

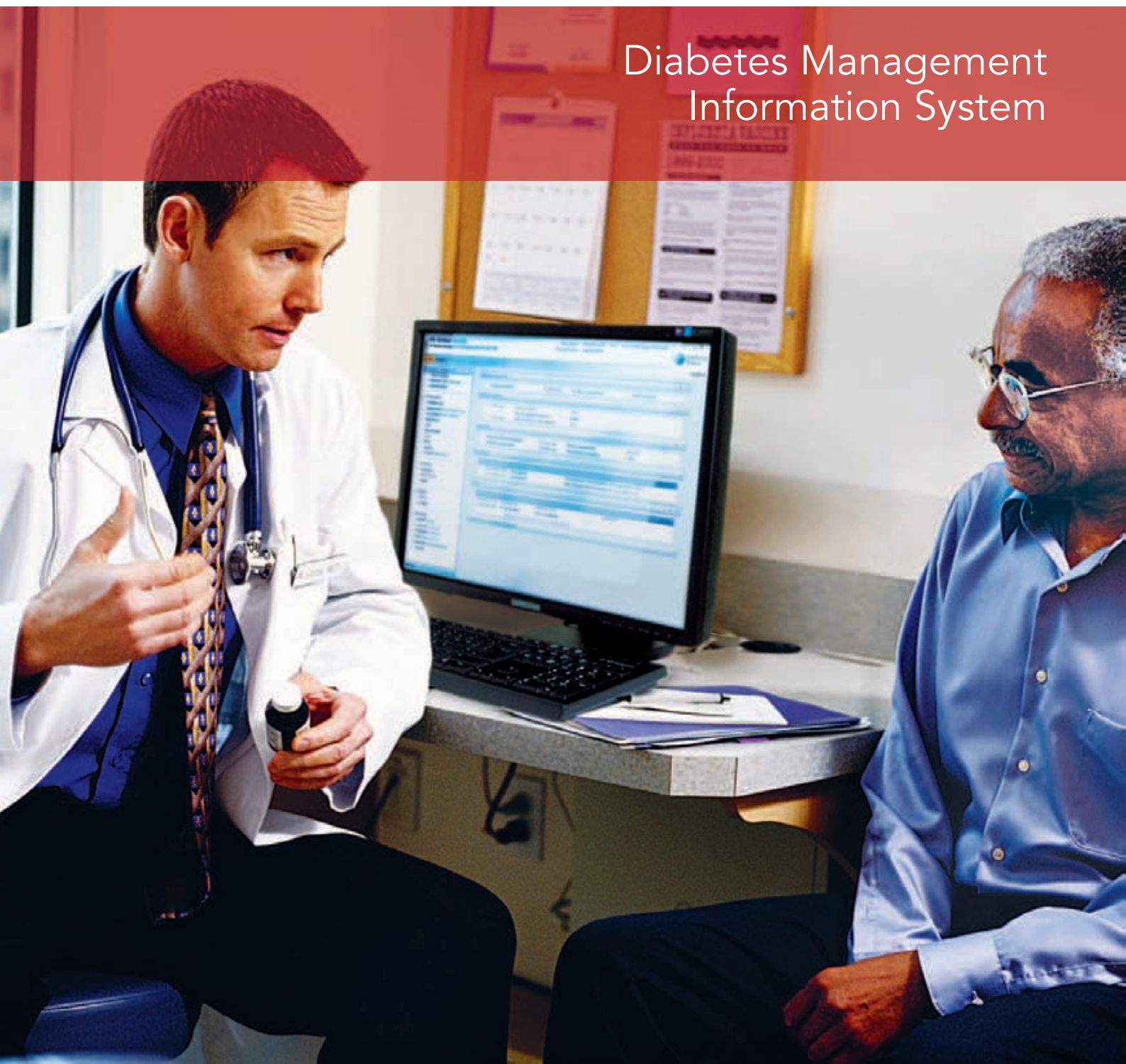


system C
connected care



medway
diabetes

Diabetes Management
Information System



The Medway Diabetes Management Information System

Medway Diabetes provides a single electronic solution for recording the health records of diabetes patients. It presents the user with instant access to a patient's complete medical history, tagged using timelines.

The software has been designed to be easy to use, while offering a high level of functionality. Embedded rules highlight all significant information, while the use of intuitive workflows help in the entering of data.

