

# *Barcode Medication Administration (BcMA)– The trials and tribulations*

Will Hall – Lead Pharmacist for IT

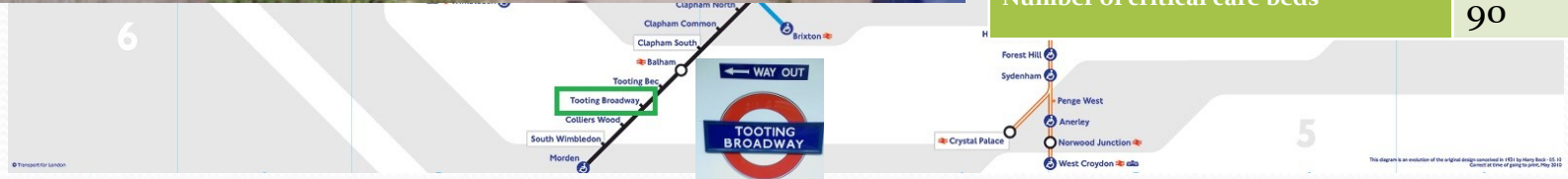
**IP**  
c Prescribi  
nes Admin  
@ stgeorgesepma  
London

ePMA team at St Georges Hospital in south London. We aim to eliminate medication errors and improve system efficiency. Safer, Better and Smarter is our motto.





Item	Metric
Number of core facilities	3
Number of beds	1,100
Full Time Equivalent	7,173
Total Headcount	7,700
Number of IP admissions /year	107,976
Number of IP Day cases / year	26,925
Number of OP attendances / year	683,490
Number of ED attendances / year	163,810
Number of operating theatres	29
Number of births /year	5,118
Number of critical care beds	90

