neXoprima

mcare

Ensuring Safety and
Precision in Maternity Care

advanced Labor Room
Information System

Overview

In the fast-paced and critical environment of maternity care, the need for precise, reliable and continuous monitoring is paramount.

Our Advanced Labor Room Information System is designed to meet these need by integrating state-of-the-art monitoring technologies with real-time data analytics and comprehensive surveillance capabilities.

mcare

Objective

The primary objective of our Advanced Labor Room Monitoring System is to enhance patient safety and improve the outcomes of childbirth.

Additionally, the system aims to streamline workflow efficiency, allowing healthcare providers to focus more on patient care rather than manual documentation task. Our system is designed not only to support medical team in their day-to-day operations but also to provide clinicians with robust data-driven insights for better decision-making and resource allocation.

Ultimately, our goal is to support healthcare facilities in offering the safest, most compassionate, and effective maternity care possible.

mcare

taking care of heart and souls that matter…

mCare

Advantages

Minimizing Labor Risk

mCare provide a continuous live CTG data charting and analysis with notification and alarm.

Easily Prioritize Patient Treatment

Bird's eye view of multiple patients' vital information from a single dashboard, thus make it easier to prioritize patient that need more attention.

Multiple CTG Vendor Support

nexoLink - NexoPrima integration IoT solution already tested with most CTG vendors / products.

Auto Archive / Historical Data

CTG and Patient data will be stored in a central server and can be easily access at any time.
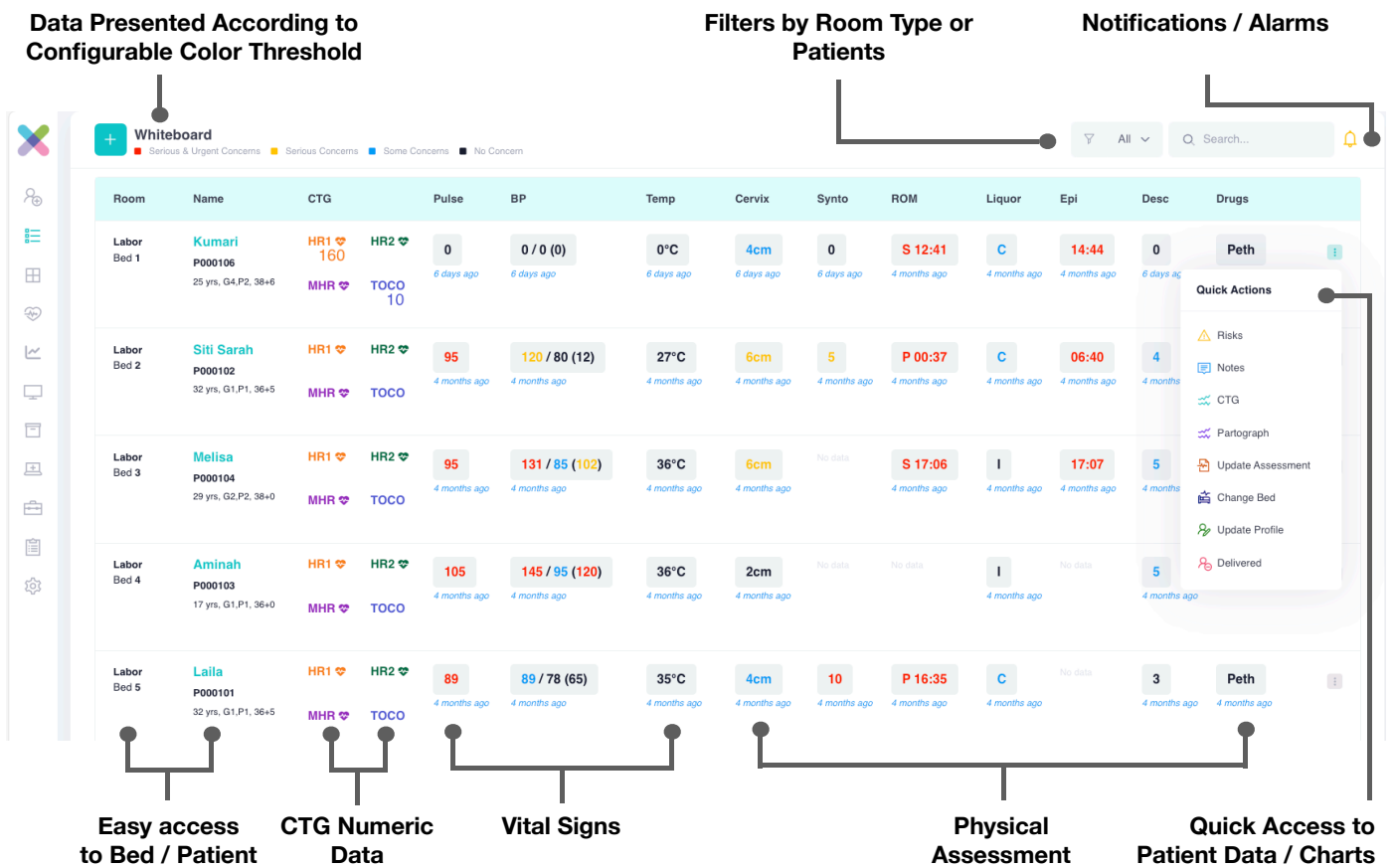
Remote Monitoring

mCare is a web based solution and a Mobile App.* version will ease monitoring anywhere in the hospital network or remotely*.

