Click here to return to hold monitor ersonal	Treatment plans	Questionnaires	Test Results	Interface Warnings 1					
	→ 1-1/1									
	ResultDatetime ResultSample	ResultTestName	ResultNumeric	ResultCharacter	HoldReason					
	201801190930 18C72597	INR	1.5	1.5	Existing result for same	day				

15.2.1.3 Searching For & Displaying Records

Located at the top of the Hold Monitor screen is a panel to allow the user to search for and display specific records in the Hold Monitor:

Records can be searched and displayed by the following criteria:

- Disease area Where you are using DAWN to monitor more than one disease area (e.g. Anticoagulation and Growth Factors or Rheumatology and Dermatology), the user is able to search for messages for a specific disease area.
- 2. Hold Reason This enables the user to search for and display messages sent to the Hold Monitor for a specific reason. This proves useful if you wish to view and resolve messages of a specific reason.
- 3. Last Name This enables the user to search for messages for a specific patient based on their last name.
- 4. Unit Number This enables the user to search for messages for a specific patient based on their Hospital/Medical Record number.

The panel also allows for the displayed records to be sorted by newest first, oldest first, unit number, last name, message type or hold reason.

For example, the following screenshot shows those Hold Monitor messages that contain the expression 'Existing result' in the hold reason. The messages are sorted by patient last name.

Hold Monitor	×										
Search Q											
Sorting:		Oldest	first			Newest	first	ByUr	itNo	Last Name	
Search for:	Disease	area					•	HoldReason	Existing result		
	UnitNo										
		-	Inserted		First	Unit	National				Re
	Patient	Туре	Date	Name	Name	No	No	Hold Reason		DoB	
🗏 🔮 🖸	WIL 🔻 🔶	ORU^RI	19/01/2	WILLI	Lisa	C72!		Existing result for sar	ne day	19/	20
= § 3	CAI 🔻 🔶	ORU^RI	19/01/2	CAME	Liam	W13		Existing result for sar	ne day	22/	20

15.2.1.4 Reviewing the Messages

Each message on the Hold Monitor should be reviewed by a competent DAWN user before deciding on the appropriate course of action for the message.

The Hold Monitor gives the user the option of either deleting or re-processing messages. Messages should only be deleted if the user is sure that the information contained within the message is already against the patient in DAWN or there is no further action required. Where appropriate, the message can also be re-processed following action by the user to resolve the original problem. These actions can be performed on a message by message basis or as a part of a group of messages.

Hold Monitor 🗙	
Patient	WILLIAMS Lisa (19/03/1970) # C72597 / 5688971605 V >
Message Type	ORU^R01
Inserted Date	19/01/2018 11:49
Last Name	WILLIAMS
First Name	Lisa
Unit No	C72597
National No	
Hold Reason	Existing result for same day
PA S Id	<i>i</i> i
PostCode	
DoB	19/03/1970
Result Datetime	201801190930
Sample ID	18072597
TestName	INR
Result Numeric	1.5
Result Character	1.5
Result Notes	
Result Status	F
Appointment Datetime	
DATE of TEST	201801190930
Prior Hospital No	
Active	Click List to return to the hold
Reprocess	S monitor
ж < > ж 🖄	Delete 🗉 List 🛔 Print

15.2.1.5 Deleting Messages From The Hold Monitor

Having reviewed the Hold Monitor messages, it may be that no further action is necessary and the messages can simply be deleted from the Hold Monitor. To delete individual messages or a selection of messages, click on the trash can next to the message(s) to be deleted and then click on the 'Delete marked records' button. Click 'OK' to the confirmation message to continue and delete the messages or 'Cancel' to return to the Hold Monitor without deleting the messages:

					Delet	e? sure you want to delete the marked records?		
orting: earch for:	Old Disease area UnitNo	lest first		N	lewest first		lick OK to delete	OK Cancel me
CReprocess all 4 rec Patient		all 4 records Message Type	Inserted Date	e marked rec Last Name	First Name	Unit No	National No	Hold Reason
🖹 🥞 💋 🛛 WILLIA	AMS Lisa (🔻 🔶	ORU^R01	19/01/201	WILLIAM	Lisa	C72597		Existing result for same day
🖥 😫 💋 🛛 WILLI	AMS Julia (🔻 🔶	ORU^R01	19/01/201	WILLIAM	Julia	H58103		Current treatment plan has status of suspended
E 😭 🖸 CAME	RON Liam 🔻 🔶	ORU^R01	19/01/201	CAMERC	Liam	W13319		Existing result for same day
🖹 😫 💋 🛛 WILLIA	AMS Julia (🔻 🔶	ORU^R01	19/01/201	WILLIAM	Julia	H58103		Current treatment plan has status of Admitted

To delete all messages shown in the list, click on the 'Delete all records' button and then click 'OK' to the confirmation message to continue and delete the messages or 'Cancel' to return to the Hold Monitor without deleting the messages:

15.2.1.6 Re-processing Messages From The Hold Monitor

Where corrective action has been taken within DAWN to resolve the reason for a message being sent to the Hold Monitor, the user may decide to re-process the message from the Hold Monitor. To re-process individual messages from the Hold Monitor, click on the re-process icon next to the message:

arch Q								
rting:	0	dest first		N	ewest first			ByUnitNo Last Name
arch for:	Disease area					٣	HoldReason	
	UnitNo							
Reprocess all	4 records 📗 🟛 Delet	e all 4 records	Delete	e marked rec	ords			
	4 records 🗍 🗂 Delet	e all 4 records Message Type	Delete Inserted Date	e marked rec Last Name	ords First Name	Unit No	National No	Hold Reason
		Message Type	Inserted Date	Last	First	Unit No C72597		Hold Reason Existing result for same day
Pat	tient	Message Type ORU^R01	Inserted Date	Last Name	First Name Lisa			

Where corrective action has been taken within DAWN to resolve each of the displayed messages, the user has the option to reprocess all of these messages from the Hold Monitor as a batch. To achieve this, click on the 'Reprocess all' button located above the list of messages:

On clicking either the icon to re-process an individual message or the 'Reprocess all' button, the relevant message(s) will disappear from the list.



NOTE: Although the message will disappear from the Hold Monitor when the reprocess icon is clicked, it will not actually be re-processed until another

^r message is received over the interface. The re-process icon simply flags it to be re-processed the next time the interface is processing a new message.

15.2.1.7 Reasons for messages going on hold

The main reasons that a message may be put on hold include:

- Invalid data in the message, for example a zero INR or an invalid appointment date
- No matching patient within DAWN
- More than one matching patient within DAWN
- The patient does not have an active treatment plan

If you have an Anticoagulation INR-only interface, additional reasons that a message may be put on hold include:

- The result sample date is not in the recent past, for example it is more than 14 days before today. (The exact number of days is configurable within DAWN)
- · Different result sent for same day for same patient
- Patient has a more recent result already
- · Patient has a previous test that has not yet been authorised
- The result date is before the treatment plan start date

If you have a chronic disease monitoring test result interface, additional reasons that a message may be put on hold include:

- Result date is more than N days in the past (where N is the Sample Date Warning Threshold for the relevant Test definition in DAWN)
- Unrecognised test name
- Result date is in the future

If you have a Demographic Next Appointment interface, additional reasons that a message may be put on hold include:

- The appointment date is too far in the past or future
- The patient has an existing appointment with a status of 'Tested' or 'DoseSet' and so their next appointment cannot be set
- The patient is deceased
- The diagnosis does not exist in DAWN
- An attempt was made to update a doctor that belongs to a different organisation
- · Multiple matches were found when identifying a doctor

• The Health Authority has not been set when adding a new organisation

If you have an ADT interface, additional reasons that a message may be put on hold include:

- The patient is deceased
- The patient has a Stopped treatment plan (the interface is configured to place ADT messages on hold in this situation)
- The patient's treatment plan has a status that is incompatible with the ADT message (for example, an admission message is received for a patient who is already flagged as admitted)
- An invalid admission / discharge date/time has been supplied

15.2.1.8 Test Result Monitor Screen

Search Q									\sim									>
Sorting:	1		Oldest first			Newes	t first		Bj	UnitNo	Last Name	ByMessa	geType		B	y Hold Re	ason	
Search for:	-	isease area InitNo						• Hold	IReason		LastNar	1e					_	
	U	nitNo													time that the t was receiv		1	Search
C Reproces	s all 6 reco	rds 🛙 📋 De	elete all 6 rec	cords	🛱 Delete ma	arked records								or the	e test was n is displayed		~	
	Message Type	Inserted Date	Last Name	First Name	Title	Sex	DoB	Unit No	National No	Prior Unit No	Hold Reason	Sample ID	TestName	Result Numeric	Result Character	Result Status	Result Datetime	Patie
B 8 3	ORU^RC	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		Result deleted in lab system. Please investigate and update DAWN record if necessary.	C3415	RBC	4.09	4.09	D	201705	Y
= 9 C	ORU^RC	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		Result deleted in lab system. Please investigate and update DAWN record if necessary.	C3415	HGRRR	114	114	D	201705	T
i 9 🖸	ORU^RC	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		Failed to add test result - You cannot enter a result for a datertime that lies in the future.	C3415	CB_TCK	114	114	F	201705	¥ -
3 9 C	ORU^RC	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		Patient already flagged as deceased on DAWN. Manual resolution required	C3415	CB_TIG(114	114	F	201705	¥ .
i 9 🖸	ORU^RC	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		No test result received	C3415	WBC			F	201705	
B 8 0	ORU^R0	16/05/20	Flintston	Fred			01/01/19	TEST02	4403664		No test result received	C3415	WBC			F	201705	Υ

The main reasons that a test result may be put on the Test Result monitor include:

- The patient has a Closed(Unlock) visit
- A software problem has occurred

15.2.2 Interface Sending System

Depending on the types of interface you have configured, you will have one or more front screen tallies that will highlight if there is an issue with your interface that has originated from your sending IT system e.g. laboratory, PAS system rather than the DAWN system.

The front screen tally will show the date and time of the last message received by DAWN. If the date and time is older than you expect, this may indicate an issue between your sending system and DAWN. Please contact your IT department who will be able to investigate any issues with your sending systems.

16 Setting Up Printing - User Guide

If you wish to print from DAWN manually from a patient record, no setting up is required. DAWN will simply use your internet explorer page settings. You may wish to remove the header/footer and margins as required.

DAWN AC allows you to automate the generation of messages in response to certain events such as authorising a dose, scheduling a test or rescheduling a non attender. For example, you might configure DAWN AC to print a dosing instruction automatically when you accept a patient's dose.

Depending on certain settings and preferences, each message can be sent to a printer, faxed, emailed or forwarded to the Message Center for telephoning.

To enable automatic and bulk messaging, you must create a Print Station in DAWN AC and associate this Print Station with your organisation and specific locations within your organisation. When each user logs in, any messages that are triggered in response to things they do (doses they accept, non attenders they reschedule) are handled by their organisation's Print Station.

These messages are printed, faxed or emailed by a separate application called DAWNMailer, which connects to a specific Print Station and sends out all the pending messages to the right location.

Drivers for all printers at each location should be installed on the server. Should you have identical printers at different locations, the drivers would need renaming to reflect this.

Steps needed to be set up for Automatic Messaging:

- 1. Setting up a print station
- 2. Setting up DAWNMailer to process messages for a print station
- 3. Setting up a new paper type
- 4. Mapping printers with PrinterPaperType
- 5. Setting up a new printing location
- 6. Selecting paper type in message template
- 7. Selecting paper type in message event

16.1 Adding/Editing a Print Station

Lists	🕿 Calls	Reports	🗘 DAWN 🗸	Management -	🕄 Help 🗸	۲	
				Normal Tab Lookup tabl	es 🕨		
A	Anticoagulatio	n I	_	Click here to print station	add or edit a		
		1	Worklist	Printing			Print Station Print Station Organisation
DAWN	with user pro	file	Patients with	Audit & sect		Jug	Printer Paper Type
		~	No INR Today	System Coded Com	> >	0	Awaiting result / yet to attend
			Incomplete	Coucu Com	inonto	0	Dose needs entering

The PrintStation handles all Event Messages triggered by users belonging to any of its supported organisations. However, if no DAWNMailer is running, the messages remain queued inside the print station. You need to set up the DAWNMailer to send out the messages.

16.1.1 List of print stations

DAWN	ŵ	Q , Patient	🗮 Lists	🕿 Calls	Reports	💠 DAWN 👻	Management -	🕄 Help 🚽	۲
Print Station X									
Search Q									
Search for: N	lame						Remote IP address(
List of	exisitng pr	int stations]					
Search for: Name Remote IP address(List of existing print stations Name Remote IP address(es) Locked Identification Key			tion Key						
😑 🛯 New Station	n						836D2BF5E7C9FC77		
📑 😭 🛛 Dawn Hosp	oital						A65F9FE	DEAC094D77	
K M Down	© New	lick to add a new p	Print						

16.1.2 New print station form

DAWN Q.		
Print Station 🗱	Enter a print station name	
Name		You will need to save this new record before you can add related records
Remote IP address(es)		
Locked	Click to generate a unique identification key for this print station	
Identification Key	Create random key	
Notes		
Return Email		
You will need to save this new	record before you can add related records	
✓ OK X Cancel		

16.1.3 Print station with unique key

DAWN				🕿 Calls	Reports	🌣 DAWN 👻		🕄 Help 👻	0
Print Station 🗙									
Name Remote IP address	es)	New						ew record Printe items to display	
Locked							automatic	ink. This list is ally populated by	
Identification Key		C44E5	F26777211A	D	Crea	ate random key	DAWNMe	iler	
Notes									
Return Email	Add supp	orted organisations	•						
Add a new record	Supp	oorted organi	isations						
There are no items to	o displa	у							
ж < > ж с	New	î Delete 🛓	Save 🔳 L	.ist 🖨 Prin	t				

	A	Q Patient	🗮 Lists	🕿 Calls	Reports	💠 DAWN 👻	Management 👻	🕄 Help
rint Station 🗙 🛛 Pr	int Statio	on Organisation	n X					
Please select	t a O	rganisati	on for t	he table	Print Sta	tion Orgai		Q
You can select more th	nan one	item						
Alegent Health								
The Hospital					Select the orga			
ST JOHNS MEE	ICAL CE	ENTRE		-		station		
St James Hospit	al							
11 SHEEN COU	IRT							
18 DEBADALE	HOUSE							
Dethick Court Pr	actice							
98 Click OK ●	GROV	E						

16.1.4 Choose which organisations can use this print station

16.2 Setting Up DawnMailer to Process Messages for a Print Station

DAWNMailer is installed in the Polar Studio/Webroot folder on the DAWN AC server. It can be run on the server itself or it can be copied to another machine (perhaps a dedicated PC in the anticoagulation department) and run there instead.

If you intend to fax messages, DAWNMailer must reside on a computer that has a modem attached to a phone line. You must also install Microsoft Fax. Microsoft Fax is part of the Windows operating system.

To set up DAWNMailer

- 1. Create a DAWNMailer folder on the PC where you intend to run DAWNMailer.
- Copy the DAWNMailer.exe and HTMLPrinter.exe (if present) files from the Polar Studio/ Webroot folder to your new DAWNMailer folder.
- 3. Double click DAWNMailer to open the application. DAWNMailer attempts to start automatically. At this point you may receive an error message as DAWNMailer is not correctly configured yet.
- 4. Click OK to close the error message. The DAWNMailer dialog is displayed in Stopped mode. Fill in the fields as follows:

Enter the http address for Dawn AC e.g. <u>http://DawnServer/DawnAC</u> (where DawnServer is the name of your server – do not include the index.html or			default. You ca print use different messages and o	er you want to use by an corfigure Dawn AC to ent printers for different different locations. This is eparate factsbeet
polarserver.asp.page name)	🗃 DawnMailer		and the second sec	
If you want DawnMailer to	Server address Use CDOSYS (recommended	। जा		
send emails enter the address of your SMTP server	CDOSYS SMTP server	hp LaserJet 1320 PCL 6	-	Submit
Open your Print Station in Dawn AC, highlight the Identification Key and press Ctrl + C to copy it. Click into	Interval (sec.)	5	_	Test Mail Test Email Test Fax
this field and press Qrl + V to paste in the key. This configures this copy of	# messages sent Total	0 Printed Email	When all the settings have been entered, clic to start Dawn Mailer	
DawnMailer, to process messages for this Print Station.	Time of last message	Fax	<u> </u>	
If you share Dawn AC with other organisations, each organisation can have its own print station and DawnMailer.	Error: -2146697210, The syste	em cannot locate the object sp	pecified.	Start

- 5. Press the Test Mail, Test Email and Test Fax buttons to print, email and fax a test message to ensure DAWNMailer can print, email and fax successfully.
- 6. Press the Start button to start DAWNMailer. DAWNMailer starts processing any messages for its corresponding print station.

16.3 Adding/Editing Paper Types

	t 🗮 Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management 👻	🕄 Help 👻	@ •
Version 8.0.0 (1357)	les 🕨						
	,	Anticoagulatio	n		Clinic View Message M	settings 🕨 kanagement k	
Welcome DAWN			1	Worklist	Printing	×.	Print Station Print Station Organisation
You are currently logged on as 'S 'System Manager'.	Support DAWN	with user pro	file	Patients with	Au Click to ad paper type Dawn mem	es 🔶 🗍	Printer Paper Type
Location for printing	Office			No INR Today	System Coded Com	ments	0 Awaiting result / yet to attend

Click on the OK button at the bottom of the form to save the paper type and be taken back to the list of paper types.

/N📃 Lists 🖀 Calls Beports 🔁 DAWN 👻 🕄 Help 🗸 DAV Management -Printer Paper Type 🗙 Name A4 Blank A4 Colour A4 Plain Economailer1 Tomplato2 Name A4 Blank Order Nr 0 In Use × There are no items to display Add new paper type • ₩ < > ₩ O New 💼 Delete 🛓 Save 🛛 🗐 List 🖌 🚔 Print

16.3.1 List of paper types

16.3.2 New paper type form

DAWN	Q •
Printer Paper Type 🗙	
Name Order Nr In Use	50
You will need to save	this new record before you can add related records
lick OK to save the	
paper type	
✓OK X Cancel	

16.4 Mapping Printers to Locations and PaperType

Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management -	🕄 Help 🗸	۲	.
				Normal Tab Lookup tabl			
F	Anticoagulatio	n		Click here to print station	add or edit a		
		1	Worklist	Printing		and a second	Print Station Print Station Organisation
DAWN'	with user pro	file	Patients with	Audit & sec		ling	Printer Paper Type
			No INR Today		Þ	0	Awaiting result / yet to attend
			Incomplete	Coded Coll	IIICIIIS	0	Dose needs entering

16.4.1 Select a print station

Search Q				
Search for: Name		Remo	te IP address(
Choose a print station				
Name	Remote IP address(es)	Locked	Identification Key	
🗐 🏐 New Station			836D2BF5E7C9FC77	Create random key
🗐 🏐 Dawn Hospital			A65F9FDEAC094D77	Create random key

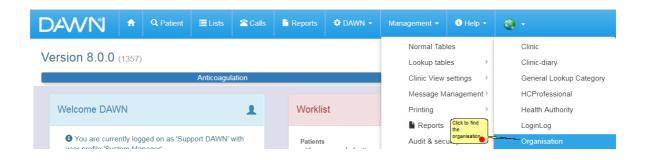
16.4.2 List of printers

293

Print Station X Printer X				
\\MM-DC-01\HP Universal Prin	nting PCL 5	\\MM-E	C-01\HP Un	iversal Prin*
\\MM-DC-01\HP Officejet 6000	E609a Series	\\MM-E	C-01\HP Off	ficejet 6000
▶ \\MM-DC-01\Brother MFC-946	0CDN Printer	\\MM-E	C-01\Brothe	r MFC-946
\\mm-dc-01\Epson WF-5620 S	eries(Network)	\\mm-c	lc-01\Epson	WF-5620 S 🗸
4			10000000	•
Name Device Name			r MFC-94600 r MFC-94600	
Notes				
Paper Type Order Nr In Use	(None sele	cted)	Select a paper ty	Set the order of this printer

16.4.3 Map the printer to locations and paper types

16.5 Adding/Editing Printing Locations



16.5.1 Search for the organisation

	Q Patient I≣ Lists 🕿 Calls	Reports 🗘 DAW		🖲 Help 👻 🧕 👻			
Organisation 🗙							
Search Q							>
Selection: Search for: Type	OwnOr	ganisation	Dawn	Enter part of the organisation name	Show all	Click search	Search
ospital Clok to edit the organisation	In Use Address 1	Address 2	Town	Telephone	Email	Code	
Dawn Hospital	101 Prince Regent I	Rd	Newcastle Upon Ty				

16.5.2 Select the Location tab

	۰ 🕈	Q Patient	🗮 Lists	🖀 Calls	Reports	🗢 DAWN 👻	Management -	😫 Help 👻	Q -
rganisation 🗙									
Dawn Hos	spital								
Туре	H	lospital							•
Name	D	awn Hospital							
In Use	X								
	Click to add a new ocation 🔴	fessionals	Teams	Wards	Location	Clinics	Patient groups	Print station	
Add a new	w record 🔶	1 - 5 / 5							
	Name			N	otes				
9	Laborato			List of existing					
9	Clinic roo	om _		locations					
9	Office								
9	Moorside								
9	Allington	I							

16.5.3 Add a new location

DAWN	Q -
Location 🗙	
Organisation: Dawr	Hospital > Location: (New record)
Name	
Notes	
Order Nr	0
In Use	X
You will need to say	ve this new record before you can add related records
Click on OK to	
save this record	
✓ OK X Cancel	

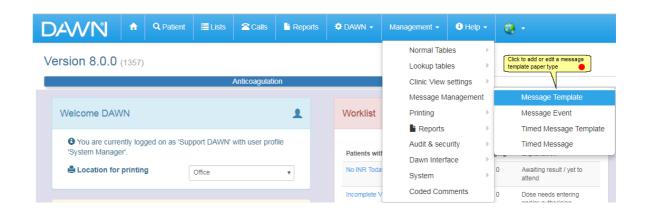
16.6 Selecting paper types

Paper types can be set against an individual message template or against a message event. Paper types set in message events are over-ruled by the paper types set in the message event.

Setting paper types in message templates

Setting paper types in message events

16.6.1 Selecting Paper Type in Message Template



DAV	VN	ŵ	Q Patient	🔳 Lists	🖀 Calls	Reports	🗢 DAWN 👻	Management 🗸
lessage T	emplate 🗙			' 		'		
Search C	٤							
Search fo	r: N	lame						Description Templ
his message	et the paper type Name	e for						Desc
É 😜	Annual Revie	ew Lette	er (to GP) [DM]					Ann
🔳 🐴	Dosing Instru	uction e	xamples					Dosi
🔳 😭	Example Ad	dresses						Owr
🗏 😜	Annual Revie	ew Lette	er (to referring	physican)				Ann
🖻 😭	Annual Revie	ew Lette	er (to referring	physcian) [D	M]			Ann
E	Annual Revie	ew Lette	er (to GP)					Ann
E	[**Content**]	Annua	Review Letter	Text				
	Due To Stop	Reque	st (to referring	Physican)				Due
	Due To Stop	Reque	st (to GP)					Due
	Due To Stop	Reque	st (to referring	Physican) (D	M)			Due
			st (to GP) (DM)					Due
		•	Stop Confirm					
			ter (cc referring		·			Non
			ter (cc referring) phys #3)[D	M]			Non
📑 😜	Non Attenda	nce Let	ter (cc GP #3)					Non

16.6.1.1 List of message templates

here.

DAWN *	Q Patient I≣ Lists I Calls I Reports 🧕 -
Message Event 🗙	
Caption	Dose letter as PDF
Event Type	Patient_ManualMessage
Template	Dose letter economailer
Patient message	Written
Next Of Kin message	(Send no message) v
GP message	(Send no message) v
Consultant message	(Send no message)
HC Profs message	(Send no message)
Keep informed level	(None selected)
HC Professional Type	(None selected)
In Use	
Paper Type	A4 Plain 🔹
Order No	ck to save the message
	ent paper type 🔴
₩ < > ₩ O New	💼 Delete 👱 Save 🗐 List 🚔 Print

16.6.1.2 Adding/Editing a message template paper type

16.6.2 Selecting Paper Type in Message Event

DAWN	ń	Q Patient	≣ Lists	🕿 Calls	Reports	🗢 DAWN 🗸	Management 👻	🚯 Help 🗸	@ 1
Version 8.0.0	(1357)		,	Anticoagulati	on		Normal Tab Lookup tabl Clinic View	es Click h	ere to add or edit a message event paper
Welcome DAV	VN				±	Worklist	Message M Printing	anagement	Messa e Template Message Event
 You are curre 'System Manage Location for 	er'.	-	port DAWN'n Office	with user pro	file •	Patients with No INR Toda	Dawn Interf	,	Timed Message Template Timed Message
						Incomplete V	Coded Com	iments	0 Dose needs entering

16.6.2.1 List of message events

	~								
Searcl	۱U	L							
Search	fo	r: Caption	Event Type -All-	~	Template				
					Search				
(a)	_				Search				
event		message							
7		Caption	Event Type		Template			In Use	Ord
	9	Dose letter as PDF	Patient_ManualMessage	~	Dose letter economailer	~	→	X	0
	9	Dose letter automatic print	Treatment_OnSchedule	~	Dose Letter (Simple)		->	X	0
	9	Treatment plan and recent history	ClinicView	~	Treatment Plan and Recent History Report	~	→	X	0
	9	INTOUT	ClinicView	~	INTOUTNONOTES	~	->	x	30
	9	DNA	Treatment_OnPatientDidNotAttend	~	Non Attendance Letter (cc GP #3) [DM]	~	→	X	40
	9	DNA Discharge	TreatmentPlan OnPatientIsNonAttending	~	Discharge for Non Attendance Notice (to GP) [DM]	~	→		0 30 40 50
	9	INTOUT	Patient_ManualMessage	~	INTOUTNONOTES	\checkmark	->	X	60
	9	Call Patient with dose	Patient_ManualMessage	~	Dose Letter (Simple)	~	→	X	18
	9	PAS Update - inactivate	TreatmentPlan_OnStop	~	Outbound ADT^A01 or A03 Status Update Message	~	→		22
	9	PAS update - activate	TreatmentPlan_OnActivate	~	Outbound ADT^A01 or A03 Status Update Message	~	→		23
	9	PAS Update - inactivate (on deceased)	Patient OnPatientDeceased	\checkmark	Outbound ADT^A01 or A03 Status Update Message	\checkmark	+		24

16.6.2.2 Adding/Editing a message event paper type

	Q Patient 🗮 L	ists 🖀 Calls	Reports	0						
Message Event 🗙	Message Event 🗙									
Caption Event Type	Dose letter as PDF Patient ManualMe	Dose letter as PDF Patient ManualMessage								
Template	Dose letter econom	-		▼ →						
Patient message Next Of Kin message	Written (Send no message))		• • • • • • • • • • • • • • • • • • •						
GP message	(Send no message)									
Consultant message	(Send no message	*		T						
HC Profs message	(Send no message)		• • • • • • • • • • • • • • • • • • •						
Keep informed level HC Professional Type	(None selected)	Select the p	aper type	•						
In Use	×									
Paper Type	A4 Plain		X	•						
Order No	Click here to save this message event paper									
	type •									
KK < > >	n Delete 🛓 Save	🔲 List 🛛 🚔 Prin	nt							

17 Setting Up Messaging - email, SMS, phone, fax

DAWN can be set to send messages to patients/ relatives/ carers/ healthcare professionals in the form of printed letters, faxes, e-mails and /or SMS (text messages).

For each recipient, the patient or healthcare professional may be set to have certain preferences for messaging via phone, message events or timed messages. These are set on the Patient or HCProfessional screens.

Some messages can be triggered automatically when an appointment is set or a patient record is activated - see Message events. For example, details of the patient may be sent to a colleague in Pathology when they are registered on DAWN. A record of any messages sent will be displayed on the Letters tab.

Dosing	Contacts	Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups
- Select a [Direct Print (Loc	al printer) -	¥	-Select a	custom message	to send-	¥	
→ 1 - 1	6 / 16							
→ 1 - 1	6 / 16 Description	n					Created	
→ 1 - 1	Description	n Referral Requ	uest				Created 18/12/201	7 13:42

Some messages can be triggered manually from the DAWN patient record via the Letters tab. The user can select from the 'Direct print' options to print to local printers or use the 'Custom message' menu to send a print to a remote printer or send a phone call to the Message Center queue of calls.

Some messages are set to trigger at set times using Timed Message settings to send a reminder to a patient to get tested 7 days in advance or to remind a consultant to log into DAWN and check some results. See more detail on Timed message settings.

NEXT

17.1 Queuing phone calls - Message Center

Should you wish to queue or line up phone calls to your patients and make the calls later, you can add a phone call 'message' which will then appear on the list under **'Message Center'**.

DAWN *	Q Patient	≣ Lists	🕿 Calls	P Repo	orts	🌣 DAWN 👻	Manageme	nt 🗸 🚯 He	elp 👻
Version 8.0.0 (1357)	Click to view (queued calls						
		/	Anticoagulatio	n					
Welcome DAWN				1		Worklist			
You are currently log 'System Manager'.	gged on as 'Sup	port DAWN'	with user pro	file		Patients with	Induction	Maintenance	Manı Bridç
🚔 Location for printin	ng	Office		•		No INR Today	0	6	
						Incomplete	0	3	

17.1.1 List of queued calls

DAWN will remove the patient from the Message Center list once your call has been marked **'Success**' and you should make a note on the patient screen to record details of your call. The call will be taken off the list for the time specified if you get **'No answer'** and want to try later.

Call list	Call details		
Ŧ	Messages I sent		¥
Patient	Click on a patie	nt record call	# messages
	RGARYEN (01/01/1987) - 012 345 6789 / 02	Patient	1
Daenerys TAR			
	DN (29/04/1931) -	Patient	1

17.1.2 View the message

Call list Call details		Click here to go to		
2 Patient		the patient record	Go to Patier	nt Record O
Name TARGARYE NHS Number 012 345 678 Address Home phone 0153956309 Mobile phone0752711332	91			
Messages for Dae	enerys TARGARYE	N		
Sent at		Patient/message	Status	Sent written?
> 23/01/201	18 14:23	Dosing Instruction	First call	
18/12/201	17 13:52	Dosing Instruction	First call	
K H 1/2				
☑ Dosing Instruction	I			
Anticoagulation Miss Daenerys TARGAR	mee	oll here to see the full sage		
Click here to mark the ca Success No answer Uni	daliverable	lick here to mark the call is undeliverable		
Postpone 15 mir	Click here to mark the ca	ill as No answer and for the call for 15 minutes or other specified		

17.2 Messages to Patients

Messages can be sent automatically, in batches or individually to one or more patient(s) based on the preferences set.

Message options include:

Graph History Personal	reatment plans Questionnaires Test Results Interface W	arnings				
Contact info Next of kin Clinica	I Owners Account Audit E-mail					
Personal and Address	Email with PDF Attachment					
Home phone	Mail					
Mobile phone	Phone pref. (written by E-mail)					
Work phone	Phone pref. (written by E-mail/PDF) Phone pref. (written by SMS)					
Email address						
Fax number						
Messaging method:	Mail	v				

- **Message events** in DAWN can send an automatic message when the patient is activated or a next appointment is scheduled
- **Timed messages** in DAWN can send an automatic message at a predefined time such as 10am 3 days before the blood test is due
- **Message events** in DAWN may be used to select a batch of patients from a list view and send all a message
- **Message events** may be set in DAWN to manually trigger a message for a patient using the Letters tab

The patient's preference for messaging may be taken into account for some of the above message types. For example, a particular patient might opt out of receiving any SMS messages for blood test reminders. Also, a patient might elect to have all clinic letters by e-mail but a particular batch letter regarding change of clinic location might be printed and mailed to all patients.

Message event messages for your patient are recorded on the Letters tab. Timed messages are not shown on the Letters tab but can be viewed using a report called 'Timed Messages Generated' and the settings are shown on the Timed Message screen.

17.2.1 Patient Message Preferences - mail

Graph His	story Personal	Trea	tment plans	Questionn	naires	Test Results	Interface Warnings	
contact info	Next of kin	Clinical	Owners	Account	Audit			
F	Personal and Addre	SS			Cont	tact		Additiona
	Home pho	ne 01	539563091					
	Mobile pho	ne 07	527113321					
	Work pho	ne 01	539563092					
	Email addre	ss da	enerys@targa	ryen.com				
	Fax numb	oer 🗌						
	Messaging metho	d: Ma	ail				•	

17.2.2 Patient Message Preferences - SMS

Graph History Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
Contact info Next of kin Clinic	al Owners	Account Aud	t		
Personal and Address		Co	ntact		Additional
Home phone	01539563091)	
Mobile phone	07527113321				
Work phone	01539563092				
Email address	daenerys@targar				
Fax number					
Messaging method:	SMS			•	

Selecting 'SMS' will send the message from the message event to the patient via SMS (an external system connection for SMS via Email will need to be configured).

17.2.3 Patient Message Preferences - Email with PDF Attachment

Graph History Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
Contact info Next of kin Clinic	cal Owners	Account Audit			
Personal and Address		Coi	ntact		Additional
Home phone Mobile phone	01539563091 07527113321 01539563092				
Email address Fax number					
Messaging method:	Email with PDF A	Attachment		٣	

Selecting 'SMS' will send the message from the message event to the patient via SMS (an external system connection for SMS via Email will need to be configured).

17.2.4 Patient Message Preferences - Phone

Graph H	History Personal	Treatment plans	Questionna	aires	Test Results	Interface Warnings					
Contact info	Next of kin Clinic	cal Owners	Account	Audit							
Ensure at lease one phone	Personal and Address			Cor	tact		Additional				
number fields have	- Home phone	01539563091									
been	Mobile phone	07527113321	07527113321								
entered to generate a	Work phone	01539563092									
call	Email address	daenerys@targa	daenerys@targaryen.com								
message	Fax number										
	Messaging method:	Phone pref. (writ		•							

Selecting '**Phone preferred (written by mail)**' will permit letters to be printed for this patient but phone calls may be sent to the Message Center. A short delay may be set between generating the phone call and it appearing on the Message Center list. This is a setting used to delay e-mails and other messages in case of the need to recall the message. The setting can be located in 'System settings' and is called '**Message_DelayMinutes**'. **NB** - phone calls will not reach the Message Center if no numbers are added to any of the 3 options - Home phone, Mobile phone or Work phone.

17.2.5 Patient Message Preferences - To Next of Kin

The patient's Next of Kin can choose to receive SMS or Emails with PDF attachments.

Graph History Personal 1	reatment plans	Questionnaires	Test Results	Interface Warnings
Contact info Next of kin Clinica	al Owners	Account Aud	it	
Name Address				
Home phone Mobile phone				
Work phone EmailAddress Fax number				
Messaging method:	SMS			•

17.2.6 Patient Message Preferences - via Timed Messages

It is only necessary to override the default message method for the Timed Message if the patient wants to either: not receive the message by opting out or receive the message by a different method (e.g. email not SMS) and / or to a different email address or mobile phone number than their main contact details (e.g. next of kin).

To add a specific contact detail for a patient, open a patient's record. Then click on the Personal tab and then on the Contact Additional) tab. In the Additional contact details, click on the Email / SMS Alerts tab and then the form icon to add new contact details for a Timed Message.

Graph His	tory Persona	Treatm	ent plans	Questionn	aires	Test Results	Interface Warnings				
Contact info	Next of kin	Clinical	Owners	Account	Audit						
	Personal and A	ddress	Conta	ct (main)		Conta	act (Additional)				
Add a new red	ord Telephone I	Numbers									
There are no items to display											
Add a new rec	cord Email Addre	esses									
There are no item	s to display										
Add a new red	to add a ne	d a new record									

Once you have clicked on the form icon, click on the New button at the bottom of the next screen. You can then add message contact details for the patient.

17.2.6.1 New patient timed message

	9 > Message Contact Details: (New record)
Template Select a (Make a choice)	Details entered on this screen will override the default message method defined for the timed message and / or allow contact details other than the main mobile number or email address for the recipient to be used when sending the message.
Message Method (Make a choice) method Contact Type (None selected)	There is no need to enter details here if the recipient wants to receive the alert by the default method for the message to their main mobile number or email address.
In Use	To see the default settings or the message contact your system administrator or view the Timed Messages screen from the System Menu.
Select DK when done	
✓ OK X Cancel	

17.3 Messages for HC professionals

Messages can be sent automatically, in batches or individually to one or more HCProfessional(s) based on the preferences set.

Message options include:

14 IMPERIAL	AVENUE - Perry V U	
Organisation	14 IMPERIAL AVENUE	📮 Email / SMS Alerts
Role	(GP T)	Add a new record
Last name	Perry	There are no items to display
First name	UV	
Initials	P	
In Use	X	
Address info	Teams Account info Notes Patients	
Title	Dr	
National Number	G8712863	
Local Number		
Direct Telephone	E-mail Email with PDF Attachment SMS	
Mobile	Fax Mail	
Email	Phone pref. (written by E-mail) Phone pref. (written by E-mail/PDF)	
Direct Fax	Phone pref. (written by SMS) Phone pref. (written by fax) Phone pref. (written by mail)	
Messaging metho	Mail	

- **Message events** in DAWN can send an automatic message when the patient is activated or a next appointment is scheduled
- **Timed messages** in DAWN can send an automatic message at a predefined time such as 10am 3 days before the blood test is due
- **Message events** in DAWN may be used to select a batch of patients from a list view and send all a message
- Message event may be set in DAWN to manually trigger a message for a patient using the Letters tab

The HCprofessional preference for messaging may be taken into account for some of the above message types. For example, a particular HCProfessional might opt out of receiving any SMS messages for blood test reminders. Also, an HCProfessional might elect to have all clinic letters by e-mail but a particular batch letter regarding change of clinic location might be printed and mailed to HCProfessionals.

Message event messages for your patient are recorded on the Letters tab. Timed messages are not shown on the Letters tab but can be viewed using a report called 'Timed Messages Generated' and the settings are shown on the Timed Message screen.

17.3.1 HC Professional Message Preferences - Message Preferences - Mail

14 IMPERIAL	AVENUE - Perry V U	
Organisation	14 IMPERIAL AVENUE	Email / SMS Alerts
Role	GP	Add a new record
Last name	Perry	There are no items to display
First name	VU	
Initials	P	
In Use	X	
Address info	Teams Account info Notes Patients	
Title	Dr	
National Number	G8712863	
Local Number		
Direct Telephone	07829 487435	
Mobile	0777 351 5424	
Email		
Direct Fax	01539 324 6714	
Messaging metho	(Mail 🔹	

Selecting 'SMS' will send the message from the message event to the patient via SMS (an external system connection for SMS via Email will need to be configured).

17.3.2 HC Professional Message Preferences - Message Preferences - Email with PDF Attachment

14 IMPERIAL	AVENUE - Perry V U	
Organisation	14 IMPERIAL AVENUE	Email / SMS Alerts
Role	GP	Add a new record
Last name	Perry	There are no items to display
First name	VU	
Initials	P	
In Use	X	
Address info	Teams Account info Notes Patients	
Title	Dr	
National Number	G8712863	
Local Number		
Direct Telephone	07829 487435	
Mobile	0777 351 5424	
Email		
Direct Fax	01539 324 6714	
Messaging metho	Email with PDF Attachment	

Selecting 'SMS' will send the message from the message event to the patient via SMS (an external system connection for SMS via Email will need to be configured).

17.3.3 HC Professional Message Preferences - via Timed Messages

It is only necessary to override the default message method for the Timed Message if the patient wants to either: not receive the message by opting out or receive the message by a different method (e.g. email not SMS) and / or to a different email address or mobile phone number than their main contact details (e.g. next of kin).

To add a specific contact detail for a patient, open a patient's record. Then click on the Personal tab and then on the Contact info tab. In the Additional contact details, click on the Email / SMS Alerts tab and then the form icon to add new contact details for a Timed Message.

14 IMPERIAL	AVENUE - Perry V U		
Organisation	14 IMPERIAL AVENUE	▼ →	Email / SMS Alerts
Role	GP	•	Add a new record
Last name	Perry	Click to add a new timed message	There are no items to display
First name	VU		
Initials	P		
In Use	X		
Address info	Teams Account info Notes Patients		
Title	Dr		
National Number	G8712863		
Local Number			
Direct Telephone	07829 487435		
Mobile	0777 351 5424		

Once you have clicked on the form icon, click on the New button at the bottom of the next screen. You can then add message contact details for the patient.

17.3.3.1 New HC Professional timed message

01539 324 6714

Message Contact Details X HCProfessional: 14 IMP Select a Template	ERIAL AVENUE - Perr	ry V U ➤ Message Contact Details: (New record)
Template	(Make a choice)	Details entered on this screen will override the default message method defined for the timed message and / or allow contact details other than the main mobile number Select a Message Method Select a Message Method
Message Method	(Make a choice)	There is no need to enter details here if the recipient wants to receive the alert by the
Contact Type	(None selected)	default method for the message to their main mobile number or email address. Select a Contact Type the default settings or the message contact your system administrator or view Type
In Use	X	are marked Messages screen from the System Menu.
Click OK to save the settings		

17.4 Reminders to log into DAWN for Healthcare Professionals

DAWN features a facility for automatic prompts to one or more healthcare professionals to be set up. This might lead to a consultant getting an e-mail on days when there are results in DAWN awaiting their review.

