

Process re-engineering - Medication

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Queensland **Health**

Medication

- Most commonly used medical intervention
 - Nearly 100% QH patients receive a medication
 - PBS - >200 mill scripts / year (10scripts / person / year)
- Increasing use
 - In any 2-week period, 7 in 10 on medication
 - 9 in 10 older Australians (over 65 years)
- Expensive and increasing cost
 - PBS >\$6 bill Commonwealth
 - Ave. 13.8% increase 92-02
 - QH > \$160 mill (2nd largest recurrent expenditure item)
- High risk of harm

Changes in medication use

- Increased use
 - Average patient now receiving
 - 8 Regular medications (range 0-25)
 - 3 PRN medications (range 0-10)
- Post operative patients require ~3L IV fluids/d
 - Equiv of ~60L for 30 bed surgical ward
- Controlled Drugs
 - 2000 ~15 different S8 formulations
 - 2007 ~30 different S8 formulations

Systems

- Medication
 - Changes in packaging
 - Self administration

Error Prone Conditions



Systems

- Medication
 - Changes in packaging
 - Self administration
- Storage
 - Individual bedside vs. imprest stock
 - Patient's Own Medications
- Preparation
 - Bedside vs. treatment room

Technical change

- e Medication Management
 - e-Prescribing
 - e-Administration
 - Barcode Scanners
 - RFID tracking systems
 - IV Safety Software
 - e-storage systems e.g. Pyxis
- Communication
 - Air tube systems for delivery of medications
 - Wireless/Radio LAN systems