Project Title

STORK: Delivering Singapore's First Obstetrics Next Generation Electronic Medical Record (NGEMR)

Project Lead and Members

Project lead: Lim Tak Yein

Project members: Christine Nyai, Kanneganti Abhiram, Stella Mary, Zelana Binte Mohd Fauzi Antoni Das, Lim Peng Im, Cheryl O Pia Mandadero, Loh Hui Fang, Nur Faridah Binti Husni, Nur Amira Binte Abdollah

Organisation(s) Involved

National University Hospital

Healthcare Family Group(s) Involved in this Project

Ancillary Care, Healthcare Administration, Medical, Nursing

Applicable Specialty or Discipline

Obstetrics & Gynaecology, Medical Informatics, Nursing

Project Period

Start date: July 2020

Completed date: Feb 2024

Aims

See poster appended/ below

Background

The NUH Department of Obstetrics and Gynaecology (O&G) worked alongside the Epic build team to develop Stork as Singapore 's first next generation EMR (NGEMR) for Obstetrics Care.

- Significant re-working of Stork was required as the original Epic system was based on an obstetric model of care in the United States, which was vastly different from our local setting.
- The enhanced localised EMR system has the ability to harmonise obstetric care to improve patient safety within the maternal baby dyad and optimise work efficiency amongst a multi-disciplinary care team.

Methods

See poster appended/ below

Results

See poster appended/ below

Conclusion

Development of the enhanced version of Stork is the first local attempt to create an integrated multidisciplinary EMR that is designed to put seamless care mother child dyad as the highest priority.

- The enhanced Stork system is a far more locally relevant platform and the benefits in efficiency, patient safety and integration will bring dividends for years to come.
- Coupled with the advanced data extraction features of the Epic system, the indigenisation of Stork promises to bring an unprecedented ability to audit maternal outcomes not just at an institutional level, but soon at a national level.

Project Category

Technology

Digitalisation, Digitisation

Product Development, Product Evaluation

Keywords

Multidisciplinary EMR, O&G EMR

Name and Email of Project Contact Person(s)

Name: Lim Tak Yein

Email: Tak_Yein_LIM@nuhs.edu.sg

National University Hospital

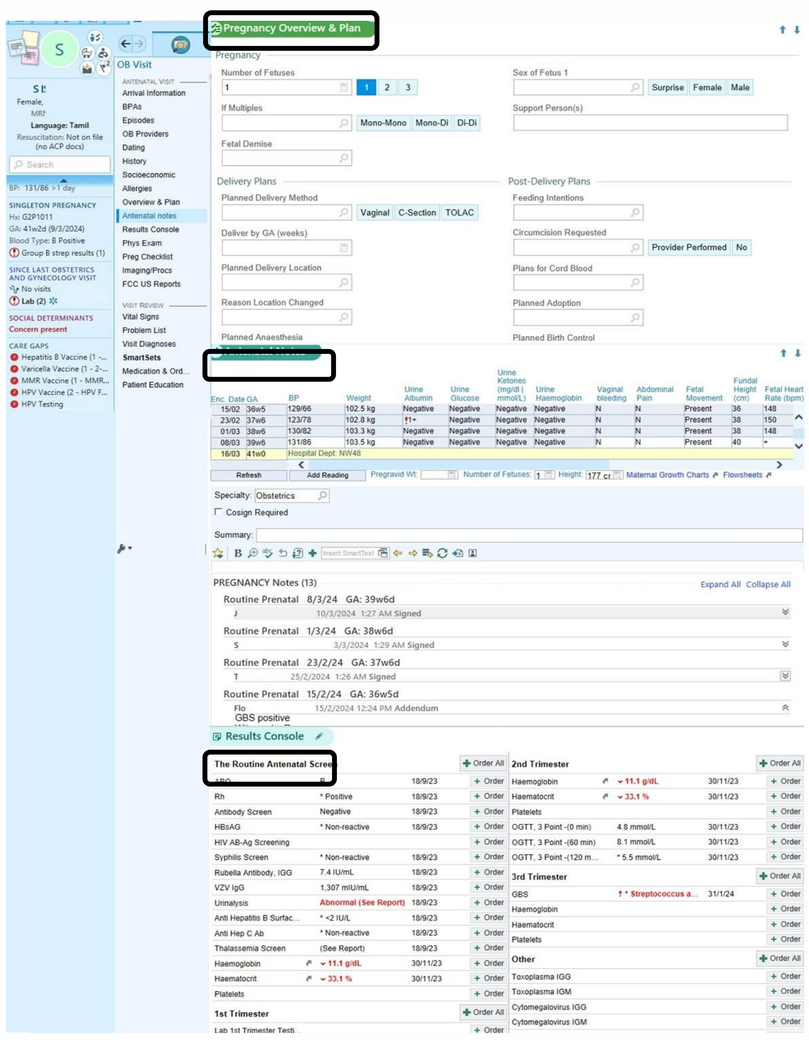
STORK: Delivering Singapore's First Obstetrics Next Generation Electronic Medical Record (NGEMR)