Each healthcare professional can have a setting to allow or prevent a timed message. Their preference for contact method may also be selected as SMS or email. If a message is to go to all nurses marked active on DAWN, this can be arranged at a specific time for the timed

Direct Fax

Messaging methc Mail

message.

- **Timed messages** in DAWN can send an automatic message at a predefined time such as 7 days after a patient's blood test was due
- **Timed messages** might include the count of patient records awaiting attention for some reason such as flagged results or missing results.



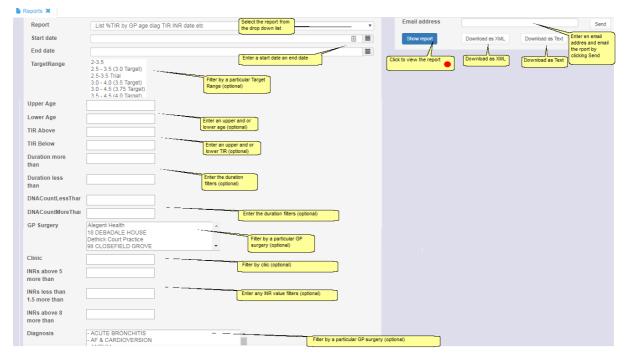
See preferences for messaging by Healthcare professional

See settings for timed messages

18 Reports

	ŵ	Q Patient	🗮 Lists	🖀 Calls	Repor	ts	🗢 Brenda 👻 🛛 I	Managemen	t • 🔒 •	9	R	
Version 8.0.0 (1360)												
				Anticoagulatio	on							
Welcome Brend	da				±		Worklist					
You are currently logged on as 'Nicol Brenda' with user profile 'System Manager'.							Patients with	Induction	Maintenance	Manual/ Bridging	Explanation	
🚔 Location for p	orinting	a (Select a location	on	T		No INR Today	0	0	0	Awaiting result / yet to attend	
							Incomplete Visits	0	D	0	Dose needs entering and/or authorising	

18.1 List of reports



18.2 View report

18 DEBADALE H	DEBADALE HOUSE														
FirstName	LastName	UnitNo	NatNo	Sex	DOB	Age	Diagnosis	Target Range	Weeks on Therapy	% Time In Range	% Time Below Range	% Time Above Range	Average Dose	Total DNAs	Total INRs
Frank	JACKSON	G44406	5479784137	м	27/10/1982	35	ATRIAL FIBRILLATION	2.0 - 3.0	580	100	0	0	4.71	0	3
Alistair	SIMMONS	1456289		м	11/08/1961	56	STAFF NOT SURE	2.5 - 3.5 (3.0 Target)	572	100	0	0	2.64	0	4
21 STILEMAN H	1 STILEMAN HOUSE														
FirstName	LastName	UnitNo	NatNo	Sex	DOB	Age	Diagnosis	Target Range	Weeks on Therapy	% Time In Range	% Time Below Range	% Time Above Range	Average Dose	Total DNAs	Total INRs
Regina	MITCHEL	M28447		F	01/01/1945	73	ATRIAL FIBRILLATION	2.0 - 3.0	690	100	0	0	1.35	0	10
Pat	LILLEY	W23693	9882472948	F	11/08/1920	97	PE POST OPERATIVE	2.0 - 3.0	606	75.45	24.55	0	7.79	1	4
Mimi	WOLSENHOLME	P81882	9738439374	F	05/10/1919	98	PULMONARY EMBOLISM NOT SP	2.0 - 3.0	375	100	0	0	50	0	3
Mary	BROWN	J16081	9776258475	F	18/01/1958	60	ANGINA	2.0-3.0 trial	538	77.45	0	22.55	2.21	0	6
Alistair	MENDLESON	Z86508	5988481614	М	07/09/1908	109	ARTERIALSCLEROSIS	2.5 - 3.5 (3.0 Target)	551	56.83	43.17	0	10.07	0	4
Anne	BROWN	P43837	4222297500	F	29/03/1957	60	ATRIAL FIBRILLATION	2.0 - 3.0	633	59.15	0	40.85	2.79	0	4
Jonathan	HIGSON	E80266	4192569903	М	22/01/1936	82	ATRIAL FIBRILLATION	2.0 - 3.0	594	80.5	0	19.5	0.64	0	2

18.3 Running Reports

D		A	Q Patient	🗮 Lists	🖀 Calls	Reports	🌣 Mark 👻		Managem	ient 🕶	• •	2	R	,
V	ersion 8.0.1	(1370)												
	Welcome Mark										list			
	You are currently logged on as 'Jeffreys Mark' with user profile 'Top Grade'.									Patier	nts with		Induction	Mai
	Location fo	r printing)		Select a locat	ion	•			No INI	R Today		0	
										Incom	plete Visits		0	
	Conditions of	Use						0		Misse	d Test		0	
								Č.		Active	Treatment I	Plan	0	
	By logging on to this	system you	u have been deel	med to have ac	cepted the 10) following warnings	and conditions of	F		New T	reatment PI	an	0	
	use: 1. Inadequate checking of Dose and Next Test Date instructions could lead to severe injury and death. 2. Check that all therapy instructions are appropriate before instructing a patient. 3. Check that you have a procedure in place to ensure rigorous follow up of non attendees and ensure that all natients have a pert test date.									No ne	xt test date		0	
	 patients have a next test date. Interruptions to the operations of the software, e.g. Power failure, switching off, can lead to data corruption. This could lead to severe injury or death. Following any such interruption to operation, increase checking vigilance. Read the Safety Section in the User Manual. 										aging			

Choose the report from the dropdown menu and select any parameters as required before choosing Show report.

Report	Count of INRs by Clinic	
Start date		
End date		
Email address		Send
Show report	Download as XML Download as Text	
Clinic		Coun

Data may be extracted from DAWN by saving as a text file or e-mailing to yourself or a colleague. Further data analysis may then be possible using Microsoft Excel or another programme.

19 Anticoagulants, Tablet Options, Dosing Regimes and Instructions (warfarin)

19.1 Patient Tablet Options and Dosing Regimes - Basic Concepts

In order to produce a meaningful dosing instruction for a patient, DAWN needs to know which anticoagulant they are on and which tablet strength or strengths they use. It also needs to know whether the patient can split tablets into halves or quarters and whether the instruction should say how many tablets to take, how many mg to take or both.

For vitamin K antagonist dosing:-

DAWN AC calculates a suggested dose for a patient based on their current INR result and previous INR and dose history. This dose is a numeric value which can be either the average daily dose or the total weekly dose, according to your preference. However, the calculated dose might come out as 4.81 or 31.17 or something equally unachievable with the tablet strengths available. Consequently DAWN AC must convert this to the nearest achievable dose and present it as an instruction showing the number of tablets (of a given strength) or the number of mg the patient should take on each day of the week. The numeric average daily or total weekly dose is then rounded to the average or total dose represented by the instruction so that it accurately reflects what the patient is actually going to take.

DAWN can do this in one of two ways:

It can dynamically generate an instruction based on the Patient Specific Tablet Options selected on the patient's current treatment plan or it can use a custom Dosing Regime.

Patient Specific Tablet Options

Selecting patient specific tablet options is the most flexible way of creating dosing instructions as it lets you customise the options for each patient. To customise the tablet options for a patient, select the *Use Customised Tablet Options* radio button from their Treatment Plan screen then click the *Edit Tablet Options* button to display the *Patient Tablet Options* form.

Here you can set the following options:

Anticoagulant	e.g Warfarin
Brand	e.g. UK generic, Coumadin, Barr (see note on brands below). Brand is optional
Dose in	Whether to show the number of tablets to take or the number of mg to take
Tablet strength(s)	You can specify up to three strengths. You must select at least one. If the patient has mixed tablets and you want the instructions to simply show the number of mg to take, select the smallest tablet strength that the patient uses. This ensures all doses are achievable with this strength, even if some can be achieved with fewer tablets by using a larger strength.
Show the Tota	Only applies where the doses are shown as the number of tablets to take. This

Show the Total Only applies where the doses are shown as the number of tablets to take. This mg line adds an additional line to the instruction showing the total dose achieved for each day in mg. For example, if the instruction says take 2 x 3mg strengths

tablets each day, the total mg line for each day shows 6mg

- Record dose Daily Average or Weekly Total. This determines whether the numeric dose calculated by DAWN or entered manually is interpreted as an average daily amount or the total weekly amount.
- Split tablet into half a tablet; quarter of tablet; or whole tablets only. Specifies whether the instruction allows for breaking tablets into halves or quarters.

Instructions generated dynamically from patient specific tablet options are always day patterns.

Dosing Regimes

A dosing regime is a preset combination of all the options shown under Patient Specific Tablet Options above. It consists of a list of preset instructions covering the range of doses DAWN might calculate or a user might enter for a patient. To use a dosing regime, select the *Use Dosing Regime* radio button from the patient's Treatment Plan screen then select the appropriate regime from a drop down list of available regimes.

In other words, instead of choosing the anticoagulant, tablet strength(s), brand and so on individually for a patient using the *Patient Specific Tablet Options* described above, you select a preset combination of these options and DAWN looks up the appropriate instruction in the list of preset instructions instead of working it out dynamically from the patient specific options.

Dosing regimes are useful if you wish to constrain the range of possible dosing instructions that can be given to a patient or if you wish to use plain text instructions instead of day patterns. In other words you would like an instruction that might say:

4mg Daily

...rather than a formatted day pattern such as

	<i>,</i>						
Warfari	n Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (1 mg) 🔵							
Pills (3 mg) 🥏	1			1			
Pills (5 mg) 🛑	1	11⁄2	11⁄2	1	11⁄2	11⁄2	11⁄2
Total m	g 8	71⁄2	71⁄2	8	71⁄2	71⁄2	7½

In versions of DAWN prior to 7.9.48, there was no option to use *Patient Specific Tablet Options* so *Dosing Regimes* were the only option.

Brands

To allow for differences in:

• Tablet colour and tablet strength among different regions, such as the USA or UK

...and

• Tablet shape among different commercial brands within the same region, such as Coumadin and Jantoven in the USA

...you can define different brands of tablet, for example "Coumadin", "Jantoven", "UK generic". An anticoagulant can have several tablet strength records for the same strength tablet, each belonging to a different Brand. This allows you to use different images, captions and Display Names for different brands of the same anticoagulant.

The following sections describe how to work with dosing instructions and specifically: how to customise a specific instruction; how to change the first day of the week; how to leave days out of the instruction and how to add Low Molecular Weight Heparin instructions to cover Induction or Bridging.

For non-VKA dosing, see New Oral Anticoagulants section.

For help adding new regimes for phenindione or other drugs, please contact support@4s-dawn.com.

NB altering or marking a setting in DAWN as not in use may cause unexpected behaviour when dosing or issuing instructions from your DAWN system. Please test thoroughly after any change.

19.2 Important Difference When Switching From Regimes To Patient Tablet Options

In most cases dosing instructions generated from patient specific tablet options or looked up from a preset regime look the same. However, if you use regimes which produce instructions with lines for **more than one tablet strength**, there is one **important difference** you should be aware of and make your patients aware of.

Dosing regimes in more than one tablet strength show the smallest tablet strength at the top and the largest at the bottom:



Patient Tablet Options produce instructions that show the largest tablet strength at the top and the smallest at the bottom

	Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
With Patient Specific Tablet	Pills (5 mg) 🛑	1	1½	11⁄2	1	11⁄2	1½	11⁄2
strength is shown on the	Pills (3 mg) 🔵	1			1			
top row and the smallest on	Pills (1 mg) 🔵							
the bottom row.	Total mg	8	71⁄2	71⁄2	8	71⁄2	7½	71⁄2

If you have patients on multi-tablet regimes and you want to switch them over to using customised tablet options, **you must ensure they are aware of this difference** so that they do not misread the new instructions

19.3 Dosing Instruction Types

DAWN AC supports two types of dosing instruction, Daypatterns and Plain Text (or non Daypattern) instructions.

Daypattern instructions include a numeric dose for each day of the week. They can be expressed in mg or in up to three different tablet strengths (each on a different line) with the option of displaying the Total mg at the bottom.

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg) 🔵	1	11⁄2	11⁄2	1	11⁄2	11⁄2	1½
Pills (3 mg) 🔵	1			1			
Pills (1 mg) 🔵							
Total mg	8	71⁄2	71⁄2	8	71⁄2	71⁄2	71⁄2

Dosing Instructions generated dynamically using Patient Specific Tablet Options are always day patterns. Dosing instructions belonging to Dosing Regimes may be either day patterns or plain text instructions.

Plain Text (or non Daypattern) instructions comprise up to four lines of text.

10 mg DAILY

It is possible to have a Regime which consists of a mix of DayPattern and Plain Text (i.e. non DayPattern) instructions. For example you may have a plain text instruction which says "Take no warfarin" for a dose of zero, in a regime which otherwise comprises of day pattern instructions.

The following section "Working with Dosing Instructions" describes how dosing instructions are displayed and edited in Patient View and Message Templates. The section Setting Up Regimes and Instructions describes how dosing regimes and instructions are added and configured.

19.4 Working with Dosing Instructions

The following sections show how to use and customise dosing instructions.

	Dosing Contacts Letters Drugs 1 Events	Procedures Reviews Reminders Groups
Brand /Anticoagulant Display Name	INR: 2.3 In Range Date: 16/01/2018 Mage - definable by brand and tablet strength	Not scheduled
Caption - indicates tablet	Warfarin Sun Mon Tue Wed Thu Fri Sat M Pills (3 mg) 1 1 1 1 1 1 1 1	No warnings
strength + doses in tablets not mg	Pills (½ mg) 1 1 1 1 1 1	Treatment Notes
Optional Calculated Total mg line	Total mg 3 3.5 3.5 3.5 3.5 3.5 3.5 CC ↔	Cyde button - cydes all lines in
	Dose 3.36 d √ Next 30/01/2018 2 w No dose change <td< th=""><th>lsync</th></td<>	lsync
Background of dose change info (rather than instruction) shaded red/blue to denote size and	Accept dose New INR/Dose Tested	No Further Tests 🗖
direction of change	Graph History Personal Treatment plans G	Questionnaires Test Results Interface Warnings
	Add history data	Reconstruction interface Wallings
	Date INR Dose Dosing Instructions	Time DNA In range Comments
	Image: Warfarin Sun Mon Tue Pills (3 mg) 1 1 Pills (½ mg) 1 1 Total mg 3 3.5 3.5	Wed Thu Fri Sat 2 wk 1 1 1 1 1 1 1 1 3 3.5 3.5 3.5

19.4.1 Day Pattern Instructions (formatted)

- 1. The dosing instruction appears in the Dosing Panel as a formatted table. If the instruction is expressed in tablets the instruction includes a line for each tablet strength used in the regime. If it is expressed in mg it comprises a single line.
- 2. Instructions expressed in tablets show a line caption (text) and an image for each Tablet Strength. Instructions in mg show a fixed caption of "mg" and no image.
- 3. If you have specified the brand, the Display Name for the Brand is displayed at the top of the instruction, e.g. "warfarin" for the "UK generic" brand or "Coumadin" for the "Coumadin" brand. Where a brand has not been specified, the Anticoagulant name is displayed.
- 4. If a default dosing instruction for a patient shows an odd dose on one or more days (e.g. 5½ mg on Wed and 5 on all other days), you can use, the cycle button to move the dose for each day back one increment at a time (e.g. Wed --> Tue, Tue--> Mon, Mon-->Sun, Sun--> Sat etc). If the instructions comprise multiple lines (for different tablet strengths and/ or total mg), the cycle button moves all lines in unison.
- 5. In previous versions of DAWN AC all dosing instructions were plain text and the background to the patient's dosing instruction was shaded to denote the direction and size of a dose change. Shades of pink/red denote dose increases while shades of blue denote decreases. The shade deepens with the size of the dose change. A white background denotes no dose change. In version 7.7 onwards, formatted instructions have their own background shading to facilitate reading along lines or down columns. Multi-line dosing instructions can potentially fill the whole dosing instruction box, obscuring the background colour of the box itself. As such, in 7.7 the background of the "% Dose change" or "No Dose Change" message (displayed beneath the instruction) is coloured, to denote the size and direction of the dose change, instead.

19.4.2 Customising Dosing Instructions

- 1. Hovering over any part of the instruction in the dosing panel displays a tool tip saying "Click here to edit"
- 2. If the User has permission to edit instructions (see User Profile settings), double clicking any part of the instruction displays the edit screen

	Dosing Co	ontacts	Letters	Drug	s 1	Eve	ents	Proc	edures	Revie	WS	Reminder	s Grou
	NR: 2.3 In Rai				01/2018 Incel all stomisation		×		Bose editing for	scheduled			
	odotomize dooling	Warfarin	Sun 🔻	Mon Tue	Wed	Thu	Fri Sa	t	No v	varnings			
	Pills (3 mg) 🔵 Pills (½ mg) 🔵		1	1 1 1 1		1	1 1]	Treatm	ent Notes	0		
		Total mg	3	3.5 3.5	3	3.5	3.5 3.5	5					
[LMWH drug: (No	one selected) 🔻										
I	Dose 3.36 d√	No dose cha	ange	Next 3	0/01/201	8	2 wk 🗸						
	Accept dose	New IN	R/Dose		Те	sted	No F	urther 1	Tests 🗖				
	Graph His	story	Personal	Treatr	nent pla	ans	Ques	tionna	ires	Test Res	ults	Interface	Warnings
A	Add history data												
	Date	INR Do	ose l	Dosing Instru	uctions					Time	DNA	In range	Comments
0	Tue 16/01/2018	2.3 3.3		Warfa Pills (3 mg) Pills (½ mg) Total I	1	1 1	Tue Wed 1 1 1 3.5 3	1 1	Fri Sa 1 1 1 1 3.5 3.5	1			

- 3. Change the dose for any day/tablet strength by typing a new value in the appropriate field and press Enter. The Total mg line is updated automatically.
- 4. The Calculated Total mg line is always displayed in the Customise Dosing Instruction form for instructions expressed in tablets of more than 1mg strength, regardless of the setting that determines whether it is displayed in the finished instruction.
- 5. On saving or hitting enter, the total weekly dose (or average daily dose) in the main dosing panel on the left is updated with the new weekly total (or daily average) of the customised pattern and the current instruction is updated with the changes to each day's dose.
- 6. If the customised pattern causes the total weekly (or average daily) dose to cross any red question mark alert threshold (such as large dose change, direction of dose change, % dose change > treatment plan limit), the red question mark alert is displayed in the same way as if the dose had been typed in to the numeric dose field or set using the up and down arrow buttons.

- 7. Pressing the Close Edit form X button closes the Customise Dosing Instruction form and saves any changes
- 8. If you make an edit to an instruction that DAWN determines to be a loading or bridging dose, the numeric dose field and the up, down, last dose and cycle buttons are all disabled. The only way of changing the dose is now via the editing form.
- 9. If you make a minor edit to an instruction (such as a regular maintenance therapy dose change or a customisation that changes the pattern of doses and days but still distributes the doses reasonably evenly throughout the week), the numeric dose and up, down, last dose and cycle buttons remain enabled.
- 10.A customised instruction is carried forward as the dose instruction for successive tests so long as neither the dose or regime/patient tablet options change. This is the case even if the total weekly or average daily dose does not match a standard instruction in the instruction table. The LMWH part of the instruction is never carried forward (see add a LMWH Instruction).
- 11.Clicking the Cancel All Customisations button resets the instruction back to the default instruction suggested by the dosing engine. When you click the Cancel All Customisations button, you are prompted to confirm you wish to cancel all customisations.

19.4.3 Change the First Day of the Week

Dosing	Contacts	Letters	s Drugs 1	Events	Procedures	Reviews	Reminder	s Gro
INR: 2.3	In Range 🗸		Date: 16/01/2018	8 🏅 🔊	🖬 Not	scheduled		
Customize o	dosing-instructi Warfa		Mon Tue Wed	rn 🗙 Thu Fri S		warnings		
Pills (3 mg) Pills (½ mg		Sun Mon Tue Wed			1 1 Treatn	nent Notes 🔋		
LMWH drug	Total ı g: (None selec	ng Thu Fri	3.5 3.5 3	3.5 3.5 3	.5			
Dose 3.36	d√ No dose	change	Next 30/01/20	18 🚞 2 wk 🔻	/			
Accept	dose Nev	v INR/Dose	Te	ested No	Further Tests 🔲			
Accept	dose Nev	v INR/Dose	Te	ested No	Further Tests 🗖			
Accept	dose Nev History	v INR/Dose Personal			Further Tests	Test Results	Interface	Warnings
	History						Interface	Warnings
Graph	History	Personal				Test Results	Interface	Warnings

1. To change the first day of the week for an instruction, select the new day from the drop down list box for the first day in the instruction. The Days of the week change so they start with the day you select.

19.4.4 Leave Days Out of the Instruction

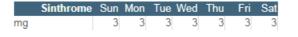
INR: 2.3 In Range ✓ Date: 16/01/2018 ♥ ♥ ■ Not scheduled Customize dosing-instruction Warfarin Sun ▼ Mon Treatment Notes No warnings Pills (3 mg) 1 1 1 1 Treatment Notes 1	
Warfarin Sun Mon Tue Wed Thu Fr Sat Pills (3 mg) 1 1 1 1 1	
Total mg 3 3.5 3.5 LMWH drug: (None selected) •	
Dose 3.25 d ♥ Next 30/01/2018 2 wk ? Dose decreased by 3%	
Accept dose New INR/Dose Tested No Further Tests	

1. To remove one or more days from the instruction, double click the name of the first day you

wish to remove. The selected day and all following days are removed from the instruction. Removed days do not appear in the final instruction. The days names appear in grey in the Editing Form so they can be reinstated (see below).

- 2. You can reinstate a day that has been removed from the instruction by double clicking its (greyed) name. All removed days before the day you click are also reinstated. Any removed days after the day you reinstate, remain removed.
- 3. If an instruction spans 7 days, it is assumed that the pattern repeats each week. If an instruction spans less than 7 days, it is assumed the patient is to be tested again on the day following the end of the instruction. For example, if an instruction includes doses for Mon, Tue and Wed, DAWN AC expects the patient to be tested again on Friday. If the recommended next test date (suggested by the dosing engine or set manually) is later than expected (for example the instruction spans 3 days and the recommended next test interval is 7), a red question mark alert is displayed next to the recommended interval. You cannot accept the dose until you have amended the discrepancy or clicked the red question mark to acknowledge the warning (see illustration below).
- 4. If a customised instruction spans less than 7 days, DAWN AC works out the average dose based on the days included in the instruction and stores this as the numeric dose. If the patient is on a Weekly regime, it is not possible to work out a weekly total, so an average daily dose is substituted and the daily/weekly flag on the particular treatment record is updated accordingly so that DAWN AC knows how to interpret this dose. The numeric dose in the dosing panel now displays a "d" or "w" to show whether it is a daily or weekly dose, in the same way as doses displayed in the treatment history.
- 5. DAWN AC prevents dose calculation where the previous dose instruction spanned less than 7 days.

19.4.5 Instructions in Mg



- 1. If the dosing instruction is expressed in mg, the formatted instructions comprise a single line. The caption is "mg" and no tablet picture is included.
- 2. Sometimes patients are given a single tablet strength but their dosing instructions are expressed in mg. If the tablet strength is greater than 1mg, some individual week day doses are not achievable. For example, you cannot take 2mg on Monday if you only have 3mg Strength tablets. The Patient Specific Tablet Options settings or Dosing Regime holds the minimum tablet strength and minimum part of a tablet that is permissible (e.g. half a tablet, quarter of a tablet, whole tablet). When customising a dosing instruction expressed in mg, you are prevented from specifying a dose for any day that is not achievable using the smallest permissible part of the tablet is "half a tablet", the dose you specify for each day must be divisible by 1.5.

19.4.6 Adding LMWH Instructions

LMWH doses can be recorded in DAWN

Using specific syringe sizes or regimes

OR

Weight based dosing

OR

Manually dosing

19.4.6.1 Using specific syringe sizes or regimes

Dosing	Contacts	Lette	rs	Dru	ugs 🌔		Events	Procedures	Revi
INR: 2.6	In Range 🗸			D	ate:	05/02	2/2018 🗸 🏷		🛗 Tue 🗄
+/-	Warfarin	Sun Mon	Tue	Wed	Thu	Fri	Sat K		
Pills (3 mg) Pills (1 mg)	•	1 1	1	1	1	1	1 part to dis	ole clicking any of the instruction splay the edit	
T ins (T trig)	Total mg	3 3	3	3	3	3	3 €	en 🔴	Treatm
							G		
Dose 3	.00 d√ No	dose chang	e	N	ext	19/0)3/2018 🚞	6 wk √	
Accept	dose	INR/Dose					Tested	No Further Te	sts 🗖

19.4.6.1.1 Select the LMWH drug

Select the LMWH drug or Pentasaccaride agent from the drop down list.

Dosing Cor	ntacts	Letters	s Drugs 1	Events	Procedures	Revie	WS	Reminder	rs G
INR: 2.3 In Rang	je √		Date: 16/01/2018			scheduled			
Customize dosing-i	nstructior	า	customisatio	ns 🕻 ాాలు 🗴					
	Warfari	n Sun 🔻	Mon Tue Wed	Thu Fri S	at	varnings			
Pills (3 mg) 🔵		1			1				
Pills (½ mg) 🔛				1 1	1 Treatm	ent Notes	0		
	Total m	g <u>r</u> ć	lick on the drop down list	3.5 3.5 3	.5				
LMWH drug: (Nor	ne selecte	ed) 🔻 🛶 🤇		_					
Dose 3.36 d√ N	lo dose cl	hange	Next 30/01/20	18 🚞 2 wk 🔻	·				
Dose 3.36 d ✓ N		hange INR/Dose	0001120		Further Tests 🗖				
Accept dose	New	INR/Dose	Te	ested No	Further Tests 🗖				
	New		Te	ested No		Test Res	ults	Interface	Warning
Accept dose Graph Hist	New	INR/Dose	Te	ested No	Further Tests 🗖	Test Res	ults	Interface	Warning
	New	INR/Dose Personal	Te	ested No	Further Tests 🗖	Test Rest	ults	Interface In range	Warning

The options displayed depend on the settings for the LMWH drug you select.

19.4.6.1.2 Select the syringe size or regime

If the LMWH drug has syringe sizes defined, the dose field comprises a drop down list of available syringe sizes. To modify the dose, select an alternative dose from the available syringe sizes.

Dosing	Contacts	Letters	Drugs 1	Events	Procedures	Review
INR: 2.4 I	n Range 🗸		Date: 12	/01/2018 🗸 🏠		🗮 Not sch
Customize do	osing-instructio			ю X		
	Warfa		Mon Tue Weo			
Pills (3 mg)	-	1			1	
Pills (1/2 mg)						Treatmen
	Total				3	
08:00	Inno	hep Sun iu 🗌	Mon Tue Wee	I Thu Fri Sa		
Tinzeparin	6000		 24h (single an 	nount) 🔻		
Dose 3.00	d√ 7000 8000 9000	:hange	Next 2	6/01/2018 🚞 2	wk ?	
Accept d	10000 lose 12000 13000	NR/DI size	the syringe	Tested	No Further	Tests 🗖
	14000					
Graph	15000 16000 Hi 17000	Personal	Treatment p	olans Ques	stionnaires	Test Resu
Add history da	20000					
Date	21000	Dose	Dosing Instruc	tions		

19.4.6.1.3 Set the days and doses

If the patient is due for a procedure on say Wednesday, you may wish them to take a 24 hour dose on most days but only take a 12 hour dose on Tuesday so they are not anticoagulated by the time of their operation. In other words, specify one injection time but different amounts on different days. In this case, choose 24h (two amounts) from the drop down list to display a second dose line. Specify an alternative dose and select the days on which each dose should be taken.

Dosing		Contacts	Letters)rugs	- -	_	vents		Procedures	R
		Range 🗸			Date:	12/0	11/201	8 V K	́ э ж		₩ N
Pills (3 r	na) 🔵	Warfari	n Fri 🔻	Sat	Sun	Mon	Tue 0	Wed	Thu		
Pills (1/2)									Trea
Change here	the time	Total m	-	0 Sat	0 Sun	3 Mon	3 Tue	3 Wed	3 Thu		
08:	00	11000 T it	J 💌								
		6000 v iu	L				•				
Tinzepai Dose 1	rin I.71 d ?	Manual Dose decre	ased by 43%		h (two Next	amou 26/	nts) /01/20		2 w	k ?	
Acce							-	Tested		No Further T	

19.4.6.1.4 Change the time of day

If you leave the PM time at its default value and change the AM time, the PM time updates automatically. If you change the PM time so that it is not 12 hours after the AM time, a red exclamation mark is displayed beside it to highlight the difference.

Dosing Conta	cts Letters	Drugs	1	Events	Ρ	rocedures	Review
INR: 2.4 In Range	\checkmark	Date	: 12/0	1/2018 🗸 🖌	n		🗎 Not sch
Customize dosing-inst	ruction			ĸ	x –	Click here to	
1	Warfarin Fri 🔻	Sat Sur	Mon	Tue Wed	Thu		·
Pills (3 mg) 🔵			0	0 1	1		
Pills (½ mg) 🌎							Treatment
	Fotal mg (0 0 (3	33	3		
	Innohep Fr	ri Sat Sur	Mon	Tue Wed	Thu		
10.00 1100	0 🔻 iu 🕑	•					
6000	iu 🗌						
Tinzeparin 🔻 M	anual	▼ 24h (tw	o amour	nts) 🔻			
Dose 1.71 d ? Dos	e decreased by 43	% Next	26/	01/2018	2 wk	?	
Accept dose	New INR/Dose			Tested	I	No Further Te	sts 🗖

- 1. Using 12h dosing the PM dose is automatically set to the same value as the AM dose
- 2. If the dose is automatically populated with the (default) dose defined for the LMWH drug, the full amount is displayed for the for both the AM and PM. For example if the dose defined for

the LMWH drug is 40 mg and you select 12h (single amount), the patient's dose defaults to AM dose = 40 and PM dose = 40.

3. The PM dose is read only.

19.4.6.1.5 Accept the Bridging Dose

Dosing	Contacts	Le	etters	Dr	ugs	0	Ev	ents	Procedures	Reviews
INR: 2.4	In Range 🗸			[Date:	12/0	1/2018	~	r	🗎 Not scheduled
+/-										_
	Warfarin	Fri S	Sat Sun	Mon	Tue	Wed	Thu	н		 Dose (Last 3
Pills (3 mg)	9					1	1	*		• Lasi J
Pills (1/2 mg)	0							Ţ.		
	Total mg	0	0 0	0	0	3	3	¥ Φ		Treatment Note
	Innohep	Fri S	Sat Sun	Mon	Tue	Wed	Thu	Ø		Treatment Notes
10:00	11000iu	# 4	# #	#			#	_		
	6000iu				#					
Dose 0.86	d 7 Dose de	creased	l by 71%	١	Next	19/	01/201	8	7 d √	
Accept		INR/Do	ose				Te	ested	No Further T	ests 🗖

19.4.6.2 Weight based dosing

If the (default) Dose defined as a Dose per kg rather than an absolute amount, DAWN works out the dose from the patient's weight and displays the result.

Dosing C	ontacts	Letters	D	rugs	0	Ev	/ents		Procedures	Reviev
INR: 2.1 In Ra	ange 🗸			Date:	12/0	1/2018	} √ ¥	כ		🗎 Not sch
Customize dosing	,	-		-		-		*		No war
Pills (3 mg)	Warfarin	Sun V	Mon 1	lue 1	Wed	Thu 1	Fri 1	Sat		
Pills (1/2 mg)										Treatmen
	Total mg	3	3	3	3	3	3	3		
	Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
08:00	40Mg									
20:00	40Mg				The na	tient's v	weight	and the	e date it was	
Enoxaparin	 I mg per K 	g (q12h)		•	measu		in origini	and the		
Patient's weight:	40.8 kg (89.9 l	bs) (Measu	ired 20	/12/20)17)	2-				
Dose 3.00 d√	No dose char	nge		Next	26/	01/201	8	2 wk	· ?	
Accept dose	New INR	/Dose				Т	ested		No Further Tes	sts 🗖

19.4.6.2.1 Weight check for no recorded weight

If the patient's weight has not been recorded in DAWN AC, a warning is displayed.

Dosing	Contacts	Letters	C)rugs	0	E١	/ents		Procedures	Review
INR: 2.1 In	Range √			Date:	12/0	1/2018	3 √ ¥	r		🗎 Not sc
Customize dosi	ing-instruction						ĸ	× (
	Warfarin	Sun 🔻	Mon	Tue	Wed	Thu	Fri	Sat		No wa
Pills (3 mg) 🥌		1	1	1	1	1	1	1		
Pills (½ mg)	9									Treatmer
	Total mg	3	3	3	3	3	3	3		
	Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
08:00	OMg									
20:00	OMg									
Enoxaparin WARNING: The	 1 mg per K e patient's weig 		nown	T						
Dose 3.00 da	No dose char	nge		Next	26/	01/201	18	2 w	< ?	
Accept dos	se New INR	/Dose				Т	ested		No Further Tes	sts 🗖

19.4.6.2.2 Weight check out of date

If a weight measurement is older than the number of days specified in the AC_LMWH_PatientWeightMeasurementExpiryIntervalDays system setting, DAWN AC does not calculate a dose and displays the following message box.

Dosing Co	ntacts	Letters		Drugs	;	Even	ts	Proc
INR: 2.3 In Rar	nge 🗸			Date	: 18/0	01/201	8 √ ¥	כ
Customize dosing-	instruction						ĸ	ר 🗙
	Warfarin	Sun 🔻	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg) 🛑		1.0	1.0	1.0	1.0	1.0	1.0	1.0
Pills (3 mg) 🔵								
Pills (1 mg) 🛑		2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Total mg	7	7	7	7	7	7	7
	Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat
08:00	0Mg							
20:00	0Mg							
Enoxaparin Patient's weight: 5 measure.		Kg (q12h) Asured 01/1		▼ 7) - Too	old to	use. P	lease r	e-

19.4.6.2.3 Update the patient weight

Update the patient's weight and press Enter (or Save). The dose is calculated from the new weight.

Measured at 01/09/2017 🗰 BMI	Weight			91.9	lbs	
	Measured at	01/09/2017		BMI		
					lash	
Height 61.0 Inch	Height			61.0	Inch	

When you enter the weight the Measured at date defaults to today. Change the date to the actual date of the measurement if different, either by over-typing the current date or by clicking the calendar control and picking the date from the pop up calendar.

19.4.6.3 Manually dosing LMWH

If the drug has no LMWH Drug regimes or syringe sizes defined, the default dose for the drug is displayed in an editable field, which you can modify, where necessary, by over-typing the default value with the required value. If no default dose has been defined for the drug, the dose field defaults to 0.

Dosing C	contacts	Letters	D	rugs	0	E١	/ents		Procedures	Reviews
INR: 2.6 In R	ange √			Date:	12/0	1/2018	3 √ ¥	0		🗎 Not sche
Customize dosing	g-instruction						K.	×		
	Warfarin	Sun 🔻	Mon	Tue	Wed	Thu	Fri	Sat		• L
Pills (3 mg) 🔵		1	1	1	1	1	1	1		
Pills (1/2 mg)										Treatment I
	Total mg	3	3	3	3	3	3	3		
	Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat		
08:00	50 🔻 Mg									
08:00 Enoxaparin	50 T Mg		_		_	_	unt) 🔻	_		
	▼ Manual				h (sing	le amo	_	•	< ?	

19.4.7 Validation of LMWH doses

- 1. If the LMWH drug has a min and max dose defined, the system checks that the dose you have specified falls within these limits.
- 2. If the dose falls outside these limits, a warning message is displayed when you try to close the Customise Dosing Instruction form. When you OK the message you are returned to the Customise Dosing Instruction form. You must change the dose to a valid amount before you can close the Customise Dosing Instruction form or save the record.

_		1			1								
	1	The do	ose of 150 Mg o	on day 1 i	is higl	her th	en the	e upp	er limi	it of 50) Mg		
).		Customize dosing-instruction Warfarin Sun V Mon Tue Wed Thu Fri Sat Pills (3 mg) 1 1 1 1 1 1 1 Pills (½ mg) 1 1 1 1 1 1 Total mg 3 3 3 3 3 3 3 3 Lovenox Sun Mon Tue Wed Thu Fri Sat 08:00 150 Mg Ø Ø 0 0 0 0 Enoxaparin V Manual V 24h (single amount) V											
					OK							es	
1	_	-	_	_	-	-	-	-	-	-	-		
	INR:	2.2 In	Range 🗸			Date:	12/0	1/201	B 🗸 🖌	ר			
	-												
	Custo	mize dos	ing-instruction 💫 🖌										
			Warfarin	Sun 🔻	Mon	Tue	Wed	Thu	Fri	Sat			
	Pills ((3 mg) 🗲		1	1	1	1	1	1	1			
	Pills (1½ mg) 🔵	9										
			Total mg	3	3	3	3	3	3	3			
			Lovenox	Sun	Mon	Tue	Wed	Thu	Fri	Sat			
		08:00	150 🔻 Mg										
	Enox	aparin	 Manual 			▼ 24	h (sing	le amo	ount) י	•			
	Dose	3.00 d	✓ No dose chan	ige		Next	26/	'01/20'	18 🚞	2 wk	T		

- 3. If the LMWH Drug is weight based, the Min and Max doses are defined as a Min dose per kg and a Max dose per kg. In this case, the actual Min and Max dose permitted is calculated for each patient based on their weight.
- 4. If the LMWH Drug is not weight based the Min and Max doses constitute absolute limits which apply to all patients.
- 5. If Min and / or Max doses have not been defined, no lower and / or upper limit is enforced on the patient's dose.
- 6. If LMWH Drug Regimes have been defined for the drug, the Max and Min amounts defined for the particular Regime are used.
- 7. If syringe sizes have been defined for the drug, the dose is rounded to the nearest syringe size, so ensure Max and Min limits are wide enough to accomodate this rounding.
- 8. If the drug is prescribed in 24 hour doses, but you use the 24 hour/ two amounts option to specify a half dose for a certain day (such as the day before the patient undergoes a procedure), ensure the lower limit is sufficiently low to permit a half dose.

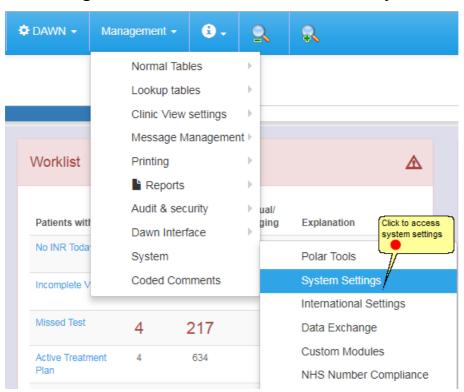
19.4.8 Dosing History

(Graph Histor		Personal	Treatment plans Questionnaires	Test Results	Interfa	e Warnings	
A	dd history data			Full dosing instructions shown	DNA count s	hown	Visits shown	
	Date	INR	Dose	Dosing Instruction		Time DN	A In range	Comments
			0.64 d e here to and dose	Warfarin Sun Mon Tue Wed Thu Fri Pilis (1 mg) 1 ½ 1 ½ ½ Pilis (3 mg) 1 ½ ½ 1 ½ ½ Pilis (3 mg) 1 0.5 0.5 1 0.5 0.5	56	2		Treatment notes truncated
0	Tue 14/11/2017	2.4	0.64 d 👌	Warfarin Sun Mon Tue Wed Thu Fri Plis (1 mg) 1 ½ ½ 1 ½ ½ Plis (3 mg) 1 ½ ½ 1 ½ ½ Plis (3 mg) 1 ½ ½ 1 ½ ½ Total mg 1 ½ ½ 1 ½ ½	Sat %	7 d		The patient answered as follows to the questions: Any bleeding or bruising?: No
0	Tue 31/10/2017	2.5	0.64 d	Warfarin Sun Mon Tue Wed Thu Fri Plis (1 mg) 1 ½ ½ <td< td=""><td>34</td><td>2 wk</td><td>-</td><td></td></td<>	34	2 wk	-	
0	Tue 24/10/2017	2.8	0.64 d	Warfanin Sun Mon Tue Wed Thu Fit Pils (1 mg) 1 ½ ½ 1 ½ ½ Pils (3 mg) 1 ½ ½ 1 ½ <td>56</td> <td>7 d</td> <td></td> <td></td>	56	7 d		
0	Tue 03/10/2017	2.3	0.64 d	Warfarin Sun Mon Tue Wed Thu Fri Plis (1 mg) 1 ½ ½ 1 ½ ½ 1 ½ ½ 1 ½ ½ 1 ½ ½ ½ 1 ½ ½ ½ 1 ½ ½ ½ 1 ½ ½ ½ 1 ½ ½ ½ 1 ½ ½ 1 ½ ½ 1 ½ ½ ½ 1 ½ <td< td=""><td>Sat %</td><td>315 wk</td><td>_</td><td></td></td<>	Sat %	315 wk	_	

19.4.8.1 View full notes

Hovering over the *info* icon displays the full dosing instruction and full notes in a popup window:

4	Graph	Histor	y	Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings		
A	dd history da	28					O Details			×
	Date	INR	Dose	Dosing	Instructions		8mg/9mg ALTER	NATE DAYS		^
	Mon 08/01/2018	0.0	0.00 d				< Patient was unab	le to get transport to the clinic	and has	Ť
	Wed 06/09/2017	3.9	8.50 d	() 8mg/9	mg ALTERNATE DAYS		requested home	visits. Assessment will be arrai	nged.	
	Wed 16/08/2017	3.7	8.50 d	8ng/9	mg ALTERNATE DAYS		7 d	-		



19.4.9 Deciding which columns to include in the history tab

1.

