

Make Life Easier and Safer in Your Anticoagulation Service Through Better Information Presentation

DAWN AC Anticoagulation management software is the global market leader for managing large anticoagulation clinics. It is designed to help you establish a more efficient, effective and safer way of managing your patients. It is a complete anticoagulation decision support package covering induction, maintenance, bridging, novel oral anticoagulants and VTE diagnosis assessment.

- Everything in one place – a complete picture of the patient
- Mistake proofing design colours, exclamation mark warnings, front screen dashboard
- Dynamically filtered worklists
- Complete clinic management
- Scientifically validated dosing algorithm
- Enables shared care across organisations
- Handle more patients more easily
- Improve efficiency and productivity
- Configurable to fit your workflow – letters, emails, faxes, reports, list views
- Powerful reporting facility
- Fully auditable
- Extensive note recording capability with fast short codes
- Integration with other software systems

"I need to be able to prove to the Trust and patients that the anticoagulant service that we provide is as safe, auditable and current as possible. DAWN has proven to be an extremely safe package, compliant with guidelines / recommendations and with readily available support"

**Peterborough and Stamford Hospitals
NHS Foundation Trust, UK**

Aarvark, Lucy - 01/01/1933 - 3434535 - Horse & Hound Cottage, Kells / Nr Bransty, Wigton

Risk class: **High**
 Pref. clinic: Halton Clinic (BANK RC)
 Phone: 01956 657411 - home
 Age: **80**

Diagnosis: ATRIAL FIBRILLATION ...
Target Range: 2.0 - 3.0 (2.5 Target)
Start date: 18/07/2012 - Indefinite
Anticoagulant: Warfarin 1, 3 & 5mg Strength Tablets(Weekly Total)
Treatment Plan: 1 of 1 active
Risks: aged 75 or over, poor compliance

INR: 3.2 **High** ✓ Date: 27/03/2013
 Scheduled for Wed 27/03/2013, 09:00 AM - 10:00 AM in clinic: Halton Clinic

Warfarin

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (1 mg) ..	1/2			1/2			
Pills (3 mg) ..							
Pills (5 mg) ..		1	1	1	1	1	1
Total mg	5 1/2	5	5	5 1/2	5	5	5

Dose decreased by 9% Dose: 36.00 w
 Status: **Tested** Next: 03/04/2013 7 d
 Accept dose

Warnings
 Dose Change: 2 OUT OF 3 ABOVE 3.0

Treatment notes

Patient hard of hearing

WOODSIDE MEDICAL CENTRE - 28/03/2013 11:30 AM
 Support Dawn
 Need to arrange doc review re: tablets
 WOODSIDE MEDICAL CENTRE - 22/01/2013 12:03 PM
 Support Dawn
 Patient called - need some advice from doc re: a small bleed
 WOODSIDE MEDICAL CENTRE - 07/12/2012 11:01 AM
 Support Dawn
 Called patient - they have missed a tablet and are concerned

Graph History Personal Treatment plans Questionnaires Test Results Interface Warnings

Date	INR	Dose	Dosing Instructions	Time	DNA	In range	Com
Wed 27/03/2013	3.2	36.00 w	Warfarin Pills (1 mg) .. 1/2 Pills (3 mg) .. Pills (5 mg) .. 1 Total mg 5 1/2	Sun Mon Tue Wed Thu Fri Sat	7 d		
Wed 13/03/2013	2.4	39.50 w	Coumadin Pills (1 mg) .. 1 Pills (3 mg) .. 1/2 Pills (5 mg) .. 1 Total mg 6	Sun Mon Tue Wed Thu Fri Sat	2 wk		
Wed 06/03/2013	3.2	39.50 w	Coumadin Pills (1 mg) .. 1 Pills (3 mg) .. 1/2 Pills (5 mg) .. 1 Total mg 6	Sun Mon Tue Wed Thu Fri Sat	7 d		

The patient screen layout enables easy viewing of all the key patient information in one place with great use of colour and alerts to boost mistake proofing. Less scrolling. Less Jumping from window to window. Minimum clicks.

DYNAMIC PATIENT LISTS

Manage your activities through dynamic patient lists created by selecting your chosen criteria e.g. all patients with an INR but no Dose instruction yet.

List view

With **Incomplete visits**

All (All risk classes) (All diagnoses) (Any target range) All (All clinics)

Today (All roles) (All teams)

Work List Non Attendance Reminders Status Post Clinic Check Non-VKA Phone List

Filter With Incomplete visits
Date Today
6 records found.