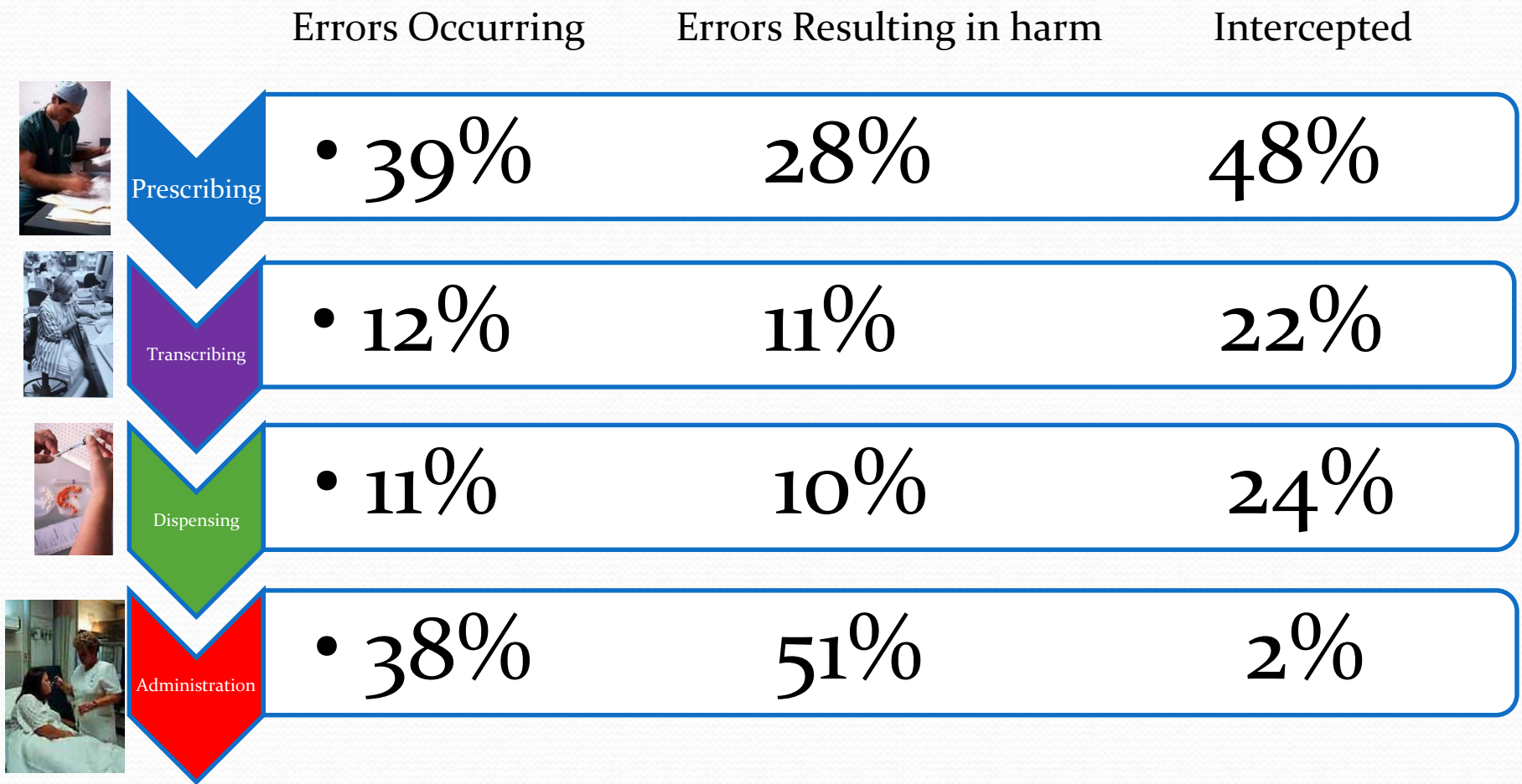


# Medication Safety: Long term global vision

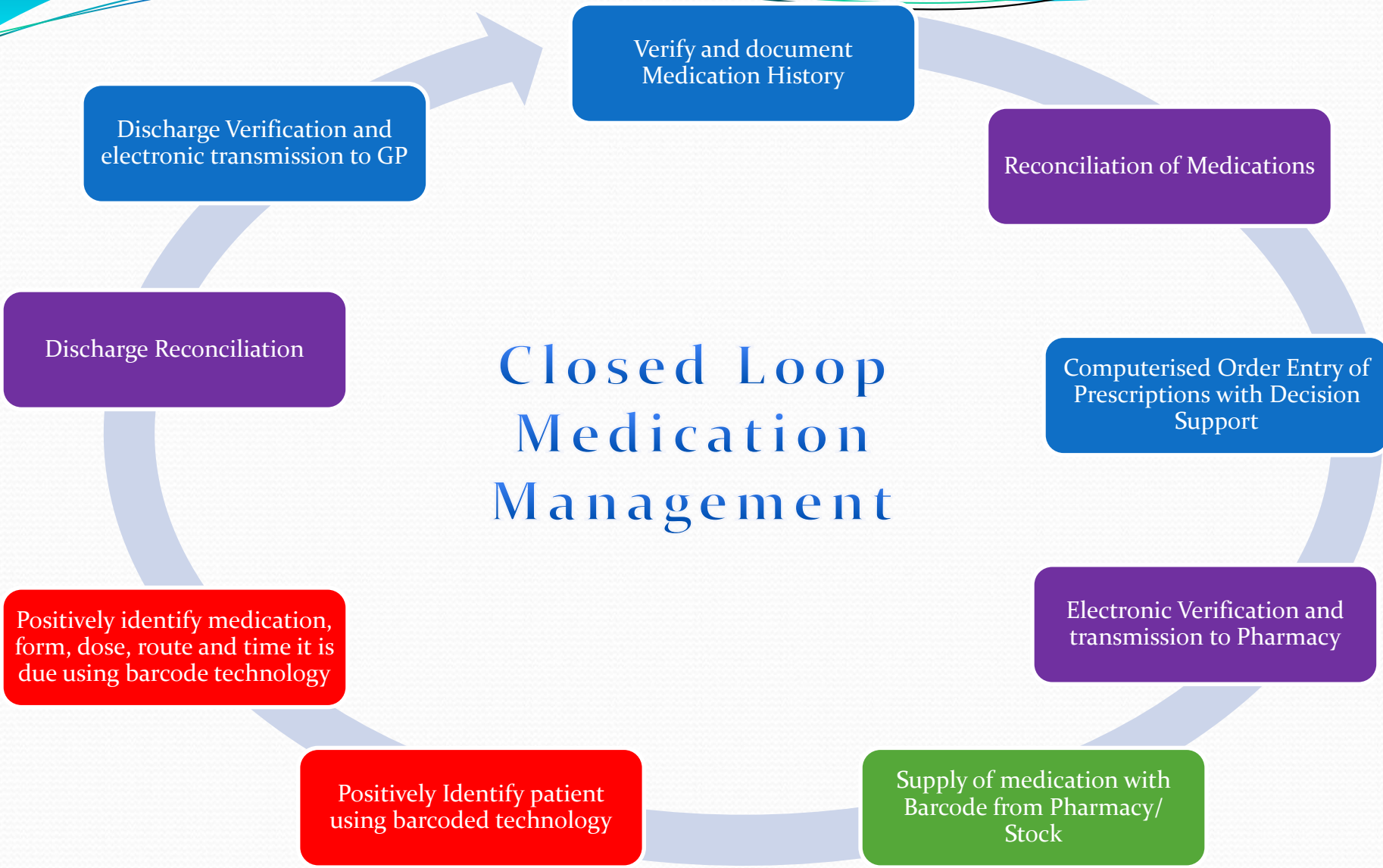
To perfect the medication delivery system to be safe for every patient, every time, while making it easy for caregivers to do the right thing, and impossible to do the wrong thing.

