

# BadgerNet



Perinatal Care Record Services  
2019-20



# What is BadgerNet?

The BadgerNet Platform, created and managed by Clevermed Ltd, is a patient data management service supporting the whole of the perinatal and paediatric pathway including maternity, neonatal, transport, and paediatric care. As a managed service, this is fully supported as a hosted solution with regular updates to ensure the software continues to evolve to meet customer requirements.

Our users include not only clinicians, but also those involved in improving care at a regional, network or hospital level.



# The BadgerNet Service

BadgerNet is more than just an Electronic Medical Record - it's a service.

The BadgerNet service ensures that the system continues to evolve for all our users and data is stored securely and safely at all times. Key benefits of having software delivered as a service include



## Onsite clinical specialists:

Clinical specialists from Clevermed support units even after the go-live period. For BadgerNet Maternity and BadgerNet Neonatal EPR, this includes site visits on a regular basis to ensure the system continues to support local requirements.



## Regular updates:

The system is regularly updated in response to changes in technology, innovation, customer suggestion, or regulatory requirements. All changes are included as part of the standard BadgerNet service charges.



## Hosted infrastructure:

BadgerNet can be hosted over secure national networks. This not only provides for a stable platform, but also the ability to create regional or national records for women and babies if required.



## Fully supported:

BadgerNet is supported 24/7. Specialists are available in the company to help with all clinical, technical, or reporting requests and queries.



# The BadgerNet Spine

## A regional solution to providing care.

The BadgerNet Spine allows pregnancy, newborn, neonatal, and paediatric information to be shared between all those involved in the care of women and children.

### Single Care Record across Maternity, Neonatal, and Paediatric care:

As a solution which can be nationally hosted, a care record is made available at the point of care, wherever care is delivered. In the case of maternity, units can agree to write to a single pregnancy record whether a woman attends a clinic in the community, has a hospital visit, or even attends a separate hospital using BadgerNet.

Should a baby enter neonatal care, this will link with the maternity record, allowing data to move seamlessly between neonatal and maternity. Like maternity, all those involved in the care of the baby have access to neonatal care provided in any unit.

Likewise, BadgerNet Paediatric links with both neonatal and maternity, allowing clinicians to view the history babies admitted into PICU from NICU units or maternity care.

This means that the BadgerNet Platform fully

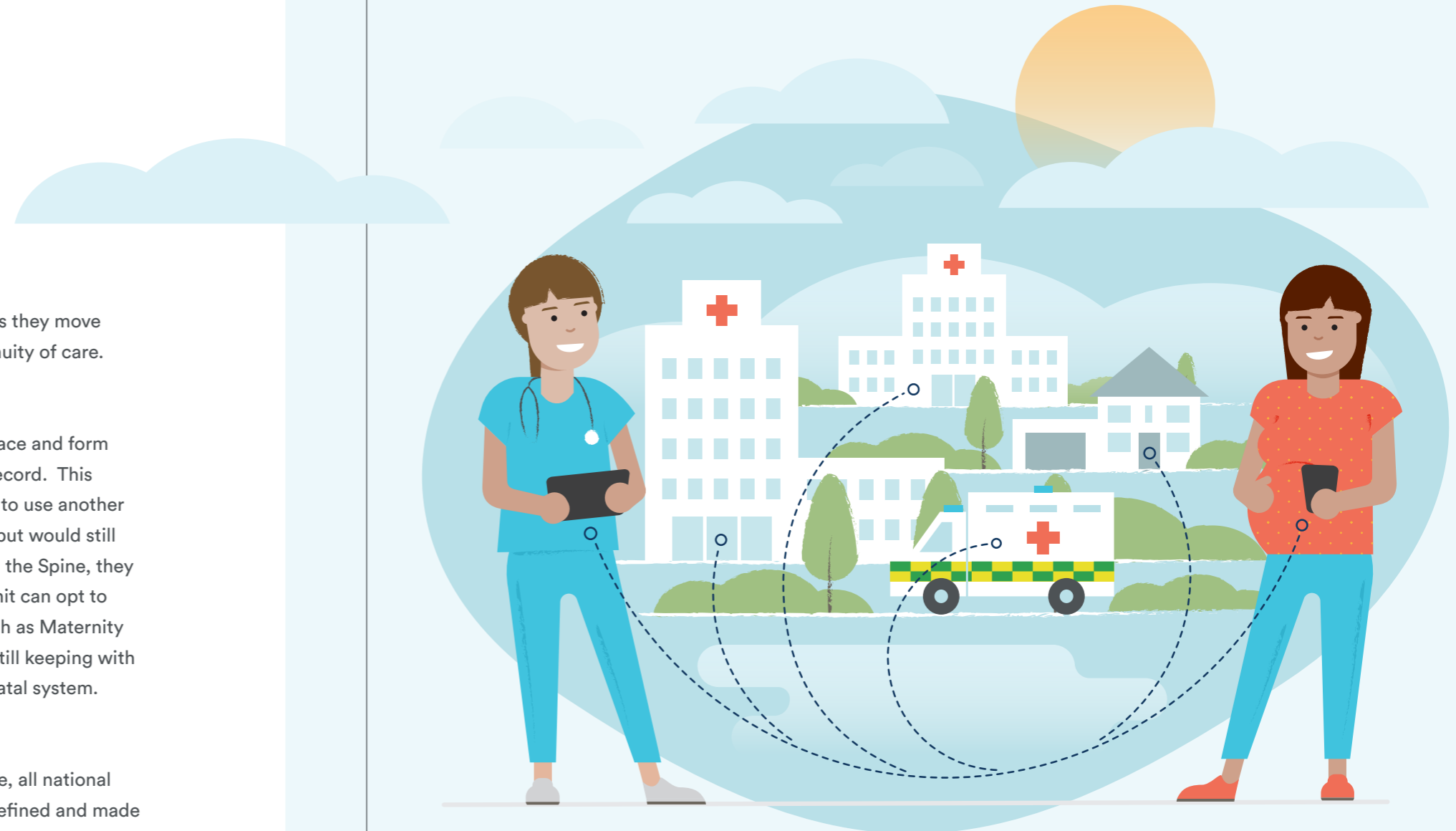
supports the patient journey as they move between units, creating continuity of care.

