

Maternity

Complete, clinically-focused maternal,
fetal and newborn care



System C is part of

Modern and relevant – helping you go paperless

A woman's obstetric journey is both complex and remarkable, as is the care provided to her throughout this life-changing experience.

Our Maternity system supports this complexity with a proven, clinically-rich, easy-to-use solution designed to capture a complete record of maternal, fetal and newborn care.





A comprehensive clinical record

Our specialist Maternity system provides a complete solution to documenting a woman's obstetric journey, from early pregnancy, the first booking visit, antenatal care and fetal medicine, through to all aspects of labour and delivery management, postnatal care and discharge information. The system also provides comprehensive support for recording newborn postnatal care up until final community discharge.

Information is collected at the point of care, in real-time, in a structured, browsable electronic format. Workflows reflect clinical practice and are quick and easy to use. This enables midwives, doctors and other health care professionals to record, report and audit on all aspects of midwifery and consultant care, including specialities such as fetal medicine, high dependency care, anaesthetics and theatre procedures care.

Intelligent capture of clinical information, including risk assessments, alerts and Modified Early Warning Score (MEWS) scoring

The system has been designed to support clinicians by providing access to the information they need, when they need it, in a user-friendly and pertinent format.

Features include: summary views of key data; automatic charting of results, observations and partogram data; interactive timelines; dynamically revealed management pages for high risk pregnancies; localised MEWS scoring; and an extensive range of clinical alerts.

Fetal medicine through to newborn care

Specialist ultrasound and fetal assessment functionality allows clinicians to record detailed observations within the system, from early pregnancy viability scans and fetal screening through to intrapartum monitoring. Timeline views and development charts are automatically populated and present complex data clearly and simply.

Following birth, important fetal data is available automatically within the baby's care record, including paediatric alerts derived from relevant maternal data. From here, clinicians can record detailed postnatal care, including examinations, investigations, feeding and screening information.

Recording care beyond the hospital

Total continuity of care across settings beyond the hospital and out into the community is supported. Robust solutions are available to support community users to record the care they provide without requiring connectivity to the main system. Information recorded offline is securely transmitted to the main system and available as part of the patient record, not just as a static document, but for viewing, acting and reporting on.

Information reporting

The system offers flexibility in terms of reporting and business intelligence options:

- In-built reporting tools allow Trusts to extract raw data for further analysis
- A specialist business intelligence suite for maternity departments, Maternity Business Intelligence (MBI), is also available. This takes reporting to the next level, providing simple yet powerful tools for more complex reporting and analysis. MBI also takes care of the entire end-to-end reporting process for the Maternity Services Data Set (MSDS), including data validation prior to submissions.

Interfacing and integration with other specialist systems

Reducing stillbirth: Interface with Gestation Related Optimal Weight (GROW) software

We are the first EPR supplier to gain accreditation from the Perinatal Institute for the integration of customised growth charts within Maternity.

GROW charts are now available to all Maternity users signed up to the PI's Growth Assessment Protocol (GAP) programme as an integral part of the software. This will allow midwives or obstetricians assessing fetal growth to generate customised growth charts from within Maternity as part of a streamlined workflow.



Enables a personalised approach to maternity care

Features

Data capture for the complete timeline of care:

Fully-inclusive solution, which captures and records information for women antenatally and postnatally, as well as during the intrapartum period.

Rules-based risk assessment throughout pregnancy, including:

- Additional management steps for high-risk pregnancies, e.g. diabetes, female genital mutilation (FGM), thrombosis, social and mental health concerns, as well as pertinent factors from previous pregnancies
- Localised MEWS scoring, including instantaneous, locally-configurable, colour-coded warnings for out-of-range observations
- A comprehensive range of clinical alerts, including paediatric and safeguarding

Woman/baby-centric information recording:

Data can be recorded in a hospital or remotely in a community setting.

'Do once and share' data entry:

Where applicable, information is entered once only and shared across the mother's record and also used within her subsequent baby's (or babies') records.

Fetal medicine and newborn care:

Comprehensive capture of antenatal fetal assessments and monitoring during labour and delivery, through to postnatal care for babies, including blood spot, hearing and Newborn Infant Physical Examinations (NIPE) screening.

Maternity includes a NIPE chalkboard that displays all outstanding NIPE assessments and an indicator of their proximity to breaching the 72-hour limit.

myMaternityCare ePHR:

Our PHR app brings key aspects of a woman's maternity care record straight to their mobile device, replacing cumbersome paper records. Secure validation and log on processes allow authorised maternity service users to access clinically significant data recorded during their pregnancy journey.

As no confidential data can be accessed, myMaternityCare is suitable for personal use by the woman, or to provide clinical assessment data to other healthcare professionals where necessary.



The benefits of Maternity

Ease of use and minimal training:

The solution provides a common user interface across all areas of care. Context-sensitive help and access to external guidelines and resources are available throughout the system.

Flexible, detailed reporting:

Including support for statutory, national and local returns, such as the MSDS, Commissioning Data Sets (CDS) and Royal College of Obstetricians and Gynaecologists (RCOG) audits.