It collects information from all professional carers associated with the management of a diabetes patient – from physicians and specialist diabetes nurses, to retinal screeners, podiatrists and dieticians.

It uses multi-disciplinary workflows to both collect and display information about a patient's care. This provides an integrated care solution to meet the particular needs of each diabetes patient.

Product features include:

- A full patient record capable of replacing case notes
- Instant access to all patient information
- The presentation of complex clinical records using timelines
- The use of rules to highlight significant information
- Access provided to external guidelines and protocols
- Intuitive workflow-based data entry
- Integrated task management to organise clinical workload
- Automated production of documentation and reports
- Scalable, easily deployed software, with a design that is SNOMED, HL7 and NPFIT compatible

Supports multi-disciplinary team-working

- A single workflow can record multiple clinical assessments
- It can be shared between doctors, nurses, physios, midwives, dietitians, social workers and other staff
- It forms a shared assessment which travels with the patient
- The assessment moves from one user's task list to the next
- Each team member can review other team members' contributions
- Any team member can be responsible for producing and agreeing the final management plan with the patient

The screenshot displays the user interface for a patient named Mr Arthur Smith. The top header shows patient details: NHS Number: 777 444 4777, Hospital Number: 226666632, and Birth Date: 2/11/1938 (age 70 years). The interface includes a navigation menu on the left with categories like Patient Home Page, Summaries, Timelines, Graphs, and Journals. The main content area is divided into several sections: Clinical Outcomes (listing a renal transplant 7 months ago), Diabetes Status (showing Type 1 diabetes diagnosed in 1986), Warnings (highlighting high alcohol consumption and high blood pressure), Messages (with a table of recent messages), Tasks (with a table of tasks including a follow-up by a GP and a referral to a dietitian), and Workflows in Progress (0 items).

Date	Assigned to	Plan	Due date	Recent events
22/5/2009 10:58	(unassigned)	Follow up by GP	22/6/2009	
1/11/2008 17:53	Dr SE Annesley	Refer to Dietitian		Assigned by Rob Hardisty (System Administrator)

Uses workflows to capture information

The Medway Diabetes software uses workflows to capture information. These workflows allow for the speedy entry of data as well as ensuring that all the data collected on each patient is complete. They are designed to replace written records.

Workflows support a wide range of clinical data entry and review tasks. They:

- Organise and present complex clinical processes
- Group related tasks into a logical sequence
- Manage, assign, track and audit clinical processes
- Allow both viewing and updating of the records
- Add context to produce a structured clinical record
- Validate both individual data items and the whole record

Workflow benefits:

- They are fast to use
- They are designed to replace written records
- They ensure completeness and ownership of data

The screenshot displays the Medway Diabetes software interface for a patient named Mr Arthur Smith. The interface is divided into several sections:

- Header:** Patient name (Mr Arthur Smith), address (19 Masters Road, West Bridgford, NOTTS, NG2 7PP), NHS Number (777 444 4777), Hospital Number (226666622), and Birth Date (2/11/1938, age 70 years).
- Navigation:** Home, Patient, Workflows, Research, Admin, Help.
- Left Panel (Diabetes Assessment):**
 - Diabetes Assessment
 - Diabetes Record (1986)
 - Diabetes Assessment (Hospital review: 22/5/2009 10:58)
 - Administration
 - Health Issues
 - Surveillance and Lifestyle
 - Blood Glucose Monitoring
 - Diabetes Related Illness
 - Smoking and Alcohol
 - Lifestyle
 - Follow Up
 - Education
 - Diet
 - General Examination
 - Eyes
 - Feet
 - Neurological Examination
 - Investigations
 - Treatment
 - Comments and Sign Off
 - Plans and Referrals
 - Filing
 - Complete Workflow

- Main Content Area:**
- Last Assessment of Monitoring:** Diabetes Assessment (Hospital review: 22/5/2009 10:58).

2 weeks ago	Surveillance and Lifestyle reviewed by	Rob Hardisty
*	Urine glucose and ketone monitoring	Glucotiv
*	Urine testing results	Urine tests all negative
*	Blood glucose monitoring	Blood glucose meter
*	Meter type	Type A
*	Summary of blood testing results	Blood glucose mainly 8-11
*	Injection competency	Needs Supervision
- Clinician Assessing Surveillance and Lifestyle:** A summary of the most recent information about monitoring will be shown above. A new updated assessment may be recorded below.