High

Name	Test Date	INR	Target	TIR	Drugs	Events	Procedures	Risk Class	Sample
Gilberts, Annie	28/03/2013	4.50	2.50	35%				High	

Low

Name	Test Date	INR	Target	TIR	Drugs	Events	Procedures	Risk Class	Sample
Asselberghs, Marion	28/03/2013	1.90	2.50	67%					
Weston, Lucy	28/03/2013	1.50	2.50	51%				High	

InRange

Name	Test Date	INR	Target	TIR	Drugs	Events	Procedures	Risk Class	Sample
Abbott, Wilfred	28/03/2013	2.70	2.50	17%					
Aarvark, Lucy	28/03/2013	2.20	2.50	83%	Yes			High	
Adams, Ernest	28/03/2013	2.10	2.50	34%					

RISK STRATIFICATION

A patient risk class can be specified here to create subsets of patients by risk. Risk class names and criteria are manually defined by the DAWN user.

Peterson Edwin 09/08/1928 4546454

Risk class: **High**

Pref. clinic: [dropdown]

Phone: 837-2783 - home

Age: 80

Diagnosis Afib

Target Range 2.0 - 3.0 (2.5 Target)

Anticoagulant Coumadin 2.5 Mg Daily Dose

Start date 03/01/1999 - Indefinite

Treatment Plan 1 of 1 active

Risks

% TIME IN THERAPEUTIC RANGE INDICATOR

The patient's overall time in range figures can be viewed here. Hovering the cursor over each colour will display the % time in, above and below range.

Peterson Edwin 09/08/1928 4546454

Risk class: **High**

Pref. clinic: [dropdown]

Phone: 837-2783 - home

Age: 80

Diagnosis Afib

Target Range 2.0 - 3.0 (2.5 Target) **In range: 76%**

Anticoagulant Coumadin 2.5 Mg Daily Dose

Start date 03/01/1999 - Indefinite

Treatment Plan 1 of 1 active

Risks

INTERACTING MEDICATIONS

Any drugs that the patient is taking can be logged on the patient screen. Any relevant interaction for the drug is also displayed. Red flag icons present beside the drug and on the drugs tab, indicate that the patient is currently taking an interacting drug.

Drug	Start date	End date	Dose	Frequency	Interaction
Amiodarone	07/22/2009				ENHANCED ANTICOAGULATION EFFECT
Plavix	01/01/1900				ENHANCED ANTICOAGULATION EFFECT
Metoprolol	01/01/1900				
Celebrex	01/01/1900				ENHANCED ANTICOAGULATION EFFECT

PATIENT EVENTS

Events can be logged on the patient screen, including the event severity and date. Red flag (exclamation marks) icons present beside the event and on the events tab indicate that the patient has had a recent event. Event classifications and severities can be defined by the user.

"The changes implemented thus far with DAWN AC have placed the AMS in a better position to address national objectives pertaining to future quality and safety concerns in our patient population"

Massachusetts General Hospital, Boston, USA

"DAWN ensures that a full audit is possible, enabling us to meet NPSA and CPA guidelines"