19.4.9.1 Add or Remove columns from the history tab

Search for ShowInHistory

ShowInHis					
SHOWITH	story		Value 🕄		
	Value 🚯		Description 🚯		Туре
unt	1	<u>ا</u>	Should the DNA count be show	vn in the treatment history? 1=yes 0=no (default)	number
nstructions	1		Should the full dosing instruction	on be shown in the treatment history? 1=yes 0=no (default)	number
lange	1		Should the time in range be sho	iown in the treatment history 1=yes 0=no (default)	number
	unt nstructions Range	unt 1 nstructions 1	value 3 value 3 1	Value O Description O Unit Should the DNA count be shown structions	Notice Description Instructions 1 Should the DNA count be shown in the treatment history? 1=yes 0=no (default) 1 Should the full dosing instruction be shown in the treatment history? 1=yes 0=no (default)

Gra	aph History	Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
Add	history data						
	Date		INR	Dose		Time	Comments
	Fri 11/05/2018		0.0	0.00 d	0		
0	Thu 03/05/2018		2.6	10.00 d	0	8 wk	
0	Thu 15/03/2018		2.4	10.00 d	0	12 wk	
0	Thu 21/12/2017		2.6	10.00 d	0	12 wk	
	Thu 12/10/2017		1.9	10.00 d	0	10 wk	
	Tue 01/08/2017		2.6	10.00 d	0	10 wk	
0	Tue 06/06/2017		2.5	10.00 d	0	8 wk	
0	Tue 25/04/2017		2.6	10.00 d	0	6 wk	

19.4.9.2 History tab with all optional columns removed

If the dosing instruction is hidden, the info icon is always displayed. Hovering over the info icon always shows the dosing instruction in a popup window even if there are no notes or if the patient took the intended dose.

19.4.10 Preventing dose calculations based on inappropriate doses

Summary of criteria for preventing dosing calculation based on a previous dose

Automatic dose calculation is prevented where the last treatment record meets any of the following criteria:

- 1. Therapy = "Manual/Bridging"
- 2. Custom Instruction Spans < 7 days (unless the current Therapy is Induction)
- 3. Custom Instruction includes a LMWH dose
- 4. Custom Instruction appears to be for a loading dose or other such one-off exception.

In order to spot an exceptional dose (such as a loading dose), DAWN looks at how evenly the doses are spread among the different days of the week. If any two days differ by more than an expected amount, DAWN marks the instruction has having "major customisations" and prevents automatic dose calculation next time.

The DosingInstruction_MaxDiffBetweenDays system setting defines what counts as an expected amount (in version 7.9.45 onwards). The system setting can be one of the following values:

2 The smallest tablet part used in the regime.

If the regime permits using half tablets, this is half the tablet strength (if the

	regime includes more than one tablet strength, it is half the smallest tablet strength). If the regime does not permit half tablets, this is one whole tablet.
1 (defa ult)	One whole tablet (if the regime uses more than one tablet strength, this is the smallest tablet strength).
0	Any amount (in other words, the check is disabled).

For example: let us suppose a patient is on 3mg strength tablets and normally takes 1½ tablets (4.5 mg) every day. They stop warfarin temporarily while having a surgical procedure and start again on the following loading dose:

Warfarin	Sun	Mo n	Tue	Wed	Thu	Fri	Sat
3mg Strength	3	2	1½	1½	1½	1½	1½
Total Mg	9	6	41⁄2	4½	41⁄2	41⁄2	41⁄2

The largest dose in the pattern (Sun) and the smallest dose (Tues onwards) differ by one and a half tablets or 4.5mg. The tablet strength is 3mg and half tablets are allowed so the smallest tablet part is half a tablet or 1.5mg. Thus, if the system setting is set to either 1 or 2, this instruction would be marked as a major customisation and automatic dose calculation prevented next time, because the gap between the largest and smallest dose for any day differs by more than 1.5mg (the threshold if the system setting is 2) and 3mg (the threshold if the system setting is 1).

Choosing the right setting is a matter of compromise. When using the default setting of 1, there may be some loading doses that DAWN dose not detect. For example, if the patient's normal dose is 1 tablet every day and they are given a one-off loading dose of 2 tablets on Sun and 1 every other day, the largest and smallest doses only differ by one whole tablet so are not seen as a major customisation. (If you gave the double dose for 2 days, this would result in a 28% dose change and DAWN may automatically move the patient to manual dosing for that reason).

While using the most sensitive setting (2) may be more likely to detect all loading doses, it may cause DAWN to wrongly identify some normal maintenance patterns as exceptions. For example, if a particular patient struggles with half tablets you might suggest they achieve an average daily dose of 4.5mg using the following customised pattern:

Warfarin	Sun	Mo n	Tue	Wed	Thu	Fri	Sat
3mg Strength	1	0	1	0	1	0	1
Total Mg	3	0	3	0	3	0	3

With the system setting set to 2, DAWN would (wrongly) identify this as an exception dose,

whereas with a setting of 1, it would be perfectly permissible as a repeating maintenance dose.

The default setting is 1 (one whole tablet), which will catch most but not all loading doses, while still allowing some flexibility with tailoring maintenance dosing patterns to suit individual patients. For this reason, **do not rely on DAWN to identify all loading doses**, unless they span less than 7 days, include LMWH doses or result in a sufficiently large dose change that the patient is automatically moved to manual dosing.

Please ensure you have adequate checking mechanisms in place to ensure you never inadvertently carry forward a one-off exception dosing patterns, without relying exclusively on this check.

If you wish to change this setting, please contact the 4S DAWN support to discuss the implications first.

Dosing Contacts Letters	Drugs 1	Events	Procedures	Reviews	Reminders	Groups	Documents
INR: 2.6 In Range 🗸	Date: 08/0	1/2018 🍸 🏷		🗮 (Scheduling i	info not available ar	nymore)	
★A mg for days, then: ✓ Take no Warfarin		H			3 INRs are all rising prevented: Last tes	t interval is less	Iculate dose
		¥ ₽ Ŭ		Treatment Note	es ()	previous inte 7 days	rval did not span
Dose 0.00 d ? (dose zero)	Next		×				
Accept dose New INR/Dose		Tested	No Further Tes	its 🗖			

19.4.11 Retrospectively Adjusting the Last Dose

If the patient has not been taking the tablet pattern they were advised to take, the last dose is not an accurate basis for the current dose calculation. Providing the current INR has not yet been entered (and the dose calculated), you can adjust the dosing pattern for the last dose to reflect what the patient has actually been taking. When you enter the next INR, the new dose calculation uses this adjusted "actual" dose as the basis for the next dose.

Graph History		Personal	Treatment pla	ns	G	Question	naires		Test Results	s Int	erface	Warnings
Add history data												
Date	INR	Dose	Dosing Instructio	ns						Time	DNA	In range
Mon 19/03/2018	0.0	0.00 d										
Mon 05/02/2018 Click on the last dose d	2.6 ate 🔴	3.00 d	Warfarin Pills (3 mg) 🔵 Pills (1 mg) 🍏 Total mg	Sun 1 3	1	1	d Thu 1 1 3 3	Fri 1 3	Sat 1 3	6 wk		

19.4.11. Edit the previous dose

Patient X Treatme	ent 🗙				
1 Treatment	s for TARGAR	YEN Daei	nerys (01/01/1987	/) # / 012	345 6789
INR: 2.6 In Rang	e 🗸	Date:	05/02/2018 √ Ю		🛗 Tue 30/01
Pills (3 mg) 🔵	rfarin Sun Mon Tu	e Wed Thu 1 1 1	Fri Sat H	he dosing	• Tr • La
Pills (1 mg) 🛑 Tot	almg 3 3	3 3 3	3 3 cp		Treatment N
Dose 3.00 d√ N	o dose change	Next	19/03/2018 6 wk 🗸		
Dawn Hospital	- Support DAWN		DoseAuthoris	ed	
Dawn Hospital	- Support DAWN Status history	Audit	DoseAuthoris	VGR	
· ·					
Miscellaneous	Status history		INR/Dose History		
Miscellaneous AC Therapy	Status history	Mainte	INR/Dose History	VGR	
Miscellaneous AC Therapy Non Attendance	Status history	Mainte	INR/Dose History	VGR	
Miscellaneous AC Therapy Non Attendance See Dr Flag	Status history	Mainte	INR/Dose History	VGR	
Miscellaneous AC Therapy Non Attendance See Dr Flag Seen Dr Flag	Status history	Mainte	INR/Dose History	VGR	
Miscellaneous AC Therapy Non Attendance See Dr Flag Seen Dr Flag Sample No Inpatient Contact Status	Status history	Mainte	INR/Dose History	VGR	
Miscellaneous AC Therapy Non Attendance See Dr Flag Seen Dr Flag Sample No Inpatient	Status history	Mainte	INR/Dose History enance equirement	VGR	

19.4.11. Acknowledge the warning

Patient X Treatment X G Warning: You are going to edit the Actua	dose the patient took the last period. This is not a prescription for the coming	period but may	influence the	dose that will be cal	culated.
Treatments for TARGAF	Click OK to				
INR: 2.6 In Range 🗸	acknowledge the OK				
Edit/view actual dose the patient took				05/02/2018	2.6
Warfarin Sun 🔻 Mon Tue Wed Thu Fri Sat	 The tablet options for this patient have changed Last 3 INRs are all rising 			03/01/2018	2.3
Pills (3 mg) 🔵 1 1 1 1 1 1			×	27/12/2017	2.1
Pills (1 mg)			×	20/12/2017	2.6
Total mg 3 3 3 3 3 3 3	Treatment Notes 0			13/12/2017	2.5
Iotai mg 3 3 3 3 3 3 3				07/12/2017	1.9
Dose 3.00 d ✓ No dose change Next 19/03/2018 6 wk ✓				01/12/2017	2.3
		e 1		22/11/2017	1.7
				01/11/2017	2.3
Dawn Hospital - Support DAWN DoseAuthorised				01/01/2017	2.4
Dawn nospital - Support DAvny DoschattionSed				07/11/2016	2.1

19.4.11. Edit the dose to reflect what the patient took

1 Treatments for TA	RGARYEN Daenerys (01/01/1987) # / 012 3
INR: 2.6 In Range √	Date: 05/02/2018 √ k⊃
Edit/view actual dose the patient	t took 🔊 🗶 🔪
Warfarin	
Pills (3 mg) 🔵	1 1 1 1 1 1 this dose
Pills (1 mg) 🛑	
Total mg	3 3 3 3 3 3 3
Dose 3.00 d√ No dose char	nge Next 19/03/2018 6 wk 🗸
Dawn Hospital - Support	DAWN DoseAuthorised

19.4.11. View full dose after retrospective editing

If you have edited the last dose to record the dose the patient actually took because this is different to the dose they were supposed to take, the history panel shows the amended numeric dose with a blue exclamation mark beside it to indicate it was not the intended dose (see Working with Dosing Instructions / Retrospectively Adjusting the Last Dose).

Graph History	/	Personal	Treatment plans	Questionn	aires	Test Re	esults	Int	erface	Warnings
Add history data										
Add history data										
Date	INR	Dose	Dosing Instructions					Time	DNA	In range
Mon 19/03/2018	0.0		ver on the Information Icon in th the suggested and amende		to see]				
Mon 05/02/2018	2.6	1 2.86 d	Warfarin Su	n Mon Tue We	d Thu Fr	i Sat		6 wk		
			Details				×			
			Details				**			
				iont took				ι.		
30/01/2018	4.2	2.43 d	Actual dose the pat		TueWed	Thu: F		L		
30/01/2018	4.2	2.43 d	Actual dose the pat War	ient took farin Sun Mon	TueWed	Thu F		Ŀ		
30/01/2018	4.2	2.43 d	Actual dose the pat War Pills (3 mg) 🔵		Tue Wed	Thu F		Ŀ		
30/01/2018	4.2	2.43 d	Actual dose the pat War		Tue Wed	Thu F		l		
30/01/2018 Wed 03/01/2018	4.2	2.43 d 3.00 d	Actual dose the pat War Pills (3 mg) Pills (1 mg)		1	1		vk		
			Actual dose the pat War Pills (3 mg) Pills (1 mg)	farin Sun Mon 1 1 al mg 3 3	1 2 3 2	1	ri Sat	vk		
			Actual dose the pat War Pills (3 mg) Pills (1 mg) Tota Dose the patient wa	farin Sun Mon 1 1 al mg 3 3	1 2 3 2 5 take	1 3	ri Sat 1 1 3 3	vk		
			Actual dose the pat War Pills (3 mg) Pills (1 mg) Tota Dose the patient wa	farin Sun Mon 1 1 al mg 3 3 s supposed to	1 2 3 2 5 take	1 3	ri Sat 1 1 3 3	vk		
• Wed 03/01/2018	2.3	3.00 d	Actual dose the pat War Pills (3 mg) Pills (1 mg) Tota Dose the patient wa War Pills (3 mg)	farin Sun Mon 1 1 al mg 3 3 s supposed to	1 2 3 2 5 take	1 3	ri Sat 1 1 3 3	vk		
			Actual dose the pat War Pills (3 mg) Pills (1 mg) Tota Dose the patient war War Pills (3 mg) Pills (1 mg)	farin Sun Mon 1 1 al mg 3 3 s supposed to	1 2 3 2 5 take Tue Wed 1 1	1 3 5 Thu F 1	ri Sat 1 1 3 3	vk		

19.4.12 Including Instructions in MessageTemplates

1. For backward compatibility, existing MessageTemplates that include dosing instructions continue to display a plain text version of the dosing instruction without the need for any changes.

- 2. Where DAWN AC is running in compatibility mode or where the instructions are Plain Text (Non Day Pattern) instructions, the dosing instructions look exactly as they did in previous versions of DAWN AC.
- 3. Where the Instructions are Day Pattern Instructions and DAWN AC is not running in Non Day Pattern, the plain text instructions reflects the layout of the formatted (HTML) instructions.

warfarin Tue Wed Thu Fri Sat Sun Tabs 1 mg $3\frac{1}{2}$ 31/2 31/2 31⁄2 3% 3% Tabs 5 mg 31⁄2 31⁄2 31⁄2 31/2 3½ Total mg 3½

4. It is possible to display the formatted (HTML) style instruction in your MessageTemplate instead of the Plain Text Version, for example...

Take 0.00 mg for 2 days, then:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Tablet 1mg 🥮	2		2		2		2
Tablet 5mg 🥮		1⁄2		1/2		1⁄2	
Total mg	2	21/2	2	21/2	2	21⁄2	2

.. however, this requires a change to your MessageTemplates.

Please contact 4S DAWN support for help if you would like your message templates to display formatted (HTML) instructions.

Tel: +44 (0)15395 63091 support@4s-DAWN.com

19.4.13 Permitting or Prohibiting Custom Instructions

A system setting controls whether doses can be customised and a user profile setting controls which users are permitted to custom dose a patient.

Permitting or Prohibiting Custom Instructions - System Setting

Permitting or Prohibiting Custom Instructions - User Profle Setting

19.4.13. Permitting or Prohibiting Custom Instructions - System Setting

The *Dosing_EnableCustomizedWeekPatterns* System Setting determines whether anyone is permitted to customise individual dosing instructions for patients. To change this setting.

338

🌣 DAWN 👻	Management -	9	2	R		
	Normal Tables	►				
	Lookup tables	\rightarrow				
	Clinic View settings	\rightarrow				Rheumat
	Message Managem	ent⊧				
rklist	Printing	\rightarrow		▲		Database
	Reports	\rightarrow				
the second second second	Audit & security	\rightarrow				Database name
ients with Induc	Dawn Interface	•	ination			DawnAC
INR Today 0	System			Polar To	ols	
omplete 1	Coded Comments			System	Settin	gs
ts		hd/c		Internatio	onal S	Settings

19.4.13.1.1 Editing System Settings

Type "Dosing_EnableCustom" in the Name field in the Search Panel at the top and press the Search button. The *Dosing_EnableCustomizedWeekPatterns* System Setting is displayed.

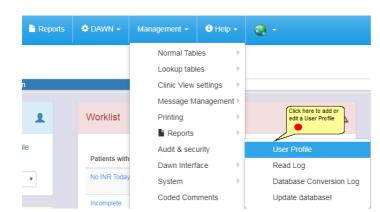
System Settings	¢				
Search Q					
Sorting:			By Type/Name		
Search for:	Name 🕄	Dosing_EnableCustom		Value 🕄	
Customizations					
Name 🕄			Value 🕄	Descri	ption 😆
Dosing_Enable0	CustomizedWeekPatte	ens	1	Does t	ne system allow dosing
HH HH I Dow	/n 🛓 Save 🚔 P	rint C			

Change the Value to:

- 1 Permit users to customise dosing instructions (depending on User Profile settings see below)
- 0 Prohibit anyone from customising dosing instructions

19.4.13. Permitting or Prohibiting Custom Instructions - User Profle Setting

Changing the System Setting to allow customised dsoing enables you to give certain groups of users permission to customise instructions. By default no users have this permission, so you need to edit the appropriate User Profiles and switch this permission on. To switch this permission on for a User Profile:



19.4.13.2.1 Editing User Profile Settings

Select the appropriate User Profile from the list display at the top to display its current settings. Where the *Dosing_EnableCustomizedWeekPatterns* System Setting is set to 1 (True), the AllowCustomizedWeekPattern setting is displayed in the Treatment section of the User Profile form.

escription	System Mana	ager				
Patient Treatme	ent Plan Treatr	nent Visit	Patient Interventions	Application	Admin	
chedule Treatment			High			
Inschedule Treatmen	t		High			
inter And Accept INR			High			
NA Treatment			High			
ccept Dose			High			
uthorise Dose			High			
uthorise Manual/Brid	iging Treatment	1	R			
leset Treatment			High			
dd/Edit Treatment R	ecords 🚯	, in the second s	- R			

Select this checkbox to allow all users with this profile to customise instructions. Deselect this checkbox to prevent users with this profile from customising instructions.



After changing User Profile settings you must **log out** and log back in, before the new settings take effect (for your current login).

19.4.14 Plain Text (Non DayPattern) Instructions

Plain text instructions are defined purely as text.

An example of a plain text instruction might be...

Dosing	Contacts	Letters	Drugs	4	Events 1	Procedure	s R
INR: 2.4 Ir	n Range 🗸		Date:	15/03/	2018 🍸 🎦		🗎 Not si
+/-	AILY				н		No wa
					🛫 disal	cycle button is bled for plain instructions.	Treatme
Dose 10.0	00 d√ No do	se change	Next	07/06	/2018 🛗 12 v	wk 🗸	
Accept de	New If	NR/Dose			Tested	No Further Tes	sts 🗖

19.4.14. Customising Plain Text (Non Day Pattern) Instructions

It is possible to customise a non day pattern instruction. However, the customised instruction is always expressed in mg and each day's dose must be entered manually as there is no day pattern default.

See the section Customising Dosing Instructions for full details on customising dosing instructions.

Dosing	Contacts	Letters	Drugs	4	Events	1	Procedures	F
INR: 2.4	In Range 🗸		Date:	15/03/2	2018 🍸 🏠		1	i Not s
Customize o	dosing-instruction		Man Tuo	Wed T	Kr) Deu Eri			No w
mg	Warfari	n Sun ▼	Mon Tue		'hu Fri	Sat		
LMWH drug	Total m (None selected)		0 0	0	0 0	0	1	reatm
Dose 10.0	00 d√ No dose c	hange	Next	07/06	/2018 🚞	12 wk א	/	
Accept	dose New IN	R/Dose			Tested	N	o Further Tests	

19.4.15 Day Pattern Instructions (compatibility mode)

 If older style DayPattern Instructions have been upgraded from a previous version of DAWN AC, they are converted to the new formatted style. However, the original format is retained. The AC_DisplayTextStyleDosingInstructions system setting determines whether the new formatted or backwards compatible plain text instructions are displayed.

Dosing Cont	icts Y	Letter	s D	rugs	Even	ts P	roced
INR: 2.6 InRang	je 🗸 👘			Da	ate: 29,	107/20	09 🍸 (
+/-							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (10 mg) 🏛	1/2	1/2	1/2	1/2	1/2	1/2	- 1/2
Total mg	5	5	5	5	5	5	5
							•

Instruction displayed in the formatted style

INR: 2	2.6 In	Rang	je 🗸 🛛				I	Date:	29/	07/2	:009 🏅
+/-											
Sun	Mon	Tue		Thu	Fri	. Sa	t				
12	¥2	1-2	¥2	¥2	12	12					
Whit	ce ta	ablet	:(s)	[10	mg	str	en	gth]			

The same instruction displayed in compatibility mode

- 2. You cannot customise dosing instructions displayed in compatibility mode.
- 3. If you plan to display instructions for new Dosing Regimes (created in 7.7 onwards) in compatibility mode you must ensure all the required text fields for each instruction are complete. The first two text lines are created automatically from the days and doses entered in the daypattern, but the third and fourth lines are blank by default.

If the text in these lines does not change between instructions, you can define default values for these fields in the Regime just as if you were creating a non day pattern instruction (see Setting Up Regimes and Instructions / Regimes and Instructions / Creating Non Daypattern Instructions). Thus, in the example above:

Sun Mon Tue Wed Thu Fri Sat11111111PILLS (3 mg SIZE) PER DAY

Created automatically Entered as default in the Regime or manually in each instruction

4. Compatibility mode instructions cannot be defined for Regimes comprising more than one tablet strength.

This functionality is included for backwards compatibility only. It is not necessary to define old style instructions for new regimes if you plan to display instructions in the formatted style.

We recommend you move to using formatted (HTML) instructions if you use Day Patterns.

19.5 Displaying Instructions In Fractions or Decimals

Dosing instructions can be displayed in fractions (eg. 2½ tablets, 3¼ mg) or decimals (eg. 2.5 tablets, 3.25 mg) or a mixture of both (eg Dosing in multiple tablet sizes with the total dose per day in mg).

🌣 DAWN 👻	Management 🗸 🤹 🗸	Q	R	
	Normal Tables	•		
	Lookup tables	•		
	Clinic View settings	•		Rheumat
	Message Manageme	nt 🕨		
rklist	Printing	•		Database
	Reports	•		
	Audit & security	•		Database name
ients with Induc	Dawn Interface))	tion	DawnAC
INR Today 0	System		Polar To	ols
omplete 1	Coded Comments		System	Settings
ts	L	hd/c	Internati	onal Settings

19.5.1 System settings for fractions and/or decimals

If your dosing instructions are configured to display decimals rather than fractions, the potential of misreading a decimal in the dosing instructions should be taken into account.

System Settings 🗙 Search Q Sorting: By Type/Name Last changed Name 🕄 Value 🚯 Search for: ac display Change this value to 1 to display the total dose in mg Customizations Name 🕄 Description 🕄 0 Required Last Chan Туре Max AC_Displa wTotalMaInDecimals Should the Total Mg line of a dosing instruction always be d whether the tablet lines are shown in fractions. 0=No; 1=Yet dless of Integer 0 1 🕅 09/01/2018 15:05 Change this value to 1 to display all instructions to 2000 Change this value to 1 to display all instructions to 2000 Change t Integer 0 1 🕅 Must the AC dosing-instructions be displayed using fractions (0) or decimals (1). 07/04/2015 10:36 AC_DisplayTextStyleDosing 20/02/2017 11:36 ed in text-style (1) in ad of HTML-formatted style (0) integer 0 1 🗵 settings with the value 0 to ctions only in fraction wn 🛓 Save 🚔 Print 🗘 Э ↓ Do

Search on AC_DisplayDosing

19.5.1.1 Displaying instructions in fractions only

Dosing Instructions							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (3 mg) 🔵	1	1	1	1	1	1	1
Pills (1 mg) 🔵		1/2		1/2		1/2	
Total mg	3	31⁄2	3	31⁄2	3	31⁄2	3

19.5.1.2 Displaying instructions in decimals only

Dosing Instructions							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (3 mg) 🔵	1	1	1	1	1	1	1
Pills (1 mg) 🔵		0.5		0.5		0.5	
Total mg	3	3.5	3	3.5	3	3.5	3

19.5.1.3 Displaying instructions in fractions and decimals

Dosing Instructions								
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Pills (3 mg) 🔵	1	1	1	1	1	1	1	
Pills (1 mg) 🛑		1/2		1/2		1/2		
Total mg	3	3.5	3	3.5	3	3.5	3	

19.6 Setting Up Default Values for Patient Specific Tablet Options

You can set up a default patient tablet options template to reflect the options for the majority of patients. This can be amended on a patient specific basis.

🕈 DAWN 👻	Management	i - 😧 -	2	₽.			
	Norma	I Tables	- F				
	Lookup	o tables		Anticoagulation Tables	TargetRange INR		
	Clinic \	√iew settings	->	Allergy	Anticoagulant		
	Messa	ge Manageme	nt≻	Anticoagulant Brand	Regime		
Worklist	Printing	g	- F	Blood Group	Induction Algorithm		
	🔓 Rep	orts	->	Cessation Reason	INR Result Range		
	Audit 8	k security	->	Diagnosis 🕨	AC Test Alias		
Patients with	Dawn I	Dawn Interface Disease a		Disease area	Therapeutic Indications		
No INR Toda	System	n	->	Drug 🕨	Qualifying Risk Factors		
Incomplete V	Coded	Comments	ents Ethnic Origin		Interacting Drugs		
			-	Event	Specific Risks		
Missed Test	0	130		HC Professional Type	Permitted Regimes		
Active Treatm	ent 4 635			Intervention Timeslot	Non VKA Dose		
Plan		1 78		Lapeurado Click here to add /	Questionnaire Settings		
No next test date	1			LN tablet options	Patient Tablet Options Default Settings		

19.6.1 Default patient tablet options - anticoagulant

Patient Tablet Options Default Settings 🗙 Patient 🛠	Anticoagulant Brand 🗱 Anticoagulant 🕷	
Anticoagulant	Warfarin	→
Brand Select your most	Search for:	
commonly used anticoagulant	Warfarin	
Record Dose As:	Phenindione	
	Acenocoumarol	
Split Tablet Into:	Phenprocoumon	•
	Dindevan	
Dose in:	COUMADIN	
Tablet Strength 1		→
Tablet Strength 2		→
Tablet Strength 3		→
Show Total Daily Dose Line?		
Use Patient Tablet Options by default?		
Zero Dose Message		

19.6.2 Default patient tablet options - brand

Anticoagulant	Warfarin	v 🚽
Brand	(None selected)	×
Record Dose As:	Search for:	
Record Dose As.	(None selected)	
Dose in:	kovar (kovar)	
	Canonpharma (Canonpharma)	
Tablet Strength 1	Marevan (Marevan)	
	Warfarin (Warfarin)	
Use Patient Tablet Options by default?	Nycomed (Nycomed)	
	Jantoven (USA) (Jantoven)	
	Grindeks (Grindeks)	
	Taro (USA) (Warfarin)	
Select the most commonly used brand or	Coumadin (USA) (Coumadin)	
leave blank to set this on a patient basis	UK Generic (Warfarin)	
	Orion Pharma (Orion Pharma)	
B M	Barr (USA) (Warfarin)	
Zero Dose Message	USA Generic (Warfarin)	

atient Tablet Options Def	ault Settings 🗙	Patient 🗙	Anticoagulant Brand 🗙	Anticoagulant 🗙		
Anticoagulant			Warfarin			Check this box to ensure there are no
Brand			UK Generic (Warfarin)			inadvertant mixups between daily and weekly doses
Record Dose As:			(None selected)	•	Restrict to this op	tion only.
	Record the dos	se as a	(None selected)			
Split Tablet Into:	daily average	or weely	Daily Average			
	total 🔴		Weekly Total			
Dose in:			Mg		Restrict to this op	tion only.

19.6.3 Default patient tablet options - daily or weekly

Dose in:	Mg	Restrict to this option only.	
Tablet Strength 1	(None selected)		v
Use Patient Tablet Options by default?			
	Please enter the message to be displayed when the o Use ##anticoagulant name## if you want to include th		
	For example: "Take no ##anticoagulant name##" wou warfarin. Leave blank for no message.	ld display as "Take no warfarin" if the patient is	on
Zero Dose Message	Take no ##anticoagulant name##		

19.6.4 Default patient tablet options - whole or split tablets

Patient Tablet Options Default Settings X	Patient 🗙	Anticoagulant Brand 🗙	Anticoagulant 🗙		
Anticoagulant		Warfarin			▼ →
Brand		UK Generic (Warfarin)			▼ →
Record Dose As:		Daily Average	v	Restrict to this option only.	X
Split Tablet Into: Decide whet tablets or sp	ther whole litting tablets is	Whole tablet			•
Dose in:		Whole tablet Half a tablet			
Tablet Strength 1		Quarter of a tablet (None selected)			•
Use Patient Tablet Options by default?	?				
		Please enter the message to Use ##anticoagulant name#	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		For example: "Take no ##ant warfarin. Leave blank for no message	-	d display as "Take no warfarin" if the patier	nt is on
Zero Dose Message		Take no ##anticoagulant na	ime##		

▼ → ▼ →

v

X

19.6.5 Default patient tablet options - mg or tablets

Patient Tablet Options Default Settings X Patient X	♦ Anticoagulant Brand ★ Anticoagulant ★	
Anticoagulant	Warfarin	▼ →
Brand	UK Generic (Warfarin)	▼ →
Record Dose As:	Daily Average v Restrict to this option only.	X
Split Tablet Into:	Half a tablet	Y
Dose in:	Mg v Restrict to this option only.	X
Tablet Strength 1	(None selected) Mg Tablets	Ŧ
Use Patient Tablet Options by default?		
	Please enter the message to be displayed when the dose is zero(0). Use ##anticoagulant name## if you want to include the anticoagulant name.	
	For example: "Take no ##anticoagulant name##" would display as "Take no warfarin" if the p warfarin. Leave blank for no message.	atient is on
Zero Dose Message	Take no ##anticoagulant name##	

19.6.6 Default patient tablet options - tablet sizes

Patient Tablet Options Default Settings	Patient 🗙	Anticoagulant Brand 🗙	Anticoagulant 🗙		
Anticoagulant		Warfarin			T
Brand		UK Generic (Warfarin)			▼ →
Record Dose As:		Daily Average	•	Restrict to this option only.	X
Split Tablet Into:		Half a tablet			
Dose in:		(None selected)			×
	Choose up to three tablet sizes picking	(None selected)	noria (Morforin))		
Show Total Daily Dose Line?	the largest tablet first or leave blank to decide on a patient	Pills (1/2 mg), White (UK Ge Pills (1 mg), Brown (UK Ge	eneric (Warfarin))		
	basis 🛛 🔴 📐	Pills (2 mg) , 2 Mg (UK Ger Pills (3 mg), Blue (UK Ger			_
		Pills (5 mg), Pink (UK Gene	eric (Warfarin))		
Zero Dose Message					
Zero Dose message					

Anticoagulant	Warfarin	*
Brand	UK Generic (Warfarin)	٣
Record Dose As:	Daily Average • Restrict to this option only.	X
Split Tablet Into:	Half a tablet	
Dose in:	Tablets v Restrict to this option only.	X
Tablet Strength 1	Pills (3 mg), Blue (UK Generic (Warfarin))	٣
Tablet Strength 2	Pills (1 mg), Brown (UK Generic (Warfarin))	
Tablet Strength 3	(None selected)	
Show Total Daily Dose Line?	If dosing in tablets, decide whether to display a total mg line	
Use Patient Tablet Options by default?	Check to use patient tablet options by default	
	Please enter the message to be displayed when the dose is zero(0). Use ##anticoagulant name## if you want to include the anticoagulant name.	
	For example: "Take no ##anticoagulant name##" would display as "Take no warfarin" if the pa warfarin. Leave blank for no message.	atient is on
Zero Dose Message	Take no ##anticoagulant name##	

19.6.7 Default patient tablet options - save default settings

19.6.8 Default patient tablet options - explanation of fields

Anticoagula nt	Your most commonly used anticoagulant, for example, warfarin
Brand	If you use different brands of warfarin (or your most commonly used anticoagulant), choose the most prevalent brand. If you don't have any brands set up, leave this blank.

RecordChoose whether you enter the dose as a daily average or the weeklyDose Astotal when you add history or manually update the numeric dose

In the following example, the numeric dose is the daily average. If it was recorded as a weekly total the Dose field would be 28 and would be followed by a small "w". The instruction would be the same:

INR: 2.5 In Ran	IR: 2.5 In Range √ Date: 03/05/20					016 🍸	b	
+/-								
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat	-
Pills (5 mg) 🥮								
Pills (3 mg) 🥏	1	1	1	1	1	1	1	•
Pills (1 mg) 🥮	1	1	1	1	1	1	1	
Total mg	4	4	4	4	4	4	4	Ŧ
								ф
No dose chan	ae		Dose	:	4.00	d	- V	

Most sites only ever record doses as daily averages or only ever record doses as weekly totals. If this is the case, select whichever option is appropriate then check the *Restrict to this option only* checkbox to ensure this is the only option available on a patient's treatment plan.

Some sites who normally record weekly totals, occasionally record daily averages for Induction or Bridging where the dose instruction spans less than 7 days. In this case, select Weekly Total as the default but leave the *Restrict to this option only* checkbox unchecked so both options are available.

Split Tablet Options: half a tablet; quarter of a tablet or whole tablets. If you usually allow splitting tablets into halves, choose half a tablet as the default. If as a rule, you only use whole tablets, then choose whole tablets only as the default. Users can then amend the setting for individual patients.

Leave this blank if you want this setting to be blank by default. In this case, you will be forced to make a choice for each patient before you can save a new treatment plan record.

Dose In This settings determines whether the instruction shows the number of tablets to take or the number of mg to take each day. For example:

+/-							
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
mg	41/2	41/2	41/2	41/2	41/2	41/2	41/2
Dosing instru	iction i	in mg	1				

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sa
Pills (3 mg) 🥮	11/2	11/2	11/2	11/2	11/2	11/2	11/
niis (3 mg) 🖤 j	172	172	172	172	172	172	1

+/-								
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Pills (3 mg) 🥏	11/2	11/2	11/2	11/2	11/2	11/2	11/2	
Total mg	41/2	41/2	41/2	41/2	41/2	41/2	41/2	

Dosing instruction in tablets with total mg line (see also Show Total mg Dose line below)

If you wish to show the number of tablets and the total mg as in the example immediately above, choose tablets then check the checkbox for *Show Total Mg Instruction Line* (see explanation below).

Most sites either show all doses in mg or show all doses in tablets. If this is the case, select whichever option is appropriate then check the *Restrict to this option only* checkbox to ensure this is the only option available on a patient's treatment plan.

TabletIf there is one tablet strength or combination of tablet strengths you useStrength 1most commonly, choose the appropriate tablet or tablets here to have
new patients and treatment plans records default to this selection. In this
case, when you add a patient or a new treatment plan you only have to
change the tablet setting if the patient requires a different strength or
combination.

Leave this option blank if you do not wish tablet strengths to default. In this case, you are forced to select the appropriate tablet strength or combination every time you add a new patient or treatment plan.

If you have chosen to *Dose In* mg, only one *Tablet Strength* option is displayed. If the patient has mixed tablets, select the smallest strength. DAWN then produces dosing instructions that are achievable with any combination of tablet strengths that includes this one.

If you have chosen to *Dose In* tablets, when you select an option for *Tablet Strength 1, a Tablet Strength 2* drop down list is displayed. If you choose an option for *Tablet Strength 2* as well, a *Tablet Strength 3* drop down is displayed (you are limited to three strengths).

If you wish to select more than one tablet strength, choose the largest strength in the top box and the smallest strength in the bottom box (each drop down list only includes tablet strengths smaller than the one selected in the drop down list above).



If you select more than one tablet strength, DAWN produces instructions that show how to achieve the dose with the combination of tablets, for example:

+ <i>j</i> _							
Coumadin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg)	1	1	1	1	1	1	1
Pills (2½ mg)		1		1		1	

Dosing instruction using two tablet strengths (without the Total mg line - see Show Total Mg Dose Line below)

Please note: If you select a single tablet strength as a default, this does not prevent you from selecting additional tablet strengths for individual patients. Likewise if you a choose a combination of two or three tablet strengths as the default setting, you can restrict this to a single strength for individual patients.

TIP: If you use several brands (such as Coumadin, Barr and Jantoven) but you have roughly equal numbers of patients on each, you may decide it is best not to have a default brand. However, if you wish to set defaults for tablet strength, the brand is set automatically depending on the brand of tablet you choose (it is also easier to select tablet strengths if you choose a brand first as then only tablet strengths for that brand are displayed). In this case, select a commonly used brand (such as Coumadin) and then choose the tablet strength or strengths for that brand. When you add a new patient or treatment plan, it will default to this brand and this tablet strengths will automatically change to the equivalent strength tablets for the new brand (providing both brands have the same tablet strengths).

Show Total If you have chosen to *Dose In* tablets, you have the option of including Mg Dose Line an additional line showing the total number of mg too. This is useful if you are using more than one tablet strength or a tablet strength that is greater than 1.

+/-							
Coumadin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (5 mg)	1	1	1	1	1	1	1
Pills (2½ mg)	1						
Total mg	7½	5	5	5	5	5	5

The Show Total Mg Dose Line option is disabled if you have chosen to *Dose In* mg.

Switching the Total Mg Dose Line on by default does not prevent you from switching it off for certain patients (and vice versa).

Use Patient Tablet Options by default Check this checkbox to have new Patients and Treatment Plans use *Customised Tablet Options* by default. With this setting selected, DAWN generates dosing instructions dynamically using the settings on the patient's treatment plan. These default to the values you specify in the fields above but can be changed for each patient individually.

Dosing and Tablet Opti	ons		
○ Use Dosing Regime?	(N	one selected)	Ŧ
Ose Customised Tablet op	tions?		
Anticoagulant:	Warfarin	Record Dose As:	Daily Average
Brand:	UK Generic	Split Tablet Into:	Whole Tablet
Tablet Strength:	Pills (3 mg)		
Tablet Strength:	Pills (1/2 mg)		
Show Total mg Dose Line	Yes	Dose In	Tablets
You can't edit Patient Table	et Options when there is an I	NR / dose that has not yet be	en authorised for this treatment plan.

Uncheck this box to have *Use Dosing Regime* as the default option. In this case, DAWN ignores the patient specific settings and looks up preset instructions for a given combination of anticoagulant, tablet strength etc determined by the dosing regime you select. See Patient Tablet Options and Dosing Regimes - Basic Concepts for more details.

Zero Dose Insert the message you want DAWN to display in place of a dosing instruction if the dose is zero.

If you do not want an instruction to be displayed when the dose is zero, leave this field blank.

If you want to include the name of the anticoagulant in the message, for example "Take no warfarin", use the placeholder ##anticoagulant name##, for example "Take no ##anticoagulant name##". The placeholder is replaced with the appropriate anticoagulant for the patient so, in this example, a zero dose for a patient on warfarin would say "Take no warfarin" while a zero dose for a patient on phenindione would say 351

"Take no phenindione".

19.7 Setting Up Regimes and Instructions

The following sections show how the Regime and Instruction tables are set up.

Anticoagulants

AC Brands

Tablet Strengths

Activating, Deactivating and Maintaining Regimes

19.7.1 Anticoagulants

Management 🗸 🕄 🗸	2	R	
Normal Tables			
Lookup tables		Anticoagulation Tables	TargetRange INR
Clinic View settings		Allergy	Anticoagulant
Message Management 🕨		Anticoagulant Brand	Regime Click here to add
Printing 🕨		Blood Group	Induction Algorithm
Reports		Cessation Reason	INR Result Range
Audit & security		Diagnosis 🕨 🕨	AC Test Alias
Dawn Interface		Disease area	Therapeutic Indications
System 🕨		Drug 🕨	Qualifying Risk Factors
Coded Comments		Ethnic Origin	Interacting Drugs

Each Anticoagulant can have one or more dosing regimes. A dosing regime is a set of instructions showing how to achieve any average daily or total weekly dose with a particular tablet strength or strengths.