Assist Clinicians with Analytics

Real-time analytics and classification of CTG FHR data/chart such as acceleration, deceleration, contractions, baseline and variability of the FHR data based on FIGO rules.

Bird's Eye View

Data Presented According to Configurable Color Threshold

Filters by Room Type or Patients

Notifications / Alarms

Room	Name	CTG		Pulse	BP	Temp	Cervix	Synto	ROM	Liquor	Epi	Desc	Drugs
Labor Bed 1	Kumari P000106 25 yrs, G4,P2, 38+6	HR1 160 MHR	HR2 TOCO 10	0 6 days ago	0 / 0 (0) 6 days ago	0°C 6 days ago	4cm 6 days ago	0 6 days ago	S 12:41 4 months ago	C 4 months ago	14:44 4 months ago	0 6 days ago	Peth
Labor Bed 2	Siti Sarah P000102 32 yrs, G1,P1, 36+5	HR1 MHR	HR2 TOCO	95 4 months ago	120 / 80 (12) 4 months ago	27°C 4 months ago	6cm 4 months ago	5 4 months ago	P 00:37 4 months ago	C 4 months ago	06:40 4 months ago	4 4 months	
Labor Bed 3	Melisa P000104 29 yrs, G2,P2, 38+0	HR1 MHR	HR2 TOCO	95 4 months ago	131 / 85 (102) 4 months ago	36°C 4 months ago	6cm 4 months ago	No data	S 17:06 4 months ago	I 4 months ago	17:07 4 months ago	5 4 months	
Labor Bed 4	Aminah P000103 17 yrs, G1,P1, 36+0	HR1 MHR	HR2 TOCO	105 4 months ago	145 / 95 (120) 4 months ago	36°C 4 months ago	2cm 4 months ago	No data	No data	I 4 months ago	No data	5 4 months ago	
Labor Bed 5	Laila P000101 32 yrs, G1,P1, 36+5	HR1 MHR	HR2 TOCO	89 4 months ago	89 / 78 (65) 4 months ago	35°C 4 months ago	4cm 4 months ago	10 4 months ago	P 16:35 4 months ago	C 4 months ago	No data	3 4 months ago	Peth 4 months ago

Quick Actions
- ⚠ Risks
- 📋 Notes
- 📈 CTG
- 📈 Partograph
- ⬆ Update Assessment
- 🛏 Change Bed
- 👤 Update Profile
- 👤 Delivered

Easy access to Bed / Patient

CTG Numeric Data

Vital Signs

Physical Assessment

Quick Access to Patient Data / Charts

Whiteboard

A bird's-eye view of multiple patients' vital information from a single dashboard makes it easier to prioritize patients who need more attention.
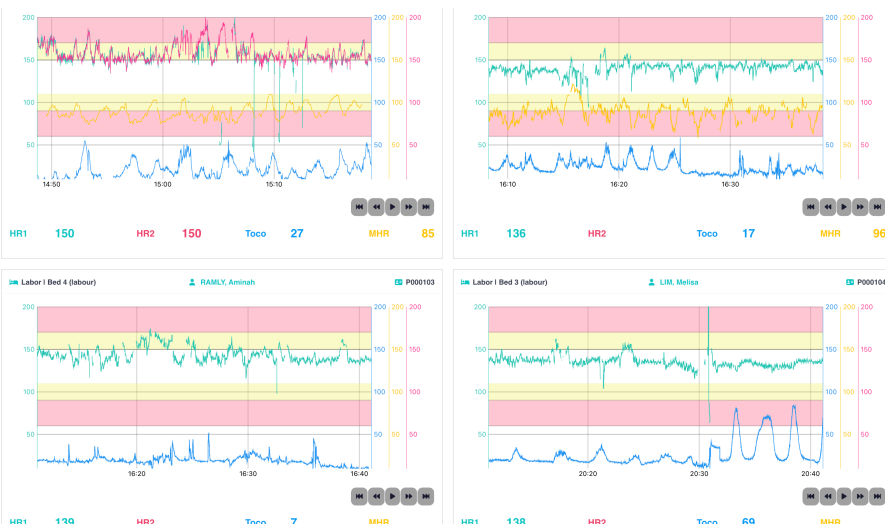
CTG Dashboard