# Source of preventable medication errors

Leape et al. JAMA 1995



# Closed Loop Medication Management



# Configuration

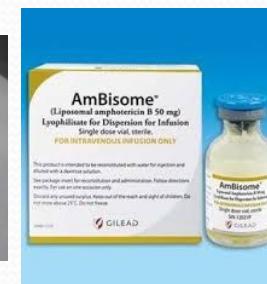
**Paracetamol** PRN  
Tablet Oral -Dose: 1 g - Four Times a Day PRN  
For Pain -Start: 09/Dec/15 00:33:00 GMT



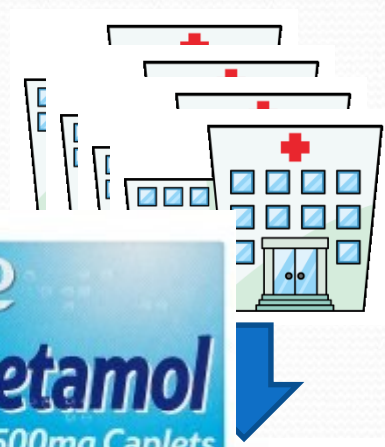
**Hydrocortisone topical (Hydrocortisone 2.5% Ointment \*NF\*)**  
- Topical -Dose: 1 application - Daily every Morning  
-Start: 11/Dec/15 08:00:00 GMT -Stop:  
18/Dec/15 07:59:00 GMT Non-Formulary  
Apply thinly.



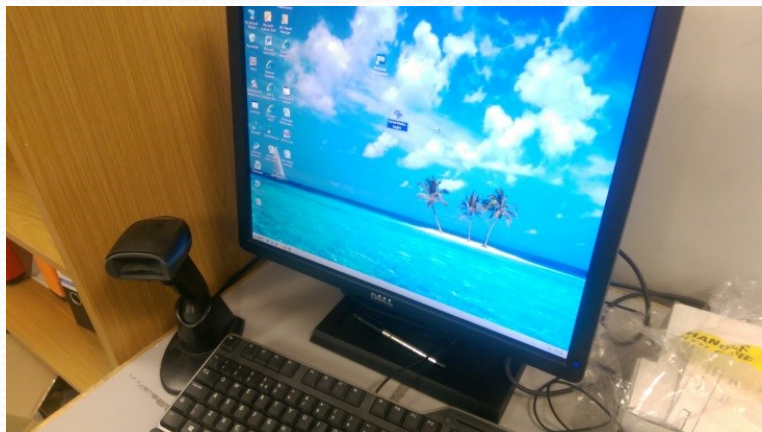
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# Pharmacy Process



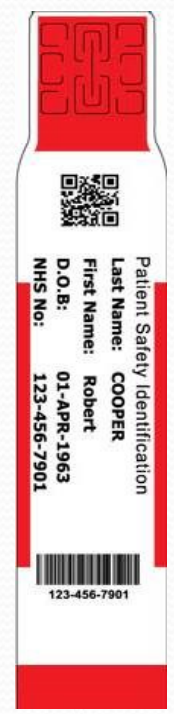
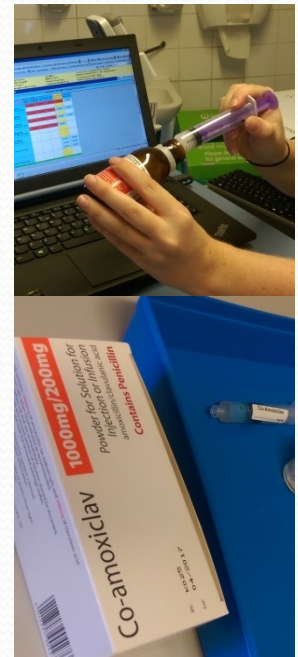
# Pharmacy Process



