STRATEGIES TO IMPROVE MEDICINES SAFETY

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2016

NPS MEDICINEWISE

OUR GOAL

- To deliver care that is
  - Safe
  - Effective
  - Patient-centred
  - Timely
  - Efficient
  - Equitable

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WHY IS IT IMPORTANT?

- Medication most common medical intervention
- More errors and adverse events than other aspects of care
- 50% errors are preventable

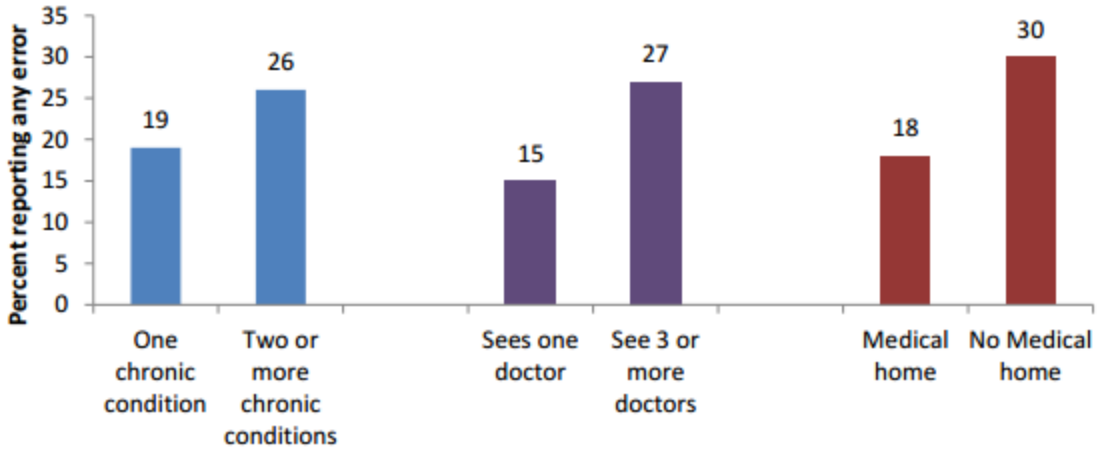
HOW BIG IS THE PROBLEM?

Multiple medication use is common

2-3% of all hospital admissions are medicine related

12% medical admissions

20-30% medical admissions for >65 years olds



Percentage of patients with self-reported medication or medical error in the previous twelve months

(Source: Schoen et al. 2007)

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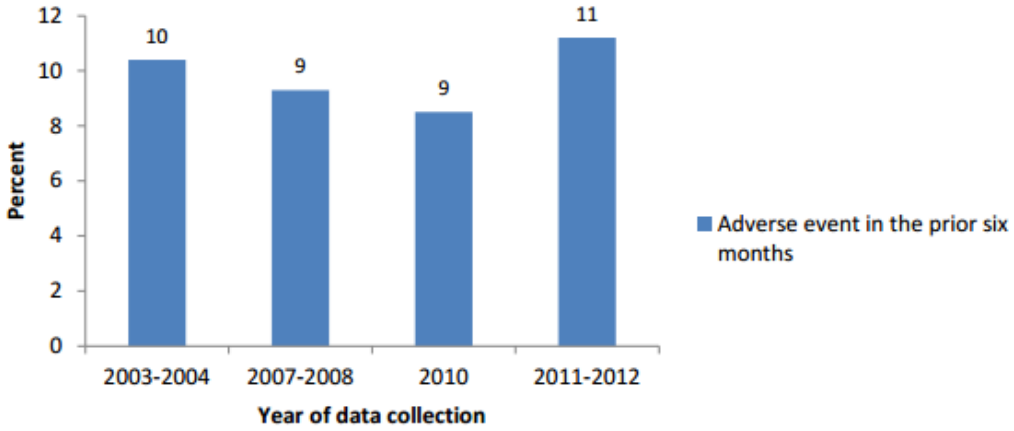