Team Leader: Lim Tak Yein, Principal Resident Physician, National University Hospital (NUH)
Members: Christine Nyai[2], Principal Medical Informatics Specialist; Kanneganti Abhiram[1], Associate Consultant; P Stella Mary[1], Senior Nurse Manager; Zelana Binte Mohd Fauzi Antoni Das[1], Nurse Manager I; Lim Peng Im[1], Senior Nurse Manager; Cheryl O Pia Mandadero[1], Assistant Nurse Clinician; Loh Hui Fang[1], Senior Staff Nurse II; Nur Faridah Binti Husni[1], Senior Staff Nurse II; Nur Amira Binte Abdollah[1], Senior Team Leader
[1]National University Hospital; [2]National University Health System

BACKGROUND

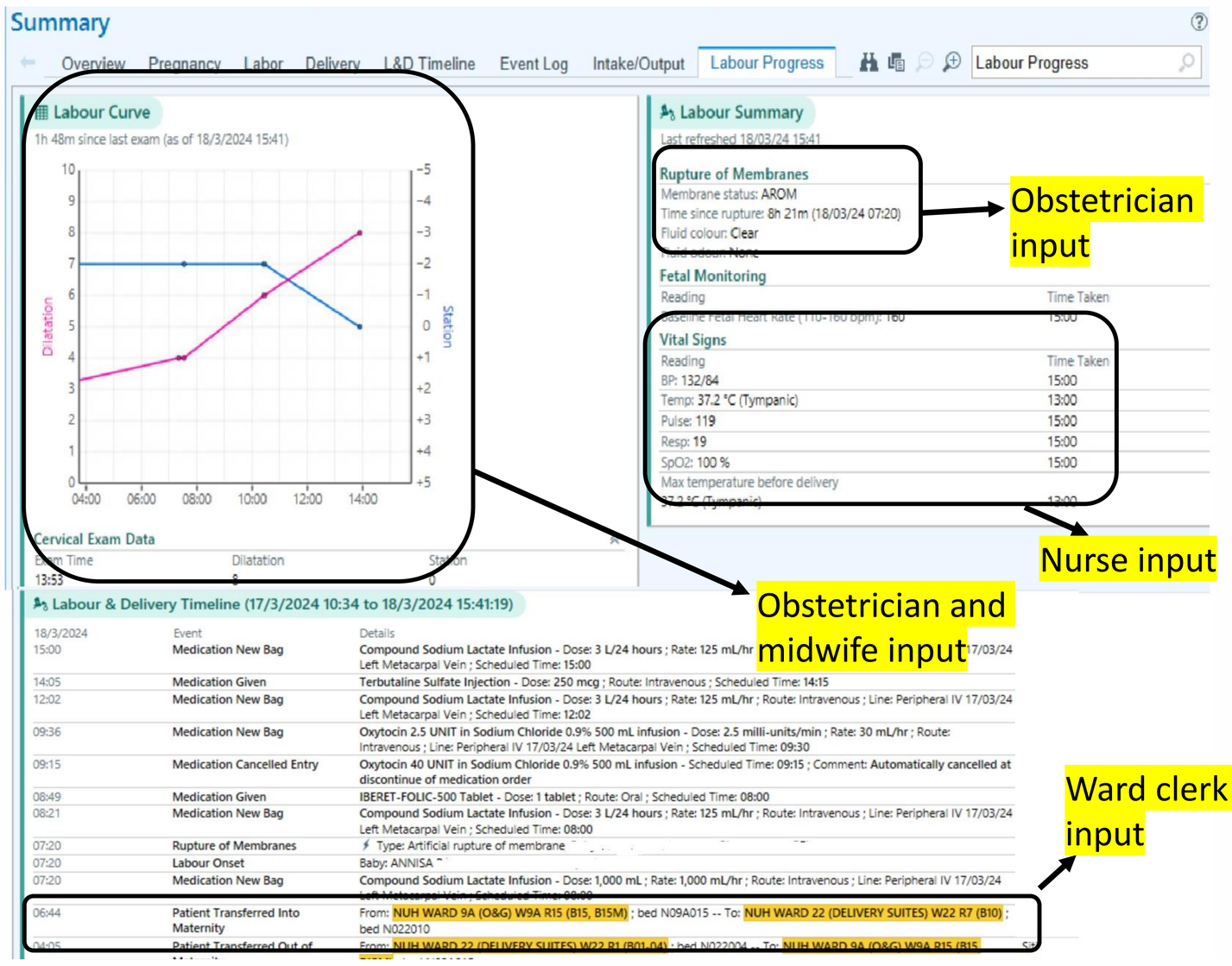
- The NUH Department of Obstetrics and Gynaecology (O&G) worked alongside the Epic build team to develop Stork as Singapore's first next-generation EMR (NGEMR) for Obstetrics Care.
- Significant re-working of Stork was required as the original Epic system was based on an obstetric model of care in the United States, which was vastly different from our local setting.
- The enhanced localised EMR system has the ability to harmonise obstetric care to improve patient safety within the maternal-baby dyad and optimise work efficiency amongst a multi-disciplinary care team.