Maternity Payment Tariffs:

Collection, analysis and reporting on all the data required, supporting the correct tariff identification and allocation.

PDS birth notifications: Fully compliant with ISB 1555, enabling Personal Demographics Service

(PDS) birth notification and obtaining of NHS number for the newborn with minimal user intervention.

Locally configurable: Easy-to-use tools are built-in, allowing customers to locally configure aspects of the existing workflows and data items.

Support for ensuring data quality:

The system is designed to collect data as a by-product of normal operational use. Workflows are designed to ensure that key details are not missed.

Comprehensive clinical documentation:

Detailed clinical and discharge documentation, relevant to the stage of pregnancy, is included as standard.

Advanced security and confidentiality built-in:

including role-based access to patient data; locally-configurable password management; database security; and comprehensive audit trail functionality.

Safeguarding:

Maternity supports safeguarding workflows, communication and documentation including the creation of plans that can be shared. The child protection information sharing project is being implemented using CareFlow EPR to share the child protection flag with Maternity, enhancing the way child protection information is shared at a national level.

Maternity Home Page

The screenshot displays the Maternity Home Page for a patient named Mrs June A Whittington. The page is divided into several sections:

- Patient Banner:** Shows the patient's name, hospital number (JW01010101), NHS number (777 777 7777), date of birth (22/6/1980), and NHS status (NHS patient).
- Alerts:** A red banner indicates a "Moderately severe allergy".
- Pregnancy Summary:** A table showing pregnancy details such as Gravidity (3), Parity (2+2), and Pregnancy stage (Antenatal).
- Maternal warnings:** A list of warnings including "Hearing difficulty", "Mental health concerns", and "Previous Caesarean section".
- Abnormal results alert:** A red banner indicating "Rhesus negative", "Rubella antibody - non immune", and "Chlamydia screen positive".
- Plans:** A section showing active plans and referrals, such as "Check folic acid dose =5mg" and "Offer testing for gestational diabetes".
- Messages:** A section for messages, with one message dated 22/6/2015 15:00.

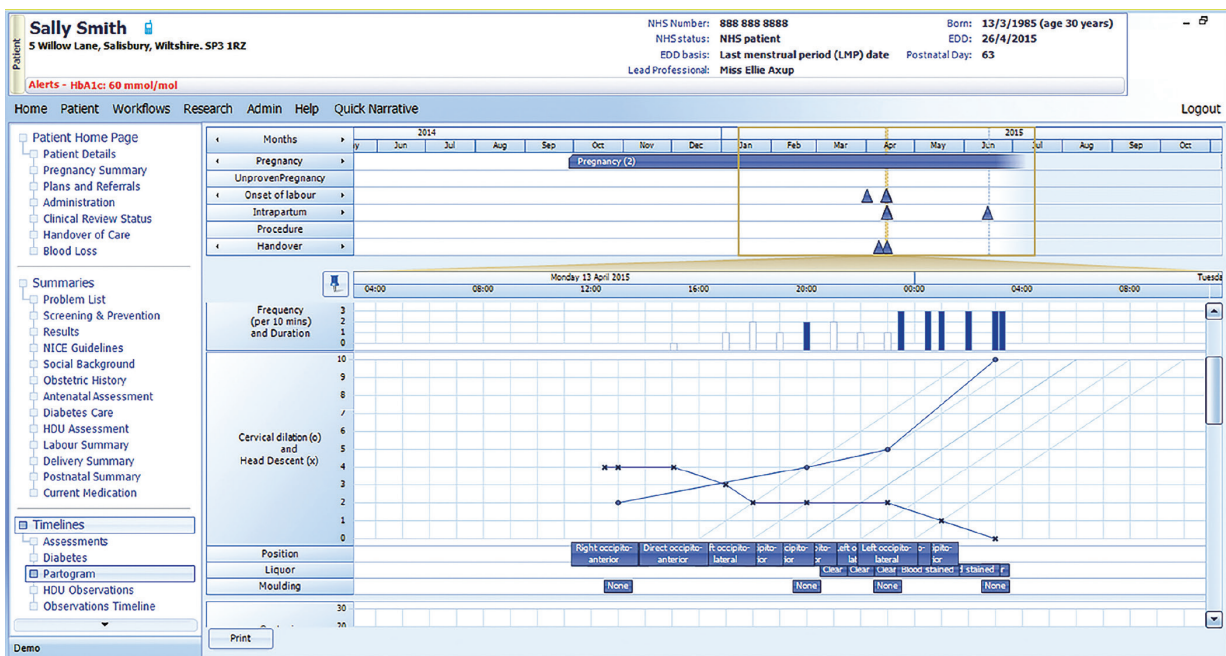
Callout boxes highlight key features:

- Alert information:** Points to the patient banner.
- Patient Banner showing Estimated Date of Delivery (EDD) and lead professional details, as well as ID information:** Points to the patient banner.
- Menu links to plans and referrals; summaries of care; timelines, graphs and journals for all stages of the woman's obstetric pathway:** Points to the left-hand navigation menu.
- The current pregnancy timeline:** Points to the pregnancy summary table.
- Pregnancy Summary details:** Points to the pregnancy summary table.
- Abnormal results alert:** Points to the red banner.
- Maternal warnings clearly shown on the patient's home page:** Points to the maternal warnings section.
- A summary of active plans and referrals:** Points to the plans section.
- Messaging facility to individuals or groups:** Points to the messages section.