Percentage of patients attending general practice experiencing an adverse medication event in prior six months

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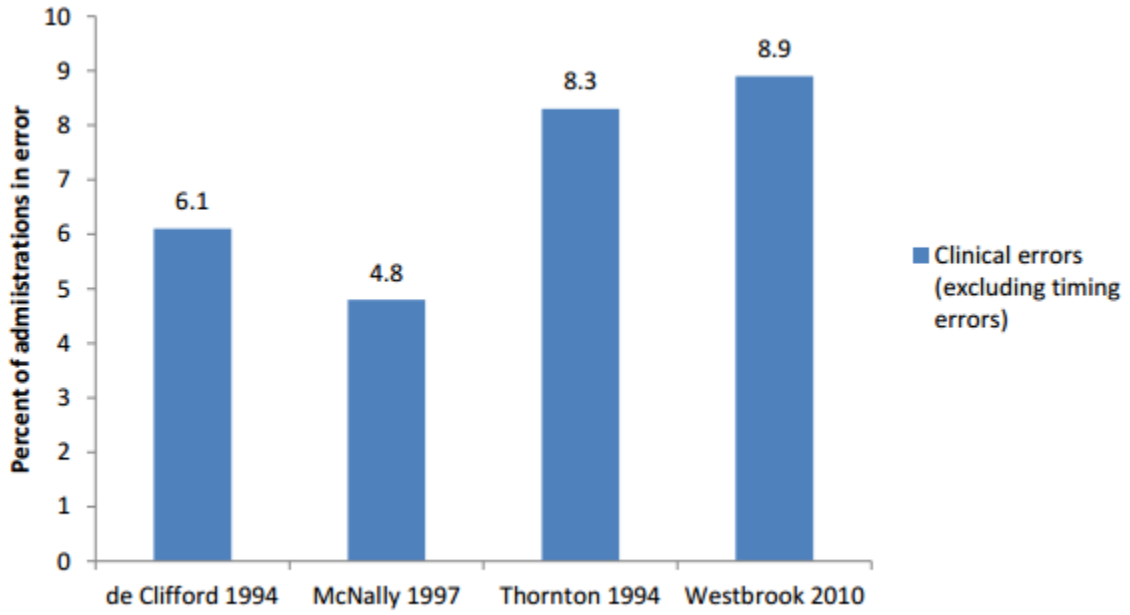
AND ONCE YOU GO TO HOSPITAL ….



Medicine administration errors in hospitals (individual patient supply systems)

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HIGH RISK

- Oncology
- Anticoagulants
- NSAIDs
- Opiates
- Antimicrobials
- Older people

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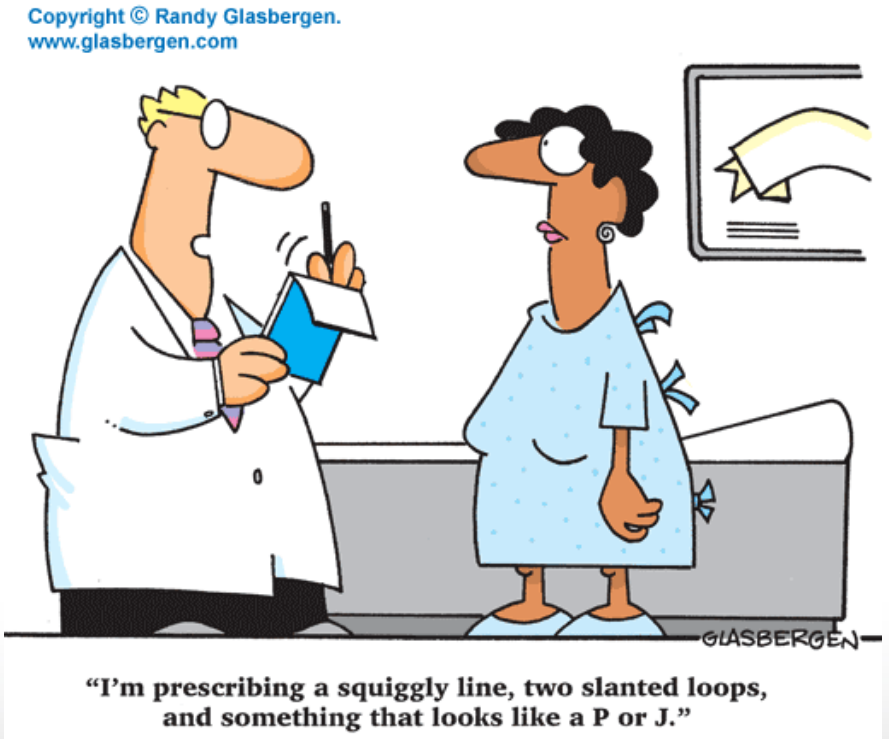
HOW CAN WE REDUCE ERROR?

