

Ensure Optimum Quality Care For Your Heart Failure Patients with Improved Information Management

DAWN HF, heart failure management software is designed to allow you to safely and efficiently manage your patients. The Software supports the patient journey from hospital to community documenting diagnosis; referral; assessment; progress monitoring; healthcare professional liaison regarding discharge or transfer; and the follow-up and monitoring of patients in a variety of healthcare settings including hospital, Primary Care Physician/GP practice, community clinics and home visits.

With patient numbers increasing due to the combined effects of improved survival after heart attack and an ageing population, the management of heart failure patients will continue to have a significant impact on healthcare resources.

SUPPORTING THE AIMS OF HEART FAILURE SERVICES

- Effective monitoring of a complex, long-term condition
- Improve symptom control
- Improve compliance to treatments
- Help prevent unnecessary trips to the hospital
- Improve services and outcomes for patients
- Measure performance and meet targets
- Improve quality of life

DAWN HF - KEY BENEFITS

- Reduce emergency hospital admissions
- Improve your efficiency and productivity
- Increase patient safety, enabling shared care across multi-disciplinary teams
- Save time with all patient information in one place - document and store all relevant clinical information
- Facilitate the investigation of anomalies with full audit and reporting facilities

Lemon, John - 11/06/1950 - 7894561 - 4 The Square, Ackentwaite Village

Risk class: **Elevated Risk (NYHA / CCS)**
 Pref. clinic: **PCP monitoring (Large Hospital)**
 Phone: **44 15395 63091 - home**
 Age: **63**

Diagnosis: HF with decreased systolic function (08/30/2011) ...
Start date: 10/31/2011 - Indefinite
Therapy: Heart Failure - CHF assessment
Ref. Range: (None selected)
Treatment Plan: 1 of 1 active
Risks: icd

Interventions **Contacts** **Letters** **Drugs** **Events** **Procedures** **Reminders** **Documents**

Therapy: CHF, Phase: assessment **Phase time: 62 wk/8 wk Phase Visit# : 5/4**
 Due by: 07/01/2013 Type: (None selected)

NYHA class: (None selected)
CCS class: (None selected)
EF:
Exercise:
Home weight:
Weight:
Height:
Systolic blood pressure:
Diastolic blood pressure:

Scheduled
DNA **Close**
Reschedule
Diary **Note** **Review** **Referral**
PCP monitoring (Large Hospital)
 Next date:
☒ Use recommended: **i**
☐ Set manually:
 Normal interval: 2 weeks

Graph **History** **Personal** **Treatment plans** **Test Results**

Date	NYHA	CCS	EF	Exercise	HomeWt	Wt	Ht	BPs	BPd	Pulse	Admissions	ERinpat	Na	K	Scr	Hgb	Fatigue
Details... to continue attending clinic once every 3 weeks																	
05/29/2013	2	n/a	29	chair yoga class twice weekly	172			105	90	65	No	No					
Details... physiotherapy appointments arranged by Dr Zeba																	
05/17/2013	3a	1	29	short walks - 24% less than 1 block	168			102	92	60	No	No	132	2.8	1.3	126	Moderate
Details... started Zestril																	
04/23/2013	2	n/a	35	nil in past week		185	112	85	65		Yes	Yes					Slight
Details... changed PCP - advised central office																	

AMI 1985
 Telehome Monitoring

Large Hospital - Smith Deirdre 05/01/2013 10:42
 Called Dr Blake at Wyoming Family Practice to discuss the beta blocker side-effects

Gray Practice - Blake Norman 06/27/2012 14:54
 Palpitations : Yes
 Dizziness : N
 Ascites : N
 Hepatomegaly : N
 Limitations of ADL: Yes

Large Hospital - Smith Deirdre 08/30/2011 14:55
 Education provided:
 Daily wt
 Fluid Restriction

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.

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A SOLUTION TO COMMON FRUSTRATIONS...