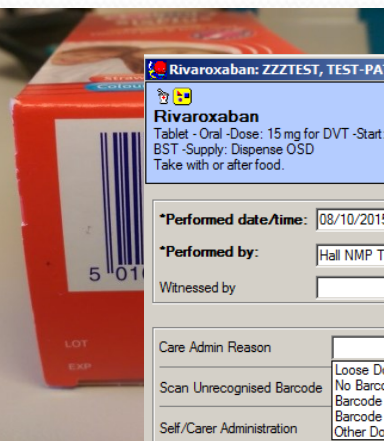
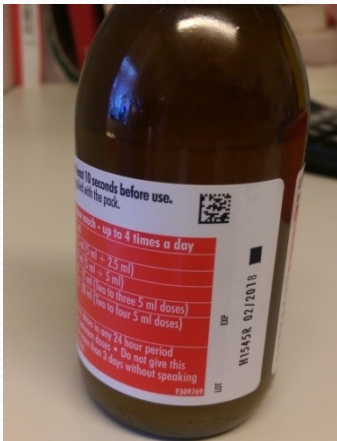
# Nursing Process



# Nursing Process



# Scanning Failures



**Rivaroxaban: ZZZTEST, TEST-PATIENT19**

**Rivaroxaban**  
Tablet - Oral -Dose: 15 mg for DVT -Start: 08/Oct/15 18:00:00 BST -Stop: 08/Oct/15 18:00:00 BST -Supply: Dispense OSD  
Take with or after food.

\*Performed date/time: 08/10/2015 1833 BST

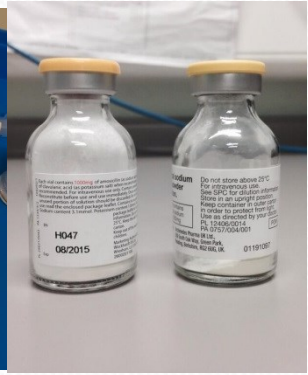
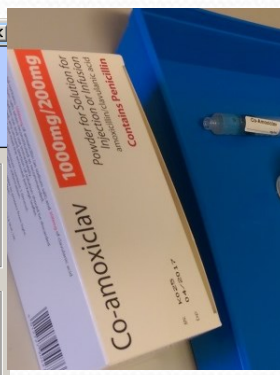
\*Performed by: Hall NMP TEST, Will

Witnessed by: [ ]

Care Admin Reason: [ ] [Trend](#)

Scan Unrecognised Barcode: **Loose Dose Units**  
No Barcode on Original Pack  
Barcode Not Recognised  
Barcode Damaged  
Other Document in Comment [Trend](#)

Self/Carer Administration: [ ] [Trend](#)



\*Rivaroxaban 15 mg Volume: 0 ml

Diluent: <none> ml

\*Route: Oral Site: [ ]

Total Volume: 0 Infused Over: 0 minute

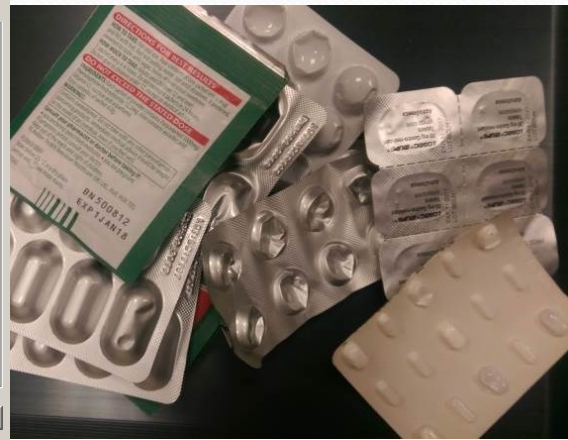
08/Oct/2015	08/Oct/2015	08/Oct/2015	08/Oct/2015	08/Oct/2015
1700 BST	1800 BST	1900 BST	2000 BST	2100 BST

