Power of one: one eMR for the state, one record for the patient

Louise Hayes

Integrated electronic Medical Record (ieMR) Program

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The journey has begun.....

Electronic Medical Records are here and now in Queensland Health

#hic15 @louiseh4499
What is the ieMR?

- State-wide integrated electronic Medical Record (ieMR) for use in Queensland public hospital system
  - One system, one platform, one build, one eMR – standardised for all to use
  - Each patient has *one electronic record* across the ieMR hospitals
- Partnership and collaboration with HHSs, Cerner Corporation and ieMR Program, Department of Health
- COTS product deployment based on Cerner’s global experience and best practice
- Clinically led program, with focus on clinical standards and patient safety
- Release based implementations across four phases
Initial ieMR footprint

Implemented at six facilities

- Cairns Hospital
- The Townsville Hospital
- Mackay Base Hospital
- Royal Brisbane and Women’s Hospital
- Royal Children’s / Lady Cilento Children’s Hospital
- Princess Alexandra Hospital
- Gold Coast HHS

Gold Coast University Hospital, Robina Hospital and Carrara Health Centre

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So how do we get there?

Site teams drive the build and implementation.

Leveraging content from others who have done this before (NSW, Victoria, global).

A single build state-wide enables rapid deployment to multiple locations and economies of scale.

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ieMR functionality
Release One - foundation

Delivered the following components:

- Configuring ieMR for state-wide build
- Integration with other QH systems
- Scanning of documents – e.g. to make medical records widely available via ieMR
- Paediatric Growth Charts to record, review and track a child’s progress

First implemented: Dec 2013
6 hospitals now live
Final #hic15 @louiseh4499
Release Two – initial structured data

Continued the journey:

- Alerts and allergies, problems and diagnoses
- Initial structured clinical documentation
- Progress notes
- Risk assessments

- Expanded clinical documentation for the renal specialty area - haemodialysis

- Electronic order entry and results reporting (OERR) for pathology and radiology– Mackay pilot site
- Emergency department: EDIS interface

First implemented: July 2014

6 hospitals & 12 satellite sites live

Release Two

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How do we achieve “One patient record”?

Client Directory

Data repositories

Qld Health Public Hospitals

132 x Patient Administration Systems (PMIs)

Clinical Information Systems (summary encounter data)

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One system, one build

- **Standardisation**
  - eMR for statewide consumption; state standards are a must
  - Principle based design
  - Leverage state, national and international standards where possible

- **Governance**
  - Same state-wide principles and standards are maintained
  - What is good for one, must be good for many
  - Principles can be tweaked – patient safety integrity and clinical benefits must remain
  - Support: clinician, information, technology

- **The Vision**: the eMR supports the patient journey, within the health service and across the state. One patient, one medical record.
The ieMR results …so far
Never thought we’d see the Day!
RBWH empties of 50% of primary file

The football field size primary medical record file area in the RBWH MRD is looking very different! After nearly 14 months of scanning, primary file has been culled back to 50% of its usual content to make way for more office space.

“All the records from our secondary storage facility have been sent off-site to tertiary commercial storage, making way for all charts that have not been accessed for over 18 months,” said Karen Snee, MRD Manager.

Over 200,000 charts were moved from the primary file area, and work is still continuing to re-file remaining charts into the more compact filing area. This space will now be used to create a much larger scanning area, and Medical Record Typing Pool will move into the old scanning area to make more room in the ever expanding HIMs and Informatics area. The emptied space at the back of the MRD will be converted into offices for RBWH Corporate Services. Still no windows, but definitely more wiggle room!
... on an average day in the ieMR

- 6000+ users log in
- 46,454 patient charts are opened
- 4,294 unique patients are seen
- 67,000 interface transactions
… an average month in the ieMR

- 12,208 Allergies documented
- 353,581 Clinical documents created*
- 11,898 Problem/diagnoses recorded*
- 1.1M patient charts are opened
- 100,000+ unique patient seen
- 2.3M handwritten forms scanned

*not all hospitals are live with this functionality
09-Jun-2015

Cairns Hospital

The Townsville Hospital

Royal Brisbane and Women’s Hospital

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Digital health records in QLD

• Meet baby Susan
The ieMR journey continues – coming in 2015/16
Digital Release – further the digital stack

- Clinical documentation for high volume forms and completion of speciality clinical documentation for key specialties
- FirstNet and SurgiNet – emergency and surgery modules
  - PowerChart ECG and Fetalink CTG including device integration
  - Referral and scheduling
  - Dragon voice dictation
  - Community Health
  - Integration of the electronic discharge summary into workflows
Medication Release

**Medications Management**
- Tracking medications from “the order to dispensing”
- Point of ordering decision support
- Allergy checking and alerts

**Anaesthesia**
- Anaesthesia support

**PowerTrial**
- Clinical Trial governance work flow support
- Sophisticated candidate identification & enrolment

Go-live: mid 2016

Targeted for PAH & CH

Digital Hospital Build

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The integrated electronic Medical Record (ieMR) solution will enable a patient-centric focus to health care delivery. Queensland Health clinicians and supporting staff will be able to securely access a single view of a patient’s medical record, designed to focus on patient safety and quality.
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Louise Hayes  BBus HIM, CHIA
Director Information Management and Informatics
ieMR Program
Health Services Information Agency
Department of Health

e. Louise.Hayes@health.qld.gov.au
#HIC15 @louiseh4499

For more information please contact:
ieMR Program Communications
HSIA-ieMRComms@health.qld.gov.au