ANTENATAL



✓Use of localized terminologies.
✓Contains workflows commonly used in local setting.

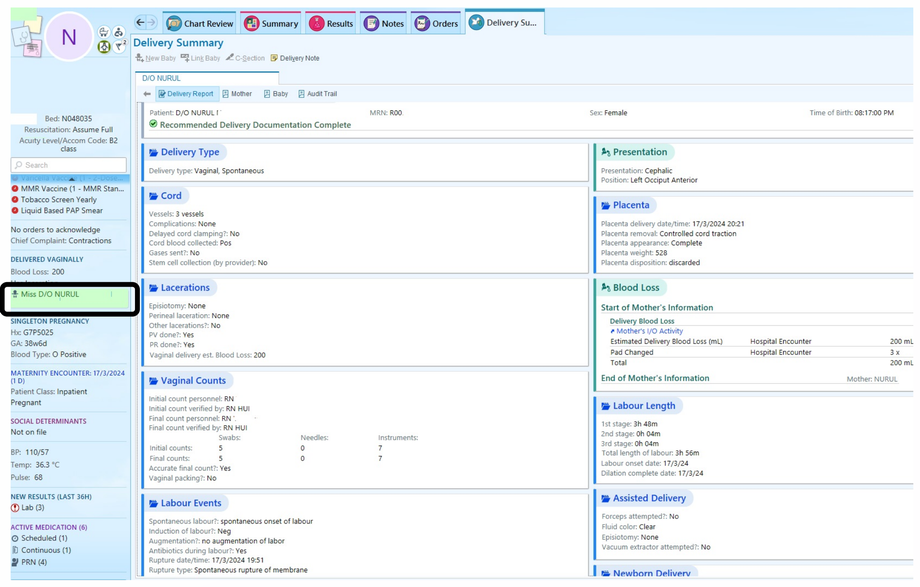
INTRAPARTUM



✓ Shared platform for a multidisciplinary care team management of a laboring patient.

POSTNATAL

✓Quick access to neonate notes with a single click, and vice versa.
✓Enhanced work efficiency and coordination amongst interdisciplinary care providers (e.g. neonatologist, obstetrician)



CONCLUSION

- Development of the enhanced version of Stork is the first local attempt to create an integrated multidisciplinary EMR that is designed to put seamless care mother-child dyad as the highest priority.
- The enhanced Stork system is a far more locally relevant platform and the benefits in efficiency, patient safety and integration will bring dividends for years to come.
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