- Practitioners
- Regulatory agencies
- Implementation in health care settings

PRESCRIBING

- Standardised ordering
- Standard Treatment Guidelines
- E- prescribing



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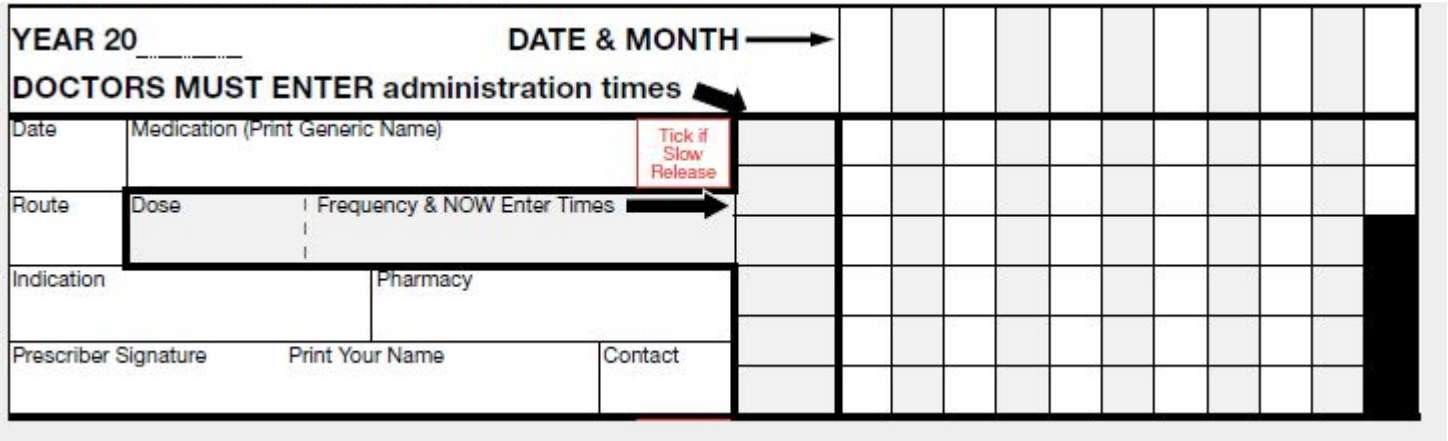
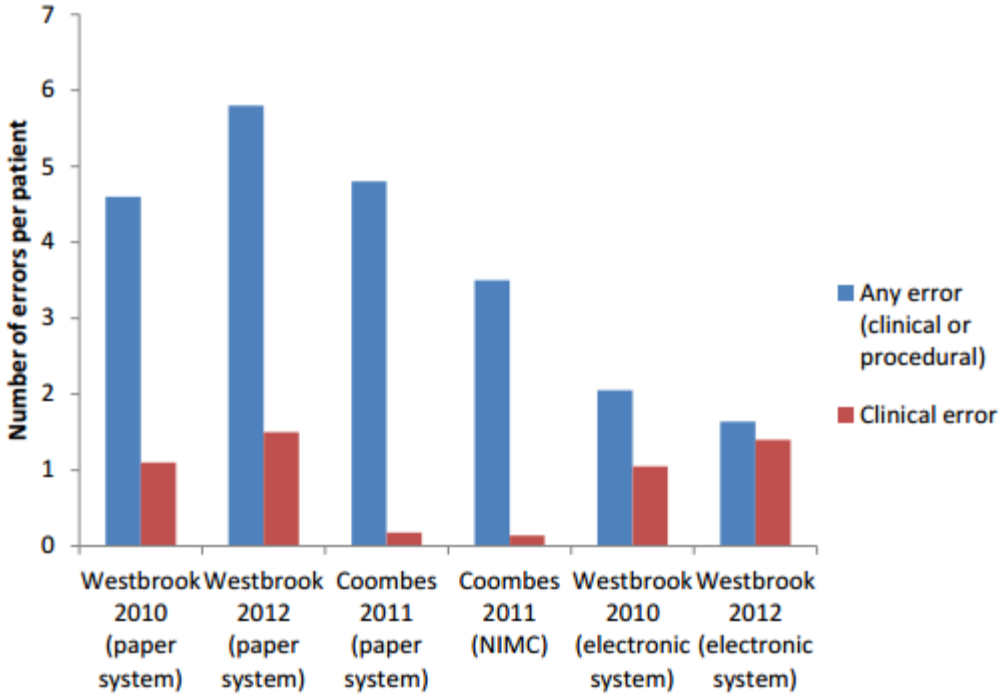
NATIONAL INPATIENT CHART