Available as a standalone solution or as a module of the wider CareFlow EPR suite

Clinical safety, operational efficiency, patient care and experience, financial savings – Maternity can deliver a range of benefits including:

- Supports the end-to-end maternity journey which is clinically focused, intuitive with inbuilt logic and yet user friendly
- Instant access to critical information at the point of care
- Improved delivery of patient care by use of patient alerts, warnings and messaging
- Support for national and local performance management data collections, including the MSDS and Maternity Payment Tariffs
- Quick and effective deployment with minimal reliance on Trust staff to be released for configuration
- Simple workflow-based design, which can be configured to support local working practices
- Enables paperlite processes
- Active user group ensures system is in line with current clinical practice and standards
- Assurance of the highest standards of UK-based service and support work



Why choose Maternity?

Tried and tested system in use in more than 21 NHS maternity units

- Across the length and breadth of the British Isles from NHS Ayrshire & Arran to Poole Hospital NHS Foundation Trust
- In a range of care situations from large, urban providers, such as Nottingham University Hospitals NHS Trust with over 10,500 deliveries per annum
 - to smaller units, such as the Isle of Man Government
 - and those serving rural and dispersed populations

Quick implementation

United Lincolnshire Hospitals NHS Trust implemented Maternity within nine months across the county of Lincolnshire. It is being used by midwives working in the community as well as those based at one of the country's largest acute Trusts. The system captures a complete record of maternal, fetal and newborn care for over 5,000 babies that are born annually in the second largest county in England.

“ *The quality and quantity of the data we've been able to submit as part of the mandatory MSDS has increased significantly, with a number of benefits including improved processes in terms of providing data for Payment by Results. We have been consistently scoring high, and recently hit 10/10 for the Clinical Negligence Scheme for Trusts assessment criteria.*

Michael Humber,
Associate Director of ICT/CIO,
ULH NHS Trust



Becoming paperless

Midwives and staff at Southport and Ormskirk Hospitals NHS Trust are using Maternity across the Trust and in the community. This allows community midwives to collect and update data with both systems contributing to a single, integrated maternity record. Community midwives have information they didn't previously have at the point of care so they can give immediate feedback rather than wait until they are back at the hospital.

“ *If they see a woman out in the community, they're typing straight into her record. If they then refer the woman to the hospital, it's already there in her records when she arrives at the hospital, because they've been doing it live.*

Janet Calland,
Matron for Maternity Services at Southport
and Ormskirk Hospital NHS Trust



Data and reporting

University Hospitals Bristol NHS Foundation Trust went live with Maternity in 2012. The Trust has found the report designer function particularly helpful, enabling a range of reports that give clinical and admin users the information they need.

“ *We have recently created a 'discharge report' to improve the communication from hospital to community, so community midwives have a better view of their daily discharges and replace the paper process. The system has enabled us to evaluate workload, workforce and quality of the care we give and we are able to submit data for Payment by Results and MSDS directly from the system.”*

Karen Goyder,
Informatics Midwife, University Hospitals
Bristol NHS Foundation Trust



Maternity BI (MBI)

- Offers users a wide range of options for integrating, storing, analysing and presenting the full range of maternity system data on a dedicated business intelligence platform
- Comes with dashboards relating to RCOG scorecard indicators and Caesarean section data as standard
- Provides the tools to create tailored analytics and dashboards to enable better use and analysis of maternity data
- Takes care of the end-to-end reporting process for MSDS submissions

Colchester Hospital University NHS Foundation Trust

Scores a first with business intelligence suite for maternity departments

Maternity BI (MBI) is designed specifically to help maternity services in the national effort to drive up clinical quality and improve patient safety through the better use of data.

Colchester Hospital University NHS Foundation Trust, which is responsible for delivering around 3,700 babies a year from Colchester General Hospital and community facilities, scored a double first in its deployment of MBI.

It was the first to go live with the software. It also used MBI to become one of the first sites nationally to submit successfully the MSDS, mandated the Health and Social Care Information Centre.

System C is a British company and the UK's leading health and social care IT supplier, providing solutions to integrate services across whole care communities.

Our product range includes:

- Electronic patient records (EPR)
- Immunisation and child health
- Social care for adults and children
- Shared records
- Population health
- Patient engagement

We are part of the System C & Graphnet Care Alliance, a strategic partnership making integrated health and social care a reality.

Together we are:

- ▶ A leading supplier in acute EPR with 28 NHS Trusts
- ▶ The no.1 supplier in immunisation & child health (our system is used to manage Covid and flu vaccination programmes for the whole of England)
- ▶ The largest provider of shared care records and population health management systems to care communities and ICSs with over 20 million patient records held
- ▶ A pioneer in electronic observations with over 40 Trusts using our system
- ▶ The UK's fastest growing supplier of social care and education management services



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