Once you have recorded doses for a patient using a particular dosing regime, you can only change their dosing regime to another regime for the same anticoagulant. This is because the doses of different anticoagulants such as warfarin and Phenindione are not directly equivalent. To change a patient's anticoagulant, stop their current treatment plan and start a new one.

19.7.1.1 List of Anticoagulants

				Description
Description	Warfarin			Warfarin
Notes				Phenindione
NOTES				Acenocoumarol
				Phenprocoumon
				Dindevan
				Fluindione
				Bishydroxycoumarin
				COUMADIN
Dose Units	mg			Dabigatran
				Old
O Add a new reco	rd -> Tablets			Rivaroxaban
			A	Newfarin
Caption	AltText	In Use		Warf
Barr (USA) (Wa	rfarin)			Dabigatran 110mg
Pills 1 mg.	Pink	×		
Pills 2 mg.	Lavender	×		
J	Green	×		
Pills 21/2m.	Brown	×		
Pills 21/2m. Pills 3 mg.				
Pills 21/2m.	Blue	×		
Pills 2½m. Pills 3 mg . Pills 4 mg . Pills 5 mg .	Peach	X		
Pills 21/2m. Pills 3 mg . Pills 4 mg . Pills 5 mg . Pills 6 mg .	Peach Blue Green	N		
Pills 2½m. Pills 3 mg . Pills 4 mg . Pills 5 mg .	Peach	X		

19.7.1.2 Edit warning

WARNING !

You are about to alter data in tables that are used by the Dosing-engine:

- Inadequate settings in these tables can lead to severe injury and death.
- Read the Safety Section in the User Manual.
- By using this software the user is bound by the terms of the Software Licence and Maintenance agreement and Customer Obligations document.

Press the edit-button again to accept these terms and to edit the data.



Anticoagulant 🗙			
Description	Warfarin		
Notes			
Dose Units	mg		
Add a new record	→ Tablets		
Caption		AltText	In Us
Barr (USA) (Warfar	in)		
Pills 1 mg.		Pink	X
Pills 2 mg.		Lavender	X
Pills 21/2m.		Green	X
Pills 3 mg.		Brown	×
Pills 4 mg.		Blue	X
Pills 5 mg.		Peach	×
Pills 6 mg.	Click new to add a	Blue Green	×
Pills 7½m.	new anticoagulant	Yellow	×
Pills 10 mg		White	X
	w 🛱 Delete 🛓 Save	🗉 List 🚔 Print 😂	

19.7.1.3 Creating a New Anticoagulant Record

1. Enter the name of the Anticoagulant in the Description field. If you try to save the record without typing a name in the Description field, a message box informs you that the Description is required and you are returned to the form with the Description field highlighted.

2. Enter the DoseUnits (e.g. mg) the Anticoagulant is normally prescribed in. This field is mandatory as it is used directly in creating dosing instructions if the instruction is expressed as the number of tablets to take but an additional line is included showing the total dose that makes. The total is shown in the dose units entered here, e.g. "Total mg".

3. Enter any notes about the Anticoagulant in the Notes field. The notes are not required and you can save an anticoagulant record without entering any notes.

4. Enter an Order number for the new Anticoagulant. This field is required (so you cannot save the record without entering it). It controls where in the list the new Anticoagulant appears. The item with the lowest order number appears at the top of the list. The number defines the order of the Anticoagulant drop down list box displayed in the setup screen for related records such as dosing regimes and the order in which the records are displayed in Anticoagulant Look Up Table list used to select and edit anticoagulant records.

5. Check the InUse checkbox to include this record in the drop down list of selectable anticoagulants displayed in the Regime set up form. Uncheck this box to remove the anticoagulant from the drop down list.

6. Enter the Maximum Daily Dose that would be given for a patient on this anticoagulant. This is used as a safeguard against transcription error when entering numeric doses manually.

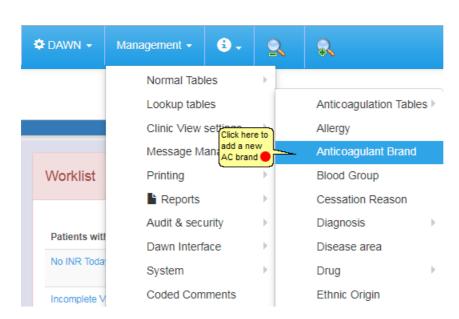
Descriptio	n Enter a description
Notes	
	Enter any notes
	Enter the DoseUnits (e.g. mg) the
	Anticoagulant is normally prescribed in.
Dose Unit	
You will	need to save this new record before you can add related records
You will	need to save this new record before you can add related records Check this box if this is a non vitamin K antagonist
Non Vitam	in K Antagonist
Non Vitam Order	in K Antagonist In K A
Non Vitam Order	in K Antagonist

19.7.1.4 New anticogoagulant form

19.7.2 AC Brands

In some regions such as the USA, there are a number of different brands of certain anticoagulants. For example, Coumadin, Jantoven and Barr warfarin are all different makes of warfarin. In some cases, patients know their anticoagulant by the brand name rather than the generic name, for example "Coumadin" rather than "warfarin".

If a patient changes their insurance they may be obliged to move to a different brand. If you set up Coumadin and Jantoven as different anticoagulants you would not be able to move a patient between Coumadin and Jantoven dosing regimes without starting a new treatment plan even though, in this case, the doses are directly equivalent. Instead, DAWN AC allows you to set up different brands of an anticoagulant.



- 1. Create a record for each anticoagulant brand you wish to use. These can be generic for a region such as "UK warfarin" or identify individual brands available in a particular region such as Coumadin, Jantoven and warfarin in the USA. Use the display name to record the brand name as you wish it to appear on a dosing instruction
- 2. You can associate a dosing regime with a particular brand so you could have a Coumadin, a Jantoven and warfarin dosing regime for the same tablet strength. As these regimes are all for the same Anticoagulant record (warfarin) you can swap between them at any stage in a patient's treatment.
- 3. If you associate a regime with a particular brand, the formatted dosing instructions show the brand display name. If no brand is associated with a regime, the anticoagulant name is displayed on formatted dosing instructions.

19.7.2.1 List of AC brands

Antic	oagulant Brand 🗱	
Sea	arch Q	
Sear	rch for: Name Display Name	
	Name	Display Name
9	UK Generic	Warfarin
9	Coumadin (USA)	Coumadin
9	Jantoven (USA)	Jantoven
9	Barr (USA)	Warfarin
9	Taro (USA)	Warfarin
9	USA Generic	Warfarin
9	Sinthrome	Sinthrome
9	Dindevan Click on New to add a new	Dindevan
9	Pheninidione (generic)	Phenindione
М	M ↓ Down O New ± Save ♣ Print C	

19.7.2.2 Creating an AC Brand

5. 5a				
Anticoagulant Brand 🗙				
Name				
Display Name				
You will need to save th	is new record befor	re you can add rela	ated records	
You will need to save th	is new record befor	re you can add rela	ated records	
Click OK to save this brand]			
✓OK X Cancel				

🗘 dawn 🗸 Management -€. 9 R Normal Tables Anticoagulation Tables TargetRange INF Click on Anticoagulant Lookup tables Anticoagulant Clinic View settings Allergy Message Management > Anticoagulant Brand Regime Worklist Printing Þ Blood Group Induction Algorithm Reports Cessation Reason INR Result Range ь Diagnosis Audit & security AC Test Alias Patients with Dawn Interface Disease area Therapeutic Indications No INR Toda System Drug Qualifying Risk Factors Coded Comments Ethnic Origin Interacting Drugs Incomplete ' Event Specific Risks Missed Test Permitted Regimes 4 217 HC Professional Type Intervention Timeslot Non VKA Dose 4 634 Active Treatment Plan Language Questionnaire Settings 0 No next test LMWH drug Patient Tablet Options Default Settings 42 date

19.7.3.1 List of Anticoagulants and Tablets

If an anticoagulant is available in different tablet strengths, you can define a Tablet record for each tablet strength.

				Description
Warfa Warfa	arin			Warfarin
lotes				Phenindione
lotes				Acenocoumarol
				Phenprocoumon
				Dindevan
				Fluindione
				Bishydroxycoumarin
				COUMADIN
ose Units mg				Dabigatran
Clic	k to add / edit tablets			Old
O Add a new record -	Tablets			Rivaroxaban
				Newfarin
Caption	AltText	In Use	^	Newfarin Warf
		In Use	^	
		In Use		Warf
Barr (USA) (Warfarin)		Í	Warf
Barr (USA) (Warfarin Pills 1 mg.) Pink	X		Warf
Barr (USA) (Warfarin Pills 1 mg . Pills 2 mg .) Pink Lavender	X		Warf
Barr (USA) (Warfarin Pills 1 mg Pills 2 mg Pills 2½m.) Pink Lavender Green	X X		Warf
Barr (USA) (Warfarin Pills 1 mg. Pills 2 mg. Pills 2½m. Pills 3 mg.) Pink Lavender Green Brown	N N N N	i -	Warf
Barr (USA) (Warfarin Pills 1 mg . Pills 2 mg . Pills 2½m. Pills 3 mg . Pills 4 mg .) Pink Lavender Green Brown Blue	X X X X	Ì	Warf
Barr (USA) (Warfarin Pills 1 mg . Pills 2 mg . Pills 2½m. Pills 3 mg . Pills 3 mg . Pills 4 mg .) Pink Lavender Green Brown Blue Peach	X X X X X	l	Warf

By default the tablets are sorted by Brand (Region) then by size. You can also choose to sort them by Size.

19.7.3 Tablet Strengths

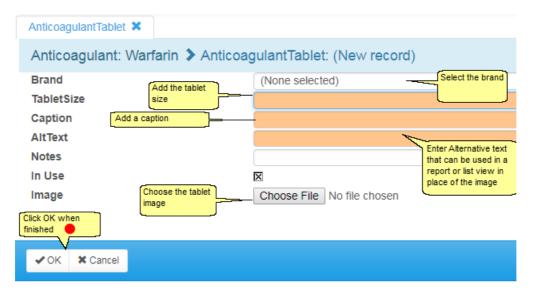
Please note, for non-vitamin K antagonists (like Dabigatran, Rivaroxaban, etc) please see section on New Oral Anticoagulants for dose settings.

For heparin bridging doses see Scenario: Bridging Therapy

19.7.3.2 Adding / Editing Tablets

earch Q								
orting:				ByRegion				
earch for:	Caption				AltTe	ext		
						Edit the	Image	
ırr (USA) (Wa	Edit the size		e Caption	Edit the Alt Text	Edit the Notes		X	
		TabletSize	· \	AltText	Notes	In Use	Image	
9		1.00	Pills 1 mg.	Pink		X		â
۹ 📃		2.00	Pills 2 mg.	Lavender		X	()	â
9		2.50	Pills 21/2m.	Green		X		i i
\$		3.00	Pills 3 mg.	Brown		X	ed g	â
9		4.00	Pills 4 mg.	Blue		X		â
9		5.00	Pills 5 mg.	Peach		X	I	â
9		6.00	Pills 6 mg.	Blue Green		X		<u>ش</u>
9		7.50	Pills 7½m.	Yellow		X		â
Click on New to ac	ld a new tablet 🔴	10.00	Pills 10 mg	White		X		â

19.7.3.3 Creating a Tablet Strength record



Managemen	t - 😟 -	2	R	
Normal Tables		•		
Lookup tables			Anticoagulation Tables	TargetRange INR
Clinic View settings		•	Allergy	Anticoagulant
Message Management 🕨		nt⊧	Anticoagulant Brand	Regime
Printing		•	Blood Group	Induction Algorithm
Reports		•	Cessation Reason	INR Result Range
Audit & security		•	Diagnosis 🛛 🕨	AC Test Alias
Dawn Interface		•	Disease area	Therapeutic Indications
System 🕨		•	Drug 🕨	Qualifying Risk Factors
Coded Comments			Ethnic Origin	Interacting Drugs
			Event	Specific Risks
4	217		HC Professional Type	Permitted Regimes
ent 4	634		Intervention Timeslot	Non VKA Dose
			Language	Questionnaire Settings
0	42		LMWH drug	Patient Tablet Options Default Settings

19.7.4 Activating, Deactivating and Maintaining regimes

19.7.4.1 List of regimes

Before you can use a new regime, you must activate it. If you then need to make changes to it, you must change its status to "In Maintenance". If you no longer wish to use a regime, you can Deactivate it. The following sections explain these workflow states and describe how to move from one to another.

NB altering or marking a setting in DAWN as not in use may cause unexpected behaviour when dosing or issuing instructions from your DAWN system. Please test thoroughly after any change.

Description	Record Dose As	Status
Fluindione 20mg	Daily Average	New
Mg Sinthrome (weekly)	Weekly Total	New
Mg Warfarin (weekly)	Weekly Total	In Maintenan
New Low Dose (w Or Sin)	Daily Average	Active
NEW Phenindione Mixed MG (in Mg / Daily Avg)	Daily Average	Active
newspanish	Weekly Total	New
No tablet pics	Daily Average	Active
old Dabigatran 110mg bd	Daily Average	In Maintenan
Phenindione	Daily Average	New
Phenindione 25 mg Half Tablets/ Daily Avg	Daily Average	Active
Phenindione 25 mg Whole Tablets/ Daily Avg	Daily Average	Active
Phenindione 5mg increments	Daily Average	Active
Phenindione Mg Daily (10mg)(m)	Daily Average	New
Phenindione Mg Daily (25mg)(m)	Daily Average	New
Phenindione Mg Daily (50mg)(m)	Daily Average	New
Phenindione Mixed Tablets (in Mg / Daily Avg)	Daily Average	Active
rin Mixed Tablets (plain text / Daily Avg) (Clone)	Daily Average	In Maintenan
Rivaroxaban 10 mg Once Daily	Daily Average	Active
Rivaroxaban 15 mg Once Daily	Daily Average	Active
Rivaroxaban 15 mg Twice Daily	Daily Average	Active
Rivaroxaban 20 mg Once Daily	Daily Average	Active
Sinthrome	Daily Average	Active
Sinthrome Mixed Tabs (plain text / Daily Avg)	Daily Average	Active
Warfarin 0.5mg with Halves	Daily Average	New
Warfarin 1 and 3mg Whole Tablets Daily (Clone)	Daily Average	Active

Regime 🗙	
This table is password protected	d. Please contact 4S Information Systems for password.
Password:	Enter the password you were given by 4S DAWN
Description	Mg Sinthrome (weekly)
Code Name	SINMGW
Anticoagulant	Acenocoumarol 🔹 🔶
Brand	(None selected)
Status	New
Record Dose As 😫	Weekly Total Dose Units 🕄 Mg
Split Tablet Into	Whole tablet
Tablet Strength 1	0.00 (None selected)
Max Step Between Instructions	5 mg per Week
Max Dose Increment	5 Clone Regime
Instructions Defaults for Ne	w Instructions
→ Instruction 1 - 50 / 175	

19.7.4.2 Enter the unlock password

19.7.4.3 Make the regime editable

Regime 🗙		
Description	Mg Sinthrome (weekly)	
Code Name	SINMGW	
Anticoagulant	Acenocoumarol	→
Brand	(None selected)	Ŧ
Status	New	
Record Dose As 🕄	Weekly Total Dose Units 🖲 Mg	
Split Tablet Into	Whole tablet	
Tablet Strength 1	0.00 (None selected)	
Max Step Between Instructions	5 mg per Week	
Max Dose Increment	5 Clone Regime	
Instructions Defaults for Ne	lew Instructions	
(< >) ONew □ List	Print Edit	

19.7.4.4 Editing warning

WARNING !

You are about to alter data in tables that are used by the Dosing-engine:

- Inadequate settings in these tables can lead to severe injury and death.

- Read the Safety Section in the User Manual.

- By using this software the user is bound by the terms of the Software Licence and Maintenance agreement and Customer Obligations document.

Press the edit-button again to accept these terms and to edit the data...



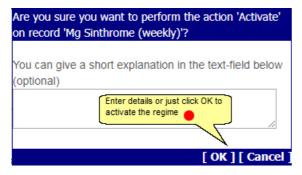
19.7.4.5	Confirm	editing	is	required
----------	---------	---------	----	----------

Regime 🗙			
Description	Mg Sinthrome (weekly)	y)	
Code Name	SINMGW		
Anticoagulant	Acenocoumarol		•
Brand	(None selected)		T
Status	New		
Record Dose As 🕄	Weekly Total	Dose Units 🚯 Mg	
Split Tablet Into	Whole tablet		
Tablet Strength 1	0.00	(None selected)	
Max Step Between Instructions	5	mg per Week	
Max Dose Increment	5	Clone Regime	
Instructions Defaults for Net	w Instructions		
✓ < > > ONew ■ List	APrint Edit	Click edit again to activate, maintain or deactivate the regime	

19.7.4.5.1 Activating a regime

Regime 🗙		
Description	Mg Sinthrome (weekly)	
Code Name	SINMGW	
Anticoagulant	Acenocoumarol	v 🔶
Brand	(None selected)	٣
Status	New Click Activate Deactivate	

19.7.4.5.1.1 Confirm activation



19.7.4.5.2 Deactivating a Regime

Regime 🗙		
Description	Mg Sinthrome (weekly)	
Code Name	SINMGW	
Anticoagulant	Acenocoumarol	•
Brand	(None selected)	r
Status	Active Click deactivate Deactivate Maintain	

Once a Regime is Deactivated, none of its instructions can be used to dose a patient.

19.7.4.5.3 Maintaining a Regime

Regime 🗙		
Description	Mg Sinthrome (weekly)	
Code Name	SINMGW	
Anticoagulant	Acenocoumarol	۲ 🔿
Brand	(None selected)	Click to maintain the regime
Status	Active	Deactivate Maintain

Once a Regime is In Maintenance, none of its instructions can be used to dose a patient.

19.7.4.6 Regime Work Flow States

Dosing Regimes have the following workflow states:

Status	Implications
1. New	Initial status.
	 a) Regimes that are <i>New</i> do not appear in the Regime selection list on the Treatment plan form. b) <i>New</i> regimes have never been activated so they have never been available for selection. Consequently no patients are ever on <i>New</i> regimes. c) Settings for <i>New</i> regimes and their instructions can be altered.
2. Active	In use.
	a) Active regimes appear in the selection list on the Treatment Plan.
	 b) Instructions for Active regimes can be used in Dosing patients c) Settings for Active regimes and their instructions cannot be altered

- 3. In Maintenance Being Edited
 - a) Regimes *In Maintenance* do not appear in the Regime selection list on the Treatment plan form.
 - b) Patients may already be on a regime when its status is changed to *In Maintenance*. In this case, the instructions cannot be used while the Regime is *In Maintenance*.
 - c) If you attempt to dose a patient on a Regime that is *In Maintenance* an "ERROR: The regime is currently not Active. It cannot be used" warning is displayed in place of the instruction.
 - d) Settings for Regimes *In Maintenance* and their instructions can be altered.
- 4. Deactivated Not In Use
 - a) *Deactivated* Regimes do not appear in the Regime selection list on the Treatment plan form.
 - b) Patients may already be on a regime when it is *Deactivated*. In this case, the instructions cannot be used while the Regime is *Deactivated*.
 - c) If you attempt to dose a patient on a *Deactivated* Regime an "ERROR: The regime is currently not Active. It cannot be used" warning is displayed in place of the instruction.
 - d) Settings for *Deactivated* Regimes and their instructions can be altered.

20 Enforcing Mandatory Use of the NHS Number

- 1. Overview
- 2. Switching on NHS Number Compliance
- 3. Changes to the Patient Screen when you Enforce Compliance
- 4. Changes to the New Patient Wizard when you Enforce Compliance
- 5. Changes to the Patient Search Screen
- 6. Patient Identifiers in Screen Titles
- 7. Restricting Who Can Change the NHS Number Status

20.1 Overview

In the UK, the National Health Service (NHS) has issued two Data Set Change Notices, DSCN 32/2008 & 31/2003, mandating use of the NHS number and setting out rules for how it should be stored, displayed and reported in electronic medical record systems.

To switch on Validate and Verify Only or Full compliance, open the NHS Number Compliance Control Panel as described in the section Switching on NHS Number Compliance

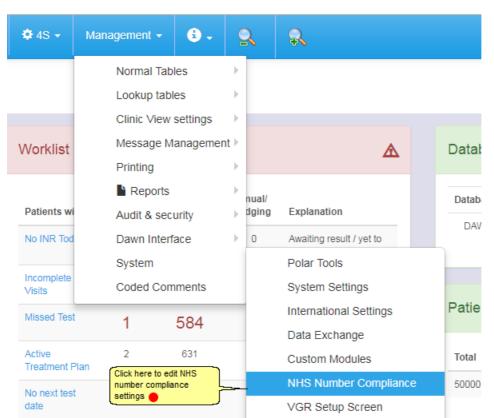
Key Principles

There are four key principles that apply when you enforce mandatory use of the NHS Number:

Validatio n	When you enter an NHS number, it must be checked to ensure it is valid. Valid numbers are 10 characters long and only contain digits. The tenth digit is a check digit which is used to confirm whether the preceding 9 digits comprise a valid NHS number using a modulus 11 algorithm. When you switch on compliance, DAWN automatically applies these validation checks whenever you enter or amend an NHS number. The system does not allow you to save an invalid number.
Format	The number can be entered with or without spaces but is reformatted when saved to ensure it is always stored, displayed and output in 3 3 4 format, e.g. 012 345 6789
Verificati on	Verification is the process of using the NHS tracing service to verify that a given NHS number is the correct number for a particular patient. You cannot trace a number directly from DAWN, it is envisaged that you will do this through your central Patient Administration System. However, you must record the verification status of each patient's NHS number in DAWN. There are 8 possible statuses: 01 - Number present and verified 02 - Number present but not traced 03 - Trace required 04 - Trace attempted - no single match 05 - Trace needs to be resolved

	06 - Trace in progress 07 - Number not present and trace not required 08 - Trace postponed (baby < 6 weeks old)
	By default, DAWN sets the NHS number verification status to "02 - Number present and not traced", where the DAWN patient record has an entry for NHS number, and "03 - Trace required", where it does not.
	Providing you have the appropriate User Profile permissions, you can change the NHS number status by selecting the relevant option from a drop down list. By default, everyone who is permitted to edit patient records can change the NHS number status, but your system administrator can remove this permission for certain groups of users.
	If DAWN is interfaced with your Patient Administration System, the NHS number and verification status can be added and updated automatically via the interface.
Output	To comply strictly with the directive, all electronic and hard copy output, printed letters, reports, emails, faxes and electronic interface updates that include patient demographic information should include the NHS number, but only where it's verification status is "01 - Number present and verified". When full compliance is enforced, DAWN automatically suppresses the NHS number on any letter, report or outbound interface message, where the verification status is not "01 - Number present and verified".
	Validate and Verify Only Compliance
	DAWN does include a "half-way house" option between no compliance and full compliance. This option, called Validate and Verify Only applies the first three principles but not the fourth. This is aimed primarily at sites upgrading from earlier versions of DAWN who have NHS numbers recorded for the majority of patients and already include the NHS number on letters, reports or outbound interface messages. When you upgrade, the verification status for all existing NHS numbers defaults to "02 - Number present but not traced". If you go straight to full compliance, you will lose the ability to include the NHS number on all such output for each patient until you change their verification status to "01 - Number present and verified". If you are making these updates without the aid of an interface, this process may take some time. On the other hand, leaving compliance switched off prevents you from recording the verification status (this option is hidden) and disables automatic validation and reformatting of any numbers you enter. Validate and Verify only allows you to update each patient's verification status and apply validation and reformatting without suppressing the NHS number on all output. You can switch to full compliance later, when all your

368



20.2 Switching on NHS Number Compliance

20.3 NHS number compliance Settings

NHS Number Compliance Control Panel	x
NHS	NHS Number Compliance
	When you enforce NHS Compliance (Validate & Verify Only or Fuil Compliance), DAWN makes the following changes:
NHS Compliance for National Numbers is only applicable for	The National Number caption (currently shown as NHS Number) is changed to NHS No
UK Sites using the NHS	A drop down list of verification states is displayed below the NHS Number. The default status is either:
Number.	Number present but not traced
	Trace Required
	The NHS Number appears in the title of the Patient screen and on the patient search screen.
	 If your Mandatory Patient Identifier is set to MRN (recommended), the MRN also appears in the screen title.
	On entry or edit:
	The NHS Number is checked to ensure it is a valid NHS Number. Invalid numbers are rejected.
	The NHS Number is formatted in 3.3.4 format
	When searching for a patient:
	You can enter the NHS number with or without spaces.
	• When you turn on NHS No compliance, NHS numbers that are already in DAWN are only validated and formatted when you edit the number or change its verification status.
	When you switch on Full compliance, DAWN makes one additional change:
	 The NHS Number only appears in reports, letters, emails or outbound interface messages once you change the status to Number present and verified
	• Read all the information on this page carefully before changing this setting.
Enforce NHS Number Compliance	No •
Mandatory Patient Identifier	MRN
Important Note	If you enforce NHS Number compliance, we recommend you set the MRN as the Mandatory Patient Identifier. If you make the NHS Number mandatory you will not be able to add valid NHS Numbers for them straight away.

 Read all the information on the page carefully to ensure you understand the implications of switching on NHS number compliance and that you know which level of compliance will best serve your current needs. For more information on the difference between Full Compliance and Validate & Verify Only, see Key Principles in the Overview section of this Topic

© 2024

2. Click on the drop down list of Enforce NHS Number Compliance options. The following options are displayed:

Enforce	NHS	Number
Complia	nce	

No	•
No	
Yes - Validate & Verify Only	
Yes - Full Compliance	

- 3. Select the appropriate level of compliance from the drop down list.
- 4. Check the mandatory patient identifier is set to the appropriate setting.

Mandatory Patient Identifier	Unit Number 🔻
	Unit Number
	NHS Number

Please note, if your system is configured to display the unit number on screen with a different caption such as "MRN" or "Hosp Number", the drop down list and help text displays your caption.

We advise making the unit number (i.e. MRN, Hospital number) the mandatory patient identifier rather than the NHS number because you cannot save a patient record without an entry for the mandatory patient identifer. If you do not know a patient's unit number, when you add them to DAWN, you can put in a placeholder such as "NK". However, once you enable either level of NHS number compliance, you are prevented from saving an NHS number that fails the validation checks, which means you have to enter a valid number or leave the field blank. If you make the NHS number the mandatory patient identifier, you remove the option to leave it blank and fill it in later, which means you cannot add a patient unless you have their NHS number.

This setting is the same as the PatientUnitOrNationalNumber setting under System Settings (they are two views of the same setting so changing it in one place inextricably changes it in the other).

5. Click OK to apply your changes.

20.4 NHS number compliance options

Read all the information on the page carefully to ensure you understand the implications of switching on NHS number compliance and that you know which level of compliance will best serve your current needs. For more information on the difference between Full Compliance and Validate & Verify Only, see Key Principles in the Overview section of this Topic

Enforce NHS Number Compliance	No	
Mandatory Patient Identifier	MRN	
Important Note	If you enforce NHS Number compliance, we recommend you set the MRN as the Mandatory Patient Identifier. If you make the NHS Number mandatory you will not be able to add new patients unless you valid NHS Numbers for them straight away.	u can enter

Enforce NHS Number Compliance

No
No
Yes - Validate & Verify Only
Yes - Full Compliance

Please note, if your system is configured to display the unit number on screen with a different caption such as "MRN" or "Hosp Number", the drop down list and help text displays your caption.

We advise making the unit number (i.e. MRN, Hospital number) the mandatory patient identifier rather than the NHS number because you cannot save a patient record without an entry for the mandatory patient identifer. If you do not know a patient's unit number, when you add them to DAWN, you can put in a placeholder such as "NK". However, once you enable either level of NHS number compliance, you are prevented from saving an NHS number that fails the validation checks, which means you have to enter a valid number or leave the field blank. If you make the NHS number the mandatory patient identifier, you remove the option to leave it blank and fill it in later, which means you cannot add a patient unless you have their NHS number.

This setting is the same as the PatientUnitOrNationalNumber setting under System Settings (they are two views of the same setting so changing it in one place inextricably changes it in the other). Click OK to save.

✓ OK ★ Cancel Click OK to save ●

20.5 Changes to the Patient Screen when you Enforce Compliance

Graph History Personal	Treatment plans	Questionn	aires	Test Results	Interface \	Warnings
Contact info Next of kin Clini	cal Owners	Account	Audit			
Personal and Address			Contact (main)		
	PAEDIATRIC PATIENT					
Last name	ADAMS					
First name	Julie					
Age	11					
MRN	H23023					
NHS Number 🕄	012 345 6789					
NHS Number status 🕄	Number present	but not traced	1		Click to see	T
Address 1	39 MAES YR & H	IAF			options	
Address 2						
Town	LEEDS & District					
County	LLANELLI					
Post Code						
Sex	Female					T
Title	Mrs					
Dateofbirth	01/08/2006					
Date of Death						
Ethnic origin	(None selected)					T
Language	Spanish					¥

Where the NHS number is blank, the default status is "Trace required". Where the NHS number has an entry the default status is "Number present but not traced".

When you enter or amend an NHS number:

• DAWN checks whether the number you entered is valid. If your entry does not pass the validation check, the system displays an error message and prevents you from saving the invalid number.



 If your entry is valid, DAWN reformats the number in 3 3 4 format and updates the status to "Number present but not traced"

NHS Number	012 34	5 6789	
NHS Number st	atus	Number present but not traced	•

• If you have the relevant User Profile permissions you can change NHS number (verification) status by selecting a different option from the list. The most common reason for changing the status is to confirm that the NHS number has been traced and verified as the correct number for this patient, by changing their NHS number status to "Number present and verified".

20.6 NHS number compliance dropdown options

NHS Number 🖯	012 345 6789
NHS Number status 😆	Number present but not traced
Address 1	Number present and verified
Address 2	Number present but not traced
	Trace required
Town	Trace attempted - no single match
County	Trace needs to be resolved
Post Code	Trace in progress
	Number not present & trace not required
Sex	Trace postponed (baby <6 weeks old)

20.7 Changes to the New Patient Wizard when you Enforce Compliance

When you switch on either level of mandatory NHS number compliance, DAWN makes small changes to the patient screen.

New Patient Wizard 🗱				
Step 1 - Patient Deta	ils : Step 2 - Treatment Plan Details :	Step 3 - Next Of Kin Details	Step 4 - Clinical Details	Step 5 - Contact Details
Last name First name Sex Title Date of birth MRN NHS No (3)	(None selected)	•		Ethnic origin Primary language Home phone Mobile phone Work phone Fax number Email address
NHS No status 🕄 Address 1 Address 2 Town County Post Code Notes	Trace required			Messaging method: Risk class Other contact numbers You will need to save th
Previous step	Finish	Cancel	lext step 🗲	

- The national number is always displayed with the caption "NHS Number" (regardless of any entry in the PatientNationalNo_FieldCaption system setting)
- A drop down list is displayed for NHS Number status.

For a full explanation of these fields, their defaults, interactions and the validation and reformatting that takes place on entering an NHS number, see: Changes to the Patient Screen when you Enforce Compliance

... which describes the same fields as they appear on the Personal Details tab of the main patient screen.

20.8 NHS number warnings



 If your entry is valid, DAWN reformats the number in 3 3 4 format and updates the status to "Number present but not traced"

NHS Number	012 34	5 6789	
NHS Number st	atus	Number present but not traced	-

If you have the relevant User Profile permissions you can change NHS number (verification) status by selecting a different option from the list. The most common reason for changing the status is to confirm that the NHS number has been traced and verified as the correct number for this patient, by changing their NHS number status to "Number present and verified".

20.9 NHS number compliance and printing patient identifiers

If Full Compliance is in force, NHS numbers are suppressed on all printed letters and reports and electronic output such as emails, faxes and outbound interface messages (that would usually contain the NHS number) where the patient's NHS number status is anything other than "Number present and verified". For example:

Anticoagulant Mon Service	itoring	Dawn Hospital 101 Prince Regent Rd Newcastle Upon Tyne Tyne & Wear NE11 YTG Tel: 01539563091
Mr Hedley STEPHENSON 57 Woodman Cottages Colliery Row Towbank Co Durham, NR56 8HJ	Hosp No: NHS No: Date of Birth:	H672563 01/07/1942
Treatment Plan		
Anticoagulant:	Warfarin	
Diagnosis:	ATRIAL FIBRILLATIO	N
Target INR Range:	2.0 - 3.0 (2.5 Target)	
Start Date:	07/07/2006	
Duration:	Indefinite	

This is a letter for a patient whose NHS number status is "Number present but not traced".

This is an extract from the same letter for the same patient once his NHS number status has been set to "Number present and verified".

Anticoagulant Mo Service	nitoring	Dawn Hospital 101 Prince Regent Rd Newcastle Upon Tyne Tyne & Wear NE11 YTG Tel: 01539563091
Mr Hedley STEPHENSON 57 Woodman Cottages Colliery Row Towbank Co Durham, NR56 8HJ	Hosp No: NHS No: Date of Birth:	H672563 012 345 6789 01/07/1942
Treatment Plan		
Anticoagulant:	Warfarin	
Diagnosis:	ATRIAL FIBRILLATION	
Target INR Range:	2.0 - 3.0 (2.5 Target)	
Start Date:	07/07/2006	
Duration:	Indefinite	

If mandatory NHS number compliance is not in force or *Validate and Verify Only* compliance is in force, the number is never suppressed in letters, faxes and electronic output whatever its status.

See also:

Overview Switching on NHS Number Compliance

20.10 Changes to the Patient Search Screen

When you switch on either level of mandatory NHS number compliance, DAWN makes small changes to the patient search screen.

Patient X														
Search Q														
Selection:		Active	patients			Patients w	vith active Tre	eatment Plans	for selected ap	p.area			Show all	
Search for:	Last name	[Firs	t name					MRN			
	NHS No 🕄	0123456789 // 0	12 345 6789		Tow	n					County			
	Post Code				Sex		-All-			٣	Dateofbirth			
	Date of Death				Lan	guage				٣	Status	-All-		
	Home phone				Mob	ile phone					Work phone			
	Email address				Nex	t of kin name					Next of kin Mob.	I (
														Search
	st name First name	Age MRN	NHS No 🕄	Verified D	ateofbirth	Address 1		Address 2	Town	County	Post Code Se	x Statu	is Home phone	Mobile phone
E AD/	AMS John	59 999	012 345 6789	√ 0	1/01/1959	11 SPRACKL/	ANDS	Highgate	York	Yorks	Ma	le Activ	e 015395063999	

• The National Number is always displayed with the caption "NHS No" (regardless of any entry

in the PatientNationalNo_FieldCaption system setting).

- If your search finds one or more patients, the search results display a checkbox beside each patient's NHS number to show whether it has been verified (i.e. it has a status of 01 -Number present and Verified).
- You can type an NHS number with or without the spaces as the search value and DAWN looks for any patients with a matching number, with or without spaces. In other words, typing "0123456789" in the NHS No search field, finds any patient with "012 345 6789" or "0123456789" as their NHS number.



When you switch on compliance, any NHS number you subsequently enter is automatically formatted in 3 3 4 format, e.g. 012 345 6789. However, any numbers that were already in DAWN prior to switching on compliance are only reformatted when you next edit the number or change its verification status. This is why DAWN always searches for the number with and without spaces.



You can use the // operator in a search value to mean OR. For example, if you want to search for a patient with the first name Sid, but you are not sure whether he spells it Sid or Syd, you can type Sid // Syd in the First Name search field and DAWN will look for patients called Sid or called Syd.

When compliance is switched on and you search for an NHS number, DAWN automatically updates your search value to search for the number you entered with or without spaces. For example, if you type 0123456789 in the NHS No field and press Search, DAWN changes your search value to 0123456789 // 012 345 6789. Likewise, if you type 012 345 6789. DAWN automatically updates your search value to 012 345 6789.

20.11 Patient Identifiers in Screen Titles

If mandatory NHS Number compliance is not in force, DAWN includes either the Unit Number (MRN, Hospital Number etc) or the National Number in the title of screens such as Patient, Treatment Plan and Treatment, depending on which is set as the mandatory patient identifier (system setting: PatientUnitOrNationalNumber).

When you switch on either level of mandatory NHS Number compliance, DAWN always includes the NHS number in the screen title for these screens, regardless of whether it is the mandatory patient identifier. It also displays the short code for the NHS number's verification status, e.g. 012 345 6789 / 01. A status of 01 means the NHS number has been verified. Any other status means the number has not been verified.

The table below shows the short codes and full descriptions for the possible NHS number statuses:

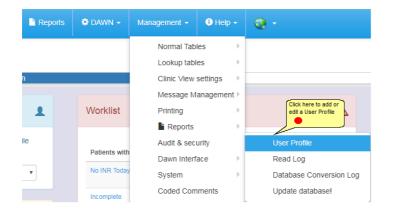
Short Code	Description
01	Number present and verified
02	Number present but not traced
03	Trace required
04	Trace attempted - no single match
05	Trace needs to be resolved

- 06 Trace in progress
- 07 Number not present and trace not required
- 08 Trace postponed (baby < 6 weeks old)

If the unit number is the mandatory patient identifier, the screen title includes both the unit number and the NHS number.

	Name	Gender	Date of birth	NHS Nu	umber	/ Status			
L TARGA	RYEN, Daenerys	- Female	- 01/01/1987 -	- 012 345	67	89 / 02 - 4 The	e Square, Milr	nthorpe	
TIR% At	vove Average VG	R Abo	ove Average (max diff	f: 0.9)		Dosing	Contacts	Letters	Drugs 1
Risk Class	Low			T		INR:	★ ✓		Date: 19/03/2
Pref. Clinic	Dalton Square Surg	gery GP (S)		T					
Phone	01539563091 - hor	ne		T					

20.12 Restricting Who Can Change NHS the Number Status



20.13 NHS number restriction in user profile

By default, all users who have permissions to add and edit patient records can change the NHS number status for a patient. However, you can remove this specific permission from certain user profiles if you so wish.

lser	Deer	- Film	
 Ser	210	nne	

	Description
	System Manager
	AC Nurse
	Clerical
	IT Manager
Description	System Manager

Patient

AllowCreatePatient	×
AllowEditPatientData	Edit all
AllowChangeRiskClass	X
AllowEditNHSNoVerification Status	X Uncheck this box to
AllowEditPatientOrganisations	prevent users with this
AllowDeactivatePatient	profile from updating the NHS number status
AllowViewPatientTelAppFields	
	AllowEditPatientTelAppFields
Allowed Patient Tab Sheets 🚯	Contacts
	✓ Letters
	✓ Drugs
	✓ Events
	Procedures
	Reviews
	Reminders
	Groups
	✓ Documents
	✓ Graph
	✓ History
	✓ NextOfKin
	Clinical
	Owners
	Audit
Click here to save	 TreatmentPlans Questionnaires
the changes	 ✓ Questionnalies ✓ PatientResults
KK < > ₩ ONew mi Delete	± Save ⊫ Print

21 Frequently Asked Anticoagulation Questions

Some frequently asked questions are listed below. Click on the question to read the answer:

How can I undo a dose within DAWN AC?

A patient calls and wants a different next test date / time. How do I reschedule them?

I have authorised a patient dose, but I now need to change the patient's next appointment to attend another clinic. How do I do this?

A patient has had their warfarin stopped / reduced for an upcoming procedure. How do I manage their INR records?

21.1 How Do I Undo a Dose?

How to undo the INR or dose depends on whether you have already authorised the dose for a patient or not.

Undo Dose / INR before authorisation

Undo Dose / INR after authorisation

21.2 Rescheduling a Patient's Next Appointment

When DAWN books a patient into a next appointment date, it puts the patient into the first available slot within the diary.

To change the patient's next appointment date or time once a dose has been authorised, you can click on the Reschedule Manually button on their Dosing tab.

Dosing Contacts Let	ters Drugs 1 Events	Procedures	Reviews	Reminders	Groups	Documents	
INR: ★ ✓	Date: 16/01/2018	a ∧ N	🚞 Tue 16/01/20	18, 11:45 - 12:00: E	alton Square S	Click the link to	h
			Treatment Note	es 🚹		manually change the next visit date	J
							1
Accept INR DNA Un-sc	hedule Schedul	led					

21.2.1 Choosing a slot in the diary

A clinic-diary screen will be presented. You will then be able to either choose a different time slot for the same day, or click on another day block and choose a time slot for them by clicking

on the Select button.

