Considerations of Electronic Medications Management Systems in a Hospital Setting

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Motivation

- Implementations of e-prescribing systems are often unsuccessful
- Acceptance of a problem
- Resistance to change
- Communication of the problem and implications to the stakeholders

Hospital
How can this be done?

- What would an eMMSs look like if we did implement an integrated approach?
- What the are the implications?
  - Technology
  - Process
  - Organisational
- Where to start?
Discussions

- 9 months of interviews and discussions
- Review of currently available systems on the market
- Process mapping and review
- Process and System Modelling
Modules of Interest

- ePrescribing, eDispensing and Administration
- Medicine Decision Support System Module
- Patient Pre and Post Admission
- Medicine Administration
- Patient Medicine Record
- Medicine Procurement and Stock Management
Medical Decision Support System Module

- Drug Allergy Checking and Alert Functional
- Dosing Guidelines Module
- Formulary Decision Support
- Duplicate Therapy Checking Module
- Drug-Drug Interaction Module
- Drug-Disease Interactions and Contraindications Module
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iPM
- Demographics

BOSS
- Discharge Medications
- DMR

CHARM
- Dispensing
- Discharge Medications
- Product Management

MERLIN
- Medicine Procurement and Stock Management
- Reporting and Administration
- Dispensing

eMMs [Framework]
- ePrescribing, eDispensing and Administration
- Medicine Decision Support System Module
- Patient Pre and Post Admission Medicine Administration
- Patient Medicine Record
- Medicine Procurement and Stock Management
Conclusion

- eMMs proposes difficult question to the organisation
- Frameworks help
- More work is needed