Monitoring of multiple patients' CTG charts on a single dashboard.

mcare

CTG Insights

**Realtime Classification / Analytic
Of FHR CTG Data**
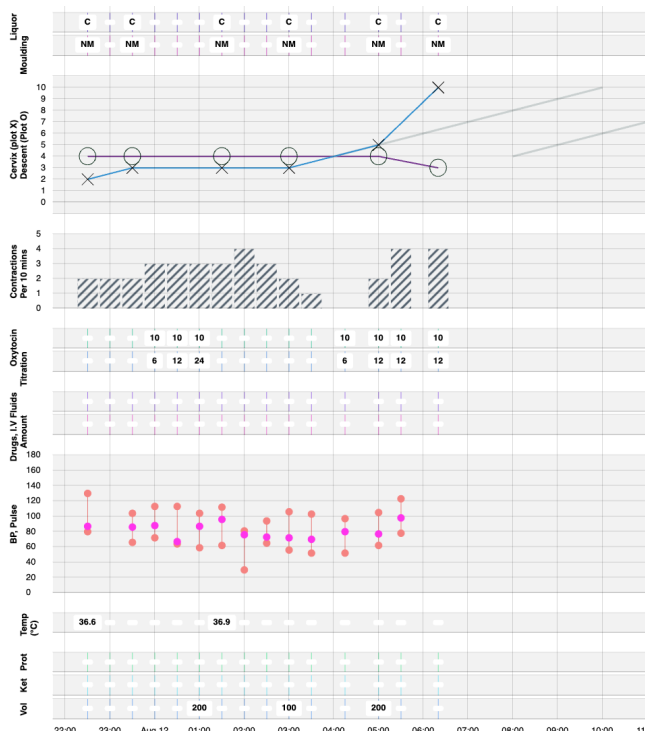Green Triangles - Acceleration / Blue Triangle - Deceleration / Grey Triangles - Contraction

**Rewind / Forward Previous
Recorded CTG Data**

**Summary of the
Classification / Analytic**

CTG Analytics

Live data from the CTG machine will be continuously analyzed and classified in real-time within the patient's CTG view/monitoring.

Auto Charting

Physical assessments inputted into the system will be automatically charted accordingly.

mcare

Realtime Analytics

Realtime analysis and Notification of CTG FHR data enables continuous monitoring of fetal well-being.

A robust notification system promptly alerts healthcare providers to abnormal patterns, facilitating immediate interventions and potentially preventing adverse outcomes. This technology empowers clinicians to make informed decisions based on up-to-the-minute fetal status.
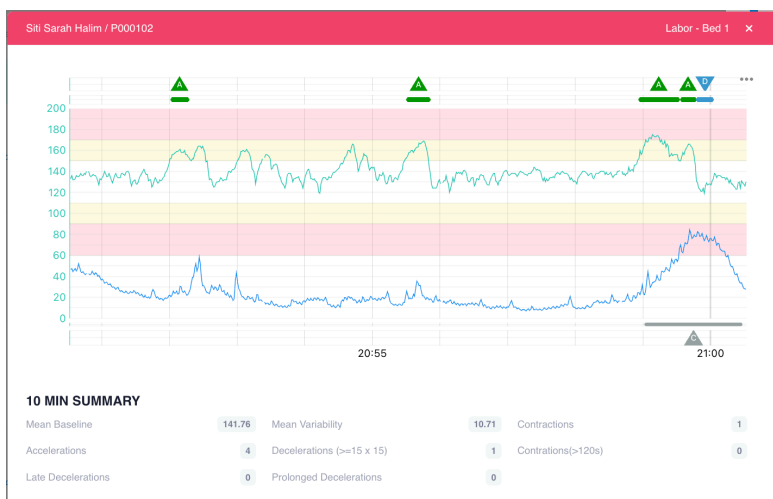
Quick View of CTG Data

Short cut link from the notification for quick view and insight of the reported notification.

mcare

Archive

Archive System of Patient Assessments & CTG Data

A comprehensive CTG data archive system plays a vital role in enhancing patient care by securely storing and organizing recorded CTG data.

This enables healthcare providers to quickly access and review critical patient information, supporting timely and accurate diagnosis and treatment decisions. The system's playback functionality allows for in-depth analysis of CTG charts, helping clinicians identify trends, patterns, and potential complications. This capability ultimately contributes to better maternal and fetal outcomes.