Not Given

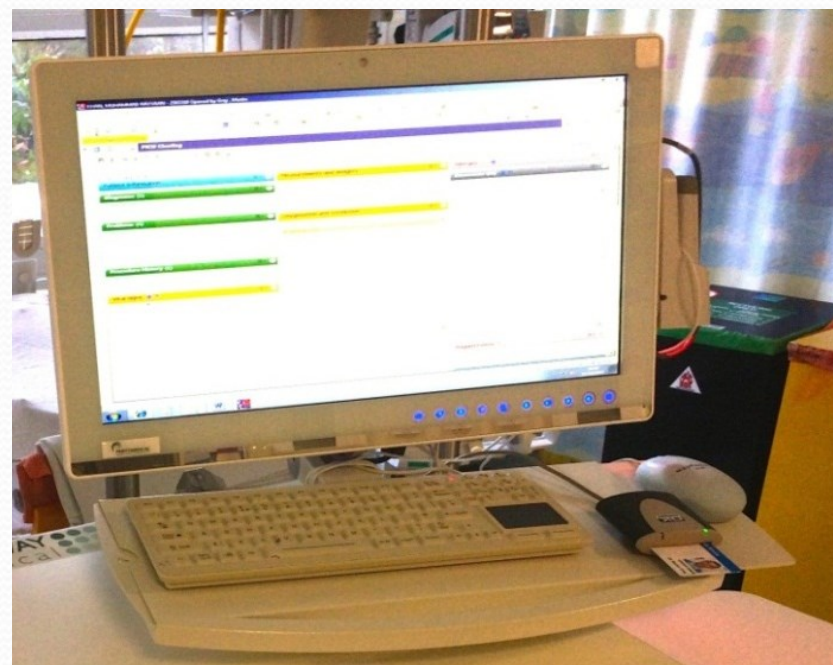
Reason: [ ]

Comment: [ ]

OK Cancel



# Hardware



# Reporting

MED	FORM	ROUTE	DOSE	UNITS	DATE	TIME	NURSE	NUR SI	MEDICATION SCANNED	WRISTBAND SCANNED	PRODUCT BARCODE	CARE ADMIN REAS
Paracetamol	Suppository	Rectal	120 mg		04.10.15	15:34:17	Bhatti , Bian Liu	###	Yes	Yes		
Paracetamol	Liquid	Enteral tube	60 mg		27.09.15	09:22:38	Reardon , Leigh-Anne	###	Yes	Yes		
Paracetamol	Liquid	Enteral tube	60 mg		28.09.15	20:39:02	Reardon , Leigh-Anne	###	Yes	Yes		
Paracetamol	Liquid	Enteral tube	60 mg		29.09.15	08:22:15	Rhodes , Josephine Am	###	No	Yes		No Barcode on Original
Paracetamol	Liquid	Enteral tube	60 mg		30.09.15	13:38:11	Mahon , Danielle Louis	###	Yes	Yes		
Paracetamol	Liquid	Enteral tube	60 mg		02.10.15	03:09:01	Reardon , Leigh-Anne	###	Yes	Yes		
Potassium chloride	Liquid	Enteral tube	7 mmol		27.09.15	01:01:37	Ahmed , Sumaya Said	###	No	Yes		No Barcode on Original
RJ7 NeuroDayUn		1	107	108	99%	RJ7 NeuroDayUn		109	109	100%		

Measure	Total
Medications Administered	1,381,520
Patient Mismatches	4,635
Medication Mismatches	19,162

# National Strategy

**INDEPENDENT** News Voices Culture Lifestyle Tech Sport

Health News

## Every hospital patient will be given a barcode as part of plan to create a 'paper free' NHS

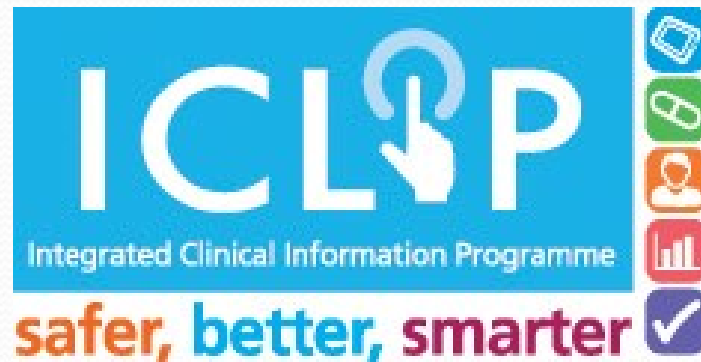
Proposal for appointments and prescriptions to be arranged via phone apps



dictionary of  
medicines + devices

# Lessons Learnt

- Develop Reporting Early – Provide real time information to your Nursing leads to drive adherence
- Publicise the good catches
- Move the medicines to the patient
- Use Scanning Champions to support
- Training at the bedside is more effective
- A quick responsive service desk is a necessity
- Workflow challenges with global model
- Integration with stock control is a requirement?



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