### Interfacing:

Third party systems can interface and form part of the BadgerNet Spine record. This means that if a unit would like to use another neonatal or maternity system but would still like to participate regionally in the Spine, they are able to do so. Equally, a unit can opt to use aspects of BadgerNet, such as Maternity Notes or the iPad apps while still keeping with their hospital maternity/ neonatal system.

### Reporting and audit:

As part of the BadgerNet Spine, all national and local items are carefully defined and made available as datasets for the purposes of local audit, research, or reporting following data protection agreements and permissions.



# BadgerNet Maternity

BadgerNet Maternity is designed as a full end-to-end maternity system.

It allows real-time recording of all events wherever they occur: in the hospital, community, or home. This includes both high risk and low risk pregnancy pathways. Based on a woman-centred care models, the BadgerNet Maternity system comes with a portal for women to view and access their own maternity records online.

## BadgerNet Maternity in the Unit

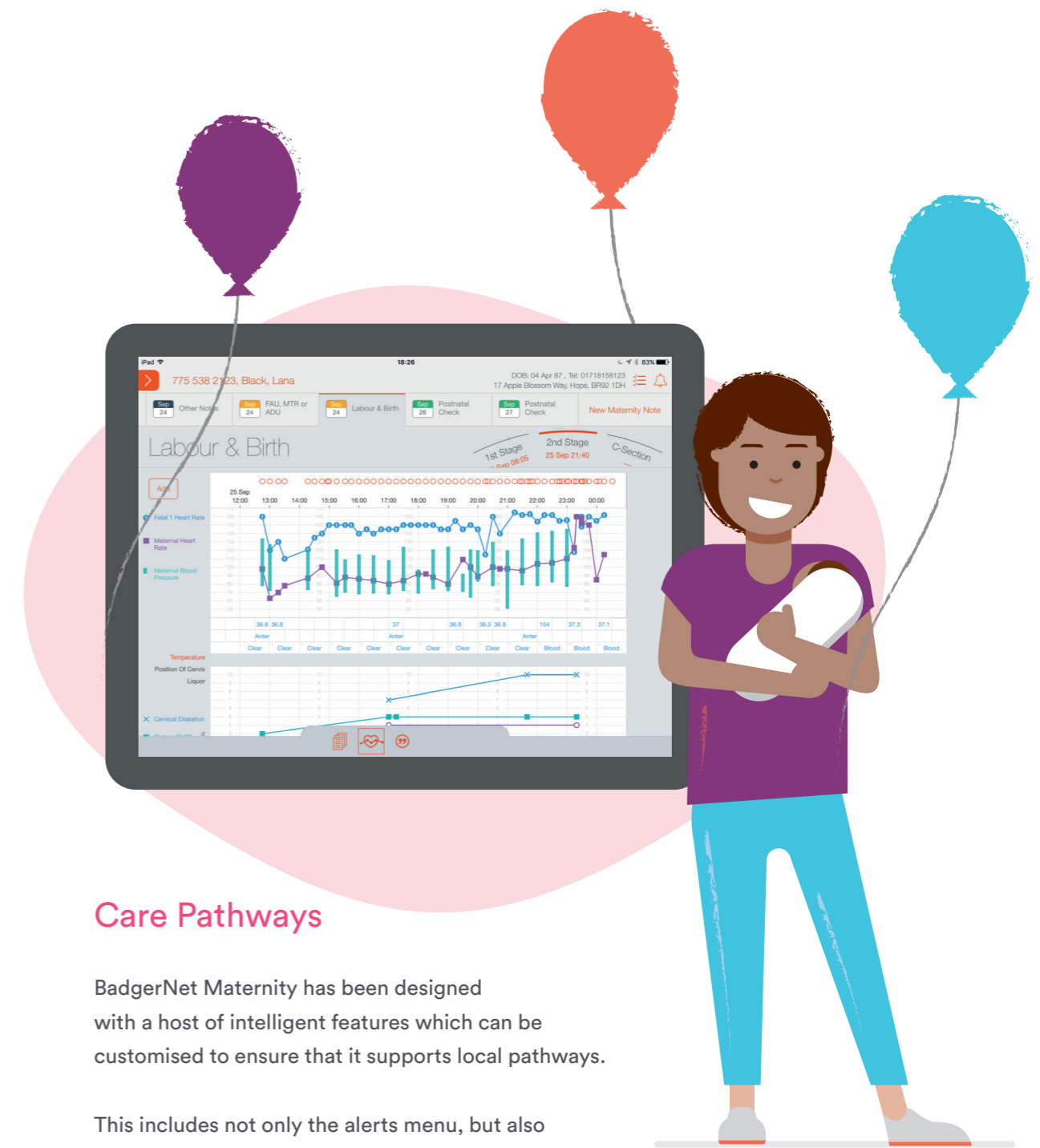
BadgerNet Maternity is able to record all aspects of care within a unit. This includes all antenatal, intrapartum, and postnatal events, full risk assessments, management plans, referrals, and all contacts.

All elements are regularly updated to be in line with latest recommendations, including national datasets and guidelines.

BadgerNet Maternity can interface to multiple systems including patient administration systems (PAS), PDS, pathology and laboratory systems, CTG monitors. It inherently links to BadgerNet Neonatal, pathology, laboratory, and CTG monitors.

## BadgerNet Maternity in the Community

With a dedicated iPad app as well as desktop client with the ability to go off-line, BadgerNet Maternity has been designed to allow ease of entry wherever care is provided in the community. By linking maternity care to the Maternity Notes Portal for women, midwives can still provide information to women and receive their feedback without having to also create paper notes. All information recorded in the community feeds the BadgerNet Maternity record, allowing users in the unit to have ready access to information.



## Care Pathways

BadgerNet Maternity has been designed with a host of intelligent features which can be customised to ensure that it supports local pathways.