National Inpatient Medication Chart

E-PRESCRIBING LESS RISKY



Prescribing errors from paper-based and electronic systems

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DISPENSING

- Standardised processes
- Dispensing systems, robotics
- Tall man lettering
- Improved labelling and packaging

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SOUND ALIKE, LOOK ALIKE

The FDA and Institute for Safe Medication Practices (ISMP) list of recommended Tall-Man Letters:

- acetaZOLAMIDE vs. acetoHEXAMIDE
- buPROPion vs. busPIRone
- chlorproMAZINE vs. chlorproPAMIDE
- clomiPHENE vs. clomiPRAMINE
- cycloSERINE vs. cycloSPORINE
- DAUNOrubicin vs. DOXOrubicin
- DOBUTamine vs. DOPamine
- hydrALAzine vs. hydrOXYzine
- TOLAZamide vs. TOLBUTamide
- vinBLAStine vs. vinCRIStine

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ADMINISTERING

- Improved labelling and packaging
- Smart pumps
- Better distribution processes with fewer interruptions
- Standardised ordering (eg fewer abbreviations)

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Webster-pak®
WALKER, Mrs Gwen (LL) 03/03/14
Medication
FerrogradumetTab (1)
M T W Th F S Su
Y Y Y Y Y
Webstercare Pharmacy
Pack (1 of 1)
KEEP OUT OF REACH OF CHILDREN
Available at your local pharmacy
MMS
13.8.02
03/12/13 15:39:28 (16)
BREAKFAST
LUNCH
DINNER
BEDTIME
MON
TUE
WED
THU
FRI
SAT
SUN

HOW TO IMPLEMENT ….

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NATIONAL IMPLEMENTATION

- Labelling and packaging
- Brand names
- Medication administration charts

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COMMUNITY AND OUTPATIENT

- Dose administration aids
- Documentation of clinical interventions
- Staged supply
- Medication review
- Patient medication profile / medicines list

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IN THE COMMUNITY

- Home medication reviews
- Medschecks
- New medicines support service
- MedicinesLine / Adverse medcines event line

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HOSPITAL IMPLEMENTATION

- Medication reconciliation /clinical pharmacy
- Medication alerts
- Storage; preparation; fool proofing
- Standardised ordering