- Searching for information through volumes of notes
DAWN HF is a dedicated, focussed heart failure patient record including full medication history in one place
- Assimilating large amounts of information quickly
Current medications and the patients last assessment are quick to view
- Screening test results for trends
Automatic detection of trends or deviations in results are highlighted in DAWN HF
- Assessing statistics and measures
DAWN HF's reporting facility provides a quick and easy way to access key measures for each patient or group of patients
- Review progress easily
High visibility of patient's progress onscreen in tabular or graphical view
- Keeping track of periodic tests
Powerful diary management, scheduling and reminder functions prevent tests being missed

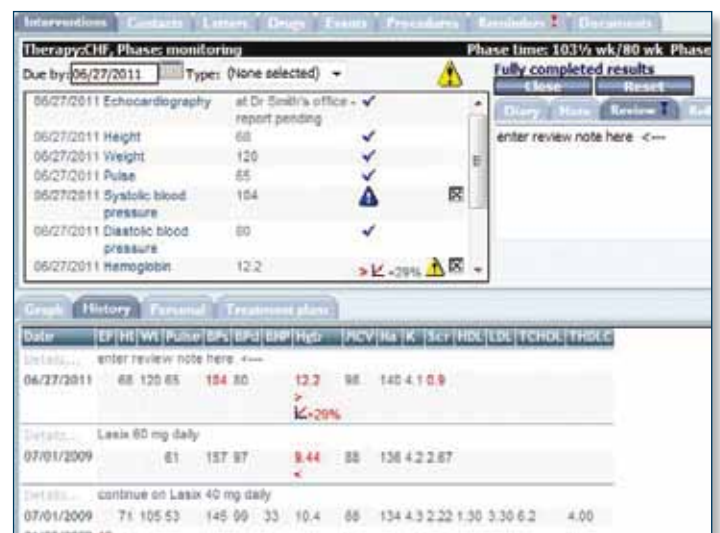
SUPPORTING THE PATIENT JOURNEY...

From hospital to community, DAWN Heart Failure enables you to document and support each stage of the patient journey, ensuring consistency and continuity of care



DOCUMENTING INFORMATION

- Document patient education and lifestyle advice e.g. exercise, smoking, alcohol, vaccination
- A complete record of all monitoring activity including
 - Clinical assessment of functional capacity
 - Weight measurements
 - Cardiac rhythm
 - Cognitive status
 - Nutritional status
 - Lifestyle
 - Drug treatment review
 - Serum urea, electrolytes, creatinine and eGFR



SHARED CARE & COMMUNICATION

- Supports an integrated approach to care delivered by multi-disciplinary teams
- A range of communications tools allow contact to be maintained with all relevant HCPs to ensure everyone is informed of the patient's condition, treatment and management plan
- Secure, web browser-based software allows access from multiple locations including community venues allowing patients to be seen closer to home and reducing the need for hospital visits

Interventions	Contacts	Letters	Drugs	Events	Procedures	Reminders	Documents
Primary Care Physician							
Organisation	Name	Type	Phone	Mobile	Email	Fax	Keep Inform
Gray Practice	Blake Norman MD		876456				
Consultant							
Organisation	Name	Type	Phone	Mobile	Email	Fax	Keep Inform
4S Information Systems Ltd	Doc Happy	Physician (Primary Care)			Doc@doc.co.uk		
Team members							
Organisation	Name	Type	Phone	Mobile	Email	Fax	Keep Inform
Large Hospital	Garcia Anna	Pharmacist			Doc@hospital.com		Warnings only
Large Hospital	K Maureen	Pharmacist					All messages

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SCHEDULING

Integrated diary and scheduling tools ensure structured follow-up and monitoring of patients to ensure no-one is missed regardless of monitoring frequency requirements including, short intervals due to clinical condition or drug treatment changes; an older patient requiring frequent monitoring due to lower drug tolerances; or six monthly monitoring for stable patients.