Surveillance and Lifestyle reviewed by	Hardisty, Rob (System Administrator)
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- Urine Tests:**

Urine glucose and ketone monitoring	Glucotiv
Urine testing results	Urine tests all negative
- Competency:**

Injection competency	Able
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- Bottom Section (Form):**
- This Assessment:**

Type of assessment	Hospital review
Type of clinic	Diabetes Centre
Hospital or location	Medway Signa General
- Optional Additional Information:**

Purpose of assessment	Medication advice
Purpose of assessment	
Assessment requested by	

Mr Arthur Smith
19 Masters Road, West Bridgford, NOTTS, NG2 7WP

Diabetes Observations and Results Summary (updated 23 June 2010)

Glucose Profile

Assessment	S Breakfast	A Breakfast	S Lunch	A Lunch	S Tea	A Tea	S Bed	Other
22/02/09	4.2	5.0	4.0	5.4	4.2	4.2	7.7	

Insulin

Review	Insulin	S Breakfast	S Lunch	S Tea	S Bed	Other
22/02/09	Humulin M3	2			2	

Diabetes Investigations

Review	HbA1c	Blood Glucose	U Urea	U Creatinine	Serum Cholesterol	Chol	Triglycerides	HDL	LDL
22/02/09	7.3	4.4			None	55	4	1.9	1.22

Clinical summaries

These are predefined selections of notes which summarise a particular clinical topic, such as problems or birth details

- Can be rule-based to only show significant clinical data...
- ...Or list-based to show all clinical data
- Automatically find the most recent notes
- Can track changing data eg initial care plan, latest care plan, abnormal results
- May group similar topics into more complex summaries
- May be browsed by expanding or contracting sections
- Can be used to show where data hasn't yet been recorded
- Content and rules can be defined by users

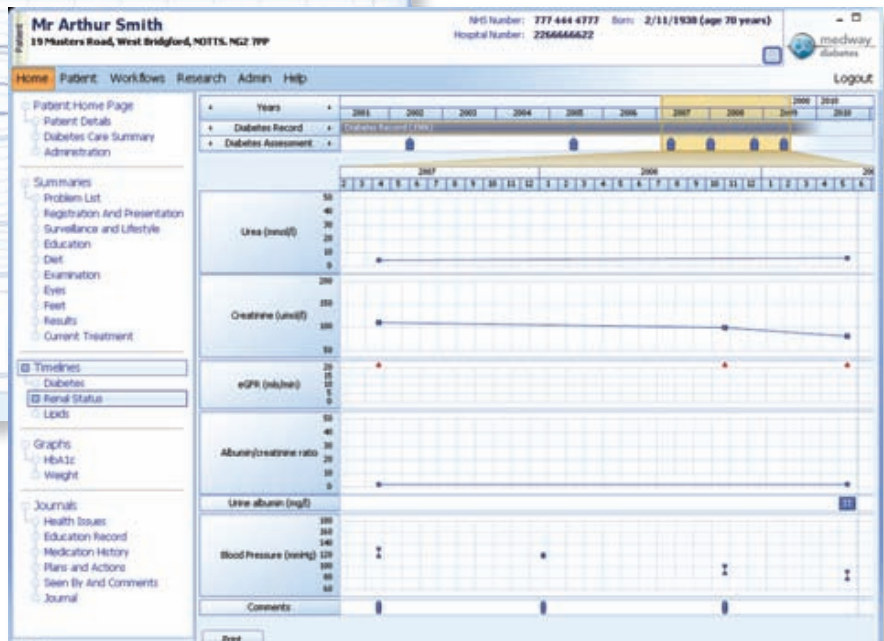
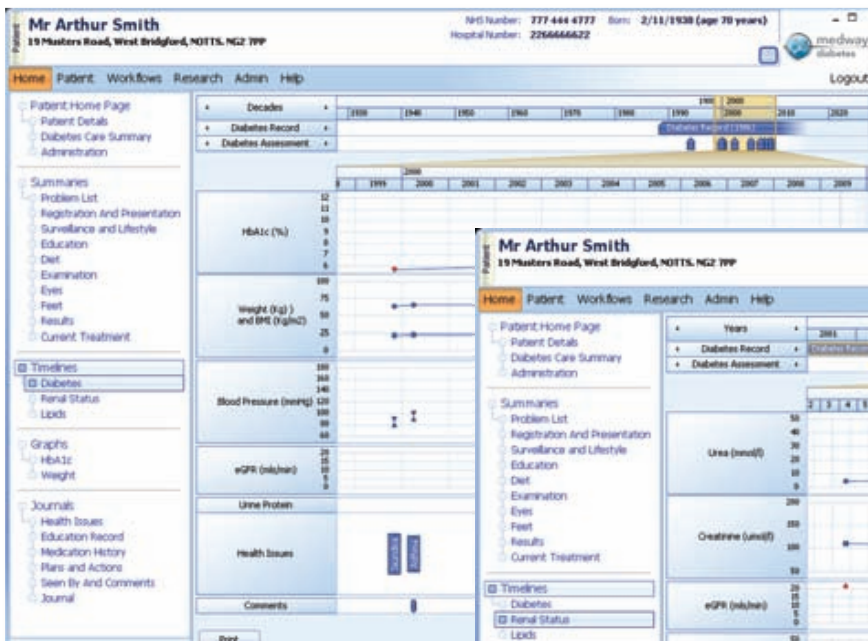
The example above shows a topic-based summary of investigations taken over several visits. These large summaries can be scrolled and sections may be closed if required.