	×								
Select	an appointmer	nt for TARGARY	'EN Daenerys (01/01/19	87) # / 012 345 6789					
Recon	nmended				9	Clinic			
Recom	mended date		Wed 17/01/	2018		Clinic	Dalton Square Surger		7
Recom	mended interval		14 days			Date	18/01/2018		clinic by selecting
Preferre	ed clinic		Dalton Squ	are Surgery GP (S)					he drop down list
*	Sun 14/	-	Mon 15/01/2018 16 (20) 12	Tue 16/01/2018 14 (20) 13	Wed 17/01 24 (38 14		Thu 18/01/2018 15 (20)	Fri 19/01/2018 14 (20) 16	Sat 2
	(-3d/-		(-2d/-14%)	(-1d/-7%)	14		15 (+1d/+7%)	(+2d/+14%)	(+3
Diary		21%)			14				(*2
Diary 1	(-3d/-	21%) 2018	(-2d/-14%)		14				(+2
rom	(-3d/-	21%)		(-1d-7%)	ielect)				(+3
rom 08:00	(-3d)- for Thu 18/01/2 Until	21%) 2018 Cap. Left	(-2di-14%) Reserved cap. left	(-1d47%) • • • • • • • • • • • • • • • • • • •					3+)
From 08:00 08:15	(-3d)-; for Thu 18/01/; Until 08:15	21%) 2018 Cap. Left 0	(-2di-14%) Reserved cap. left	(-1d47%)	ielect)				2*)
From 08:00 08:15 08:30 08:45	(-3d- for Thu 18/01/2 Until 08:15 08:30 08:45 09:00	221%) 2018 2018 2019 2010 2010 2010 2010 2010 2010 2010	(-281-14%) Reserved cap. left 9 9 1 1 1	(-147-7%) (-147%	elect) elect) elect)				5+)
From 08:00 08:15 08:30 08:45 09:00	(-38/- for Thu 18/01/2 08:15 08:30 08:45 09:00 09:15	221%) 2018 2018 2019 2019 2010 2010 2	(-281-14%) Reserved cap. left 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1	(-14)-74) (-14)-	telect) telect) telect) telect) telect) Cho	ose the preferre	(+16+7%)		5+)
From 18:00 18:15 18:30 18:45	(-3d- for Thu 18/01/2 Until 08:15 08:30 08:45 09:00	221%) 2018 2018 2019 2010 2010 2010 2010 2010 2010 2010	(-281-14%) Reserved cap. left 9 9 1 1 1	(-14)-7(8) (14)-7(8) (14)-7(8) (14)-7(14)-7(14) (14)-7(14)-7(14)-7(14) (14)-7(ielect) ielect) ielect) ielect) ielect) tme tme	ase the proferre by clicking on to	(+16+7%)		(*3

21.3 Changing a Patients Clinic

If the patient needs to be moved to a different clinic permanently, then their Preferred Clinic can be changed on the top left of the patient screen before following the steps below.

	YEN, Daenerys - Female - 01/01/1987	7 - 012 345 678	9 - 4 The Square, Milntho	rpe
TIR%	VGR Above Average (mat	x diff: 0.9)	Dosing Contac	ts Letter
Risk Class	Low	•		
Pref. Clinic	Dalton Square Surgery GP (S)	×	Select a clinic from the drop down list	
Phone	01539563091 - home	•	J	
Age:	31			
		_	Accept INR DN	NA Un-sche
Diagnosis	ATRIAL FIBRILLATION			
Target Range	2.0 - 3.0		Graph History	Persona
Start Date	01/10/2016 - Indefinite			
Anticoagulant	Warfarin 3 & 0.5mg Whole Tablets Daily		Add history data	
Treatment Plan		Report	Date Thu 18/01/2018	INR Dose 0.0 0.00 d
Risks				
mana			Wed 03/01/2018	2.3 3.00 d

On the patient's dosing tab, there is a 'Reschedule Manually' link. Click on this link: Rescheduling the next visit

21.4 Managing Maintenance / Induction / Bridging INRs

The maintenance therapy option in DAWN is intended for dosing patients who are already on (or close to) a stable maintenance dose. Doses added as history while on "maintenance therapy" are assumed to be maintenance doses. DAWN provides two other therapy options for patients who are not on a stable maintenance dose. These are "Induction" and "Bridging". Where a patient's warfarin is stopped or reduced for a surgical procedure there are three options for recording INRs:

• Stopping the current treatment plan and starting a new plan. DAWN disables automatic maintenance dose calculation for the first six days following the treatment plan start date which forces the healthcare professional to manually set the dose and the next test interval.

or

• Using the Induction module, designed specifically for re-initiating a patient

or

- Switching to using the bridging therapy option within the Maintenance module, which disables automatic dosing and interval calculation for all subsequent INRs until a healthcare professional deliberately switches the patient back to maintenance therapy.
- To either create a new treatment plan and use induction therapy, or switch the current treatment plan therapy to bridging, you need to amend the therapy field within the patient's treatment plan screen:

Therapy		
AC Therapy 😉	◎ Induction	
Target range	2.0 - 3.0	Y
Induction algorithm	(None selected)	٣
Max % Dose Change 🕄	20	
Max Interval 🚯	140	
Problem Patient		Recalc time in range

If the patient is on induction therapy and following an induction protocol, then the DAWN

system will prompt the user when the patient can be switched over to maintenance therapy.

If the patient is on bridging therapy, then DAWN will force the user to dose manually until the healthcare professional decides to manually move the patient back to maintenance therapy.

22 New Oral Anticoagulants (non-VKA) Section

22.1 Overview of New (Direct) Oral Anticoagulants (non-VKA, DOAC)

Features of the DAWN software to support monitoring of anticoagulation with new oral anticoagulant agents (non-vitamin K antagonists) include:

- Non-VKA list view for easy management of scheduled reviews (section 5.1)
- Integrated non-VKA history and warfarin treatment records within the patient record (section

5.2)

• Structured questionnaire approach to check for contraindications / interactions / risks (section

5.3)

Â

- Help to follow the recommended prescribing guidelines (section 5.4)
- Powerful reporting on patient outcomes and population data (section 5.5)
- Able to provide support separately for different non-VKA agents through specifically-designed

questionnaires for each agent (section 5.6)

In addition to the standard non-VKA questionnaires for Dabigatran, Apixaban etc, there is also a pair of Apixaban Audit Tool questionnaires. This integrates into the patient record and follows the same workflow as the other non-VKA agents however it is an auditing tool only and does not provide medical advice such as warning about contraindications and dose suggestion.

The Detailed Non-VKA Workflow describes the key steps for documenting a patient on DAWN.

The DAWN AC non-VKA modules provide structured questionnaires based on the recommended use of the anticoagulants and these include questionnaires for **Initiation** of anticoagulation and for routine **Follow-up**. Completion of the questionnaires can be scheduled for future dates so that the user can keep track of patients started on, or due for a change to non-VKA anticoagulation.

This software should be seen as an aid to the Healthcare Professional. It is a condition of use that all instructions or information issued by the application are checked by a competent healthcare professional before instructing the patient.

Inadequate reviewing of patient instructions and the next review date could cause severe injury or death.

Contact 4S DAWN Clinical Software for more information at sales@4s-DAWN.com / support@4s-DAWN.com

22.1.1 Non-VKA list view

DAWN DOAC modules present a list of patients for review today / this week / this month.

Each patient can have Initiation or Follow-up questionnaires scheduled for future dates.

orklist Annual Review	Reviews	Hol	d Monitor Listvie	w In reprocessing	No	n-VKA P	oor Performing Pa	itient List	Remind	ers new
one List Post Clinic Che	eck Status		No Next Test Dat	e Procedures	Events	Risks	Dabigatran	Treatm	ent Notes	Referral
Filter 7 records found. Click to see the full	י ר			With Scheduled 8	k Overdu	e w on "D	ease note: VTE patients aroxaban typically star hich should be reduced Day 22. You can use ay 22 patients in the ne which patients are due	t on a twice to a once o the List Vie xt 7 days" t	daily dose laily dose w filter for o keep track	
Name patient record	Hospital no.	Age	Appointment	Regime			Questionnaire	St	atus	
BILLINGS, Sarah	B29700	56	[Dabigatran 75 mg Twice	e Daily	has no appointn	nent scheduled, a	N	one Schedule	d (active ti
HARRIS, Julie	H68899	114	l	Dabigatran 110mg bd		scehduled appo overdue appoint		N	one Schedule	d (active ti
DABIGATRAN, Lower Dose	75mgbd	89	12/08/2013	Dabigatran 75 mg Twice	e Daily		Dabigatran Initia	tion O	verdue (New	treatment
ADAMS, John	999	60	20/11/2014	Warfarin Mixed Tablets	(plain tex	d / Daily Avg)	Dabigatran Follo	w Up O	verdue (active	e treatment
GREEN, Caroline	H31871	103	29/01/2015	Dabigatran 110 mg twic	e daily		Dabigatran Follo	w Up O	verdue (stopp	ed treatme
DABIGATRAN, Ian	DAB123	88	14/02/2017	Dabigatran 150 mg twic	e daily		Dabigatran Initia	tion O	verdue (active	e treatment
DABIGATRAN, Ian	DAB123	88	20/02/2017	Dabigatran 150 mg twic	e daily		Dabigatran Follo	w Up O	verdue (active	e treatment

The list of patients may be filtered by date of next follow-up / clinic location / risk class / patient group / diagnosis.

Click on the filters on the left of the list view screen to tailor the list you wish to view.

Age alert indicates patients over 75 on unexpectedly high dose. Clinic may be filtered as the clinic chosen for the assessment or follow-up questionnaire (rather than the preferred clinic). 'All roles' filter for GP linked to latest treatment plan. Filter Records With v Scheduled & Overdue v Dates (Any date) v Clinic > Therapy > HC Professional/Team > Patient Group >

Note - The With / Without option top-left only applies to the top filter (Overdue in this case).

The Patient Search and Reports screens also provide searches on your DAWN AC database for patients on different anticoagulants.

(Overview page)

(Detailed Workflow page)

22.1.2 Integrated non-VKA / VKA patient record

The DAWN AC patient record accommodates treatments with warfarin and non-VKAs. Each patient has a treatment plan when they start a particular anticoagulant treatment. The treatment plan defines the key elements of the treatment such as dose, duration, *etc.*

ersonal Treatment	plans Questionnaires	Test Results	Interface Warning				
Anticoagulation (A	2)						
	<i>•</i>)						
active							
Start date	29/01/2015						
Duration	Indefinite						
Target range	non-VKA						
Anticoagulant	Dabigatran 110 mg twice daily						
GP	BN290461 - Heritage V I	-					
Consultant	LUL302 - Clark Betty						
stopped							
Start date	09/06/2006						
Duration	Treatment stopped - Sto	pped at: 29/01/2015	5 10:53				
Target range	2.0 - 3.0	-					
Anticoagulant	Warfarin 1, 3 and 5 stren	igth tablets					
GP	59 GORDON ROAD - CI	ranson B S					
Consultant	HEALTHCARE GROUP	& Co - Boocock F S	3				
Cessation Reason	Transfer to Dabigatran						

For DOACs, the anticoagulation history is accessed from the 'Questionnaire' tab -

Person	nal Treatment plans	Questionnaires Test Resu	Its Interface Warnings
O Add	a new record 🔸 1 - 2 / 2		
	QuestionnaireType	Entry date	Summary
9	Dabigatran Follow Up	20/05/2019	Scheduled
	Dabigatran Initiation	28/03/2014	CrCl: 103 mL/min (cre: 45 µM, Wt: 50 kg) - Dose: 150 mg twice daily

For VKA, the anticoagulation history is accessed from the History tab-

(Graph History	Pe	rsonal	Treatment plans	Questionnaires	Test Results	Interface	e Warning	S	
A	dd history data									
	Date	INR	Dose	Dosing Instruction	ons			Time	DNA	In range
	Tue 26/02/2019	0.0	0.00 d							
	Tue 04/12/2018	2.8	1.07 d	Warfarin Pills (1 mg) Pills (3 mg) Pills (5 mg) Total mg	Sun Mon Tue Wed Th 1% 1 1 1 1.5 1 1 1	nu Fri Sat 1 1 1 1 1 1 1		12 wk		
θ	Tue 11/09/2018	2.4	1.07 d	Warfarin Pills (1 mg) Pills (3 mg) Pills (5 mg) Total mg	Sun Mon Tue Wed Th 1½ 1 1 1 1.5 1 1 1	nu Fri Sat 1 1 1 1 1 1		12 wk		
θ	Tue 19/06/2018	2.8	1.07 d	Warfarin Pills (1 mg) Pills (3 mg) Pills (5 mg) Total mg	Sun Mon Tue Wed Th 1½ 1 1 1 1.5 1 1 1	nu Fri Sat 1 1 1 1 1 1 1 1		12 wk		

22.1.3 Questionnaires for non-VKA therapy management

Two structured questionnaires help you record all relevant details at the time the DOAC is **Initiated** or on **Follow-up** reviews for your patient:

For illustration purposes, this DOAC section of the manual uses the Dabigatran module:

Initiation Questionnaire (section 5.3.1) Follow-up Questionnaire (section 5.3.2)

The questions cover

- Indications and Risk Factors for each therapy
- Renal function including a calculator for Cockcroft-Gault estimate of CrCl
- Records for liver function or other tests
- Contraindicated or Interacting drugs including other anticoagulants or platelet inhibitors
- A reminder to ensure INR is not 2 or above if switching from a vitamin K antagonist
- Contraindicated conditions and Haemorrhagic Risks
- Records for CHA₂DS₂VASc and HASBLED scores
- Notes for planned procedures or other comments
- Dose

Coded comments can be used in all multi-line text boxes in the DOAC questionnaires There are some site configurable options such as optionally hiding or displaying some fields, see Configurable Options for the Non-VKA questionnaires

A You should ensure that the questionnaire content is appropriate for the drug manufacturer's current recommendations .

A follow-up may be scheduled for patients starting on DOAC therapy and the history for questionnaires is easily viewed on the Questionnaires tab -

Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
O Add a ne	w record + 1 - 2 / 2				
Qu	estionnaireType	Entry d	late Su	mmary	
😭 Dal	bigatran Follow Up	20/05/2	019 Sc	heduled	
😭 Dal	bigatran Initiation	28/03/2	014 Cr	CI: 103 ml /min (cre: 45	µM, Wt: 50 kg) - Dose: 150 mg twice daily

Patient details will appear on your Non-VKA list view when the date of the next follow-up is due.

(back to Overview page)

(back to Settings for Regime and Dose Settings page)

22.1.3.1 Initiation Questionnaire Example - Dabigatran

Assessment as a Candidate for Dabigatran Initiation

Patient Name:	Fitzherbert Barnaby	Due Date:	17/05/2019 09:30
			17/05/2019
			NB Please check this appointment is made in your clinic diary or hospital administration system.
Unit No:	F5	to be completed at	Default Clinic 🔹
		Status	Scheduled
Treatment Plan	Summary:		
Diagnosis:	ATRIAL FIBRILLATION NO	N VALVULAR	
Regime:	Warfarin 1mg Strength (in Ta	ablets / Weekly Total)	
Start Date:	01/09/2018		
Duration:	Long Term		
Status:	active		
Notes:	Not Recorded		

Questions:

Visit Type:	In Person v
Therapeutic Indication:	ATRIAL FIBRILLATION NON VALVULAR
Qualifying Risk Factors:	 Aged >= 65 with diabetes mellitus, coronary artery disease or hypertension Aged 75 or over Left ventricular ejection fraction < 40% Previous Stroke, transient ischaemic attack or systemic embolism (SEE) Symptomatic heart failure >= NYHA Class 2
Duration of use?	Long-term v
Planned end date of current anticoagulant:	
Planned start date of Dabigatran:	
If switching from VKA, please enter the current INR:	
is the INR >= 2?:	
Measured Creatinine Clearance:	mL/min

Cockcroft-Gault estimate	of CrCI: 1.23 x (140 - Age (years)) x Body Mass(kg) (x 0.85 if female)
Cockcroft D, Gault MD. Nephron, 16:31-41, 1976	serum creatinine (µmol/L)
Serum Creatinine:	105.00
Body Weight:	65 kg
Gender:	Male
Age (at due date):	52
Calculate Cockcroft-Gault CrCl	67 mL/min Mild renal impairment Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.
Hepatic Impairment:	Liver Enzymes > 2ULN
Other Blood Checks:	

These lists are for guidance only and are not exhaustive. Please use your clinical judgement before decision making. It is your responsibility to regularly check the manufacturer's recommendations for updates.

Click the link(s) below for more details on:

- Dabigatran Tablets 75 mg
- Dabigatran Tablets 110 mg
- Dabigatran Tablets 150 mg

Contraindicated Drugs:

- CICLOSPORIN
- DRONEDARONE
- ITRACONAZOLE
- KETOCONAZOLE
- TACROLIMUS

Interacting Drugs:

- AMIODARONE
- ASPIRIN
- CLARITHROMYCIN
- CLOPIDOGREL
- OTHER NSAIDs
- QUINIDINE
- TICAGRELOR
- VERAPAMIL

CLOPIDOGREL:

Close clinical surveillance (looking for signs of bleeding or anaemia)

Other anticoagulant or platelet	Abciximab
inhibitor:	Eptifibatide
	Heparin Heparin
	Prasugrel
	Sinthrome
	Ticagrelor
	Warfarin
	(Other)
If (other) please give details:	

If (other), please give details:

These lists are for guidance only and are not exhaustive. Please use your clinical judgement before decision making. It is your responsibility to regularly check the manufacturer's recommendations for updates.

Click the link(s) below for more details on:

- Dabigatran Tablets 75 mg
- Dabigatran Tablets 110 mg
- Dabigatran Tablets 150 mg

Other contraindications:

- Active clinically significant bleeding
- Hepatic impairment or liver disease expected to have any impact on survival
- Hypersensitivity to dabigatran etexilate
- Hypersensitivity to sunset yellow (E110)
- Organic lesion at risk of bleeding
- Prosthetic Heart Valve
- Severe renal impairment (CrCl<30ml/min)
- Spontaneous or pharmacological impairment of haemostasis

393

Haemorrhagic Risks:		Active ulcerative GI disease		
		Bacterial endocarditis		
		Brain, spinal or ophthalmic surgery		
		Congenital or acquired coagulation disorder		
		Recent biopsy or major trauma		
		Recent gastrointestinal bleeding		
	-	Recent ICH		
		Thrombocytopenia or functional platelet defects		
Relevant medical history/other	\square			
notes:				
CHA2DS-2VASc score?	3			•
	с	Congestive heart failure (or left ventricular systolic dysfunction)	1	
	н	Hypertension: blood pressure consistently above 140/90 mmHg (or treated hypertension on medication)	1	
	Az	Age ≥ 75 years	2	
	D	Diabetes Mellitus	1	
	Sz	Prior Stroke or TIA or thromboembolism	2	
	v	Vascular disease (e.g. peripheral artery disease, myocardial infarction, aortic plaque)	1	
	Δ	Age 65-74 years	1	

A Age 60-74 years Sc Sex category (i.e. female gender)

© 2024

1

HASPIED accre?		
HASBLED score?	1: Risk was 3.4% in one study	· · · · · · · · · · · · · · · · · · ·
	 Hypertension? systolic blood pressure>160 mmHg or unc Renal Disease? A (creatinine > 200uW or > 2.6mg/dL) Liver Disease? (cirrhosis, bilirubin>2xULN S Stroke History? B Prior Major Bleeding or Predisposition to L Labile INR? E Age ≥ 65 years Medication Usage Predisposing to Bleedi D (Antiplatelet agent / NSAIDs) Alcohol Usage History? 	1 N, AST/ALT/AP>3xULN) 1 b Bleeding? 1 1
Procedures planned:		
Who will follow your use of Dabigatran?	Anticoagulation clinic •	
Age (at due date):	52	
Key Information Summary:		
Rey mormation Summary.	Primary Indication:	ATRIAL FIBRILLATION NON VALVULAR
	Gender:	Male
	Age at Due Date:	52
	Weight:	65 Kg
	Serum Creatinine:	105.00 µmol/L
	Measured Creatinine Clearance (CrCl):	

Estimated CrCl (Cockcroft Gault):

67 mL/min

Dabigatran Tablets 15(
)abigatran Dose:	Dabigatran 110 mg Twice	Daily			
	Valid dosing regimes for this indication are:				
	Dosing regime	Advice			
	Dabigatran 150 mg twice daily	Normal dose			
	Dabigatran 110 mg Twice Daily	Patients aged 80 or over, or at risk of bleeding			
	Mild renal impairment				
Comments:		li di seconda di second			
Status: Scheduled					
Mark as complete					

(back to the Questionnaires page)

	Dabiga	atran Follow l	Jp
Patient Name:	Fitzherbert Barnaby	Due Date:	17/05/2019
			17/05/2019 ■ at: 00 : 00 24hr format
			NB Please check this appointment is made in your clinic diary or hospital administration system.
Unit No:	F5	to be completed at	(None selected)
		Status	Scheduled
Treatment Plan S	summary:		
Diagnosis:	ATRIAL FIBRILLATION NO	ON VALVULAR	
Regime:	Dabigatran 110 mg Twice [Daily	
Start Date:	17/05/2019		
Duration:	Long Term		
Status:	active		
Notes:	Not Recorded		

22.1.3.2 Follow-up Questionnaire Example - Dabigatran

Questions:

Visit Type:	(None selected)	T		
Therapeutic Indication:	ATRIAL FIBRILLATION NON VALVULAR			
Duration of use?	Indefinite			
Age (at due date):	52			
Dabigatran Dose:	Dabigatran 110 mg Twice Daily			
	Valid dosing regimes for this indication are:			
	Dosing regime	Advice		
	Dabigatran 150 mg twice daily	Normal dose		
	Dabigatran 110 mg Twice Daily	Patients aged 80 or over, or at risk of bleeding		
It is your responsibility to regularly check plan as required	the manufacturer's recommendati	ons for updates. Then update the treatment		
Click the link(s) below for more details on Dabigatran Tablets 75 mg Dabigatran Tablets 110 mg Dabigatran Tablets 150 mg				

Over the past two weeks:			
I have taken the correct dose every day		○ No	○ Yes
I might have taken too many capsules / table	its	○ No	○ Yes
I might have missed one or more doses		○ No	○ Yes
I take more than 3 other medications regular	ly	○ No	○ Yes
Stomach upset / burning / pain (0-9)		(Make a	choice) 🔻
Notes			j)
I have started a new medication recently	◎ No ◎ Yes		
Reasons for compliance problems:	 Dementia Fear of side-effects Gastroesophageal Reflux Disease Gastrointestinal Bleed Lack of information Lives alone Multiple medications Other Prescriptions from several doctors 		

399

Has the patient reported any adverse event (potentially due to current anticoagulant)?:

- Anaemia
- Bruising
- Blood in stools or melaena
- Epistaxis
- Haematoma
- Menorrhagia
- Vomiting blood
- Other (Please Specify)

NB Please follow local protocol for adverse event reporting to the relevant committee / agency / company.

YellowCard "r	regeri mina manafangar dépénanan 🦲
SUSCECTED A	COURSE OFICE OF ACTIONS
	THE REAL PROPERTY AND ADDRESS OF THE
ATEL STARS	teris i alcolo angli forma ng
PARTICIPAL PROPERTY AND INCOME.	
fractions man I start faith finds	Terms Terminer the menod fraction
PURPORTED MERITAINING COMMON	
	1 1011 mar
A second in print the second line	a statute statu
I an owner house als its party is success	The second second second second
Allowing B and	and the second s
and the second se	n a na na ka ka ila papari ni n a na ana sa a
	and the second
Annual in anythe sounds, and a first the state of the sound of the sou	ne over top the strip open of the spanner of the sp
	enter en la constante en la co
Annual in anythe sounds, and a first the state of the sound of the sou	Carrier and the second se
	nd Sector Sector Secto
	nd Sector Sector Secto

Measured Creatinine Clearance:

mL/min



Cockcroft-Gault esti	mate of CrCI:	1.23 x (140 - Age (years)) x Body Mass(kg) (x 0	.85 if female)
Cockcroft D, Gault ME Nephron, 16:31-41, 19		serum creatinine (µmol/L)	
Serum Creatinine:	◯ US (mg/dL)		
Body Weight:	kg		
Gender:	Male		
Age (at due date):	52		
Calculate Cockcroft-Gault CrCl	mL/min Please be aware of the limitations o diet.	f estimates of renal function in relation t	o muscle mass, race and
Hepatic Impairment:	Liver Enzyn	nes > 2ULN	
Other Blood Checks:			

These lists are for guidance only and are not exhaustive. Please use your clinical judgement before decision making. It is your responsibility to regularly check the manufacturer's recommendations for updates.

Click the link(s) below for more details on:

- Dabigatran Tablets 75 mg
- Dabigatran Tablets 110 mg
- Dabigatran Tablets 150 mg

Contraindicated Drugs:

- CICLOSPORIN
- DRONEDARONE
- ITRACONAZOLE
- KETOCONAZOLE
- TACROLIMUS

Interacting Drugs:

AMIODARONE

- ASPIRIN
- CLARITHROMYCIN
- CLOPIDOGREL
- OTHER NSAIDs
- QUINIDINE
- TICAGRELOR
- VERAPAMIL

CLOPIDOGREL: Close clinical surveillance (looking for signs of bleeding or anaemia)

402

Other anticoagulant or platelet inhibitor:	Abciximab
	Eptifibatide
	Heparin
	Prasugrel
	Sinthrome
	Ticagrelor
	Warfarin
	(Other)
If (other), please give details:	
	//
Other contraindications:	Active clinically significant bleeding
	Hepatic impairment or liver disease expected to have any impact on survival
	Hypersensitivity to dabigatran etexilate
	Hypersensitivity to sunset yellow (E110)
	Organic lesion at risk of bleeding
	Prosthetic Heart Valve
	Severe renal impairment (CrCl<30ml/min)
	Spontaneous or pharmacological impairment of haemostasis
Haemorrhagic Risks:	Active ulcerative GI disease
	Bacterial endocarditis
	Brain, spinal or ophthalmic surgery
	Congenital or acquired coagulation disorder
	Recent biopsy or major trauma
	Recent gastrointestinal bleeding
	Recent ICH

Thrombocytopenia or functional platelet defects

These lists are for guidance only and are not exhaustive. Please use your clinical judgement before decision making. It is your responsibility to regularly check the manufacturer's recommendations for updates.

Click the link(s) below for more details on:

- Dabigatran Tablets 75 mg
- Dabigatran Tablets 110 mg
- Dabigatran Tablets 150 mg

CHA2DS-2VASc score?

HASBLED score?

(None selected)

- Congestive heart failure (or left ventricular systolic dysfunction) с 1 Hypertension: blood pressure consistently above 140/90 mmHg (or treated hypertension on medication) н 1 2 A₂ Age ≥ 75 years D Diabetes Mellitus 1 S2 Prior Stroke or TIA or thromboembolism 2 Vascular disease (e.g. peripheral artery disease, myocardial infarction, aortic plaque) v 1 Α Age 65-74 years 1 Sc Sex category (i.e. female gender) 1 (None selected) Ŧ Hypertension? н 1 systolic blood pressure>160 mmHg or uncontrolled Renal Disease? (creatinine > 200uM or > 2.6mg/dL) 1 Α Liver Disease? (cirrhosis, bilirubin>2xULN, AST/ALT/AP>3xULN) 1 S Stroke History? 1 B Prior Major Bleeding or Predisposition to Bleeding? 1 L Labile INR? 1 E Age ≥ 65 years 1 Medication Usage Predisposing to Bleeding? D (Antiplatelet agent / NSAIDs) 1 1
 - Alcohol Usage History?

Ŧ

Procedures planned:				
Age (at due date):	52			
Key Information Summary:	Primary Indication:	Primary Indication:		
	Gender:		Male	
	Age at Due Date:		52	
	Weight:		Not answered	
	Serum Creatinine:		Not answered	
	Measured Creatinine Clearan	ce (CrCl):	Not answered	
	Estimated CrCl (Cockcroft Ga	ault):	Not answered	
Dabigatran Dose:	Dabigatran 110 mg Twice Da	ily		
	Valid dosing regimes for this	Valid dosing regimes for this indication are:		
	Dosing regime	Dosing regime Advice		
	Dabigatran 150 mg twice daily			
	Dabigatran 110 mg Twice Daily	Patient bleedir	s aged 80 or over, or at risk of Ig	
Dose Adjustment Required:	O No O Yes			
Comments:				1
Status: Scheduled	Last marked as complete	e: 17	7/05/2019 10:31 by Mark Jeffreys	
Mark as complete	Undo changes			
Information in this question Please ensure all answers a	naire is used to influence dosing re accurate and complete.	and thera	py decisions.	
ck to the Questionnaires page	A.			

22.1.4 Help to follow recommended guidelines

In this section, the software alerts and dose recommendations are explained. DAWN AC has settings for drug-specific contraindications and approved dosing regimes which are used within

the patient treatment plan and questionnaire to help the user adhere to the chosen guideline. The settings for risks, warnings and contraindications may be updated so that every review of the patient's anticoagulation is fully informed from the latest guidance.

DAWN AC will highlight the following on the questionnaire screen:

- Contraindicated concomitant drugs or conditions including impaired renal function (section 5.4.1 and section 5.4.2)
- Warnings on inconsistency and completeness based on advanced age (section 5.4.4)

Please Note: the above checks are not performed for the Apixaban Audit Tool

The system also performs some validation checks and highlights any discrepancies when the user activates a new non-VKA treatment plan. (section 5.4.5)

(click here to go back to Overview page)

(back to FAQs page)

22.1.4.1 Contraindications

Contraindications are highlighted in RED on the Initiation Questionnaire and shown on the Questionnaires tab summary comment. Pop-ups will also highlight contraindications on attempting to proceed with a plan for DOAC therapy.

X Contraindicated Drugs		CICLOSPORIN ITRACOMAZOLE TACROLIMUS	Questionnaire screen shows a red X
Personal Treatment plans	Questionnaires Test Results	t Interface Warrangs	Summary shows contraindicated
Add a new record → 1 - 2/2 GuestSernaireType Dabgatran Follow Up Dabgatran initiation	20/05/2019	Sennary Centrandicated OCC: 103 millioni (cite: 45 µM, Vit 50 kg) - Dose: 150 mg twice daily	
		neck the Initiation Qu dicated for this patie	Pop-up warning example
<u>^</u>		•	

The settings for contraindications may be updated as new medical evidence emerges using the Look Up Tables in DAWN AC.

(back to Help page)

22.1.4.2 Renal function

Guidelines recommend using an estimate of creatinine clearance rather than an eGFR calculation when dealing with patients on Dabigatran anticoagulation. DAWN AC provides a calculator for estimating renal function from serum creatinine and body weight.

Cockcroft-Gault estimate	of CrCI: 1.23 x (140 - Age (years)) x Body Mass(kg) (x 0.85 if female)
Cockcroft D, Gault MD. Nephron, 16:31-41, 1976	serum creatinine (µmol/L)
Serum Creatinine:	50.00 21/05/2019 ◯ US (mg/dL) [®] SI (μmol/L)
Body Weight:	60 kg 21/05/2019
Gender:	Female
Age (at due date):	86
Calculate Cockcroft-Gault CrCl	68 mL/min Mild renal impairment Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.

(back to Help page)

22.1.4.3 Warnings on inconsistency and completeness

Warnings are shown in red for age / mild renal impairment / other warnings. Eg in the Dabigatran Initiation Questionnaire

Dabigatran Dose:

Dabigatran 220mg once o	laily 🔻
This dose is not approved by the second s	opriate for this therapeutic indication
Dosing regime	Advice
Dabigatran 150 mg twice Normal dose daily	
Dabigatran 110 mg Twice Daily	Patients aged 80 or over, or at risk of bleeding

Moderate renal impairment

On activating a treatment plan for a non-VKA, several checks are made in the background and an error will highlight any discrepancy.

For example, DAWN AC will

- check that the patient has an appropriate Primary Diagnosis and highlight any not recognised as therapeutic indications for the anticoagulant.
- check that the user has completed an Initiation Questionnaire listing drugs, conditions and test results.
- check the dose of non-VKA anticoagulant is advised for the Primary Diagnosis.
- check that the same dose and diagnosis have been entered for the treatment plan and the Initiation Questionnaire.

The settings for warnings may be updated as new medical evidence emerges using the Look Up Tables in DAWN AC.

(back to Help page)

22.1.4.4 Overview of Validation Checks

Activation of a new treatment plan for non-VKA on DAWN AC triggers some background checks as follows.

activate

If the user selects 'activate' and all checks pass, the treatment plan is activated without error. If there is any discrepancy, an error message will indicate the problem and the user may correct the Initiation Questionnaire or the treatment plan or both and activate again. Should your DAWN AC settings need to be updated as new medical evidence emerges, please contact your system administrator.

Checks for non-VKA treatment plans -

• the primary diagnosis is one known to be acceptable for the chosen drug and dose

For example, you may have chosen 75mg once per day for Dabigatran in an AF patient. If this regime is not permitted, it will not be possible to complete an Initiation Questionnaire with this combination and a treatment plan cannot be activated and a follow-up cannot be scheduled..

DAWN AC performs 2 checks on every primary diagnosis. Firstly, the drug and diagnosis must be stored in your Look Up Tables as a Therapeutic indication like Dabigatran being acceptable as an anticoagulant in Atrial Fibrillation (non-valvular). Secondly, DAWN AC stores 'Permitted Regimes' for each diagnosis. So, several doses such as 150mg twice daily or 110mg twice daily may be acceptable but 75mg once per day may not be acceptable for Dabigatran in Atrial Fibrillation (non-valvular).

the drug chosen is not a non-VKA anticoagulant

For example, you may have chosen Warfarin mixed tablets regime and marked the treatment plan as non-VKA in the target range box.



You have selected a Non-Vitamin K Antagonist Target Range for an anticoagulant that is a Vitamin K Antagonist

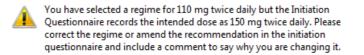
• the appropriate questionnaire has been completed BEFORE the treatment plan is activated

For example, you may select a treatment plan for Dabigatran 150mg twice daily but forget to go through the list of possible contraindications / interactions / risks. DAWN AC will prevent activation of the treatment plan and scheduling any follow-up until the questionnaire is completed.

The requirement for a questionnaire is set in the Look Up Table called 'Questionnaire settings' and may be updated by your system administrator to add any required questionnaires for particular drugs.

• the completed questionnaire has different details from the treatment plan

For example, you may select a treatment plan for Dabigatran 110mg twice daily on the Initiation Questionnaire but choose Dabigatran 150mg twice daily on the treatment plan.



(back to Help page)

(back to Settings for Regime and Dose Settings page)

22.1.5 Reporting on the non-VKA patient database

The powerful SQL reporting tools in DAWN AC can be configured to extract counts or lists of patients on certain anticoagulants. These reports may be used to assess recorded events in relation to the anticoagulant used.

Example 1 Patient count by range, diagnosis and duration (section 5.5.1)

Example 2 Events - all areas (section 5.5.2)

(click here to go back to Overview page)

22.1.5.1 Example 1

	Report	NPS	iA #7-8 Pati	ent Cnt By Range	e, Diag and Du	ration	•
	Diagnosis	- ANEUR - ANEUR - ANGIN - ANGIO - ANTI-I	SYM WITH A PLASTY PHOSPHOLI	ON EMBOLIC EPISC IPID SYNDROME 11 DEFICIENCY			
	TargetRange	2.0 - 3.0 2.5 - 3.5 3.0 - 4.0 3.0 - 4.5	(2.0 Target (2.5 Target (3.0 Target (3.5 Target (3.7 5 Target (4.0 Target)) =t)			
	Show report						
	Download as XI	ML					
	Download as Te	ext					
	Email address			S	end		
	^{gnosis} trial fibrillation nonval	vular	Target INR 0	Duration of The Indefinite	rapy Count	<u>10tal</u> 4	% of Total 50
т	otal hip replacement s	urgery	0	Indefinite	2	4	50

(back to reporting page)

22.1.5.2 Example 2

Report	EVENTS - all areas	~
Event Severity	Minor Moderate (No Moderate (Hos Major (Hospita Fatal	
Within How Many D	ays Of TP Start Date 90	
Events	Bleed lower C Bleed upper C Bleed upper C Bleeding - un Crorbral has Corobral has Corobral has Deep vein th Diarthosa an	GI E ty other site E morthage cular accident rombosis
Anticoagulant	Dabigatran 15	i0 mg once daily 🔹
Show report Download as XML Download as Text Email address	5en	d
	Events - all are	85
Status Na	ime DOB NHS Number	r MRN Event Severity
jotatus ma	ime UUDINHS NUMber	rinka Event Seventy

(back to reporting page)

22.1.6 Other Non-VKA agents / Questionnaires

Please note the module shown in this section is for Dabigatran, however modules are available that provide support separately for other non-VKAs such as Rivaroxaban, Apixaban and

Edoxaban through specifically-designed questionnaires for each agent. Please call for a quotation.

Contact 4S DAWN Clinical Software for more information at sales@4s-DAWN.com / support@4s-DAWN.com / 015395 63091.

(click here to go back to Overview page)

22.2 Detailed Non-VKA Workflow

The following workflow describes how to add and deal with a new patient on non-VKA therapy or edit an existing warfarin patient so that are logged as being on non-VKA therapy. The essential steps in recording non-VKA anticoagulation are as follows -

Search Q									
Selection:				Active patients	;		Patier	nts with active Treatment Plans for	or selected app.area
Search for:	Last nan	ne 🗍					First name		
	NHS No	0					Town		
	Post Cod	ie					Sex	-All-	
	Date of D	Death					Language		
	Home ph						Mobile phon	•	
	Email ad	dress					Next of kin n	lam	
	Last name	First name	Age	MRN	NHS No 🕄	Verified	Dateofbirth	Address 1	Address 2
▶ 🔳	ADAMS	John	58	999	012 345 6789	\checkmark	01/01/1959	11 SPRACKLANDS	Highgate
=	ADAMS	Julie	11	H23023	012 345 6789		01/08/2006	39 MAES YR & HAF	
	ADAMS	Mary	55	M47904	4560508360		18/01/1962	6 MARTIN AVE	TYNEMOUTH
=	ADAMS	Tom	71	S62778	8709784337		16/10/1946	FLAT 2	
=	ADAMSON	Fred	86	987654			29/04/1931	4 The Square	Milnthorpe
	ADD	history	45	33333	468 074 9709		01/01/1972		
	ALDERSON	Eddie	70	D78137			02/03/1947	12 ROCKCLIFFE GDNS	ASHFORD
	ANDERSON		107	T18164	1582273540		20/03/1910	6 HAULFRYN	
	AND Click on N	iew 🔴	80	P67190	3158256668		09/05/1937	5 MARKET PLACE	ROTHWELL
KK W	↓ Down	New 🛓 Sav	e 🖡	Print					

1. Check if the patient details are already on DAWN AC

Search Q		
Selection:		ł
Search for:	Last name	smith
	National No 3	

2. Add the patient details (identification numbers, name and address, <i>etc</i>) or update a previous record as required (section 10)	New Patient Wizard X Step 1 - Patient Details Last name First name Sex Title	Step 2 - Treatment (None selected)
	Assessment as a Cano	didate for Dabigatran Initiation
3. Complete an Initiation Questionnaire (section 6.1)	Patient Name: Fitzherbert Bannaby	Due Date: 24052019 24052019 at: 00 : 00 2407 format 2405 Bease check this appointment is made no system. administration system.
(Section 6.1)	Unit No: F5	to be completed at (None selected) • Status Scheduled
	Questions:	
	Status: Scheduled Mark as complete	
4. Stop any existing treatment plan for other anticoagulant or dose	Anticoagulant	Warfarin 1mg Strength (in Mg / Daily Avg)
(section 6.2.3)	Treatment Plan	3 > of 3 stopped
	L Barnaby, Fitzh	erbert - Male - 06/06/1947 - F5 - 836 Dawn Vill
5. Activate a treatment plan for the chosen	Risk Class	Low
anticoagulant and dose	Pref. Clinic	Default Clinic
(section 6.2.1)	Phone	- home
	Age:	71
	Diagnosis	TOTAL HIP REPLACEMENT SURGERY
	Target Range	Non-VKA
	Start Date	24/05/2019 9 - 14 wks. Due to stop: 30/08/2019
	Anticoagulant	Dabigatran 220mg once daily
	Treatment Plan	2 > of 3 active
	Risks	

6. Schedule the next follow-up as a Follow Up

Questionnaire (section 6.3)	Personal Treatment plans Questionn Add a new record + 1 - 2 / 2					
	QuestionnaireType	Entry date 18/06/2019	Summary Scheduled			
	Dabigatran Follow Up Dabigatran Initiation	24/05/2019	Complete: CrCl not recorded			

7. See the FAQs page for some common queries on the Non-VKA Workflow (section 6.4)



Don't forget to chase patients due for follow-up at regular intervals! - you'll find them listed on the list view for Non-VKA.

At some points you may need to -

- Change the dose of anticoagulant (section 6.2.3)
- Switch to a different anticoagulant (section 7)
- Stop the current anticoagulation record (section 6.2.3)
- · Mark the patient as inactive / deceased

In order to keep track of all your patients, you will need to follow the daily / weekly routines to check for patients overdue for follow-up or not yet actively treated.

22.2.1 Initiation Questionnaire

You can add a non-VKA Initiation Questionnaire to any patient from the Questionnaires tab.

For non-VKA anticoagulants, you must complete an Initiation Questionnaire before activating a treatment plan on DAWN AC.