The screenshot shows a patient monitoring interface for CHF. At the top, it says 'Therapy: CHF, Phase: monitoring' and 'Phase time: 9 wk/80 wk Phase Visit#: 4/20'. Below this, there's a 'Due by' field set to '10/31/2011' and a 'Type' dropdown set to '(None selected)'. A yellow warning icon is present. To the right, there's a 'Partially completed results' section with 'Close' and 'Reset' buttons. Below that are tabs for 'Diary', 'Note', 'Review', and 'Referral'. The 'Diary' tab is active, showing 'PCP monitoring (Large Hospital)' and 'Next date:'. There are two radio buttons: 'Use recommended: 09/27/2011' (selected) and 'Set manually:'. Below this is 'Normal interval: 4 weeks'. On the left, there's a list of activities and exercises: 'Activity /Exercise' (30 mins on the treadmill daily), 'Echocardiography' (08/30/2011 EF 26, -28%), 'Height', 'Weight', 'Pulse', 'Systolic blood pressure', and 'Diastolic blood pressure'.

VITAL SUMMARY

- Vital summary information on the patient is shown prominently in the top left of the screen
- Risk stratify your patients
- Group your patients into clinics for easy management

The screenshot shows a patient summary interface. At the top, there's a 'Risk class' dropdown set to 'NYHA class III or IV'. Below it are 'Pref. clinic' (PCP monitoring (Large Hospital)), 'Phone' (44 15395 63091 - home), and 'Age' (57). To the right is a patient photo. Below the photo are tabs for 'Diagnosis', 'Start date', 'Therapy', 'Ref. Range', 'Treatment Plan', and 'Risks'. The 'Diagnosis' tab is active, showing 'Stent ...'. The 'Start date' tab shows '08/01/2009 - Indefinite'. The 'Therapy' tab shows 'Heart Failure - CHF monitoring'. The 'Ref. Range' tab shows '(None selected)'. The 'Treatment Plan' tab shows '1 of 1 active'. The 'Risks' tab shows 'pulmonary hypertension', 'a/cid'.

EFFICIENT SCREENING OF TEST RESULTS

- Set your own specific disease exception and trend settings to alert 'out of line' results.
- These can be set at the individual patient level, for a specific group of patients or for the general population

The screenshot shows a test results interface for CHF. At the top, it says 'Therapy: CHF, Phase: monitoring' and 'Phase'. Below this, there's a 'Due by' field set to '01/04/2011' and a 'Type' dropdown set to 'Clinic'. A yellow warning icon is present. The main area is a table of test results:

Date	Test	Value	Status
04/14/2011	Echocardiography	48	< [X]
	Height		
08/30/2011	Weight	197	✓
08/30/2011	Pulse	70	✓
08/30/2011	Systolic blood pressure	120	✓
08/30/2011	Diastolic blood pressure	80	✓
10/27/2010	Hemoglobin	138	✓
	Mean Corpuscular Volume		
07/13/2011	Sodium	142	✓

QUESTIONNAIRES AND CALCULATORS

Patient outcome auditing and the recording of other pertinent information relating to the patient, is facilitated by questionnaires and calculators within the patient record. Screens are designed for quick and easy completion with traceability and storage of key metrics for analysis and trending

The screenshot shows a 'Mini-Nutritional Assessment (MNA)' form. At the top, there's a 'Date' field set to '07/01/2009' and a 'Recorded by' field set to 'Large Hospital - K. Am'. Below this are four questions:

- Has food intake declined over the past 3 months due to loss of appetite, digestive problems, chewing or swallowing difficulties? (moderate - loss of appetite)
- Weight loss during the last 3 months. (weight loss greater than 3kg(5.6lbs))
- Mobility (able to get out of bed/chair but does not go)
- Has suffered psychological stress or acute disease in the past 3 months (no)

The screenshot shows a 'RISK MANAGEMENT' form. At the top, there's a 'Patient' dropdown set to 'Finnham Frederick (01/05/1956)' and a 'Date' field set to '07/01/2009'. Below this are four risk factors:

Risk Factor	Detail	Management
Currently admitted	no	not in ICU since last December
Hyperlipidemia	yes	(Make a choice)
Diabetes	no	diet only
		(Make a choice)

REPORTING AND AUDITING

- Advanced reporting tools allow easy extraction of data from the software to support your reporting requirements.
- Reporting tools allow adhoc reporting for specific statistics relating to your heart failure service
e.g. males over 60 on a particular diuretic; breakdown of patients by ethnicity etc.
- Allows measurement of service performance and targets
- Fully auditable - traceability of all screens accessed and updated

According to the UK National Heart Failure Audit, fewer than 20% of heart failure services were able to meet the Coronary Heart Disease National Service Framework (CHD NFS) criteria (2000) for auditing the delivery of their service.