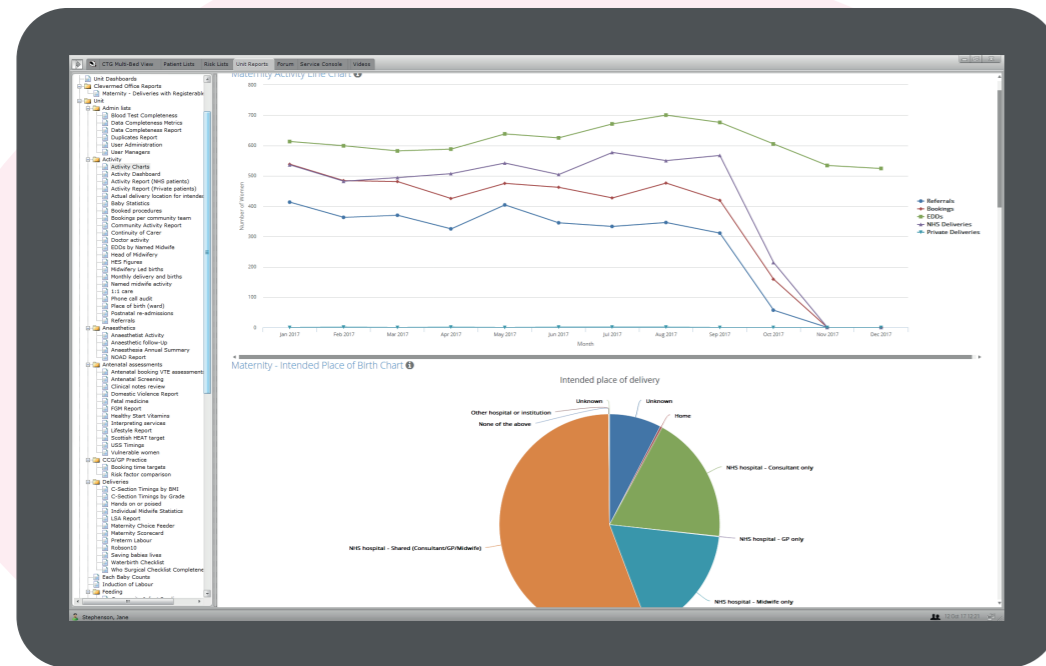
This includes not only the alerts menu, but also intelligent reminders, prompts, and observations which are dependent on what is known about the woman as well as her gestation or outcome. Prompts which support professional guidance and current national datasets are inbuilt into the system. All guidance is updated on a regular basis.

## Reporting

BadgerNet Maternity has a variety of flexible reporting tools. Whether a unit wants to run their own queries or use the inbuilt reporting functions, data is easily accessible.

All in built reports are complete with definitions and detailed documentation.

Monthly reporting releases ensure that reports are constantly added to and refined. Standard reports include all national activity, Payment by Results (PbR), as well as the production of the Maternity Secondary Uses Data Set.



## Single Care Record

BadgerNet Maternity, as a hosted solution, can provide a single pregnancy care record shared between all units using the system. This means that if a woman in the course of her pregnancy moves between units using BadgerNet, all units can view and contribute to that record.

BadgerNet Maternity records where events have occurred to ensure that a clear identification of data entry and responsibility is maintained. In addition, BadgerNet Maternity links with BadgerNet Neonatal. Any BadgerNet Maternity site can opt to share their data with any BadgerNet Neonatal site where one of their babies has been admitted.

## Women's Access

BadgerNet Maternity allows women to access their summary maternity data online. As a fully opt-in process, women can choose to see their pregnancy details on a dedicated Android app, iPhone app, or over a web browser.

In addition, women can contribute to their record, allowing feedback and birth plans to be fed directly back to the unit and kept in the maternity record. Reminders of appointments and visits can be sent directly to women, reducing missed appointments.



# BadgerNet Neonatal

BadgerNet Neonatal forms a single record of care for all babies within neonatal services.

Currently in use across the United Kingdom, BadgerNet forms part of a continuous care record for neonatal care. There are currently two versions of the BadgerNet Neonatal System: the Clinical Summary system and the full Electronic Patient Record (EPR).

## BadgerNet Neonatal - Summary System

The BadgerNet Neonatal Summary system allows for the daily recording of events within a neonatal unit, including statutory data collection and reporting. All national and international audit data sets can be made available and updated as needed. Units using the summary system are able to enter all essential clinical summary data but in most cases will support their data requirements with paper.

### Key Features include:

- Reporting and daily care level calculations
- Data quality prompts
- Discharge letter generation from information completed during stay
- Intelligent reminders
- Native iPad app for data entry and ward-round reviews
- Baby Diary for family and friends

## BadgerNet Neonatal Summary iPad App

As part of the managed service, Clevermed have developed a native iPad app. This allows access to summary data within a baby's care record. It has full online and offline capability, ensuring that data can be viewed or entered in any location, even if hospital Wi-Fi is inaccessible.

The BadgerNet iPad app is ideal for updating key events and reviewing data at cot side. It will also allow users to update their Baby Diary entries.

Follow-up nurses can take the BadgerNet iPad offline into the community to provide secure patient data collection and record viewing. All changes made whilst offline are seamlessly synchronised back into the national BadgerNet care record once the iPad detects the network again in the hospital.

A more detailed version of the iPad app is available for BadgerNet Neonatal EPR users.