L Watters, Wi	lma - Female - 4S-1265								
Risk Class	High	×		Dosing	Contacts	Letters	Drugs	Events	Procedures
Pref. Clinic	(None selected)	•		O Add a r	ew record				
Phone	- home	Ŧ			o items to displ	ау			
Age:									
Diagnosis									
Target Range Start Date	24/05/2019 😝 -								
Anticoagulant	24/05/2019 🐨 -								
Treatment Plan	A 1 ≫ of 1 New								
Risks	s i ≠ oi i mew								
				Graph	History	Personal	Treatmen	t plans	Questionnaires
Quick Notes			4	O Add a r					
Add Quick Note				There are no	o items to displ	ay			

The 'Due Date' will default to today but you can change this if you wish. If you are not ready to answer all the questions, simply click OK and the details may be completed later.

The questions cover

- Indications and Risk Factors for the non-VKA therapy (section 4.1.2.1 and section 4.1.2.2)
- Renal function including a calculator for Cockcroft-Gault estimate of CrCl (section

4.1.2.3)

- Records for hepatic impairment (section 4.1.2.4)
- Contraindicated or Interacting drugs including other anticoagulants or platelet inhibitors (section 4.1.2.5 and section 4.1.2.6)
- A reminder to ensure INR is not 2 or above if switching from a vitamin K antagonist
- Contraindicated conditions and Haemorrhagic Risks (section 4.1.2.9 and section 4.1.2.10)
- Records for CHA2DS2VASc and HASBLED scores (section 4.1.2.12)
- Notes for planned procedures or other comments
- Dose (section 4.1.2.11)

Please Note: most of the above questions are not displayed in the Apixaban Audit Tool. Instead, see Complete an Initiation Questionnaire - Apixaban Audit Tool

Once you have answered all sections, click on 'Mark as complete' at the bottom of the questionnaire.



(back to Integrated non-VKA / VKA patient record)

(back to Detailed Workflow page)

(back to Settings for Regime and Dose Settings page)

22.2.1.1 Schedule an Initiation (non-VKA)

On adding an Initiation Questionnaire, change the 'Due Date' to the date you will complete the details.

Asses	sment as a C	andidate for Da	abigatran Initiation
Patient Name:	Wilma Watters	Due Date:	24/05/2019 09:00 24/05/2019 ■ at: 09 : 00 24hr format
Unit No:	4S-1265	to be completed at	NB Please check this appointment is made in your clinic diary or hospital administration system. (None selected)
		Status	Scheduled

Click OK at the bottom of the Questionnaire screen to save this Initiation with the scheduled date.



You will find the questionnaire on the questionnaires tab for later completion.

Graph	History	Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings
O Add au	new record 🚽	1-1/1				
	new record -	1 - 17 1				
• Add at	Questionna			Entry date		Summary

Click here to learn how to schedule the questionnaire into a clinic diary

(back to Initiation Questionnaire page)

415

22.2.1.2 Schedule an Assessment in a Clinic Diary (non-VKA

You have the option to schedule DOAC (or non VKA) questionnaires into your normal clinic diaries. You can set up a dedicated DOAC clinic, or you can schedule DOAC patients alongside warfarin patients in the same clinic. (You can do this for both initiation or candidate questionnaires, and follow up questionnaires).

To enable scheduling of non-VKA questionnaires into clinic diaries:

1. Change the DOAC_Allow_Scheduling_Into_Diary system setting to 1.

2. Create or open the questionnaire you wish to schedule. The clinic, date and time fields now have a Schedule button beneath them.

Due Date:	01/06/2020 15:30
	01/06/2020 🗰 at: 15 : 30 24hr format
	NB Please check this appointment is made in your clinic diary or hospital administration system.
to be completed at	Default Clinic 🗸
Status	Not Scheduled: Schedule

- 3. Choose the clinic and the date you wish to schedule the appointment for.
- 4. If you want to try and schedule the appointment for a specific time, enter the time.

N.B. If you leave the time blank, DAWN checks whether the patient has a preferred time recorded on their treatment plan. If they do, DAWN tries to schedule the appointment for the the first available slot within the patient's preferred time window. If not, it schedules the appointment for the first available slot on the day.

5. Press the Schedule button. DAWN asks you to confirm you wish to schedule the

appointment in the clinic diary.

6. Click OK to schedule the appointment or Cancel to abandon the action.

DAWN attempts to schedule the appointment in the clinic diary. If it is successful, the date, time, and clinic fields become read-only and the *Schedule* button is replaced with an *Unschedule* button.

The time now shows the actual scheduled time, which may be different to the time you enter if that was not available.

Due Da	ite:	01/06/2020 15:30	
		01/06/2020	at: 15:30 24hr format
		NB Please check this appoint your clinic diary or hospital system.	
to be c	ompleted at	Default Clinic	
Status		Scheduled as above: UnSchedule	

If DAWN is unable to schedule the appointment into the diary for the selected clinic and day, it displays the clinic diary screen so that you can manually choose an alternative date, clinic, or time slot. (DAWN never automatically schedules into a reserved slot, but you can manually select a reserved slot if there is one free).

7. Press the Unschedule button to remove the questionnaire from the diary and free up the slot. N.B. this happens automatically if you delete the questionnaire.

22.2.1.3 Complete an Initiation Questionnaire

The Initiation questionnaire is structured to help you record all relevant details at the time the

non-VKA therapy is considered. See details of the Initiation Questionnaire. (section 4.1)

Matters Wilm	a Famala 40.4005								
	a - Female - 4S-1265								
Risk Class	High		•	Dosing	Contacts	Letters	Drugs	Events	Procedures
Pref. Clinic	(None selected)		T						
Phone	- home	1	T	Add a n	ew record	91/			
Age:				There are no	nema to diapi	ay			
Diagnosis									
Target Range									
Start Date	24/05/2019 🕒 -								
Anticoagulant	Not Set								
Treatment Plan	≮ 1 ≯ of 1 New								
Risks									
				Graph	History	Personal	Treatmen	t plans	Questionnaire
				O Add a n	aw record				
Quick Notes					items to displ	av			
Add Quick Note						-			

If you cannot answer some questions, simply click OK or Save and come back later to complete the answers.



On marking the answers as complete you are confirming that DAWN AC can store this record, display a summary on the questionnaires tab and check details against the treatment plan.

If you've added some details in error, Cancel your changes using 'Cancel' or the rewind button at the top of the screen -



If you need to delete a questionnaire completely, look for the bin symbol on the questionnaires tab and save before confirming you wish to delete this record:

	QuestionnaireType	Entry date	Summary
	Dabigatran Follow Up	24/05/2019	Scheduled
3	Dabigatran Follow Up	23/05/2019	Overdue
	Dabigatran Initiation	20/12/2018	Complete: CrCl: 600 mL/min (cre: 75 µmol/L, Wt: 65 kg) - Dose: 220 mg once daily

If you need to add more information or adjust the Initiation Questionnaire once it is already completed:

- 1. locate the completed questionnaire on the Questionnaires tab
- 2. select Unlock to edit

Unlock to edit

3. save your changes

NB - unlocking a previous questionnaire to edit it may cause the details to be updated with subsequent changes to the patient details. For example, if the patient was previously on an interacting drug which was later removed from your DAWN AC database, the drug would still be stored in the old completed questionnaire. On unlocking the old questionnaire, the record for this drug may no longer be available.

(back to Initiation Questionnaire page)

22.2.1.3.1 Therapeutic Indication

Therapeutic Indication:

The dropdown menu for Therapeutic indication displays options for the primary diagnosis. The available options are those set for any anticoagulant in the Lookup Tables as 'Therapeutic Indications'.

Selection of the most relevant therapeutic indication for your patient is recommended. If you are unsure, you might wish to complete this later.

(None selected)		
(None selected)		
RECURRENT DVT		
ATRIAL FIBRILLATIO	N NON VALVULAR	
TOTAL KNEE REPLA	CEMENT SURGERY	
TOTAL HIP REPLACE	EMENT SURGERY	
DVT - UNPROVOKED)	
PE - PROVOKED		
PE - UNPROVOKED		
RECURRENT PE		
DVT - PROVOKED		

See Lookup Tables to adjust the options displayed in this drop down menu.

(back to Initiation Questionnaire page)

(back to Settings for New Oral Anticoagulants page)

22.2.1.3.2 Qualifying Risk Factors

Select the tickbox next to any thrombotic risks your patient may have. Recording this information may be useful for later decisions on anticoagulation therapy.

 Qualifying Risk Factors:
 Aged >= 65 with diabetes mellitus, coronary artery disease or hypertension

 Aged 75 or over
 Left ventricular ejection fraction < 40%</td>

 Previous Stroke, transient ischaemic attack or systemic embolism (SEE)
 Symptomatic heart failure >= NYHA Class 2

The options displayed here are set in Look Up Tables as Qualifying Risk Factors.

(back to Initiation Questionnaire page)

22.2.1.3.3 Renal function

Estimates of renal function may be recorded in several ways on the Initiation Questionnaire and these will show contraindications / warnings for the non-VKA agent where renal function is impaired -

- measured creatinine clearance (laboratory estimation)
- serum creatinine
- · Cockcroft-Gault estimation of creatinine clearance
- · other measures may be recorded in the notes box

DAWN AC provides a calculator for estimating renal function from serum creatinine and body weight. Enter these 2 values and click on the 'Calculate Cockcroft-Gault CrCL'.

Guidelines recommend using an estimate of creatinine clearance rather than an eGFR calculation when dealing with patients on Dabigatran anticoagulation.

Cockcroft-Gault estimate	of CrCI: 1.23 x (140 - Age (years)) x Body Mass(kg) (x 0.85 if female)
Cockcroft D, Gault MD. Nephron, 16:31-41, 1976	serum creatinine (µmol/L)
Serum Creatinine:	50.00 21/05/2019 ◯ US (mg/dL) [●] SI (μmol/L)
Body Weight:	60 kg 21/05/2019
Gender:	Female
Age (at due date):	86
Calculate Cockcroft-Gault CrCl	68 mL/min Mild renal impairment Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.

Note - if you have a laboratory estimation which if less than a numeric value (like <30), please

enter the number (like 30) in the Measured Creatinine Clearance or Serum Creatinine boxes. Similarly for results which are reported as greater than a value (like > 220), please enter the numeric value (like 220).

The limits used for creatinine clearance differ according to which anticoagulant you are using. For dabigatran, they are are set as follows in DAWN -

less than 30severegreater than equal to 30moderateand less than 50greater than equal to 50mild

For rivaroxaban and apixaban, the threshold for severe renal impairment is 15 rather than 30.

The DAWN system alerts you if you add an unusually low or high serum creatinine or body weight measurement. If you get a warning message, please check the details you entered carefully.

Please Note: you can record serum creatinine results in mg/dL (as used in the USA) or in μ mol/L (as used in the UK). Please choose the radio button for the appropriate units. If you need to change the radio button, consider changing the default setting so that it will default correctly in the future.

To change the default setting, amend the *DefaultSerumCreatinineUnits* system setting, entering 1 for mg/dL or 2 for µmol/L. The initial value of the system setting is set according to your date format. If your system uses MM/DD/YYYY as the date format, the *DefaultSerumCreatinine* units is initially set to 1 for mg/dL. Otherwise it is initially t to 2 for µmol/L.

Upgrading from an earlier version of the Non-VKA module

The ability to specify which units you use for serum creatinine, was introduced in an upgrade to the Non-VKA module that was released in Jan 2016. Earlier versions only allowed serum creatinine results to be entered in μ mol/L. If you upgrade from an earlier version, DAWN remembers the date of the upgrade. If you open a questionnaire with a due by date that predates the upgrade and the questionnaire already has a result for serum creatinine, the result is assumed to be in μ mol/L as that was the only option available when the result was entered, even if the default for new questionnaires is mg/dL.

(back to Initiation Questionnaire page)

22.2.1.3.4 Hepatic impairment

If your patient is known to have hepatic impairment, tick the Hepatic impairment checkbox. In some studies, hepatic impairment is defined as liver enzyme results greater than twice the upper limit of normal.

Hepatic Impairment:	Liver Enzymes > 2ULN
Other Blood Checks:	

You may wish to add details of other blood tests in the notes box for later reference.

Note - some anticoagulants may not be recommended in patients with know hepatic impairment.

(back to Initiation Questionnaire page)

22.2.1.3.5 Contraindicated drugs

421

Some concomitant drugs may be known to be contraindicated for the chosen anticoagulant as published in the prescribing guidelines. Please tick any drugs if your patient is currently prescribed this drug.

Personal	Treatment plans	Questionnaires Test Res	ults Interface Warnings
• Add a	new record 🔸 1 - 2 / 2		
Q	uestionnaireType	Entry date	Summary
	QuestionnaireType	Entry date 20/05/2019	Summary Contraindicated

The list of drugs displayed are defined in the Look Up Tables on your DAWN AC database and additional drugs may be added to this list as required. Please contact your system administrator to add new drug settings to the 'Interacting Drugs' table.

(back to Initiation Questionnaire page)

(back to FAQs page)

(back to Interacting Drugs Settings page)

22.2.1.3.6 Interacting drugs

Some interacting drugs may be known to increase the haemorrhagic risk if used along with the chosen anticoagulant. See relevant published prescribing guidelines. Please tick any drugs if your patient is currently prescribed this drug.

Interacting Drugs:	AMIODARONE
	ASPIRIN
	CLARITHROMYCIN
	CLOPIDOGREL
	OTHER NSAIDs
	QUINIDINE
	TICAGRELOR
	VERAPAMIL

Other anticoagulant or platelet inhibitor

Selecting one or more listed drugs will cause some advice to be displayed on screen like this:

Interacting Drugs:	AMIODARONE	CLOPIDOGREL: Close clinical surveillance (looking for signs of bleeding or anaemia)
	CLARITHROMYCIN	QUINIDINE:
	CLOPIDOGREL	For prevention of VTEs after hip or knee surgery, dosing should be reduced to
	OTHER NSAIDs	150mg per day taken once daily as 2
	QUINIDINE	capsules of 75mg dabigatran etexilate. Close clinical surveillance particularly in
	TICAGRELOR	the occurrence of bleeding, notably in patients having a mild to moderate renal
	VERAPAMIL	impairment

The list of drugs displayed and the advice displayed on screen are defined in the Look Up Tables on your DAWN AC database. Updates to the advice or additional drugs may be added to this list as required. Please contact your system administrator to add new drug settings to the 'Interacting Drugs' table.

(back to Initiation Questionnaire page)

(back to Interacting Drugs Settings page)

22.2.1.3.7 Other anticoagulant or platelet inhibitor

It is important to record any other anticoagulant or platelet inhibitor prescribed along with the non-VKA agent even if this for a short period.

Other anticoagulant or platelet inhibitor:		Abciximab
		Eptifibatide
		Heparin
		Prasugrel
		Sinthrome
		Ticagrelor
	4	Warfarin
		(Other)
If (other), please give details:	to	continue 1mg per day until Tuesday 28th

The list of drugs displayed may be added to or edited in the General Lookup Category for 'Anticoagulant or Platelet Inhibitors' - please contact your system administrator to arrange changes to the displayed options.

(back to Initiation Questionnaire page)

22.2.1.3.8 Switching from VKA

If your patient is switching from warfarin (or other vitamin K antagonist) to a non-VKA agent, please check the latest INR result and tick the box if it is greater than 1.9.

If switching from VKA, is the INR >= 2?	V	Delay starting dabigatran until INR < 2

(back to Initiation Questionnaire page)

22.2.1.3.9 Other contraindications

Please tick any of the other contraindications which apply to your patient. These risks are identified in prescribing guidelines as contraindications for dosing with non-VKA agents.

Other contraindications:

423

 aindications:
 Active clinically significant bleeding

 Hepatic impairment or liver disease expected to have any impact on survival

 Hypersensitivity to dabigatran etexilate

 Hypersensitivity to sunset yellow (E110)

 Organic lesion at risk of bleeding

 Prosthetic Heart Valve

 Severe renal impairment (CrCl<30ml/min)</td>

 Spontaneous or pharmacological impairment of haemostasis

The list of contraindications displayed on the Initiation Questionnaire may be edited / added to by your system administrator using the Look Up Tables called Risks and Specific Risks.

NB - any risks identified on the Initiation Questionnaire will **NOT** automatically display at the top-left of your patient screen. You may wish to highlight these manually on the patient screen either by adding Risks for a new patient or clicking on the 'Risks' button to add risks for an existing patient screen.

Risk Class	Low	
Pref. Clinic	(None selected)	T
Phone	- home	•
Age:	71	
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR	
Target Range	Non-VKA	
Start Date	24/05/2019 9 - Indefinite	
Anticoagulant	Dabigatran 110 mg Twice Daily	
Treatment Plan	<pre>\$ 2 > of 2 active</pre>	
Risks	\frown	

(back to Initiation Questionnaire page)

(back to Risk Settings page)

22.2.1.3.10 Haemorrhagic risks

Please tick any of the risks which apply to your patient. These risks are identified in prescribing guidelines as significant risks for consideration in dosing decisions for non-VKA agents.

Haemorrhagic Risks:	Active ulcerative GI disease
	Bacterial endocarditis
	Brain, spinal or ophthalmic surgery
	Congenital or acquired coagulation disorder
	Recent biopsy or major trauma
	Recent gastrointestinal bleeding
	Recent ICH
	Thrombocytopenia or functional platelet defects

The list of haemorrhagic risks may be edited / added to by your system administrator using the Look Up Tables called Risks and Specific Risks.

NB - any risks identified on the Initiation Questionnaire will **NOT** automatically display at the top-left of your patient screen - see adding Risks for a new patient section or click on 'Risks' button to add risks on the patient screen.

Risk Class	Low	•
Pref. Clinic	(None selected)	•
Phone	- home	Ŧ
Age:	71	
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR	
Target Range	Non-VKA	
Start Date	24/05/2019 😔 - Indefinite	
Anticoagulant	Dabigatran 110 mg Twice Daily	
Treatment Plan	<pre>\$ 2 > of 2 active</pre>	
Risks	\bigcirc	

(back to Initiation Questionnaire page)

(back to FAQs page)

(back to Risk Settings page)

22.2.1.3.11 Dose Suggestion

For DOACs other than Dabigatran, the system suggests a dose, so long as no contra-indications have been identified and certain key fields have been filled in. The suggestion takes into account a variety of

425

factors depending on the DOAC and therapeutic indication. These factors include: renal function, age, weight and, for Rivaroxaban and Apixaban candidate modules, VTE induction status (if this field is displayed.)

Dose Options:	Dosing regime	Advice
	Rivaroxaban 15 mg Twice Daily	Normal Dose Day 1-21
	Rivaroxaban 20 mg Once Daily	Normal Dose Day 22 onwards (normal renal function to severe renal impairment CrCl >=15mL/min)
		A reduction of the dose from 20mg once daily to 15 mg once daily should be considered if the patient's assessed risk for bleeding outweighs the risk for recurrent DVT and PE.
Suggested Dose:	15mg twice	daily for three weeks and then 20mg once daily
Please use your clinical judgement before check the manufacturer's recommendation	-	the most appropriate dose. It is your responsibility to regularly es.
Click the link(s) below for more details on • Rivaroxaban Tablets	5	
Rivaroxaban Dose:	(None sel	ected) v

If insufficient information is provided to make a suggestion, the system instead specifies what information needs to be keyed.

This dose is only a suggestion and might not take into account all the factors specified within the Dose Options advice table above or any other patient specific factors.

Please use your clinical judgement before deciding on the most appropriate dose.

It is possible to hide the suggested dose for all DOACs. The *Suggested Dose* is based solely on the manufacturers' original recommendations alone and does not take into account any customisations you make to the Permitted Regimes table - in particular, the Clinical Advice you can add or update for each regime. In order to prevent an inconsistent or misleading suggestion, you should *hide the Suggested Dose* if you make significant changes to the Permitted Regimes table.

22.2.1.3.12 Dose

The dose recorded on the Initiation Questionnaire may be chosen from any regime for this anticoagulant on DAWN AC. For example, in Dabigatran:

Dabigatran Dose:	(None selected)		
	Valid dosing regimes for this	indication are:	
	Dosing regime	Advice	
	Dabigatran 150 mg twice daily	Normal dose	
	Dabigatran 110 mg Twice Daily	Patients aged 80 or over, or at risk of bleeding	

This screen shows advice for permitted regimes set for the chosen Therapeutic Indication (at the top of this questionnaire). To update or change the displayed options, request that your system administrator edits the settings for Anticoagulation Tables.

(back to Initiation Questionnaire page)

22.2.1.3.13 CHADS and HASBLED scores

CHA₂DS-₂VASc and HASBLED scores may be optionally recorded from the dropdown menus on your questionnaire.

CHA2DS-2VASc score?	(None selected)	v
	(None selected)	
	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
HASBLED score?	(None selected)	•
	(None selected)	
	0: Risk was 0.9% in one study	
	1: Risk was 3.4% in one study	
	2: Risk was 4.1% in one study	
	3: Risk was 5.8% in one study	
	4: Risk was 8.9% in one study	
	5: Risk was 9.1% in one study	
	6: Risk > 9.1%	
	7: Risk > 9.1%	
	8: Risk > 9.1%	
	9: Risk > 9.1%	

The dropdown options are provided from the settings in your DAWN AC Normal Tables, General Lookup Category (CHA2DS2-VASc Score and HASBLED). You may wish to request that your system manager updates the options available.

(back to Initiation Questionnaire page)

22.2.1.3.14 Apixaban Audit Tool - Complete an Initiation Questionnaire

Pfizer Limited (Pfizer) on behalf of the Bristol-Myers Squibb (BMS) - Pfizer Alliance funded the initial development of and made a contribution to the cost of the initial licence fees of this Apixaban (Eliquis@) software module, however neither Pfizer nor BMS any longer owns, manages or is responsible for this module or any associated content. Any adverse events should be reported to the MHRA via the yellow card reporting system which can be found at www.mhrs.gov.uk/yellowcard

For this questionnaire, the sections:

- Therapeutic Indication
- Switching from VKA
- CHADS and HASBLED scores

are as described above.

Please Note: In contrast to the other non-VKA questionnaires, the Apixaban Audit Tool does not have lists of possible contraindicated & cautioned drugs etc and other preventions/ warnings. Instead, this questionnaire captures the keyed patient information and the decision as to whether to proceed to prescribe Apixaban. For details, see Mark the Patient to be Started or Not on Apixaban

See also

- Renal function for the Apixaban Audit Tool
- Dose for the Apixaban Audit Tool

(back to Initiation Questionnaire page)

22.2.1.3.14.1 Renal function for the Apixaban Audit Tool

Estimates of renal function may be recorded in several ways on the Apixaban Audit Tool Questionnaires:

- measured creatinine clearance (laboratory estimation)
- eGFR
- serum creatinine
- Cockcroft-Gault estimation of creatinine clearance
- other measures may be recorded in the Other Tests box

Measured Creatinine Clearance:	mL/min
eGFR:	mL/min
Serum Creatinine:	◯ US (mg/dL) SI (µmol/L) *
Body Weight:	kg *
Gender:	Male
Age (at due date)	63
Estimated CrCI (Cockcroft-Gault):	ML/min Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.
Other Blood Checks:	

Note - if you have a laboratory estimation which includes eg a greater than or less than symbol (eg <30 or >220) or similar, please enter the numeric value *number* (eg 30) in the field.

The DAWN system alerts you if you add an unusually low or high serum creatinine or body weight measurement. If you get a warning message, please check the details you entered carefully.

Please Note: you can record serum creatinine results in mg/dL (as used in the USA) or in µmol/L (as used in the UK). Please choose the radio button for the appropriate units. If you need to change the radio button, consider changing the default setting so that it will default correctly in the future.

22.2.1.3.14.2 Mark the Patient to be Started or Not on Apixaban

Patient to be continued on Apixaban?	● Yes ○ No
Planned Duration:	

Click **Yes** to record that the patient is to be started on Apixaban. This will display relevant additional fields, in particular, the Dose field. (If the Dose field is *not* displayed, it is likely to be because you have omitted to key a Primary Indication.)

Click **No** to record that the patient is **not** to be started on Apixaban. This will hide any displayed dosing fields and display a field for capturing an optional reason why.

Note - An Apixaban treatment plan can only be activated for this patient if you have set the decision to Yes and keyed a dose.

22.2.1.3.14.3 Dose for the Apixaban Audit Tool

The *Initial (or only) Apixaban Dose* field is only displayed when you have selected a *Primary Indication* AND set *Patient (to be) started on Apixaban?* to Yes.

The dose options offered are limited to those that are permitted for the selected Primary Indication.

For an individual patient, you can overide this to select from *all* the permitted regimes set up for Apixaban. To do this, set '*Allow All Possible Regimes*' to Yes.

Initial (or only) Apixaban dose:	(None Selected)
Allow All Possible Regimes?	O Yes No

If the 'Allow All Possible Regies' buttons are disabled and you wish to use this override facility, please get in touch with 4S for assistance.

If you have chosen a VTE type diagnosis AND the Initial Dose is 10 mg Twice Daily:

2 additional fields are displayed in which to record the post-initiation dose & date.

Apixaban Dose:	Apixaban 2.5 mg Twice Daily	
Suggested dose:	5mg taken twice daily	
Dose Adjustment Required:	 No Yes Remember to update the regime in the treatment plan 	
Reason for dose adjustment:	 Weight Change Liver Function Renal Function Hematocrit Drop Adverse Event Interacting Medications Other Adjustment Comments:	

Additionally, if you have keyed a *Planned Apixaban Start Date*, advice on when to change the dose is displayed.

Please Note: If you need to change the permitted doses eg to offer additional dose options for a particular indication, please get in touch with 4S.

22.2.2 Non-VKA treatment plan

Non-vitamin K antagonist therapy is recorded on DAWN AC using a new treatment plan. Modules are available for different non-VKA agents, allowing protocols for initiation and followup of each type of therapy.

Barnaby, Fitz	herbert - Male - 06/06/1947 - F5 - 836 Day	wn Villas, The Square, Milnthorpe
Risk Class	Low	*
Pref. Clinic	(None selected)	¥
Phone	- home	Ψ
Age:	71	non-VKA therapies have a target range of 'non-VKA'
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR	rather than an INR target
Target Range	Non-VKA	
Start Date	24/05/2019 9 - Indefinite	
Anticoagulant	Dabigatran 110 mg Twice Daily	chosen dose for
Treatment Plan	2 > of 2 active	Dabigatran is shown on the main patient screen
tre	our patient may have a series of eatment plans but only one may be irrrently active	as the Anticoagulant regime

Any significant change in the patient's anticoagulation management should be recorded by stopping the existing treatment plan and starting a new treatment plan.

NB – DAWN AC will prevent a change of anticoagulant within an active treatment plan and require any existing treatment plan to be stopped.

DAWN AC provides INR and dosing screens for VKA (like warfarin) and questionnaires for non-VKA management. Each Questionnaire can be scheduled in advance and completed to store the important information for your patient. Complete all sections and mark as complete.

See sections on changing treatment plan / stopping a treatment plan / starting a treatment plan for a new patient / viewing patient history.

(back to Detailed Workflow page)

22.2.2.1 Starting a non-VKA treatment plan

The steps to starting a treatment plan for your patient on DAWN AC are outlined below as are the essential information you need for the treatment plan.

STEPS -

1. Add your patient to DAWN (see how to add a patient record) AND add an initiation questionnaire.

If your patient already has a record on DAWN AC, ensure any other anticoagulation treatment plan is stopped and click on Treatment Plan and 'New' to add a new treatment plan. If your patient has no record on DAWN AC, the New button on the Patient Search screen will take you to the following 'New Patient Wizard screen.

New Patient Wizard 🗙							
Step 1 - Patient Details Step	p 2 - Treatment Plan Details Step 3 - Next Of Kin Details Step 4 - Clinical Details Step 5 - Contact Details			the Regime can be sele	cted here or		
Therapy		Dosing and Tablet O	ptions	decided later (once Initia Questionnaire complete			
	coaculation	• Use Dosing Regime?		(blane	selected)	¥	
	V - ATRIAL FIBRILLATION NON VALVULAR	Ose Dusing Regime O Use Customised Tab		(rone	3000003		
	luction	Anticoagulant:	Warfar	'n	Record Dose As:	Weekly Total	
	intenance inual Bridging	Brand:	UK Ge	peric	Split Tablet Into:	Half a Tablet	
Induction algorithm (Nor	ne selected)	*					
	5/2019	• Tablet Strength:	Pills (1				
Duration (Nor	ne selected) Choose a duration type Days	 Show Total mg Dos 	e Line Yes		Dose In	Tablets	
First seen date	TTORNS LUgys						
Preferred clinic (Nor	ne selected)	 Initial Status 					
Preferred Time Next test date	To	Set the status of t	the TreatmentPlan to Ac	tive (Requires a Diagnosis, Ta	irgetRange, Regime, StartDate an	d Duration type)	
Laboratory (Nor	ne selected)	 Set the status of t 	the TreatmentPlan to Ac	mitted			
				tive Admitted (Requires a Diag	gnosis, TargetRange, Regime, Sta	rtDate and Duration type)	
Dosing Limits		> Decide later	non-VKA	then click 'Finish'			
Referral		>					
Transport	\sim	>					
tient 🗙							
1 Watters	, Wilma - Female - 4S-1265						
Risk Class	High	Ŧ		Dosing	Contacts	Letters Drugs	
Pref. Clinic	(None selected)	v				5	
Phone	- home			 This therapy is managed using Questionnaires. 			
Age:					hedule a question Press the 🛅 bu	naire: tton on the Questionna	
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR			2.	Set the due date	as appropriate.	
Target Range	Non-VKA			3.	Press OK.		
Start Date	24/05/2019 🔁 -						
Anticoagular here	ick on the Treatment Plan link and then click on the Activate on to activate.						
Treatment Plan	≪ 1 ≯ of1 New			Personal	Treatment pla	ans Questionnaire	
Risks				• Add a ne	w record		
				There are no	items to display	1. add an Initiation Questionnaire	
Quick Notes			/_				
O Add Quick Note	3						

3. Schedule a Follow-up questionnaire (section 4.3)

The essential choices on a DAWN AC treatment plan are

• Primary diagnosis - must be listed as a therapeutic indication for the non-VKA

anticoagulant agent (contact your system administrator if you have problems activating your treatment plan).

rimary diagnosis	(None selected)	
	Search for:	
	- STENT FITTED	
	- SUB ACUTE BATCERIO ENDOCARDI	
	- SUBCLAVIAN VEIN CLOT	
	- THR PROPHYLAXIS	
	- THROMBOEMBOLISM PROPHYLAXIS	
	- THROMBOTIC TEND ANTI T3 DEFIC	
	- THROMBOTIC TENDENCY LUPUS A/C	
	- THROMBOTIC TENDENCY PROTCDEFIC	
	- THROMBOTIC TENDENCY PROTSDEFIC	
	- THROMBOTIC TENDENCY UNSPEC	
	- TRANSIENT ISCHAEMIC ATTACKS	
	- TRICUSPID VALVE REP MECHANICAL	
	- UNSTABLE ANGINA.	
	- VALVE REP MECHANICAL DOUBLE	
	- VALVE REP TISSUE DOUBLE	
	- VALVULAR HEART DISEASE UNSPEC	
	- VALVULAR REP MECHANICAL DOUBLE	
	- VALVULAR REPLACEMENT MECHANIC	
	- VALVULAR REPLACEMENT TISSUE	
	- VALVULAR REPLACEMENT UNSPEC	
	- VENTRICULAR SEPTAL DEFECT	
	AFNV - ATRIAL FIBRILLATION NON VALVULAR	
	ORTHO_HIP - TOTAL HIP REPLACEMENT SURGERY	
	ORTHO_KNEE - TOTAL KNEE REPLACEMENT SURGERY	
	RecDVT - RECURRENT DVT	
	RecPE - RECURRENT PE	

• Target range - must be 'non-VKA' for non vitamin K antagonists

• **Regime** - choose the dose

Dosing and Tablet Options	
● Use Dosing Regime?	(None selected)
	Bearch for:
	(None selected)
	Apixaban 2.5 mg Twice Daily
	Apixaban 10 mg Twice Daily
	Apixaban 5 mg Twice Daily
	Dabigatran 110 mg Twice Daily
	Dabigatran 150 mg Once Daily
	Dabigatran 150 mg twice daily
	Dabigatran 220mg once daily
	Dabigatran 75 mg Once Daily

• Duration type - short term requires a duration / long term has no duration

The treatment plan may not be activated without these selections but, if you do not have the details at hand, you can save the treatment plan and activate it later.

(back to Detailed Workflow page)

(back to FAQs page)

22.2.2.2 Changing a non-VKA treatment plan

It is strongly recommended that you stop the treatment plan and start a new treatment plan for any significant change in the patient's anticoagulation. (section 4.2.3 and section 4.2.1)

For example,

• changing dose from 220mg once daily to 150mg once daily

ersonal Treatment plans	Questionnaires Test Results Interface W		
 Anticoagulation (AC) 			
active			
Start date	24/05/2019 9		
Duration	Indefinite		
Target range	Non-VKA		
Anticoagulant	Dabigatran 150 mg Once Daily		
Referring GP	-		
Consultant	nt -		
stopped			
Start date	01/05/2019 9		
Duration	Treatment stopped - Stopped at: 24/05/2019 11:41		
Target range Non-VKA			
Anticoagulant Dabigatran 220mg once daily			
Referring GP			
Consultant	-		
Notes	Increased Haemorrhagic risk		

or

• changing the reason for anticoagulation

Disease area	Primary Diagnosis	Start date	Duration in weeks	Status
Anticoagulation	ORTHO_HIP - TOTAL HIP REPLACEMENT SURGERY (24/05/2019)	24/05/2019		active
Anticoagulation	AFNV - ATRIAL FIBRILLATION NON VALVULAR (24/05/2019)	08/09/2018		stopped

Please Note: If you do stop the treatment plan, you will need to create a new DOAC initiation questionnaire before activating the new treatment plan.

For less significant changes such as a change to clinic or duration of treatment, click on the Treatment plan to edit and save your changes.

Any changes to the treatment plan will be audited in the 'Audit' tab on the Treatment Plan screen like this -

Dosing and Tablet Options				
⊘ Use Dosing Regime? Dabigatran 150 mg Once Daily ▼			¥	
○ Use Customised Tablet options?				
Referral Transport Admission Notes VGR History Audit				
This treatment plan Therapy phases Test limits				
Change Log				
Date Field	Changed From	Changed To	*	
24/05/2019 11:48 fkiPreferredClinicID		Default Clinic (4S Dawn Clinical Software)		
24/05/2019 11:48 iDurationInWeeks	12	14		

(back to Detailed Workflow page)

22.2.2.3 Stopping a non-VKA treatment plan

For any significant change to a patient's anticoagulation, such as changing drug or restarting after a period on different or no anticoagulation, please stop the treatment plan and start a new treatment plan.

- 1. click on Treatment plan on the Patient screen
- 2. select a Cessation reason mandatory only if cessation reasons are available on your DAWN AC database. (this option may not be set up for your DAWN AC system)
- 3. click on stop
- 4. click on OK to the pop-up box.

Patient: Barnaby Fitzh	nerbert (06/	06/1947) # F5 / Treatment plans: Anticoagulation: 24/05/2019
Anticoagulation		
Primary Diagnosis		ORTHO_HIP - TOTAL HIP REPLACEMENT SURGERY (24/05/2019)
Start date		First seen date
Duration		Short Term • 14 Weeks Days
		14 wks. Due to stop: 30/08/2019
Preferred clinic		Default Clinic (4S Dawn Clinical Software)
Preferred time		From until
Status	active	suspen stop dmit

1	Are you sure you wish to stop this treatment plan?
	You can give a short explanation in the text-field below (optional)
	6
	OK Cancel

¹ Hint - add relevant details in the Notes tab as they will be easily viewed later on the Treatment Plans tab of the main patient screen like this.

aph History	Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings
Anticoagulation (AC)				
active					
Start date Duration Target range Anticoagulant Referring GP Consultant		24/05/2019 9 4 wks. Due to stop: 2 2.0 - 3.0 (2.5 Target) Warfarin 1mg Streng -			
stopped					
Start date Duration Target range Anticoagulant Referring GP Consultant Notes		24/05/2019 9 Treatment stopped - Non-VKA Dabigatran 150 mg C - - - Increasing Gl upset -	·		eeks (GP informed)

Dosing and Tablet Options	
 Use Dosing Regime? Use Customised Tablet options? 	Dabigatran 150 mg Once Daily
Referral Transport Admission Notes VGR Increasing GI upset - switching to warfarin for remaining 4 weeks Notes important	

(back to Detailed Workflow page)

22.2.3 Follow-up Questionnaire

To review the dose for a patient on Dabigatran or other non-VKA agent, locate the patient record using either the search facility or the list view.

Once you locate the patient record:

• complete a Follow-up Questionnaire (section 4.3)

AND

• add another Follow-up questionnaire scheduled for the next review date. (section 4.3.1)

(back to Complete a Follow-up page)

(back to Detailed Workflow page)

22.2.3.1 Schedule a Follow-up (Non-VKA)

	Dabigatr	an Follow Up)
Patient Name:	Fitzherbert Barnaby	Due Date:	23/05/2019 23/05/2019 at: 00 : 00 24hr format
			NB Please check this appointment is made in your clinic diary or hospital administration system.
Unit No:	F5	to be completed at	(None selected)
		Status	Scheduled

On adding a Follow-up Questionnaire, change the 'Due Date' to the date you will complete the details.

Click OK at the bottom of the Questionnaire screen to save this Follow-up with the scheduled date.



You will find the questionnaire on the questionnaires tab for later completion.

Personal	Treatment plans	Questionnaires	Test Results	Interface W
• Add a new	w record → 1 - 2 / 2			
QuestionnaireType		Entry of	late Su	mmary
Dabigatran Follow Up		23/05/2	2019 Sc	heduled
Dabigatran Initiation		20/12/2	2018 Co	mplete: CrCl: 6

Click here to learn how to schedule the questionnaire into a clinic diary

Schedule_an_Asssessment_in_a_C

(back to Complete a Follow-up page)

(back to Detailed Workflow page)

(back to Starting a Non-VKA Treatment Plan page)

22.2.3.2 Complete a Follow-up (Non-VKA)

The Follow-up Questionnaire will display details from the patient's treatment plan as shown. It is not possible to schedule a Follow-up Questionnaire for this non-VKA agent unless an active treatment plan for this agent has been set.

Treatment Plan	Summary:
Diagnosis:	ATRIAL FIBRILLATION NON VALVULAR
Regime:	Dabigatran 110 mg Twice Daily
Start Date:	24/05/2019
Duration:	Long Term
Status:	active
Notes:	GP requested consideration of switch to DOAC due to lifestyle

Questions:

Visit Type:	(None selected)	•
Therapeutic Indication:	ATRIAL FIBRILLATION NON VALVULAR	
Duration of use?	Indefinite	
Age (at due date):	80	
Dabigatran Dose:	Dabigatran 110 mg Twice Daily	

The questions cover

- compliance issues (patient questions and reasons for compliance issues)
- adverse events
- renal function including a calculator for Cockcroft-Gault estimate of CrCl
- records for liver function or other tests
- contraindicated or interacting drugs including other anticoagulants or platelet inhibitors
- contraindicated conditions and haemorrhagic risks
- records for CHA2DS2VASc and HASBLED scores
- notes for planned procedures or other comments

Please Note - Not all of the above items are on the Apixaban Audit Tool. See Apixaban Audit Tool - Completing a Follow-up for details.

If you cannot answer some questions, simply click OK or Save and come back later to complete the answers.



Once you have answered all questions, check the existing dose (as set on the treatment plan) carefully. If it requires adjusting, set the 'Dose Adjustment Required' option to Yes. A list of reasons for adjustment and comments box is then displayed.

Then click on 'Mark as complete' and then schedule another Follow Up for your patient if relevant. See details of the Follow-up Questionnaire. (section 4.3.1 and section 4.3)



On marking the answers as complete you are confirming that DAWN AC can store this record and display a summary on the questionnaires tab.

Following completion of the questionnaire, update the treatment plan with any A changes eg to the regime, duration.

If you've added some details in error, Cancel your changes using 'Cancel' or the rewind button at the top of the screen -



If you need to delete a questionnaire completely, look for the bin symbol on the questionnaires tab and save before confirming you wish to delete this record:

	QuestionnaireType	Entry date	Summary
	Dabigatran Follow Up	24/05/2019	Scheduled
9	Dabigatran Follow Up	23/05/2019	Overdue
	Dabigatran Initiation	20/12/2018	Complete: CrCl: 600 mL/min (cre: 75 µmol/L, Wt: 65 kg) - Dose: 220 mg once daily

If you need to add more information or adjust the Follow-up Questionnaire which is already completed:

1. locate the completed questionnaire on the Questionnaires tab



2. select Unlock to edit

3. save your changes

NB - unlocking a previous questionnaire to edit it may cause the details to be updated with subsequent changes to the patient details. For example, if the patient was previously on an interacting drug which was later removed from your DAWN AC database, the drug would still be stored in the old completed questionnaire. On unlocking the old questionnaire, the record for this drug may no longer be available.