ISMP
INSTITUTE FOR SAFE MEDICATION PRACTICES

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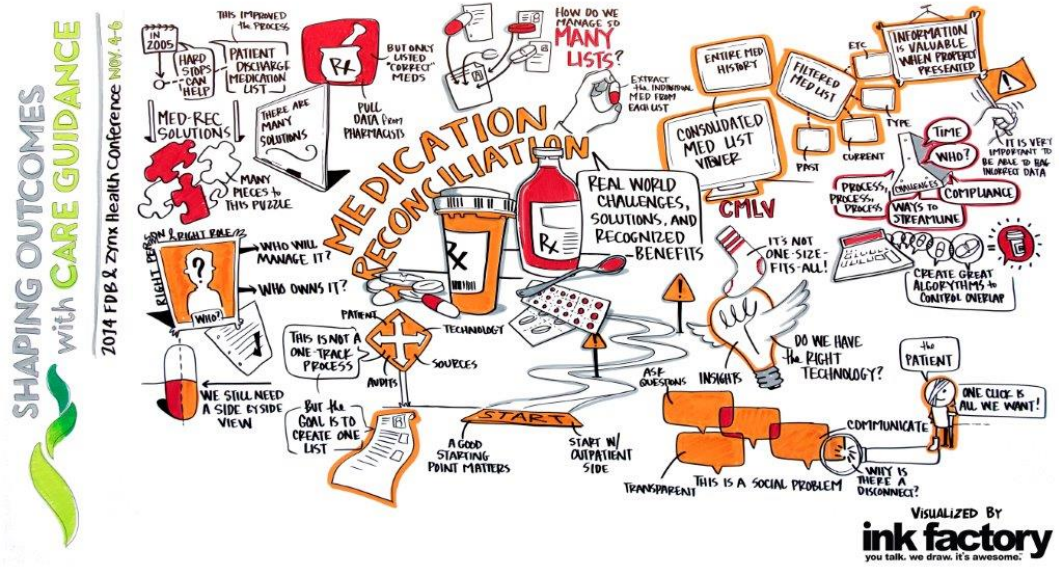
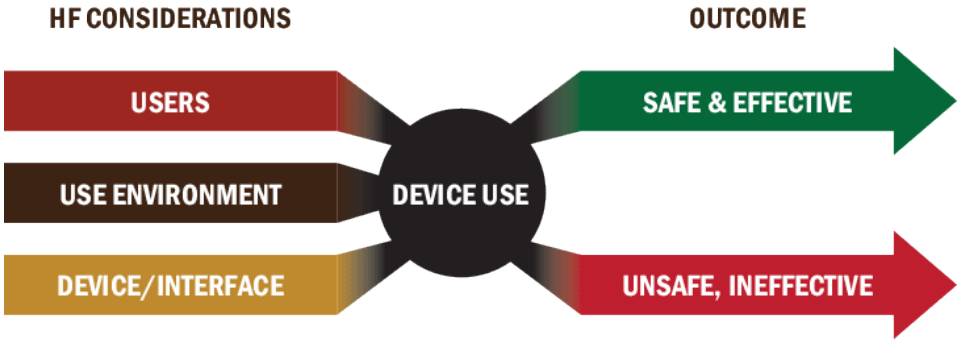
TRANSITIONS OF CARE

- Medication reconciliation
- Well timed medication review
- Clinical pharmacy in discharge planning
- Communication with primary care professionals



WORKFORCE AND CULTURE

- Patient, carer and family engagement
- Human factors engineering



- Reporting errors and acting on patterns
- PDSA cycles

INTERVENTIONS AND EDUCATION

- Orientation and induction programs
- Online learning
- Local committees and feedback
- Sharing experiences

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IN SUMMARY, AT THE HEART…

- Standardisation leads to improved safety and service excellence
- Data and evaluation are critical for a learning system
- Sharing successes and failures helps us all

Prescriptions

"I've been taking this medication for 50 years and I'm going to sue! The side effects made me wrinkled, fat and bald!"