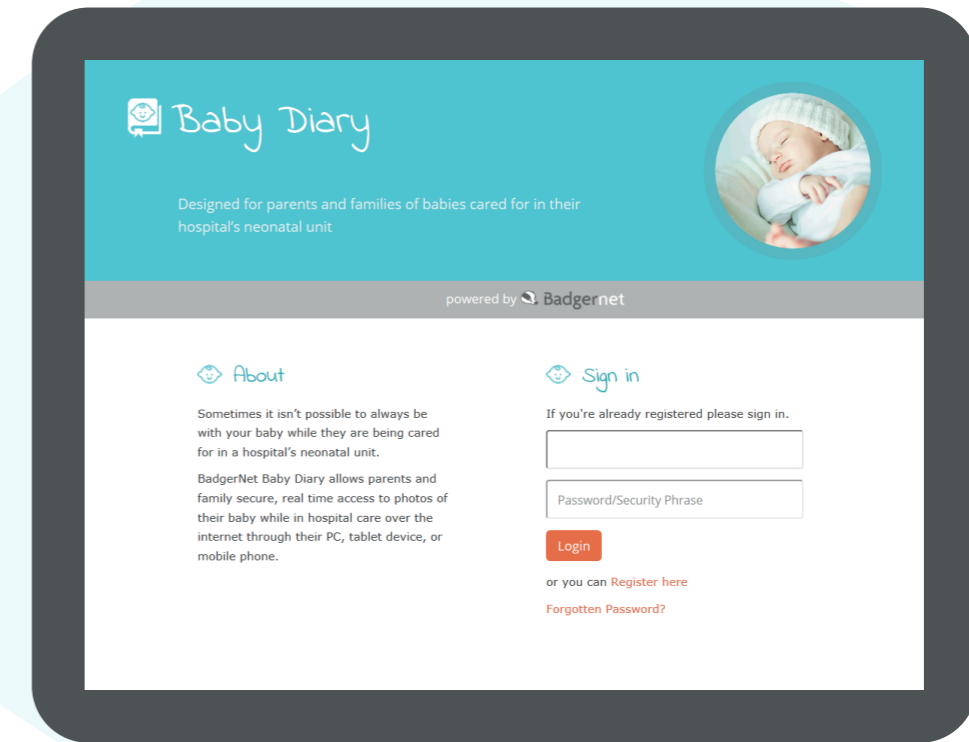
## Reporting and Daily Care Level Calculations

BadgerNet Neonatal comes with a host of standard unit, network, and national reporting features. These are updated on a regular basis.

Reports such as the unit daily update are an easy way to ensure that the daily data of each baby can be viewed and any missing data is completed.

Each report is provided with a detailed definition, allowing for quick, real-time analysis of the information entered.

Users are prompted to ensure that data is completed and any key fields or forms which are missed are easily identifiable.



## Baby Diary

BadgerNet Baby Diary has been designed to provide parents and family secure, real time access to photos of their baby during their baby's stay in a neonatal unit. This is an opt-in service provided by Clevermed for parents with babies in a neonatal unit using the BadgerNet Platform. The content of the Baby Diary is generated in real time from content, controlled by staff held within the baby's neonatal record within BadgerNet.

Staff can create entries with friendly comments for the diary and add photos. The parent is able to access both the daily entries as well as a gallery of all of the photos entered via a web browser or their mobile phone.

Clevermed have released a dedicated iPhone App for parents to download from the Apple iTunes store for free. An equivalent Android App is also available.



# BadgerNet Neonatal- EPR

BadgerNet Neonatal Electronic Patient Record (EPR) is designed to support full paperless working within a neonatal unit.

BadgerNet EPR allows units real time, contemporaneous recording of all daily events. All information entered during a baby's stay is viewable, allowing for greater data quality and ease of entry while still participating in networked based care across a region.

In addition to all of the features described within the summary version, the EPR version also contains elements such as:

- Ad hoc event forms for all events within the unit
- Fluids charting and full line management
- Results interfaces and charting
- Interfaces to patient monitors with real time trend data recording
- Nurse charting
- Cot management
- Clinical and nurse handover documentation
- Parent reports included as part of Baby Diary
- Detailed iPad app with interactive white boards

## Events during Stay

One of the key differences between the neonatal summary system and EPR is the ability for units to record all events during stay electronically, allowing for a paper-light or paperless unit. An interactive search menu allows users allows for easy navigation to all relevant events.

Common, important events such as infusions and lines have their own dedicated view for easy management. This includes a clear view of all active lines and infusion as well as intelligent prompts and reminders regarding their status.