(back to Detailed Workflow page)

22.2.3.2.1 Patient questions

It may be useful to record patient feedback on the following questions in the Follow Up Questionnaire. For example, in Dabigatran:

Over the past two weeks:	
I have taken the correct dose every day	C No C Yes
I might have taken too many capsules / tablets	C No C Yes
I might have missed one or more doses	C No C Yes
I take more than 3 other medications regularly	C No C Yes
Stomach upset / burning / pain (0-9)	No effect (0) (Make a choice)
	No effect (0) 1 2 3 4 5 6 7 8 Severe (9)

(back to Complete a Follow-up page)

22.2.3.2.2 Reasons for compliance problems

Please tick any of the compliance problems which apply to your patient. These problems may be important in dosing decisions.

 Reasons for compliance problems:
 Dementia

 Fear of side-effects
 Gastroesophageal Reflux Disease

 Gastrointestinal Bleed
 Lack of information

 Lives alone
 Multiple medications

 Other
 Prescriptions from several doctors

The list of compliance problems may be edited / added to by your system administrator using the General Look Up Category Table called 'ComplianceReason'.

(back to Complete a Follow-up page)

22.2.3.2.3 Adverse events reported

Please tick any of the adverse events which apply to your patient. These events are identified in prescribing guidelines as significant events for consideration in dosing decisions.

Has the patient reported any adverse event (potentially due to current anticoagulant)?:	Anaemia Bruising
2 ,	Blood in stools or melaena
	Epistaxis
	Haematoma
	Menorrhagia
	Vomiting blood
	Other (Please Specify)

The list of adverse events may be edited / added to by your system administrator using the General Look Up Category Table called 'Adverse Bleed Events'.

If any adverse events are ticked, extra fields are displayed as follows:

Patient recommended to go to emergency department for evaluation?	○ Yes ○ No
Adverse event comments:	

NB - any events identified on the Follow-up Questionnaire will **NOT** automatically display on the Events tab of your patient screen.

Please click on 'Events' tab to fully record events on the patient screen.

(back to Complete a Follow-up page)

22.2.3.2.4 Renal function

Estimates of renal function may be recorded in several ways on the Follow Up Questionnaire and these will show contraindications / warnings where renal function is impaired:

- measured creatinine clearance (laboratory estimation)
- serum creatinine
- Cockcroft-Gault estimation of creatinine clearance
- other measures may be recorded in the notes box

Guidelines recommend using an estimate of creatinine clearance rather than an eGFR calculation when dealing with patients on Dabigatran anticoagulation. DAWN AC provides a calculator for estimating renal function from serum creatinine and body weight. Enter these 2 values and click on the 'Calculate Cockcroft-Gault CrCL'.

Measured Creatinine Clearance:	mL/min
eGFR:	mL/min
Serum Creatinine:	□ US (mg/dL)
Body Weight:	kg *
Gender:	Male
Age (at due date)	63
Estimated CrCI (Cockcroft-Gault):	ML/min Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.
Other Blood Checks:	

Note - if you have a laboratory estimation which if less than a numeric value (like <30), please enter the number (like 30) in the Measured Creatinine Clearance or Serum Creatinine boxes. Similarly for results which are reported as greater than a value (like > 220), please enter the numeric value (like 220).

The limits used for creatinine clearance differ according to which anticoagulant you are using. For dabigatran, they are are set as follows in DAWN -

less than 30 severe greater than equal to 30 andmoderate less than 50 greater than equal to 50 mild

For rivaroxaban and apixaban, the threshold for severe renal impairment is 15 rather than 30.

Please Note: you can record serum creatinine results in mg/dL (as used in the USA) or in

µmol/L (as used in the UK). Please choose the radio button for the appropriate units. If you need to change the radio button, consider changing the default setting so that it will default correctly in the future.

To change the default setting, amend the *DefaultSerumCreatinineUnits* system setting, entering 1 for mg/dL or 2 for µmol/L. The initial value of the system setting is set according to your date format. If your system uses MM/DD/YYYY as the date format, the *DefaultSerumCreatinine* units is initially set to 1 for mg/dL. Otherwise it is initially t to 2 for µmol/L.

Upgrading from an earlier version of the Non-VKA module

The ability to specify which units you use for serum creatinine, was introduced in an upgrade to the Non-VKA module that was released in Jan 2016. Earlier versions only allowed serum creatinine results to be entered in μ mol/L. If you upgrade from an earlier version, DAWN remembers the date of the upgrade. If you open a questionnaire with a due by date that predates the upgrade and the questionnaire already has a result for serum creatinine, the result is assumed to be in μ mol/L as that was the only option available when the result was entered, even if the default for new questionnaires is mg/dL.

The DAWN system alerts you if you add an unusually low or high serum creatinine or body weight measurement. If you get a warning message, please check the details you entered carefully.

(back to Complete a Follow-up page)

22.2.3.2.5 Hepatic impairment

If your patient is known to have hepatic impairment, tick the Hepatic impairment checkbox. In some studies, hepatic impairment is defined as liver enzyme results greater than twice the upper limit of normal.

Hepatic Impairment:	Liver Enzymes > 2ULN
Other Blood Checks:	

You may wish to add details of other blood tests in the notes box for later reference.

Note - some anticoagulants may not be recommended in patients with know hepatic impairment.

(back to Complete a Follow-up page)

22.2.3.2.6 Contraindicated drugs

Some concomitant drugs may be known to be contraindicated for the chosen anticoagulant as published in the prescribing guidelines. Please tick any drugs if your patient is currently prescribed this drug.

Operational instant Devenue	
Contraindicated Drugs:	CICLOSPORIN
	DRONEDARONE
	ITRACONAZOLE
	KETOCONAZOLE
	TACROLIMUS

The list of drugs displayed are defined in the Look Up Tables on your DAWN AC database and additional drugs may be added to this list as required. Please contact your system administrator to add new drug settings to the 'Interacting Drugs' table.

(back to Complete a Follow-up page)

22.2.3.2.7 Interacting drugs

Some interacting drugs may be known to increase the haemorrhagic risk if used along with the chosen anticoagulant. See relevant published prescribing guidelines. Please tick any drugs if your patient is currently prescribed this drug.

Selecting one or more listed drugs will cause some advice to be displayed on screen like this:

Interacting Drugs:	AMIODARONE	CLOPIDOGREL: Close clinical surveillance (looking for	
	ASPIRIN	signs of bleeding or anaemia)	
	CLARITHROMYCIN	QUINIDINE:	
	CLOPIDOGREL	For prevention of VTEs after hip or knee surgery, dosing should be reduced to	
	OTHER NSAIDs	150mg per day taken once daily as 2 capsules of 75mg dabigatran etexilate.	
	QUINIDINE	Close clinical surveillance particularly in	
	TICAGRELOR	the occurrence of bleeding, notably in patients having a mild to moderate renal	
	VERAPAMIL	impairment	

The list of drugs displayed and the advice displayed on screen are defined in the Look Up Tables on your DAWN AC database. Updates to the advice or additional drugs may be added to this list as required. Please contact your system administrator to add new drug settings to the 'Interacting Drugs' table.

(back to Complete a Follow-up page)

22.2.3.2.8 Other anticoagulant or platelet inhibitor

It is important to record any other anticoagulant or platelet inhibitor prescribed alongside the non-VKA agent even if this for a short period.

Other anticoagulant or platelet inhibitor:		Abciximab
		Eptifibatide
		Heparin
		Prasugrel
		Sinthrome
		Ticagrelor
	-	Warfarin
		(Other)
If (other), please give details:	to	continue 1mg per day until Tuesday 28th

The list of drugs displayed may be added to or edited in the General Lookup Category for 'Anticoagulant or Platelet Inhibitors' - please contact your system administrator to arrange changes to the displayed options.

(back to Complete a Follow-up page)

22.2.3.2.9 Other contraindications

Please tick any of the other contraindications which apply to your patient. These risks are identified in prescribing guidelines as contraindications for dosing with the non-VKA agent.

Other contraindications:	Active clinically significant bleeding
	Hepatic impairment or liver disease expected to have any impact on survival
	Hypersensitivity to dabigatran etexilate
	Hypersensitivity to sunset yellow (E110)
	Organic lesion at risk of bleeding
	Prosthetic Heart Valve
	Severe renal impairment (CrCl<30ml/min)
	Spontaneous or pharmacological impairment of haemostasis

The list of contraindications displayed on the Follow-up Questionnaire may be edited / added to by your system administrator using the Look Up Tables called Risks and Specific Risks.

NB - any risks identified on the Initiation Questionnaire will **NOT** automatically display at the top-left of your patient screen. You may wish to highlight these manually on the patient screen either by adding Risks for a new patient or clicking on the 'Risks' button to add risks for an existing patient screen.

Risk Class	Low	T
Pref. Clinic	(None selected)	Ŧ
Phone	- home	Ŧ
Age:	71	
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR	
Target Range	Non-VKA	
Start Date	24/05/2019 \varTheta - Indefinite	
Anticoagulant	Dabigatran 110 mg Twice Daily	
Treatment Plan	<pre>\$ 2 > of 2 active</pre>	
Risks		

(back to Complete a Follow-up page)

22.2.3.2.10 Haemorrhagic risks

Please tick any of the risks which apply to your patient. These risks are identified in prescribing guidelines as significant risks for consideration in dosing decisions for the non-VKA agent.

Haemorrhagic Risks:	Active ulcerative GI disease
	Bacterial endocarditis
(Brain, spinal or ophthalmic surgery
(Congenital or acquired coagulation disorder
(Recent biopsy or major trauma
(Recent gastrointestinal bleeding
(Recent ICH
(Thrombocytopenia or functional platelet defects

The list of haemorrhagic risks may be edited / added to by your system administrator using the Look Up Tables called Risks and Specific Risks.

NB - any risks identified on the Follow-up Questionnaire will **NOT** automatically display at the top-left of your patient screen - see adding Risks for a new patient or click on 'Risks' button to add risks on the patient screen.

(back to Complete a Follow-up page)

22.2.3.2.11 CHADS and HASBLED scores

CHA₂DS-₂VASc and HASBLED scores may be optionally recorded from the dropdown menus on your questionnaire.

CHA2DS-2VASc score?	(None selected)	•
	(None selected)	
	0	
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	(<u></u>	
HASBLED score?	(None selected)	•
	(None selected)	
	0: Risk was 0.9% in one study	
	1: Risk was 3.4% in one study	
	2: Risk was 4.1% in one study	
	3: Risk was 5.8% in one study	
	4: Risk was 8.9% in one study	
	5: Risk was 9.1% in one study	
	6: Risk > 9.1%	
	7: Risk > 9.1%	
	8: Risk > 9.1%	
	9: Risk > 9.1%	

The dropdown options are provided from the settings in your DAWN AC Normal Tables, General Lookup Category (CHA2DS2-VASc Score and HASBLED). You may wish to request that your system manager updates the options available.

(back to Complete a Follow-up page)

(back to Settings for General Lookup Category page)

22.2.3.2.12 Rivaroxaban and Apixaban patients still on VTE Induction Doses

For Rivaroxaban & Apixaban patients still on VTE induction doses when the Follow-up questionnaire is being completed, the questionnaire notes that that the patient is still on the induction dose; and displays the candidate questionnaire & treatment plan start dates and the elapsed days including 'today'.

For example:			
Rivaroxaban Dose:	Rivaroxaban 15 mg Twice Da	ily	
	Note: Dose (above) recorded on T	Freatment Plan is an Induction Dose	
		tart Date : 14/05/2019, 11 day(s) including today	
	Treatment Plan Start Date:	09/05/2019, 16 day(s) including today	
Suggested dose:	15mg twice daily for three we	eks and then 20mg once daily	

If either of these elapsed days means it is approaching or has passed the time to change to the maintenance dose, the note turns red.

NB these start dates are an information aid only and are not to be relied upon without checking, it is possible that the patient started the DOAC on a different date to either of these dates.

22.2.3.2.13 Dose Suggestion and Adjustment

Once you have answered all questions, check the existing dose (as set on the treatment plan) and the suggested dose (if displayed, not applicable for Dabigatran) carefully. If it requires adjusting, set the 'Dose Adjustment Required' option to Yes. A list of reasons for adjustment and comments box is then displayed.

Apixaban Dose:	Apixaban 2.5 mg Twice Daily	
Suggested dose:	5mg taken twice daily	
Dose Adjustment Required:	 No Yes Remember to update the regime in the treatment plan 	
Reason for dose adjustment:	 Weight Change Liver Function Renal Function Hematorit Drop Adverse Event Interacting Medications Other Adjustment Comments:	

Following completion of the questionnaire, update the treatment plan with any A changes eg to the regime, duration.

The list of reasons for adjustments may be edited / added to by your system administrator using the General Look Up Category Table called 'Reasons For Dose Change'.

22.2.3.2.14 Apixaban Audit Tool - Completing a Follow-up

Pfizer Limited (Pfizer) on behalf of the Bristol-Myers Squibb (BMS) - Pfizer Alliance funded the initial development of and made a contribution to the cost of the initial licence fees of this Apixaban (Eliquis@) software module, however neither Pfizer nor BMS any longer owns, manages or is responsible for this module or any associated content. Any adverse events should be reported to the MHRA via the yellow card reporting system which can be found at www.mhrs.gov.uk/yellowcard

For this questionnaire, the sections:

- Patient questions
- Reasons for compliance problems
- Adverse events reported

- CHADS and HASBLED scores
- Renal function for the Apixaban Audit Tool

are as described above.

In contrast to the other non-VKA questionnaires, the Apixaban Audit Tool does not have lists of possible contraindicated & cautioned drugs etc and other preventions/warnings. Instead, this questionnaire captures the keyed patient information and the decision as to whether to continue to prescribe Apixaban to this patient:

	Yes O No
Planned Duration:	

Click Yes to record that the patient is to be continued on Apixaban. This will display a notes field to capture intended duration and some patient discussion reminders.

Click No to record that the patient is not to be continued on Apixaban. This will hide any nonrelevant fields. If this case, you should set the treatment plan to stopped and arrange for any follow-on activities. If you click No, you can explain why in the Notes field.

22.2.3.2.14.1 Renal function for the Apixaban Audit Tool

Estimates of renal function may be recorded in several ways on the Apixaban Audit Tool Questionnaires:

- measured creatinine clearance (laboratory estimation)
- eGFR
- serum creatinine
- Cockcroft-Gault estimation of creatinine clearance
- other measures may be recorded in the Other Tests box

Measured Creatinine Clearance:	mL/min
eGFR:	mL/min
Serum Creatinine:	◯ US (mg/dL)
Body Weight:	kg *
Gender:	Male
Age (at due date)	63
Estimated CrCl (Cockcroft-Gault):	Please be aware of the limitations of estimates of renal function in relation to muscle mass, race and diet.
Other Blood Checks:	

Note - if you have a laboratory estimation which includes eg a greater than or less than symbol (eg <30 or >220) or similar, please enter the numeric value *number* (eg 30) in the field.

The DAWN system alerts you if you add an unusually low or high serum creatinine or body weight measurement. If you get a warning message, please check the details you entered carefully.

Please Note: you can record serum creatinine results in mg/dL (as used in the USA) or in μ mol/L (as used in the UK). Please choose the radio button for the appropriate units. If you need to change the radio button, consider changing the default setting so that it will default correctly in the future.

22.2.4 FAQ - non-VKA records on DAWN AC

Q Problems activating a treatment plan

A Check the following:

1. Is the patient marked 'Active' on the	You may need to click on 'Activate' or Re-activate'
Personal tab?	
2. Is an Initiation Questionnaire	You may need to complete a questionnaire which is
showing with a dose on the	still marked as 'Scheduled'
Questionnaires tab?	
3. Do the Initiation Questionnaire and	Check that the same diagnosis and dose have been
Treatment Plan have different details?	chosen in both the treatment plan and Initiation
	Questionnaire
4. Is the Initiation Questionnaire marked	Check that the therapy is suitable for the age /
as 'contraindicated'?	diagnosis / other medications - if it is, your DAWN
	AC settings may need to be updated by your system
	manager - contact support@4s-DAWN.com for
	assistance

Q Why is my patient not on the non-VKA list view?

A Check the following -

1. Has the patient got a DAWN AC	See adding a new treatment plan
treatment plan for the non-VKA agent?	
2. Have you chosen a date or clinic	Adjust the filters on the left of the list view to see all
filter on the left of the non-VKA list view	patients with a non-VKA treatment plan
which excludes this patient?	

Q Why do I get 'Contraindicated' warnings?

A Contraindications may be for inappropriate concurrent medications (see interacting drugs) or risks (see haemorrhagic risks) or age / renal function.

Q What is an 'Age alert'?

A Patient ages over 75 or 80 years will result in 'Age alert' appearing on the non-VKA list view where the dose of Dabigatran is unexpectedly high:



Q The dose I need to use isn't available on the DAWN AC screen?

A Your DAWN AC settings may need to be updated by your system manager - contact support@4s-DAWN.com for assistance

Q Where is the INR -warfarin history for my patient now?

A View previous treatment plans using the blue arrow on the patient screen and you'll see the History panel for any VKA episode of treatment.

L Barnaby, Fitzhe	erbert - Male - 06/06/1938 - F5 - 836 Dawn Villas, The Square	e, Milntho
Risk Class	Low	
Pref. Clinic	(None selected)	•
Phone	- home	Ŧ
Age:	80	
Diagnosis	TOTAL HIP REPLACEMENT SURGERY	
Target Range	Non-VKA	
Start Date	23/05/2019 9 - Indefinite	
Anticoagulant	Dabigatran 220mg once daily	
Treatment Plan	< 2 > of 2 active	
Risks	$\mathbf{\vee}$	

(back to Detailed Workflow page)

22.2.5 Configurable Options for the Non-VKA questionnaires

NB the following items do not apply to the Apixaban Audit Tool unless otherwise stated below

ltem	Where	Details
Adverse event reporting in follow-ups	All follow-ups & Apixaban Audit Tool	You can choose what to display here and what website to link to. To change them, edit the Event Reporting options in the GeneralLookupCategory, ask 4S Support for assistance.
Web links for Regime Info	All questionnaires & Apixaban Audit Tool	For example: Please use your clinical judgement before deciding on the most appropriate dose. It is your responsibility to regularly check the manufacturer's recommendations for updates. Click the link(s) below for more details on: • Apixaban Tablets 2.5 mg • Apixaban Tablets 5 mg To change them, you need to edit the DrugCoURL options in the GeneralLookupCategory, ask 4S Support for assistance.
Replace Chads2 with CHA2DS- 2VASc 2	Rivaroxaban/ Edoxaban candidate & follow-up questionnaires	The Chads2 field can be replaced with CHA2DS-2VASc2 if preferred. To do this, edit the system setting <i>ChadsNOAC</i>
Hide the Suggested Dose	All questionnaires	This field can now be hidden using the system setting - DOAC_DisplaySuggestedDose. The Suggested Dose is based solely on the original manufacturers' recommendations alone and does not take into account any customisations you make to the Permitted Regimes table - in particular, the Clinical Advice you can add or update for each regime. In order to prevent an inconsistent or misleading suggestion, you should hide the Suggested Dose if you make significant changes to the Permitted Regimes table.
Renal Limit for Contraindication	Dabigatran candidate & follow-up only	There is now a system setting entitled DOAC_Renal_Contra_Limit_DABIG It defaults to 30 mL/min, but can be changed to a minimum of 15 mL/min. If this limit is breached, a warning message is displayed saying Contraindicated : Severe renal impairment and the questionnaire will be rendered as 'contraindicated'.

	.	
	Rivaroxaban/	Does the patient require induction ONO Ves
does not require	Apixaban	phase of treatment?:
induction	candidate only	By default, this field is hidden. You can display it using
dosing		system setting - DOAC_Fields_To_Hide.
		If it is displayed and set to No:
		• the Day 7 (Apixaban)/Day 22 (Rivaroxaban) dates are not
		displayed
		 the suggested dose is the maintenance one rather than the "induction then maintenance" one
Education	All	This question(s) will appear near the end of the QNR to help
	questionnaires	you record how long was spent educating the patient about
		the DOACs
		Education: Time spent (None selected)
		Education: Materials mailed ONO Yes
		Ongoing Education: Time spent (None selected)
		NB These fields are hidden by default, you can display them using system setting - DOAC_Fields_To_Hide.
Medication	All	
	questionnaires	Medication Procurement Due to ONO O Yes Insurance issues
Due to insurance		Medication Procurement: Time (None selected)
issues		Prior Auth Required ONO Yes
		Medication Switch Required O No O Yes
		If "Medication Procurement Due to insurance issues" is set to
		Yes, 3 extra fields are displayed below it.
		NB These fields are hidden by default, you can display them using system setting - <i>DOAC_Fields_To_Hide</i> .
	All	In addition to the fields described above, the following fields
can be hidden if	questionnaires	can also be hidden if not required within your organisation:

not required	 Yellow Card (image and link)
	 Who will manage AC?
	• Egfr
	Chads/CHA2DS2VASC
	HASBLED
	using system setting - DOAC_Fields_To_Hide
	See the description within the system setting for details of
	how to hide/display.

22.3 Changing Anticoagulant

You may wish to record changes in your patient's anticoagulation on DAWN AC when:

- Changing between different VKA's (like Warfarin and phenindione) section 7.1
- Changing type of non-VKA (like Dabigatran to Rivaroxaban) section 7.2
- Changing between VKA and non-VKA (like Warfarin to Dabigatran or vice versa) section 7.3

(back to Detailed Workflow page)

22.3.1 Changing between different VKA's

In DAWN AC, stop the treatment plan and start a new treatment plan for a change in the patient's anticoagulant.

Anticoagulation	
Primary Diagnosis	- ATRIAL FIBRILLATION (24/05/2019)
Start date	P3/04/2019 First seen date
Duration	Long Term 🔻
	Indefinite
Preferred clinic	Default Clinic (4S Dawn Clinical Software)
Preferred time	From until
Status active	First STOP any existing Treatment plan stop Admit

Note - DAWN AC will prevent a change of anticoagulant within an active treatment plan.

(back to Changing Anticoagulant page)

22.3.2 Changing type of non-VKA

It is strongly recommended that you stop the treatment plan and start a new treatment plan for any significant change in the patient's anticoagulation.

Personal Treatment plans	Questionnaires	Test Results	Interface Warning
Anticoagulation (AC)			
active			
Start date Duration Target range Anticoagulant Referring GP Consultant	23/05/2019 9 Indefinite Non-VKA Dabigatran 110 m -	ıg Twice Daily	
stopped			
Start date Duration Target range Anticoagulant Referring GP Consultant	01/01/2019 Treatment stoppe Non-VKA Edoxaban 30 mg -	d - Stopped at: 23 Once Daily	/05/2019 16:23

(back to Changing Anticoagulant page)

22.3.3 Changing between VKA and non-VKA

In DAWN AC, stop the treatment plan and start a new treatment plan for a change in the patient's anticoagulant.

Anticoagulation	
Primary Diagnosis	- ATRIAL FIBRILLATION (24/05/2019)
Start date	P3/04/2019 First seen date
Duration	Long Term v
	Indefinite
Preferred clinic	Default Clinic (4S Dawn Clinical Software)
Preferred time	From until
Status active	First STOP any existing Treatment plan

Note - DAWN AC will prevent a change of anticoagulant within an active treatment plan.

(back to Changing Anticoagulant page)

22.4 Viewing Patient History

Your patient may have several consecutive treatment plan records and only one of these may be active for their current anticoagulation.

oougo rompiato 🕶		
💄 Barnaby, F	tzherbert - Male - 06/06/1966 - F5 - 836 Daw	vn Villas, The Square, Milntl
Risk Class	Low	•
Pref. Clinic	(None selected)	•
Phone	- home	•
Age:	52	
Diagnosis	ATRIAL FIBRILLATION NON VALVULAR	
Target Range	Non-VKA	
Start Date	23/05/2019 9 - Indefinite	
Anticoagulant	Dabigatran 150 mg twice daily	
Treatment Plan	<pre>\$ 2 > of 2 active</pre>	
Disks		

To see previous treatment plans, click on the 'Treatment Plans' tab bottom-right on your patient screen.

Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings
Anticoa	gulation (AC)			
active				
Start date Duration Target ran Anticoagu Referring Consultan	ge lant GP	23/05/2019 () Indefinite Non-VKA Dabigatran 150 n -	ng twice daily	
stopped				
Start date Duration Target ran Anticoagu Referring Consultan	ge lant GP	2.0 - 3.0 (2.5 Tar	ed - Stopped at: 23 get) ength (in Tablets /	

▲

If your patient does not have a current active treatment plan record on DAWN, the patient may not appear on the list of scheduled patients.

22.5 Handling Non-Attendance for non-VKA Patients

This section explains how to:

- Find patients overdue for review
- Record any necessary action
- Generate a letter (or e-mail) to the non-attending patient

See the following sections for more information: Using the list view to find patients who are overdue for follow-up

Changing the treatment plan

22.5.1 Non-VKA list view - identifying non-attenders

Go to the non-VKA list view and filter on 'Overdue'

	Duplicate ID	Worklist	Annual Revie	W	Reminders	Reviews	Hold Monitor Listview	In reproc	essing Non	VKA
Age alert indicates	Poor Performing	g Patient List	Non attenda	ance	Messages	Phone List	Post Clinic Check	status	No Next Test	Date
patients over 75 on unexpectedly high dose.	Procedures	Events	Risks Dab	oigatran	Treatmen	nt Notes				
Clinic may be filtered as	Filter			١	With Overdue					
the clinic chosen for the assessment or follow-up	6 records f	ound.								
questionnaire (rather than the preferred clinic).	Name		Hospital no.	Age	Appointment	Regime		Que	stionnaire	Status
	DABIGATRA	N, Lower Dose	75mgbd	90	12/08/2013	Dabigatran 75	mg Twice Daily	Dabi	gatran Initiation	Overdue
'All roles' filter for GP linked to latest treatment	ADAMS, Joh	in	999	61	20/11/2014	Warfarin Mixed	d Tablets (plain text / D	aily Avg) Dabi	gatran Follow Up	Overdue
plan.	GREEN, Car	roline	H31871	104	29/01/2015	Dabigatran 11	0 mg twice daily	Dabi	gatran Follow Up	Overdue
	DABIGATRA	N, Ian	DAB123	89	14/02/2017	Dabigatran 15	0 mg twice daily	Dabi	gatran Initiation	Overdue
Filter Records	Filter Pecords		DAB123	89	20/02/2017	Dabigatran 15	0 mg twice daily	Dabi	gatran Follow Up	Overdue
,	BILLIN	t record 🔴	B29700	57	20/05/2019	Dabigatran 75	mg Twice Daily	Dabi	gatran Follow Up	Overdue
With •	4									1
Overdue	The 'Overdue' filter is selected						[appointment sche	s whether a patient h eduled, a scheduled overdue appointment	
(Any date)										
Clinic >										
Therapy										

Note - The With / Without option top-left only applies to the top filter (Overdue in this case).

The Patient Search and Reports screens also provide searches on your DAWN AC database

for patients on different anticoagulants.

22.5.2 non-VKA patient screen

Dosing Contacts Letters	Drugs 4 Ev	ents 1 Proced	ures Reviews	s Reminders 1	Groups Do
INR: 📩 🖈 🗸	Date: 21/06/20	119 🗮 🛨 🗸 🕫	🛗 (Scheduling in	fo not available anymore) S	chedule
			Treatment Notes	s 🔋	
Accept INR DNA Un-schedule	Sc	heduled			
Graph History Personal	Treatment plans	Questionnaires	Test Results	Interface Warnings	
Add a new record > 1 - 1 / 1					
QuestionnaireType			Entry dat	te	Summary
Dabigatran Follow Up			20/11/201	4	Overdue

22.5.3 Non-attendance process

If a patient fails to attend for a review of their non-VKA therapy, update the scheduled Followup questionnaire with a new date for their appointment.

Persona	I Treatment plans Question	onnaires Test Res	ults Interface Warnings
O Add a	new record - 1 - 2 / 2		
0	QuestionnaireType	Entry date	Summary
<u>م</u>	Dabigatran Follow Up	22/05/2019	Overdue
<u>ا</u> و	Dabigatran Initiation	20/12/2018	Complete: CrCl: 600 mL/min (cre: 75 µmol/L, Wt: 65 kg) - Dose: 110 mg twice daily

Print any letters / faxes / e-mails as required from the Letters tab.

Dabigatran	Contacts	Letters	Drugs	Events	Procedures	Reviews	Reminders	G
• You may be unable to create some letters and messages until the next appointment has been created								
- Select a Direct Print (Local printer) -								
→ 1-1/1								
Description Created								
Dabigatran DNA for Follow up						23	8/05/2019 16:06	

If a patient persistently fails to attend or have their blood tested you may wish to contact their GP or even discharge them from your monitoring service. You may wish to stop the treatment

plan and mark the patient as 'Inactive' on the Personal tab.

22.6 Settings for Direct Oral Anticoagulants

Your System Manager can access settings for the non-VKA agents in the System menu > Lookup tables.

agement -	2	R.
Normal Tables	•	
Lookup tables	•	Anticoagulation Tables
Clinic View settings	Þ	Allergy
Message Manageme	nt 🕨	Anticoagulant Brand
Printing	•	Blood Group
Preports	•	Cessation Reason
Audit & security	•	Diagnosis
Dawn Interface	•	Disease area
System	•	Drug
Coded Comments		Ethnic Origin
	_	Event
		HC Professional Type
		Intervention Timeslot
		Language
		LMWH drug
		Messaging
		Organisation Type

The settings here are critical to how your DAWN AC system operates and any changes / deletions / additions are likely to affect the anticoagulant dosing of past, present or future patients. ALL changes to settings should be tested thoroughly on a test database before applying changes in your production database. ALL outputs (like letters / e-mails) from the DAWN AC system should be checked carefully for completeness and accuracy by a suitably qualified healthcare professional before the patient is instructed.

For a new oral anticoagulant, 4S DAWN Clinical Software will supply settings for Anticoagulant, Regime, Non VKA Dose and Questionnaire Settings. It is unlikely that you will need to modify these settings but please contact the support team (support@4s-DAWN.com) with any questions or issues.

From time to time, you may need to review or consider updates to the following tables for a particular anticoagulant -

• Therapeutic Indications	section 15.1	if the agent may be used in a new condition
Qualifying Risk Factors	section 15.2	if new risk factors emerge or age limits change
 Interacting Drugs 	section 15.3	if new information emerges on concomitant drugs
		affecting the chosen anticoagulant
 Specific Risks 	section 15.4	if new conditions are found to affect the therapy
 Regime and Non VKA 	section 15.5	to set a completely new dosage and dose settings
Dose		
 General Lookup 	section 15.6	to adjust the dropdown menus for CHADS or
Category Settings		HASBLED scores

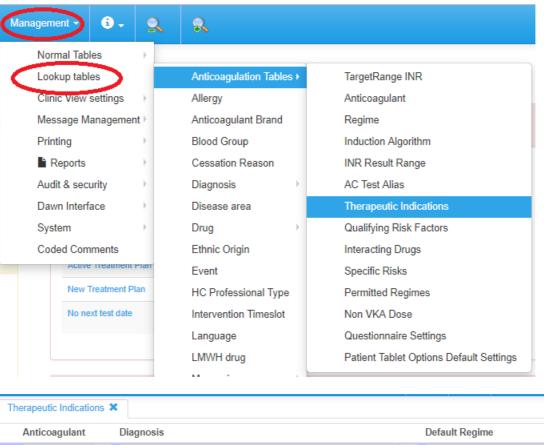
It is very strongly recommended that you do not make Therapeutic Indication & Regime changes before confirming them with the support team at 4S.

For help and advice on editing any settings in your DAWN AC system, please contact support@4s-DAWN.com.

22.6.1 Therapeutic indications

Please Note: The appropriate anticoagulant, diagnosis and regime need to be added to the DAWN system (if they are not already there) before proceeding to the step below.

The primary diagnosis for your patient has to be set as a valid qualifying diagnosis or 'therapeutic indication' for the particular anticoagulant. For example, the settings for Dabigatran may be as shown:



Anticoaguiant	Diagnosis			Default Regime
Dabigatran 🔻 🔶	RecDVT - RECURRENT DVT	۳	→	Dabigatran 150 mg twice daily 🔹 🔷
Dabigatran 🔻 🔶	AFNV - ATRIAL FIBRILLATION NON VALVULAR	۳	+	Dabigatran 150 mg twice daily 🔹 🔿
Dabigatran 🔻 🔶	ORTHO_KNEE - TOTAL KNEE REPLACEMENT SURGERY	۳	+	Dabigatran 220mg once daily 🔹 🔶
Dabigatran 🔻 🔶	ORTHO_HIP - TOTAL HIP REPLACEMENT SURGERY	۳	+	Dabigatran 220mg once daily 🔹 🔷
Debiertere -		_		Debteration 400 merchanism dether at a

Add to these settings as required as new medical evidence emerges so that an anticoagulant is known to be approved for use with a particular primary diagnosis.

NB - deleting entries on this table may result in multiple patients not getting a dose or next appointment.

(back to Settings for New Oral Anticoagulants page)

22.6.2 Qualifying Risk Factors for non-VKA

For some anticoagulants, it may be important to note which reason(s) or thrombotic risks have caused the patient to be prescribed this anticoagulant.

If no Qualifying Risk Factors are added, no opportunity to record these risk factors will be provided on an Initiation Questionnaire.

For example, for Dabigatran in AF patients the following risk factors may contribute to the decision to prescribe Dabigatran:

Qualify	ing Risk Factors 🗙		
	Therapeutic Indication		Risk
	Dabigatran - AFNV - ATRIAL FIBRILLATION NON VALVULAR	¥	Aged >= 65 with diabetes mellitus, coronary artery disease or hype
	Dabigatran - AFNV - ATRIAL FIBRILLATION NON VALVULAR	Ŧ	Aged 75 or over
	Dabigatran - AFNV - ATRIAL FIBRILLATION NON VALVULAR	۲	Left ventricular ejection fraction < 40%
	Dabigatran - AFNV - ATRIAL FIBRILLATION NON VALVULAR	v	Previous Stroke, transient ischaemic attack or systemic embolism i
	Dabigatran - AFNV - ATRIAL FIBRILLATION NON VALVULAR	¥	Symptomatic heart failure >= NYHA Class 2

The entries on this table link a Therapeutic indication and a Risk and you should ensure that the Risk chosen is marked In Use.

C	lanagement 🗸 🧯 🗸	2	R			
	Normal Tables	+				
	Lookup tables		Anticoagulation Table	s⊧		
	Clinic View settings	E.	Allergy			
	Message Managemer	nt⊦	Anticoagulant Brand			
	Printing	÷.	Blood Group			
	Reports	÷.	Cessation Reason			
	Audit & security	+	Diagnosis	+		
	Dawn Interface	+	Disease area			
	System	÷.	Drug	+		
6	Coded Comments		Ethnic Origin			
			Event			
			HC Professional Type	•		
			Intervention Timeslot			
			Language			
			LMWH drug			
			Messaging	+		
			Organisation Type			
			Procedure			
			Risk Management	•	Risk	
			Therapy Status		Risk Class	
			Visit Type		Severity	⊬
					Warn Level	

NB - deletion of an entry for Qualifying Risk Factors may cause loss of information in any patient questionnaire not completed or unlocked for editing.

(back to Settings for New Oral Anticoagulants page)

22.6.3 Interacting drugs for non-VKA

It is possible to link an anticoagulant with a drug which has one of the following interactions if prescribed concomitantly:

- 463
 - Contraindication
 - Haemorrhagic Risk
 - Thromboembolic Risk

These settings have a notes field and the notes plus appropriate warnings will display on appropriate patient questionnaires and may prevent activation of a treatment plan. See examples for contraindicated drugs and interacting drugs.

Interacting Drugs 🗙		
Anticoagulant	Dabigatran	T
Drug	ASPIRIN	Ŧ
Interaction	Haemorrhagic risk	T
Clinical Advice	Close clinical surveillance (looking for signs of bleeding or anaemia)	

NB - addition / editing / deletion of entries on this table may cause checks on important drug interactions to be missed.

NB - deletion of an entry for Interacting Drugs may cause loss of information in any patient questionnaire not completed or unlocked for editing.

(back to Settings for New Oral Anticoagulants page)

(Technical note - the table name for Interacting drugs is AnticoagulantInteractionDrug)

22.6.4 Specific Risks for non-VKA

Haemorrhagic risks, thromboembolic risks and contraindicated conditions may be stored in this table for use in patient questionnaires.

These settings populate the questionnaire screens for haemorrhagic risks and other contraindications.

Specific Risks 🗙		
Anticoagulant	Dabigatran	•
Risk	Organic lesion at risk of bleeding	•
Risk Type	Contraindication	*
Clinical Advice	Contraindicated	

NB - deletion of an entry for Specific Risks may cause loss of information in any patient questionnaire not completed or unlocked for editing.

(back to Settings for New Oral Anticoagulants page)

(Technical note - the table name for Specific Risks is AnticoagulantRisk.)

22.6.5 Regime and Non VKA Dose

It is very strongly recommended that you do not make Therapeutic Indication & A Regime changes before confirming them with the support team at 4S.

Regime settings are required for each non-VKA dose to be used in DAWN AC. Each dosage needs to exist as a 'Regime', a 'non-VKA Dose' and as a 'Permitted Regime'.

If a new dosage or dosage frequency is approved you may add this to each of the 3 following tables as appropriate so that the settings are available in a DAWN AC patient record.

See Dabigatran examples below:

Regime

Regime 🗙			
Description	Dabigatran 110 mg Twice Da	ily	
Code Name	DAB110TD		
Anticoagulant	Dabigatran		
Brand	(None selected)		
Status	Active		
Record Dose As 🕄	Daily Average	Dose Units 🕄	Mg
Split Tablet Into	Half a tablet		
Tablet Strength 1		(None selected)	

The settings are similar to VKA doses in this table except that no Instructions are required.

NB - deletion of an entry for Regime may result in multiple patients not getting a dose or next appointment.

Non VKA Dose

The settings for non-VKA regimes link to a numeric Total Daily Dose which is stored in this table for reference. Elements of the settings for a chosen regime are compared between the regime chosen in a treatment plan and in the Questionnaires and this is the basis of some of the validation checks on each patient.

Non VK/	A Dose 🗱				
	Regime	Dose	Dose Units	Frequency	Total Daily Dose
	Dabigatran 110 mg Twice Daily	110	mg	Twice Daily	220
=	Dabigatran 150 mg Once Daily	150	mg	Once Daily	150

Each regime for which a dose check is required needs to have a setting in this table. If an

Initiation Questionnaire requires this dose check, it will not be possible to activate a treatment plan for the new dosage without a setting in this table.

The settings here are critical to how your DAWN AC system operates and any changes / deletions / additions are likely to affect the anticoagulant dosing of past, present or future patients. ALL changes to settings should be tested thoroughly on a test database before applying changes in your production database.

Permitted Regimes

Other validation checks are made on first activation of a treatment plan and on saving an Initiation Questionnaire on the settings stating which regimes (*ie* dose of Dabigatran for example) are appropriate for which primary diagnosis (or therapeutic indication). Additional regimes can be added to this table as appropriate.

Pe	ermitted R	egimes 🗙							
		Therape	eutic Indication			Regime		Clinical Advice	Order
	3	Dabiga	atran - AFNV - ATRIAL FIBRI	LLATION NON VALVULA	R 🔻	Dabigatran 150 mg twice da	۲.	Normal dose	10
	3	Dabiga	atran - AFNV - ATRIAL FIBRI	LLATION NON VALVULA	R v	Dabigatran 110 mg Twice D	•	Patients aged 80 or ove	20
•	3	Dabiga	atran - AFNV - ATRIAL FIBRI	LLATION NON VALVULA	R •	Dabigatran 220mg once da	•		100

The 'Clinical Advice' is displayed on the Initiation Questionnaire screen as below and the Order number is relevant for display on the questionnaire screen. eg

Valid dosing regimes for this indication are:

Dosing regime	Advice
Dabigatran 150 mg twice daily	Normal dose
Dabigatran 110 mg Twice Daily	Patients aged 80 or over, or at risk of bleeding
Dabigatran 220mg once daily	

NB - deletion of an entry for Permitted Regimes may result in multiple patients not getting a dose or next appointment.

(back to 'Settings for New Oral Anticoagulants' page)

(Technical note - the table name for Permitted Regimes is AnticoagulantIndicationRegime.)

22.6.6 General Lookup Category settings for non-VKA

The general lookup category settings are used in some questionnaires. Options available for answering questions on the questionnaire may be edited / added to or deleted from this table.