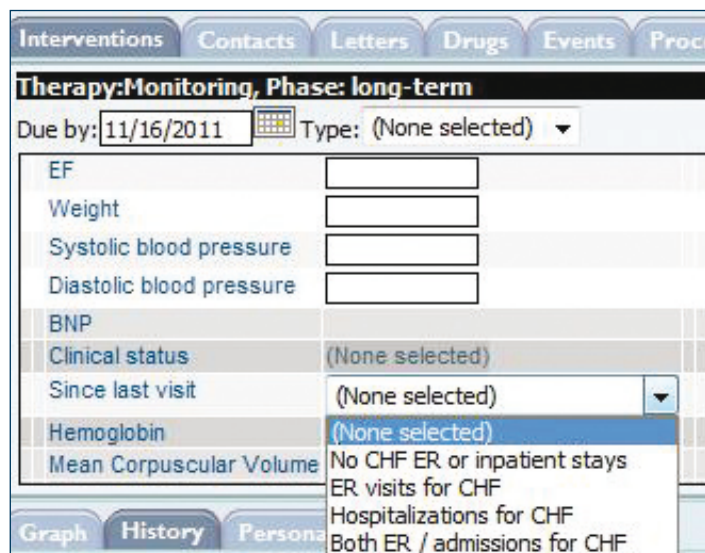
(Ref: Bridging the quality gap: Heart Failure, The Health Foundation, 2010, <http://www.health.org.uk/>)

USEFUL FEATURES OF DAWN HEART FAILURE SOFTWARE INCLUDE...

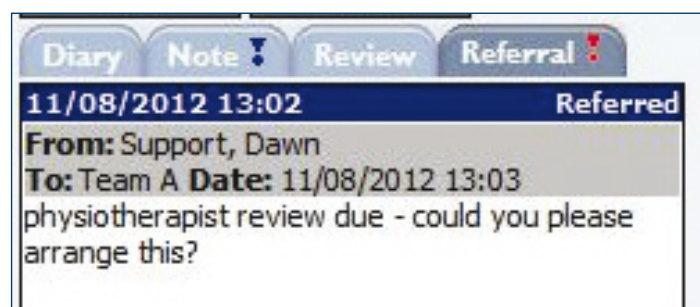


Drug	Start date	End date	Dose	Frequency	Interaction
Allopurinol (Zyloprim)	09/19/2012		200mg	od	Other Drugs
ASA	09/19/2012		81mg	od	Other Drugs
Spironolactone (Aldactone)	09/19/2012		25mg	od	Aldosterone Antagonists
Ramipril (Altace)	09/19/2012		2.5mg	bid	Ace-Inhibitors
Co Q 10	09/19/2012		over the counter		Other Drugs
Furosemide (Lasix)	09/19/2012		40mg	bid	Diuretics
Metoprolol (Lopressor)	09/03/2012		37.5mg	bid	Beta-Blockers
Clopidogrel (Plavix)	05/26/2012		75mg	od	Other Drugs

Document and store drugs and dosing regimes



Capture hospital admission details



Manage electronic referrals between team members and record in the patient record

Contact the 4S DAWN team today for an online demonstration and find out how DAWN HF Heart Failure Software can support your heart failure service.



Established in 1984, 4S DAWN Clinical Software are trusted by over 200 healthcare organisations across the world to deliver reliable, disease specific solutions that increase patient safety, facilitate productivity gains and improve quality of care.

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