A well-structured CTG data archive allows clinicians to conduct in-depth reviews of recorded data, enabling comprehensive analysis of fetal well-being patterns.
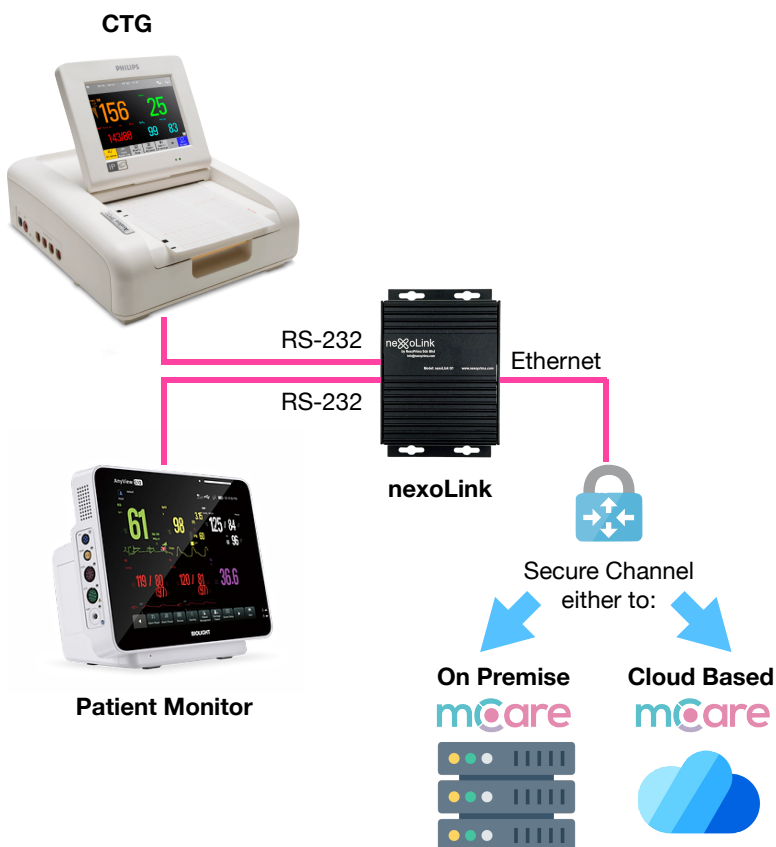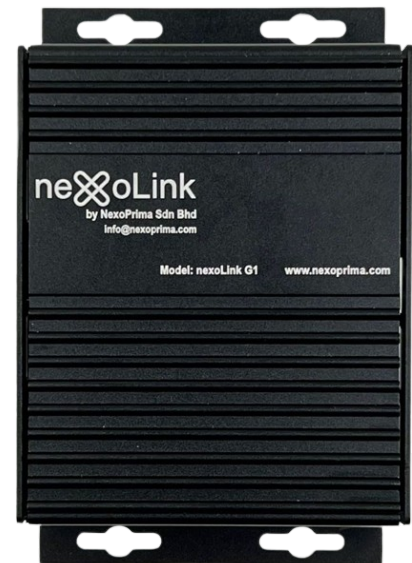
By studying trends over time, healthcare providers can identify potential risk factors, optimize care plans, and contribute to evidence-based practices. This retrospective analysis also supports research and quality improvement initiatives, ultimately enhancing patient outcomes.

mcare

nexoLink

IoT - Integration Device

Integration devices that connect over serial to medical devices for data capture, enabling efficient and accurate data transfer across different systems. By automating the data capture process and ensuring interoperability among various medical devices and healthcare information systems.

NexoLink is a custom IoT device, by NexoPrima. It has 3 x RS232 interface over RJ45 and 2 x USB 2.0. It can connect up-to 5 medical devices simultaneously, such as CTG, patient monitor, ventilator and Infusion pump*.

CTG

RS-232

RS-232

Ethernet

nexoLink

Secure Channel
either to:

On Premise

Cloud Based

Patient Monitor

Ethernet
Giga   x 1
10/100M   x 1

Wireless Connection
2.4GHz IEEE 802.11
5.0GHz b/g/n/ac

USB
USB 2.0   x 2

Isolated RS232 / Serial
RJ45 5 Pins RS232   x 1
RJ45 3 Pins RS232   x 2

Power In
DC10 - 30V

Display Output
HDMI Full Size   x 1

Buttons
Reset button
User programmable button

Every mother has the right to expect her baby to be born alive and healthy, just as every baby has the right to a living and healthy mother.

mcare

neXoprima
mcare
advanced Labor Room
Information System

Phone : +603.8210.7325 | Email: info@nexoprima.com

NexoPrima Sdn Bhd (1137946-D)
Address : Block Heliks-Emas B6-1A,
UKM-MTDC Technology Centre,
43650 Bangi, Selangor, Malaysia.

MySTI

Issuance Date: 02 August 2024
Valid Until: 02 August 2026
Serial no: MOSTI/2024/STI202400528