466

Q Patient	Lists ☎ Calls	🖹 Reports 🛛 🌣 Mark 🗸	Management -		
General Lookup C	ategory 🗙	Clinic	Normal Tables		
		Clinic-diary	Lookup tables		
Name	CHA2DS2-VAS	General Lookup Category	Clinic View settings		
Description	CHA2DS2-VAS	HCProfessional	Message Management		
CodeName	CHA2DS2VASc	Health Authority	Printing		
In Use	X	LoginLog	Reports		
• Add a new re	cord 🔸 GeneralL	Organisation	Audit & security		
	Captior	Patient Group	Dawn Interface		
9	0	Questionnaire Type	System		
9	1	Reference Range	Coded Comments		
9	2	Team	3		
9	4		4		
9	5	Test	5		
9	6	Test Alias	6		
9	7	Test Group	7		
9	8	Therapy Template	8		
9	9	Trial	9		
		Ward			

NB - renaming or deletion of an entry for General Lookup or General Lookup Category may cause loss of information in any patient questionnaire not completed or unlocked for editing.

(back to Settings for New Oral Anticoagulants page)

23 Variance Growth Rate (VGR)

This chapter describes the Variance Growth Rate (VGR) functionality.

What is VGR

Enabling the VGR functionality

VGR in the Patient Screen

Use of VGR values in letters

VGR Settings

23.1 What is Variance Growth Rate (VGR)

Overview

It is known that Percentage Time in Therapeutic Range (%TIR) is not a very good indicator of the likelihood of a patient having a bleeding or thrombotic event. However, a new research study¹ has found that in certain circumstances the Percentage Time in Range can be used to indicate an increased risk of a thrombotic event and that in other circumstances a calculation of the variability of the patient INR (Variance Growth Rate or VGR) can indicate an increased risk of a bleeding event.

The study found that a calculation of Percentage Time in Range over a 6 month period can help in indicating increased risk of thrombotic events, with patients in the 'Below Average' range (<37% %TIR) having 3.3 times the risk of a thrombotic event compared with patients in the 'Above Average' range (>82% %TIR).

The same study also found that a calculation of the variability of the patient INR over 3 months (VGR) can indicate a 3.3 times increase in the risk of any event (thrombotic and bleeding) for patients in the most unstable group (VGR > 0.67) compared with those in the most stable group (VGR < 0.10).

Functionality to calculate and display two 'traffic light' indicators for 6 Month %Time In Range and 3 Month VGR along with a cross-check Maximum Difference in INR value is therefore available on the main Patient Details screen from version 7.9.33 of DAWN AC.

1. Ibrahim S, Jespersen J, Poller L, on behalf of The European Action on Anticoagulation. The clinical evaluation of International Normalized Ratio variability and control in conventional oral anticoagulant administration by use of the variance growth rate. J Thromb Haemost 2013; 11: 1540-6

VGR Field Calculations and Display

467

VGR Setup Screen

A new VGR Setup screen has been created. Ranges of TIR% and VGR values are defined on the VGR Setup screen and associated with different descriptions and colours depending on the risk of an event for a patient with a calculated value in that range. By default three ranges are defined for each indicator, with red indicating higher risk values, amber average risk values and green the lowest risk category. The VGR Setup screen is described in more detail in a later section of this chapter.

Patient Details Screen Changes

Three new display only fields have been added to the Patient Details screen. These fields are:

- 6 month Percentage Time in Range (label TIR%)
- 3 Month VGR (label VGR)
- Maximum Difference (label Max Diff)

Each of the TIR% and VGR fields display a coloured box and a description. The Max Diff field displays a number.

Calculation Details

The TIR% and VGR values are calculated for a patient as described below when a new INR is recorded or deleted (only manually entered history records can be deleted) for the patient.

The VGR figures are only calculated and displayed for patients where the current Treatment Plan is Active (status is Active or ActiveAdmitted) and the current regime is a Vitamin K anticoagulant.

The calculated values are compared with the ranges defined on the VGR Setup screen and the appropriate colour and description for each of the calculated values is then displayed on the Patient Details screen. The actual calculated values and number of INRs used in each calculation can be seen by hovering over each of the coloured boxes.

6 Month Percentage Time In Range

The TIR% field calculation is the number of days that the patient's INR was within the target range for the patient as a percentage of the total number of days in the period for the last six months. The value is calculated to 1 decimal place.

The TIR% calculation is only carried out where the patient has at least the number of non-zero INRs recorded in the 6 month period specified on the VGR setup screen. This number defaults to 2.

VGR

The VGR field calculation is based on the INRs recorded for the patient in the three months back from the last recorded INR. It is calculated using the formula known as the Fihn Variance Growth Rate (Method A). The calculation reflects the degree to which a patient's INR deviates from his or her target INR over a period. Using this formula a patient is considered most stable(and therefore at lowest risk of an event) when their INRs stay close to the target INR.

The formula used to calculate the VGR is:

$$\sigma^{2} = \frac{1}{n} \sum_{i=1}^{n} \frac{(\text{INR}_{i} - \text{target}_{i})^{2}}{\tau_{i}}$$

n – the number of non-zero INRs for the patient which fall within the 3 month period from the last recorded INR.target – the middle of the latest patient target range i.e. 2.5 for range of 2.0 - 3.0.

 τ - the time in weeks between the current INR measurement and the previous INR measurement as a decimal. Zero INRs are ignored in the calculation.



NOTE: The target range used in the calculation is the latest target range recorded for the patient if they have more than one target range recorded for the three month period. The value is calculated to 2 decimal places.

The VGR calculation is only carried out where the patient has at least the number of non-zero INRs recorded in the 3 month period specified on the VGR setup screen. This number defaults to 2 and must be at least 2.

Maximum Difference

The Max Diff field shows the difference between the maximum and minimum INRs recorded for the patient in the same three month period as used to calculate the VGR.

23.2 Enabling VGR Functionality

By default the VGR functionality is disabled when version 7.9.33 or later of DAWN AC is installed. This means that by default the VGR fields will not be visible on the Patient Details screen and the values will not be calculated and stored in the database.

🌣 DAW	'N -	Management -	i -		2	R	
rklist ients with	Induc	Normal Tab Lookup tab Clinic View Message M Printing Reports Audit & sec Dawn Inter	les settings lanagem	nent ► ► ►	anation		Rheumat Database Database name Click to go to System Settings
INR Today mplete	0	System Coded Cor	nments	and/d		Polar Too System S Internatio	,
sed Test ve atment า	4	291 ₆₃₃	5	Need Non-s			Aodules nber Compliance
next test	0	72	3	Need		External S Timer Ma Error Log	_

23.2.1 Enable VGR Functionality

Enter 'VGR' in the Search For: Name field at the top of the screen and click the Search button.

System Settings	×				
Search Q					
Sorting:			By Type/Name		
Search for:	Name 🕄	vgr		Value 🕄	
ustomization	IS				
Name 🟮			Value 🕄		Description 🕄
VGR Display	VGR		1	±.	Must the VGR be displayed in the TreatmentPlan / Patient-form

Change the number in the Value field for the VGR_DisplayVGR system setting record to 1 to enable the VGR functionality or to 0 to disable the functionality. Click the Save button to save the change.

This system setting controls both display of the VGR indicator fields on the Patient Details screen and whether or not the values are calculated and stored in the database. It should therefore be noted that turning the VGR functionality off for a period and then re-enabling it will create a gap in the history of the VGR values calculated and stored in the database.

It is possible to use the current TIR% and VGR range descriptions which apply for a patient in message templates so that, for example, a letter to a GP could include the text to say that a patient has an 'Above Average' Percentage Time in Range and an 'Average' VGR.

Please contact 4S DAWN Clinical Software at support@4s-dawn.com if you require letters which include this information.

23.3 VGR in the Patient Screen

When the VGR functionality has been enabled and where the patient has an active Vitamin K anticoagulant regime, the VGR 'traffic light' indicators and Max Diff field are displayed at the top left of the Patient Details screen as shown below.

	🔒 🔍 Patie	nt 🗮 Lists	Calls	Report	s 🏟	DAWN -	Manageme	ent 🗸
tient × ADAMS,	Julie - Female ·	inc Dit	vering over each dicator boxes and fference value di x which includes UTZ 345	d the Max splays a hover additional		R & HAF, LEE	DS & District	- 21 ST
TIR% Above Average		oove erage Variance Grow	Max Diff th Rate based o	1.7 n results of 3 m	nonths:	Dosing	Contacts	Let
PAEDIATRIC	Risk Class	Value: 0.14 No. of INRs: 5 NOTE: Do not	depend on the	VGR or TIR calc	ulations a	lone to make	any clinical deci	_
PATIENT	Pref. Clinic Phone	Dalton Square 01539563091	& Surgery GP (S & 115 - home) v		2mg 🍘 1mg 🌰	Warfarin	Sun Mo 1 ½
	Age:	11				08:00	Lovenox 30Mg	Sun Mo
						20:00	30Mg	# #
Diagnosis	AF & CARDI	OVERSION				Dose 2.43	d√ No dose	change
Target Range	2.0 - 3.0					Accept	dose New	INR/Dos
Start Date	26/08/2006 -	Indefinite						
Anticoagulant	Warfarin 2 &	1mg Tablets With H	lalves Daily					_
Treatment Plan	< 1 > of 1	active		View		Graph	History	Perso
Risks	current or red	ent gastrointestinal	ulceration			Add history of		
						Date	INR	Dose

The VGR values are calculated each time a new INR is accepted and are stored in the database against the Treatment Plan and each Treatment record so that a history of values

over time will build up for a patient if the functionality is enabled.



Note though, that when historical records are added or deleted the VGR figures on subsequent Treatment records will **not** be recalculated.

Where no value can be calculated for a patient because there are not enough INRs recorded for them in the period, then instead of a coloured box the text 'Not Calculated' in grey will be displayed.



Do not use the Percentage Time in Range and VGR figures in isolation to make any clinical decisions.

Ensure that you have a procedure to handle below average %TIR and VGR scores.

23.4 Use of VGR in Letters

It is possible to use the current TIR% and VGR range descriptions which apply for a patient in message templates so that, for example, a letter to a GP could include the text to say that a patient has an 'Above Average' Percentage Time in Range and an 'Average' VGR.

Please contact 4S DAWN Clinical Software at support@4s-dawn.com if you require letters which include this information.

23.5 VGR Settings

The VGR Setup screen is available on the System sub-menu of the Management menu on the System Menu.



Changes to the values on this screen can only be made by 4S Information Systems staff who will enter a password in the field at the top of the screen to enable data changes to be saved. Users may use this screen to view the settings.

This screen is used to define the ranges of VGR and %TIR values and the descriptions and colours associated with each range. Between 2 and 5 ranges can be defined for each indicator.

It is also used to define the minimum number of INRs which need to be recorded for a patient in the relevant period before the VGR and the %TIR can be calculated.

	R Patient ≣Lists	Calls Reports	🗢 DAWN 👻	Management 👻	🚯 Help 👻	Q ·	
VGR Setup Screen	×						
Enter the password to enable	e changes to be saved						
Password			Confirm Passw	ord			
3 Month VGR Ranges				6 Month	%TIR Range	25	
Caption	Colour	Min Value		Caption		Colour	Min Value
Above Avlerage	#66B050;	0.1		Below A	verage	#FF0000;	0.1
Average	#FFC000;	0.		Average	1	#FFC000;	53
Below Average	#FF0000;	0		Above A	werage	#66B050;	73
Minimum Number of INRs in 3 M	onth Period to Calculate	/GR (min 2):	2				
Minimum Number of INRs in 6 M			2				

24 System Settings

Editing System Settings incorrectly could cause the system to stop working in a safe manner. Please consult 4S before making any changes to these settings

Login System Settings

Password System Settings

Clinic / Diary System Settings

Patient Record System Settings

Treatment Plan Record System Settings

AC System Settings

Other System Settings

24.1 Login System Settings

Description	System Setting Name	Value	Standa rd Setting
Should the system perform logging on Concurrent User Mutex creation/deletion?	ConcurrentUsers_Enable Logging	0 = No 1 = Yes	0
By default, DAWN logs you out if you close your DAWN browser window. In some cases, this action can misfire and log you out unintentionally.	DisableLogoutOnWindo wClose	1 = Disable this functionality 0 = Enable this functionality	0
The max number of logon attempts before the user gets the 'Logon Denied' screen. This does not affect the max number of wrong logons for the user.	Session_MaxLogonAtte mtps		25
Does the logon-procedure support automatic logon of users using their network-name	SupportActiveDirectory	0 = No 1 = Yes	0
The default domain for the network, used for the automatic identification of users	DefaultNetworkDomain		
The number of minutes a session lasts while the user is idle. Idle time is the time between pressing Save, or an action button or moving between screens	Session_TimeOutMinute s	Enter a number like 10 (indicating 10minutes). Entering zero will not disable the setting. Zero indicates 0 minutes and will log	20

		you out almost
		immediately.
Must the system log the reads of records.	System_LogReads	0 = No 1 = Yes

24.2 Password System Settings

Description	System Setting Name	Value	Standard Setting
Minimum number of alfa characters in a password	PasswordComplexityCharCou ntAlfa		3
Minimum number of numeric characters in a password	PasswordComplexityCharCou ntNumeric		1
Minimum number of special characters in a password	PasswordComplexityCharCou ntSpecial		1
Minimum length of new passwords	PasswordComplexityMinPass wordLength		6
The maximum lifetime of a password in days	Password Expiration Days	Enter a value of 0 for unlimited Or Enter a number like 61 (indicating 61 days)	61
The from-address for new password emails	NewPasswordEmailFromAddr ess		admin@4s- dawn.com
The header (subject) for new password emails. Can contain [User Name] and [Password] codes	NewPasswordEmailHeader		Your password for the Dawn AC version 7 application
The template for new password emails. Can contain [User Name] and [Password] codes	NewPasswordEmailTemplate		We have created a password for you. Your account info is: UserName [UserName] Password: [Password]
Must the system give the user detailed information in case of a login failure?	DisplayLoginFailureDetails	0 = No 1 = Yes	1

24.3 Clinic / Diary System Settings

Description	System Setting Name	Value	Standar d Setting
Must the organisation be included in the Identifier of the Clinic	Clinic_ShowOrganisationI nIdentifier	0 = No 1 = Yes	1
The overdue-colour #1 for colour- coding diary-days.	ClinicDiary_OverDueColor _1	Use a HTML colour- code like '#FF8080'	#FFD0D 0
The overdue-colour #2 for colour- coding diary-days.	ClinicDiary_OverDueColor _2	Use a HTML colour- code like '#FF8080'	#FFBOB 0
The overdue-colour #3 for colour- coding diary-days.	ClinicDiary_OverDueColor _3	Use a HTML colour- code like '#FF8080'	#FF909 0
The overdue-percentage #1 for colour- coding diary-days.	ClinicDiary_OverDuePerc entage_1	Enter a number like 20 (indicating 20%) or Leave empty for not-set	20
The overdue-percentage #2 for colour- coding diary-days.	ClinicDiary_OverDuePerc entage_2	Enter a number like 40 (indicating 40%) or Leave empty for not-set	40
The overdue-percentage #3 for colour- coding diary-days.	ClinicDiary_OverDuePerc entage_3	Enter a number like 60 (indicating 60%) or Leave empty for not-set	60
The number of weeks the diary is automatically created ahead	Diary_AutoCreateWeeksA head		14
The date the diary was automatically maintained the for the last time	Diary_AutoMaintenance_ LastDate	System auto updates (YYYYMMDD)	
The number of weeks of the diary that are kept in history.	Diary_WeeksToKeepInHis tory	Enter a number like 1 (indicating 1 week) Or Set to -1 to disable automatic deletion	1
At what time should the Diary Extension timer start.	DiaryExtensionStartTime	Format: an integer indicating the hours in 24 hour format: eg 3 = 3am. 20 = 8pm. Maximum value is 21, to allow 3 hours of processing time for the task to complete	0

24.4 Patient Record System Settings

Description	System Setting Name	Value	Standard Setting
The initial field the cursor is put in when searching for a patient	Patient_DefaultSearchField	Use one of: LastName FirstName DateOfBirt h UnitNo NationalN o	LastNam e
Caption for Miscellaneous field on the Personal Tab, Contact Info tab, within the Additional section.	PatientMisc1_FieldCaption	Leave blank to hide field	Misc
Caption for the National No field in table Patient	PatientNationalNo_FieldCapti on		UK = NHS No USA = Blank (so National No is used)
Caption for the Postcode field in table Patient	PatientPostCode_FieldCaption		UK = Post Code USA = Zip
Caption for the Town field in table Patient	PatientTown_FieldCaption		UK = Town USA = City
Caption for the Unit No field in table Patient	PatientUnitNo_FieldCaption		UK = Unit No USA = MRN
Caption for the County field in table Patient	PatientCounty_FieldCaption		UK = County USA = State
Value at which the patient age is displayed in red	PatientRiskAge		65

479

	i	1	I
Mandatory patient identifier	PatientUnitOrNationalNumbe r	1 = Unit No 0 = National No	1
Default Risk Class for new patients, based on the Risk Level-value in table Risk Class.	Patient_DefaultRiskClassLevel	Leave empty for not-set	100
Should a quick note be added when the GP or Consultant is automatically updated?	Patient_InsertGPAndConsulta ntQuickNote	0 = No 1 = Yes	1
Should the patient's gender be displayed in the caption of the Patient details window	PatientForm_Caption_Display Gender	0 = No 1 = Yes	1
The user defined field to display in the caption of the Patient details window.	PatientForm_Caption_Field	Use one of: AddressLin e2 Laboratory GP Consultant	AddressLi ne2
Should a quick note be added when the GP or Consultant is automatically updated?	Patient_InsertGPAndConsulta ntQuickNote	0 = No 1 = Yes	1

24.5 Treatment Plan System Settings

Description	System Setting Name	Value	Standar d Setting
Default status for a New Treatment Plan, added with the New Patient Wizard	PatientWizard_DefaultACTreatme ntPlanStatus	Use one of: Active Admitted ActiveAdmit ted New	Active
Default Messaging Method for a new patient in the New Patient Wizard	PatientWizard_DefaultMessaging Method	Use one of: Email Fax Mail Phone/ Email Phone/Fax Phone/Mail	Mail
Cessation Reason to use when automatically stopping a treatment if a patient is marked as deceased	TreatmentPlan_DeceasedCessatio nReason		
Maximum number of months in the past allowed for the start date of a long-term treatment plan before a warning is displayed	TreatmentPlan_LongTerm_MaxSt artMonthsInPast		12
Maximum number of days in the past allowed for the start date of a short- term treatment plan before a warning is displayed	TreatmentPlan_ShortTerm_MaxSt artDaysInPast		21
How many days in the future can the Treatment Plan start date be set before displaying a warning message	TreatmentPlanStartDaysInFuture		0
Caption for the Consultant field in table Treatment Plan	TreatmentPlanConsultantID_Field Caption		
Caption for the Referring GP field in table Treatment Plan	TreatmentPlanReferringGpID_Fiel dCaption		
List of coded options for the Transport Needs dropdown in the Treatment Plan	TreatmentPlan_TransportNeedsO ptions	Value; Caption [New Line] Value; Caption [New Line] etc	1; Transpo rt 2; Home
The number of weeks a Treatment-plan is marked as 'New'	NewPatientWeekCount		8

24.6 AC System Settings

Description	System Setting Name	Value	Standard Setting
Does the system allow INR-dates in the future	Treatment_AllowFutureINRdate	1 = Allow 0 = Don't allow	1
Must the treatment be automatically authorised once the dose is accepted	Treatment_AutoAuthorise	1 = Auto 0 = Manual	1
Must the treatment be automatically scheduled.	Treatment_AutoScheduleAtCreation	0 = No 1 = Yes	1
Use colour coding of buttons to indicate warnings?	Treatment_ColourCodeButtons	0 = No 1 = Yes	1
The max days the day-interval may change before a warning is sent	Treatment_DayIntervalChangeWarni ngTreshold	Enter a number like 7 (indicating 7 days)	7
Does the Auto-Schedule-feature allow non-preferred times when rescheduling DNA's.	Treatment_DNAreschedule_AllowNo nPreferredTime	0 = No 1 = Yes	1
The max percentage (as a whole number) the dose may change before a warning is sent	Treatment_DoseChangeWarningTres hold	Enter a number like 25 (indicating 25%)	30
Threshold for High-INR messages	Treatment_HighINRmessageTreshold	Like 6.5	6
The minimum percentage for Time In Range. If the Time In Range is lower, a warning is given	MinTimeInRangeWarningPercentage	Enter a number like 40 (indicating 40%)	40
Maximum amount the INR may differ from the target before a warning is raised.	Treatment_INRawayFromTargetWar ningTreshold	A value of zero (0) suppresses this check.	2.5
Absolute amount the INR may change before a warning is sent	Treatment_INRchangeWarningTresho ld	Use decimal point, like: 1.5	1.5
Threshold for Low-INR messages	Treatment_LowINRmessageTreshold	Like 1.0	1.5
Maximum days in the past that is allowed for the INR date when registering the INR	Treatment_MaxINRdateInPast		14
Maximum days number of records shown in the treatments list	Treatment_MaxRecordsInTreatmentL ist		20
Maximum days Miss Or Boost-days,	Treatment_MissOrBoostWarningDay		5

before a warning is sent	Treshold		
Maximum days Miss Or Boost Boost-percentage, related to the base-dose	Treatment_MissOrBoostWarningPerc entageTreshold	For example 100 for max 100% boost. Enter as a whole number (like 75)	100
Maximum days Miss Or Boost Boost-tablets, before a warning is sent	Treatment_MissOrBoostWarningTabl etsTreshold	For example 2	3
Percentage dose change that triggers an automatic switch to manual/bridging dosing	Treatment_SwitchToManualDosing_T hreshold	If no value entered, this will default to 25.	0
Should a treatment note be added on automatic switch to manual/ bridging dosing?	Treatment_SwitchToManualDosing_T reatmentNote	0 = No 1 = Yes	1
Should the Total Mg line of a dosing instruction always be displayed in decimals regardless of whether the tablet lines are shown in fractions.	AC_DisplayDosingInstructions_ShowT otalMgInDecimals	0 = No 1 = Yes	0
Must the AC dosing-instructions be displayed using fractions or decimals.	AC_DisplayDosingInstructionsInDecim als	0 = Fractions 1 = Decimals	0
Must the AC dosing-instructions be displayed in text-style instead of HTML-formatted style	AC_DisplayTextStyleDosingInstruction s	1 = Text- style 0 = HTML- formatted style	0
How long is the measurement of the patient's weight valid for prescribing weight-based LMWH- drugs	AC_LMWH_PatientWeightMeasurem entExpiryIntervalDays	Enter a number like 14 (indicating 14 days)	14
Must the bookprinter's next label position be shown in the Patient's Letters-tab	AC_ShowBookPrinterNextLabelPositi on	0 = Hide 1 = Show	0
Should the DNA count be shown in the treatment history?	AC_ShowInHistory_DNACount	0 = No 1 = Yes	1
Should the full dosing instruction be shown in the treatment history?	AC_ShowInHistory_DosingInstruction s	0 = No 1 = Yes	1
Should the time in range be shown in the treatment history	AC_ShowInHistory_TimeInRange	0 = No 1 = Yes	1

Must the total-dose line be shown in the instructions	AC_ShowInstructionTotalDoseLine	0 = No 1 = Yes This value can be overruled per regime	1
Is DNA-Bulk Reschedule allowed on treatments with the INRdate on today?	AllowDNAbulkRescheduleOnINRday	0 = No 1 = Yes	0
Allow adding dose INR history for the current treatment plan.	AllowMultipleINRsPerDay	1 = Allow 0 = Disable	0
Allow dosing without an INR	AllowZeroINR	0 = No 1 = Yes	0
If dosing without an INR, the dose will revert to the previous dose if the setting is 1, otherwise the dose will be set to 0.	AllowZeroINR_RevertToPreviousDose	1 = Revert to previous dose 0 = Dose set to 0	0
Does the system allow dosing week patterns to be customized	Dosing_EnableCustomizedWeekPatte rns	0 = No 1 = Yes	1
The number of days the treatment plan must be 'running' before the maintenance Auto Calc can be done	DosingEngine_DaysToAutoCalc		7
The max INR-discrepancy from the INR-limits that is allowed without a dose-change.	DosingEngine_INRsafeZoneMargin	Use values from 0 to 0.8.	0.8
The max dose difference permitted between any 2 days in the same dosing instruction before DAWN assumes it is a bridging or loading dose	DosingInstruction_MaxDiffBetweenD ays	0 = Any amount permitted (disable check) 1 = Smallest whole tablet 2 = Smallest part tablet (e.g. half a tablet)	1
The first day of the week	FirstDayOfWeek	1: Sunday 2: Monday 3: Tuesday 4: Wednesday 5: Thursday 6: Friday 7: Saturday	1
The number of INRs in a row that must be falling or rising before a	INRrisingOrFallingRecordCount		3

warning is issued			
The number of days to evaluate for the Time-in-range calculations	PercentageInRangeDayCount		365
Use Manual/Bridging and Induction INRs along with Maintenance INRs in the Time in Range calculation	TimeInRange_UseBridgingInCalculati on	0 = No - Only use Maintenance 1 = Yes - Use Maintenance , Manual/ Bridging and Induction INRs	0
Default value for the Maximum Interval-field in new treatment plans	TreatmentPlan_MaxInterval_Default		42
Default value for the Maximum Percent Dose Change-field in new treatment plans	TreatmentPlan_MaxPercentDoseCha nge_Default		20
Default AC Therapy	TreatmentplanACTherapyDefault	1: Induction 2: Maintenance	2
Must the VGR be displayed in the Treatment Plan / Patient-forms	VGR_DisplayVGR	0 = No 1 = Yes	0
Indicates whether this installation includes an inbound INR interface	Interface_ActiveACInterface	0 = No 1 = Yes	
The default number of days to advance for Batch Rescheduling	BatchReschedule_DaysToAdvance		7
The max count of Non-Attendances	BatchReschedule_MaxDnaCount		3
The caption for the TelApp field 'SendDNAfollowUp'	TelApp_SendDNAfollowUp_Caption	An empty caption will make this field invisible	Send dosing instruction s
The default value for the TelApp field 'SendDNAfollowUp'	TelApp_SendDNAfollowUp_DefaultV alue		0
The caption for the TelApp field 'SendDosingInstructions'	TelApp_SendDosingInstructions_Capti on	An empty caption will make this field invisible	Send dosing instruction s
The default value for the TelApp field 'SendDosingInstructions'	TelApp_SendDosingInstructions_Defa ultValue		0
The caption for the TelApp field 'SendReminders'	TelApp_SendReminders_Caption	An empty caption will make this field invisible	Send reminders
The default value for the TelApp	TelApp_SendReminders_DefaultValue		0

field 'SendReminders' The name of the Telephony TelApp_TelephonyApplicationName Call Assure application, for example CallAssure Must INR prediction be switched 1 = 0 EnableINRprediction on? Prediction on 0 = Prediction off The max number of treatment-6 MailMerge_MaxTreatmentCount history in MailMerges (including the current) The maximum number of Miss or MaxMissOrBoostDays 9 Boost days Percentage dose change that Percentage_Dose_Change_Requiring 20 triggers forcing the user to enter a Review review note before accepting the dose How many months' worth of INR 18 AC_PatientGraph_MonthsToInclude results and doses should be included in the graphs (working back from today)?

24.7 Other System Settings

System Setting Name	Value	Standard Setting
Interface_ActiveResultsInter face	0 = No 1 = Yes	0
ApplicationLanguageID	0 = English	0
CodedCommentPrefix		
CustomTimerActions		NULL
DatabaseVersion	This is automaticall y set to the version compatible with the version of DAWN	
DawnMessages_		"Please see
Emaillemplate		attached PDF file"
n		
r.		
tit		
fin		
la		
e		
	 Interface_ActiveResultsInter face ApplicationLanguageID CodedCommentPrefix CustomTimerActions DatabaseVersion 	Interface_ActiveResultsInter 0 = No face 0 = English ApplicationLanguageID 0 = English CodedCommentPrefix

are sent by the system	Address		cal.org
The delay in minutes for messages to be sent	Message_DelayMinutes	Enter a number like 15 (indicating 15 minutes)	0
The interval in seconds between runs of messages being picked up for processing	Message_Process_Interval	Enter a number like 10 (indicating 10 seconds)	10
The machine name and port the Performance Monitoring tool is using, i.e. localhost:8000 NOT http:// localhost:8000/DawnLogger	PerformanceLogging_Addres s		NULL
The maximum number of seconds a script can run before the server terminates it.	PolarServer_Script_Comman dTimeOut_Seconds	The default is 120 seconds (Polar Server sessions only)	120
The time in seconds to wait for the sql command to execute.	PolarServer_SQL_Command TimeOut_Seconds	The default is 60 seconds. (Polar Server Sessions only)	60
The maximum number of seconds a script can run before the server terminates it.	PolarTimer_Script_Comman dTimeOut_Seconds	The default is 120 seconds (Polar Timer Only)	120
Is the automatic database re-index allowed to run?	RunAutoReIndex	0= No re- index allowed 1=Re-index allowed	0
The (optional) name for the SMTPserver when sending mail using CDOsys	SendMail_CDOsys_SMTPserv erName		0
Should the session-management use HTTP-only cookies to prevent the risk of XSS attacks.	Session_SecureCookiesWith HttpOnly	0 = No 1 = Yes	0
Should the session ID passed in the session cookie be crossed checked with the session ID passed in the URL as an extra safeguard against session hijacking	System_SecureCookieBased SessionsWithUrl	0 = No 1 = Yes	1

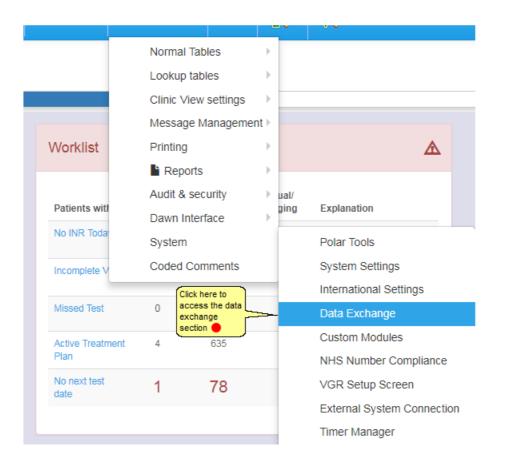
Specify the interval in minutes at which the system should check for updates to system settings	SystemSettingCheckForUpda tesInterval		1
Last Date / Time of Timed Message which processed	TimedMessagesLastRunDate Time		2019-02-21 09:32:18
Process any timed messages missed in the last week when service restarted	TimedMessagesProcessMiss edMessages	0 = No 1 = Yes	0
How often should timer events run, in seconds?	Timer_TimerInterval	Min: 5 Max: 3600 (1 hour)	5
Email address to receive error emails from timer tasks, leave empty to send no emails on error	TimerManager_ErrorEmail_E mailAddress	Leave empty to send no emails on error	0
List of error numbers which should be ignored, i.e. no email notifications for these errors (separate values with ',' or ' ;' eg 10,20;30)	TimerManager_ErrorEmail_I gnoredErrorNumbers	Separate values with ',' or ' ;' eg 10,20;30	0
The name of the computer that is to run the TimerManager, set blank to disable the Timer Manager (default use * for current computer name)	TimerManagerComputerNa me	Set blank to disable the Timer Manager (default use * for current computer name)	-
Turn Performance Monitoring on using 1, turn it off using 0	Use_PerformanceLogging	1 = On 0 = Off	0
Should the patient screen display a list of users who are viewing the current record?	ConcurrentUsersWarning_En abled	0 = No 1 = Yes	1
Should a message box be displayed warning the user if another user is viewing the patient record?	ConcurrentUsersWarning_Sh owMessageBox	0 = No 1 = Yes	1
Width of the content in a list view.	ListViewContentWidth	Set to 100% to use all available width. Set to 640px to match older versions of DAWN. If the list view content exceeds the width, you	100%

		will have to scroll to see the content. If blank, 100% is assumed.	
The background colour for the patient screen.	PatientForm_BackgroundCol or	Leave blank for white or enter a colour in rgb or hexadecimal syntax, i.e. rgb(221,221, 236) or #ddddec	rgb(221,221,23 6)
Is this a DAWN Test system	Test_System	0 = No, it's a production system 1 = Yes, it's a test system	0
Should the banner showing the patient's name and identifiers remain fixed at the top when you scroll the patient screen?	PatientForm_FixBanner	0=Yes, fix for all devices 1=Don't fix on phones and smaller tablets 2=Don't fix on any devices	0
View the Referral count on the Worklist dashboard panel?	Dashboard_ViewReferralCou nt	0 = No 1 = Yes	0

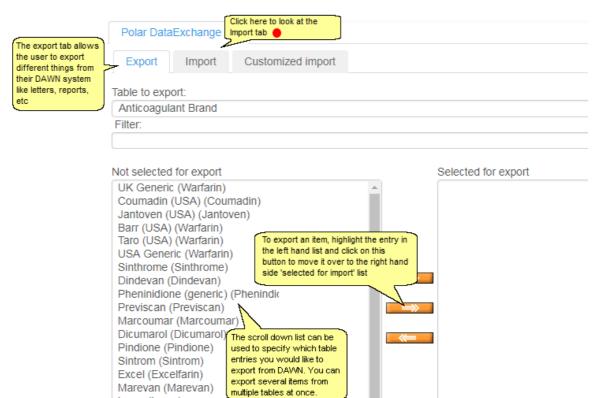
25 Data Exchange

Data exchange allows users to easily import and export items such as Dosing Regimes, Message Templates, List Views, Custom Modules and Look up tables to and from their DAWN system, without needing to involve the IT department.

For example, the support team may create a new list view and email it to you as an XML file. You would save the file to your local machine and import it into DAWN using the Data Exchange import facility. The new list view would then be installed and ready for testing.



25.1 Export Screen



Once the items you need are displayed in the right

hand list, click on this button to save the xml file

produced. This xml file will contain your items

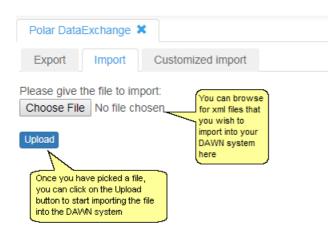
kovar (kovar) Grindeks (Grindeks) Nycomed (Nycomed)

Canonpharma (Canonpharma)

Download selected data

© 2024

25.2 Import Screen



Index

- 7 -

7.7 Dosing 313

- A -

AC Brands 354 Accept Instruction 229 Accessing List Views 167 Adding a Blood Group 98 169 Adding a New Patient Adding Clinic Details 59 Adding history Historical INRs 178 Treatment History 178 Adding Slot Templates 60 Adding Teams 81 111 Adding/Editing a Message Event Adding/Editing a Message Template 110 Adding/Editing Allergies 94 Adding/Editing Blood Groups 96 Adding/Editing Diagnoses 98 Adding/Editing Diagnosis Groups 104 106 Adding/Editing Diagnosis Stages Adding/Editing Drugs 100 Adding/Editing Events 101 Adding/Editing Healthcare Professional Types Adding 67 Editing 67 Adding/Editing Organisation Types List of Organisation Types 50 103 Adding/Editing Procedures Adding/Editing WarnLevel 89 Adjusting the Last Dose Retrospectively 334 adverse events 441 Amending 230 Anticoagulants 351 Apixaban, 385 Authorise Dose 241

- B -

Bridging 207

- C -

Calendar 227 cancel changes, 416, 427, 437 CHADS, 426, 446 Change clinic 380 433 change dose, 433 change drug, changing anticoagulant 454 changing type 454 Clinic Adding 57 57 Editing **Clinic Adjustment Form** 63 **Clinic Diary Slots** 66 clinic. 384 Coded Comments 118 416, 427, 437 complete, compliance 440 Concurrent User Warning 43 Confirm DNA 270 Contraindications 405 Creating a Tablet Strength 358 Creating an AC Brand 356 Creating new Anticoagulant 353 Creating the Diary 64 **Custom Instructions** Inhibiting 337 Permitting 337 **Customise Plain Text** 340

- D -

Dabigatran 383 dabigatran dose, 433 Dabigatran, 385 Data Exchange 492 Day Pattern Dose Instructions 317 **Day Pattern Instructions** Compatibility 340 Decrease 230 433 decrease dose, delete a questionnaire, 416, 427, 437 diagnosis. 384 different 228 different VKA's 454 DNA 458 DNA Count 271 **Dose Calculations**

Dose Calculations Preventing 332 330 Dose History Dose Instructions in Mg 321 Dosing a Patient 226 **Dosing Instruction Types** 316 **Dosing Instructions** Working With 316 **Dosing Regimes** Activating 359 313 **Basic Concepts** Deactivating 359 Maintaining 359

- E -

Edit Dose Instruction 318 Editing Existing User Profiles 75 Export 493

- F -

FAQ Frequently Asked Questions 379 First Day 319 Follow-up 396 follow-up questionnaire 436 Front page 43

- G -

Generating an outbound message Flat file 277 PDF file 277 group, 384

- H -

haemorrhagic risks 446 HASBLED. 426.446 **HCProfessional** Adding 69 69 Editing Health Authority Adding 49 Editing 49 Health Authority Form 50 Healthcare Account Information 73 Healthcare Professional Form 71 Healthcare Professional Password 74 Help with recommended guidelines 404 hepatic 443 Highlight 240

- | -

494 Import 231 Increase 433 increase dose, Induction 199 Induction Dosing Validation 202 Initiation 388 INR 226 Instruction in Message Templates 336 interacting drugs 444 Interface Results 277, 284 Interface

- L -

late 458 Leave Days 320 List of Blood Groups 97 List of Clinics 58 List of Diagnoses 99 105 List of Diagnosis Groups 107 List of Diagnosis Stages List of Drugs 100 List of Events 102 List of Health Authorities 49 List of Healthcare Professional Types 68 List of Healthcare Professionals 70 List of Message Events 112 List of Message Templates 111 List of Organisation Types 51 List of Organisations 53 List of Patient Allergies 95 List of Patient Groups 80 103 List of Procedures List of Wards 56 List of WarnLevels 91 list view 384 List Views - What are They? 167 list, 384 LMWH Instructions Adding 321 Validate 328 Logging In Active Directory 38 Logging into DAWN

Logging into DAWN Change password 30 Forgot password 30

- M -

206 Maintenance Bridging 381 Induction 381 Procedure 381 Manual 8 Links To Mapping Printers to Paper Type 291 mark as completed, 416, 427, 437 Messages 241 Messaging 129 133 Adding a new External System Connection Adding a Timed Message 139 Adding a Timed Message Template 137 Altering Healthcare Professional Specific Contact Details 141 Altering Patient Specific Contact Details 139 Deleting an External System Connection 134 **Email Healthcare Professional** 306 **External System Connections** 132, 133, 134 306 Healthcare Professional preferences 133 List of External System Connections List of Timed Message Templates 136 List of Timed Messages 138 Message Center 299 Messages to patients 301 Reminders 309 SMS Healthcare Professional 306 Timed Message 137, 138, 139 **Timed Message Templates** 136, 137 Miss or Bosst Days Multi Tablet Instructions 234

- N -

New Ward Form 57 No Dose Change 236 non-attendance 270, 458 non-attender 458 Non-Attending 272 385 nonVKA non-VKA 383 non-VKA, 385 Not Today 228

- 0 -

Organisation Adding 52 52 Editing **Organisation Form** 54 Organisation Ward 55 Adding Editing 55 other anticoagulants 445 other non-VKA agents 409

- P -

Patient Group Adding 79 Editing 79 Patient Group Form 81 Patient History Viewing 456 patient questions 440 **Personal Settings** Personal Settings Form 85 Personal Settings Form 86 **Plain Text Instructions** 339 Pradaxa 383 pradaxa. 433 Printing User Guide 285

- Q -

Questionnaires 387

- R -

Regimes and Instructions Setting Up 351 renal function 405.442 408 reporting Reschedule Change next appointment 379 Change next test date 379 rewind. 416, 427, 437 Risk 93 **Risk Class** 86 **Risk Settings Risk Class** 87 Severity of Risk 87

Rivaroxaban, 385 Rivaroxadan 383

- S -

Scenarios 209 schedule 414, 436 score, 426, 446 Selecting a Paper Type 295 Selecting Paper Type in Message Event 297 Setting up a New Paper Type 289 Setting up Dawn mailer **Processing Messages** 288 Setting up New Print Location 293 Setting up Print Station 285 Slot Template Form 61 Standard Induction Algorithms Induction Algorithms 202 starting 430 stopping 434 System Workflow 30

- T -

234 Tablet **Tablet Strength** 357 Test Date 226 **Test Date Change** 236 Therapy 199 Bridging Induction 199 Maintenance 199 Timed message processing 130 Timed Message Service 130 Timer Manager 143 Auto Maintain Diary 146 Stopping the Timer Manager Manually 147 Timer Manager Screen 144 Timer Manager Settings 144 **Treatment Notes** 240 treatment plan 430

- U -

Undo 231 Undo a Dose 379 User profile Adding 74 Editing 74 User Profile Form 76

- V -

validation checks 407

- W -

warnings 406 workflow 410

- Z -

Zero Dose 235