Southend Hospital NHS Trust, UK

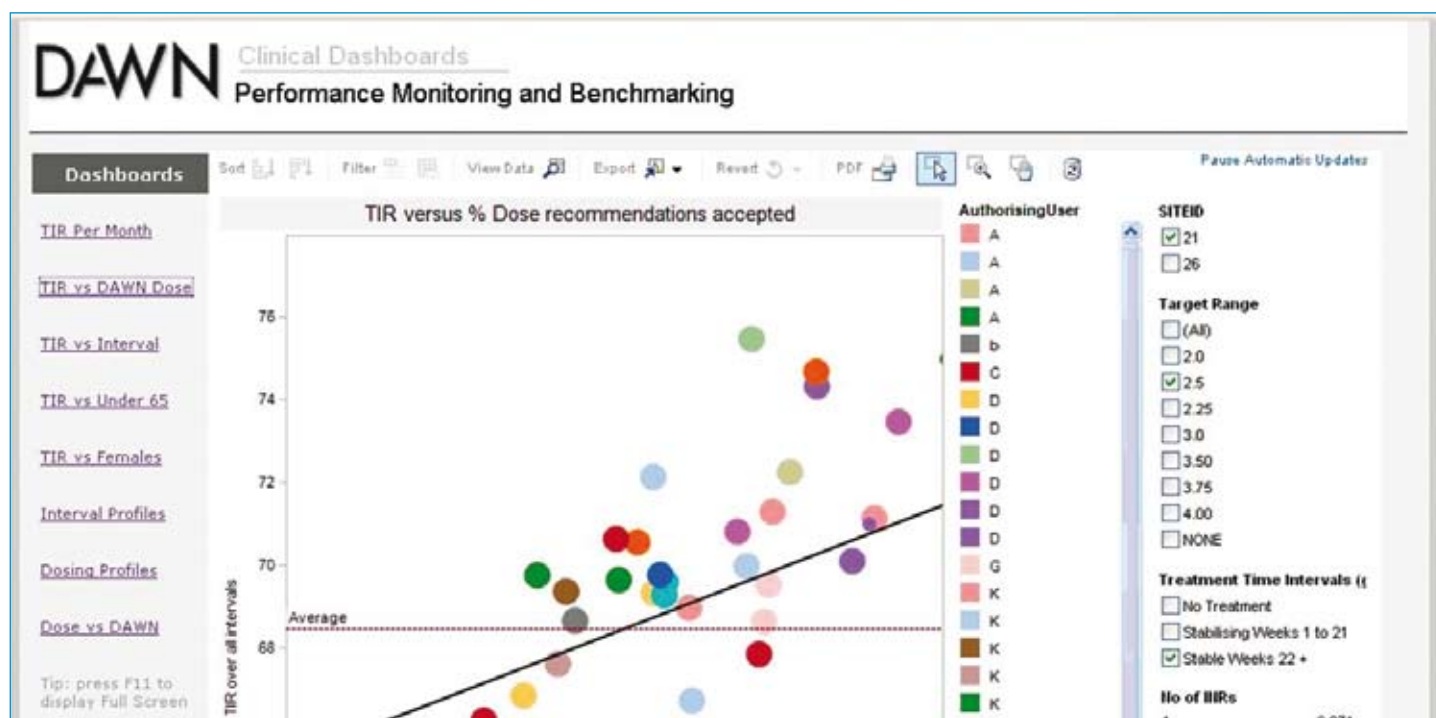
CUSTOMISED DOSE SETTING & BRIDGING

The DAWN AC user has complete autonomy over the dose authorised using the DAWN AC software. The patient's dose, next test can be set by the user. The DAWN user can double-click on the dosing instruction to produce an editable dosing section on the right hand side of the screen. LMWH Drugs can be logged within the patient visit and the LMWH regime can be specified by the user. Daily dosing amounts can be amended in editable text fields.

The screenshot displays the DAWN AC software interface. At the top, there are tabs for Dosing, Contacts, Letters, Drugs, Events, Procedures, Reviews, Reminders, Groups, and Documents. The main window is divided into two panes. The left pane shows a summary of dosing instructions for Warfarin and Lovenox. The right pane, titled 'Customize dosing-instruction', allows for detailed editing of these instructions. The Warfarin section shows a table of dosing instructions for different days of the week, with a total of 3 pills (3 mg) per day. The Lovenox section shows a table of dosing instructions for different days of the week, with a total of 80Mg per day. The right pane also includes a section for 'Enoxaparin' with a dosing instruction of 1 mg per kg (once a day) and a patient's weight of 70.0 kg (Measured 29/03/2013). At the bottom of the left pane, there is a status bar showing 'Dose decreased by 14%', 'Dose: 2.57 d', 'Status: Tested', and 'Next: 12/04/2013 7 d'. An 'Accept dose' button is also present.

OUTCOMES REPORTING—TTR'S & EVENTS

A visualisation of the % TTR (time in therapeutic range) by healthcare professional produced from DAWN AC and Tableau Software.



BENCHMARKING

This service enables your organisation to determine where your anticoagulation service ranks against others. Utilising anonymous data extracted from DAWN AC systems a report is generated comparing sites using 33 key measures such as percentage time in range. Our benchmarking service for DAWN AC has been running for fifteen years and is subscribed to by over 100 centres around the world.

"Without a comprehensive management tool like DAWN AC, providing quality anticoagulation services to large numbers of patients within our organisation would be very difficult. Our experience using the program has been very positive"

Kaiser Permanente, Colorado, USA

For a **FREE** online demonstration and no obligation quotation, contact us today
+44 (0) 15395 63091 sales@4s-dawn.com www.4s-dawn.com

CLINICALLY VALIDATED SOFTWARE

DAWN AC Anticoagulation software has a clinically validated dosing algorithm.