## Interfaces and Charting

BadgerNet EPR allows information to be viewed clearly and easily with a variety of charts.

These include real time trend monitoring from cot side monitors, blood and pathology results, fluid charting, ventilator data, and centile charts supporting paperless working within the neonatal unit and reducing dual-data entry.

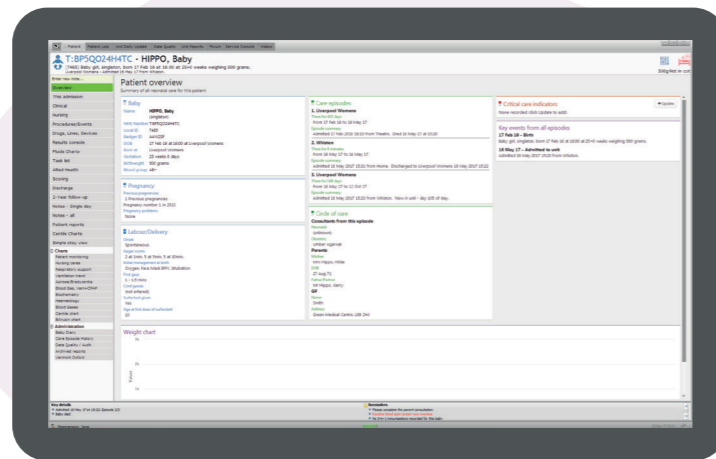
## Nursing Console

A detailed nursing console view is available within BadgerNet EPR. This includes an intelligent summary of care periods, prompts and reminders during the baby's stay in the unit, nursing care plans, and visits.

BadgerNet EPR fully supports neonatal nurses in the delivery of care. A site-specific care-plan data base is maintained by each site to allow them to tailor nursing care plans for to meet local requirements

## Clinical Documentation and Handover

BadgerNet Neonatal EPR allows a clear view of the clinical status of the baby as well as the ability to enter easy updates. A clinical review can be carried out at any time, either as part of routine ward rounds or as an ad-hoc event. In addition, a handover screen is also available within the EPR system, allowing users to have a view of all babies currently in the unit, their status, and basic care information.



## BadgerNet EPR iPad App

The BadgerNet Neonatal EPR iPad App has the same basic functionality as the summary system app plus a whole lot more.

Key features include:

- Native iPad viewing of full nurse charting and trend monitoring.
- Ability to enter all ad-hoc note events
- Interactive whiteboards: The neonatal EPR iPad app has a number of customisable whiteboards to allow a quick view of
- Ward review report with easy access to all patients within a ward or area of a unit

# BadgerNet PICU and HDU

BadgerNet PICU has been designed to record all events within a paediatric intensive care or high dependency unit.

With the ability to link to BadgerNet Neonatal and Maternity, BadgerNet PICU forms part of the single care record for babies and children. The BadgerNet Paediatric HDU module has been designed to provide summary care information for those children in a paediatric HDU ward focussed around PCCMDS.

Like BadgerNet Neonatal, BadgerNet PICU comes with a range of features to allow for contemporaneous recording of all events.

- Ad hoc event forms for all events within the unit
- Fluids charting and full line management
- Results interfaces and charting
- Interfaces to patient monitors with real time trend data recording
- Nurse charting
- Bed management
- Clinical and nurse based handover documentation
- Parent reports included as part of Baby Diary
- Detailed iPad app with interactive white boards

Although similar to neonatal, BadgerNet PICU focus on paediatric work flows, requirements, and statutory data collection including PICANet.



## Care Pathways

BadgerNet PICU supports care pathways for paediatric admissions, including emergency, surgical, and cardiac care.

Units using BadgerNet PICU will be able to access details of all neonatal admissions for babies which arrive from any neonatal unit in the country.

In addition, input from specialist teams and care plans are supported within the configuration.

## Trend Monitoring and Charting

BadgerNet PICU EPR comes with a variety of charts which include real time trend monitoring from cot side monitors, blood and pathology results, fluid charting, ventilator data, and centile charts supporting paperless working within the unit and reducing dual-data entry.

Trend monitoring is available for viewing on both the desktop and the BadgerNet PICU iPad app.

# BadgerNet Platform

The BadgerNet Platform is present in over 250 hospitals in the United Kingdom, New Zealand, and Australia, with the goal of supporting clinicians with intelligent solutions supporting specialised clinical workflows.



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