Journal views

Notes can contain any kind of data. All documents produced by the system are stored in notes for easy retrieval. Notes can also contain:

- X-rays
- Images
- Drawings
- PDF files
- Word documents
- ECG traces

An icon by the note shows the type of data it contains.



Diabetes timelines

The timeline finds the diabetes-related events in the patient record and displays a chart to summarise the patient's recent progress.

The timeline allows users to:

- Slide the cursor to move through time
- Graph or plot data
- Show health issues as they arise

Renal timelines

The timeline finds the diabetes-related events in the patient record and displays a chart to summarise the patient's recent progress.

Users can:

- define as many timelines as they wish. Each timeline can focus on a particular aspect of patient monitoring.
- Large timelines simply scroll vertically
- Tooltips display who entered each reading and when they did it

reassurance everyday

History

National and international healthcare IT programmes are increasingly moving towards centralised healthcare record systems with electronic patient records, primary care professionals linking in from the community, remote access for expert referral and point of care access to information.

Medway Diabetes is one of the latest products in our software range, designed to be flexible and configurable to meet the varying demands around the world. It has also been designed to fully comply with the diabetes system requirements of the National Programme for IT in England.

System C

We are the UK's leading health and social care solutions company. Established in 1983, we specialise in the provision of:

- Robust, modern IT solutions for health and social care providers
- Specialist deployment and support services for our own, and third party, systems
- Innovative healthcare improvement consultancy

Our long heritage within the health and social care sector affords us a broad knowledge and deep insight into the needs of our customers and the unique challenges they face. This, coupled with our extensive experience, proven track-record, pragmatic approach and skilled staff, allows us to fully support our customers in their aim to improve care.



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Our Solutions

System C provides a range of health and social care IT solutions which are proven, robust and easy to use. Our products are installed across the British Isles in a number of NHS Trusts and social services organisations, as well as some of the country's most renowned private sector treatment centres. Our product range, based on the very latest Microsoft technologies, includes:

- Advanced patient management, electronic record, clinical and departmental systems designed to meet the needs of public and private care providers, across all care settings
- Business intelligence, data warehouse, reporting and clinical dashboard solutions, tailored specifically for healthcare providers
- Social care for adult and children's services and single assessment process (SAP) applications, across all care settings

Our Services

System C has one of the UK's largest dedicated teams of health and social care IT domain experts, which numbers more than 200 professionals. Our staff have, on average, 15 years of health and/ or social care experience. Many have clinical backgrounds, whilst others have operational experience. All are committed professionals, with the skills, knowledge and attitude to support our customers in meeting their objectives effectively and efficiently. This team provides a range of services, including: system configuration and training; technical services such as data cleansing, data migration, interfacing and systems integration; and deployment services ranging from programme management to go-live floorwalking. Their knowledge and skills have helped more than 180 trusts, hospitals and other providers successfully implement information management systems. Our consulting business is a dedicated healthcare consultancy which focuses on the design of innovative, safe, 'future-state' healthcare services that are accessible, equitable, efficient and provide high quality of care for patients.