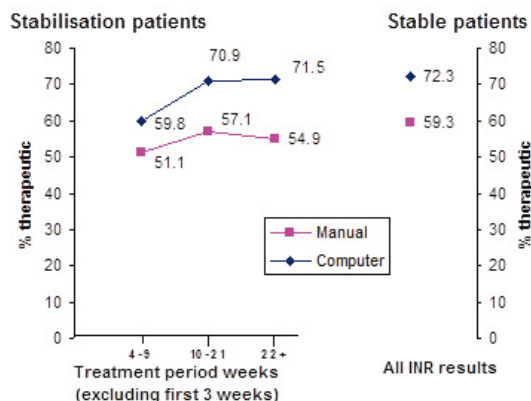
1. Poller et al. *Multicentre randomised study of computerised anticoagulant dosage*, Lancet 1998; 352: 1505-9.

2. Poller L, Keown M, Ibrahim S, Lowe G, Moia M, Turpie AG, Roberts C, van den Besselaar AMHP, van der Meer FJM, Tripodi A, Palareti G, Shlach C, Bryan S, Samama M, Burgess-Wilson M, Heagerty A, MacCallum P, Wright D and Jespersen J. *A multicentre randomised assessment of the DAWN AC Computer-Assisted Oral Anticoagulant Dosage program*. Thrombosis and Haemostasis 2009; 101:487-494.

KEY FEATURES

- An ergonomic, patient safety-conscious user interface design that gathers the important patient information into one place and minimises time and confusion switching between different screens; and scrolling up and down long pages.
- Fully customisable management and research reports which can be used to measure, analyse and further improve the efficiency and efficacy of your service using Lean Six Sigma or other techniques.
- Comprehensive, flexible and customisable dosing that takes account of the anticoagulant e.g. Warfarin, Coumadin and tablet size as well as enabling Low Molecular Weight Heparin (LMWH) dosing for bridging and induction.
- Suggested VKA maintenance dose and test intervals are based on a scientifically validated dosing algorithm, which has been CE marked.
- Clinic management features such as non-attendee handling, phone lists, reminders (e.g. for patient holidays, to request blood tests etc) to ensure no patients or tasks are overlooked.
- Powerful exception flagging and individual risk assessment capabilities (interacting drugs, adverse events, risk factors, procedures) enabling easy identification of patients with complications.

% time in all INR Ranges (Rosendaal)



"A great team of customer care professionals"

Barts Health NHS Trust, London, UK

- Consistent, clear, logged communication with patients and other healthcare professionals via letter, phone, and email (also interactive voicemail and SMS messaging with 3rd party additions).
- HIPAA compliant with all work fully audited to provide full visibility on who did what, on which patient and when; including user role-based security.
- An extremely comprehensive patient record together with a flexible reporting capability ensure that audits against guidelines such as the 2008 National Patient Safety Goals for Anticoagulation are simple and straight forward.
- A web browser-enabled system (install once, use anywhere) on an industry standard database that is scalable to handle multi-centre or site organisations and highly configurable to fit in with the way you want to work. This enables shared care with seamless transfer of patients between primary and secondary care.
- Full audit trails of all actions taken.



Established in 1984, 4S DAWN Clinical Software are trusted by over 300 healthcare organisations across the world to deliver reliable, disease specific solutions that increase patient safety, facilitate productivity gains and improve quality of care.

OUR PROMISE

Our commitment to delivering superior software that increases patient safety and facilitates productivity gains whilst improving quality of care is at the heart of everything we do.

With a dedication to continuous product development, DAWN Clinical Software is designed specifically with shared access and a high degree of usability in mind, and with the necessary safeguard and audit facilities, putting the user firmly in control.

Working together to build strong customer relationships ensures that our customers receive an excellent service built upon integrity, clear communication and a responsive, first class support team.

QUALITY COMMITMENT

4S Dawn Clinical Software has identified the processes necessary to ensure that product and service conforms to customer requirements. As a means of implementing and demonstrating the defined processes, the organisation has established a business management system (BMS) covering the requirements of the following quality safety standards:

ISO 9001:2008/TickIT – Quality Management

ISO 27001:2005 – Information Security

EN ISO 13485 – Medical devices - Quality management systems

EN ISO 14971 – Medical devices - Application of risk management to medical devices

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