

Northumbria Healthcare
NHS Foundation Trust

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PEOPLE CARING FOR PEOPLE

Exploring Digital Data – Medicines Safety and beyond

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Exploring Digital Data – Medicines Safety and Beyond



Pharmacy department
Southampton Pharmacy Research Centre (SPRC)

University Hospital Southampton NHS Foundation Trust

One + all | we care

Royal Cornwall Hospitals NHS Trust

Exploring Digital Data – Medicines Safety and Beyond

Care + Compassion | Inspiration + Innovation | Working Together | Pride + Achievement | Trust + Respect

Andy Fox – Consultant Pharmacist Medicines Safety, University Hospital Southampton NHS Trust

Mike Hardy – Pharmacy Technician Team Leader – Informatics, Northumbria Healthcare NHS Trust

Liam Bastian – Lead Pharmacist for Digital Medicines, Royal Cornwall Hospitals NHS Trust

Learning Objectives

- Learn about action you can take in advance of EP implementation to help reduce errors
- Learn about using EP data to help prioritisation for pharmacy staff
- Learn how data can be used to drive improvement and support staff deployment and decision making

Starting off – where to begin?

Instant fixes:

- Illegible handwriting
- Latin Abbreviations – OD, TDS, PRN, Gutte, nocte
- Incomplete prescriptions – signature, dose, frequency

Configuration:

- Interaction checking
- Dose range changed
- Rules/alerts

Sources of Data

Incident data – rich source of information/human factors
e.g. Methotrexate and Trimethoprim

Methotrexate ONCE a day

Incident	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Methotrexate (Rx once a day)	3	3	3	0	1	1	0	0	0	1 (op)
Methotrexate & Trimethoprim	1	2	3	0	3	2	2	0	0	1

- Never Events
- SafeMed Alerts
- NHS Patient Safety Alerts
- ePRaSE
- ePrescribing Masterclass

Live pages for pharmacy workload management

RCH Pharmacist Friend



Royal Cornwall Hospitals NHS Trust

Worklist

TTOs needing screening: 0 POP Orders Outstanding: 4

Pharmacist's Friend

data from: 13/04/2022 07:33

EXAMPLE WARD 1

Consultant	Bed	EDD	CR No	Patient Name	C L D	Chart Acuity	Med rec status	Drug Miss	PTA	CT	Covid	Excepts				Thromb Alerts	High Risk Drugs	Warf	Formul	OS	Immuno-critical suppress	Meds	First Dose Check	Un-v excl	IP susp	Out Rx in 7 TOC mths
												AKIGFR*	INR	TDME	lec											
xxxxxx	C6	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	13	N/A	12/04/2022					>90					CP									3
xxxxxx	SR2	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	10	N/A	12/04/2022					2	39	1.0			C									10
xxxxxx	D2	14-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	7	N/A	11/04/2022					72	1.1				C									10
xxxxxx	B4	14-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	13	N/A	11/04/2022					60	0.9				C					1				9
xxxxxx	SR3	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	10	N/A	11/04/2022					HD	1.1				CEI									13
xxxxxx	SR4	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	13	N/A	11/04/2022					59	1.4				C									5
xxxxxx	C5	14-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	28	<1d	11/04/2022					25	1.1				C			OS!						14
xxxxxx	C3	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	9	<1d	11/04/2022	NEW				2	80	0.9			CG									8
xxxxxx	A3	12-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	3	<1d	11/04/2022	COMPLETE				2	25	0.8			C									3
xxxxxx	A6	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	13	N/A	11/04/2022	NEW				63	1.4				C									18
xxxxxx	D3	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	6	<1d	11/04/2022	COMPLETE				62	1.2				C									4
xxxxxx	A4	13-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	2	<1d	10/04/2022	COMPLETE				89					C									4
xxxxxx	D6	12-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	4	<1d	10/04/2022	COMPLETE				55					C									4
xxxxxx	A2	12-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	2	<1d	10/04/2022	COMPLETE					1.2				C					1	1st			1
xxxxxx	C2	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	2	1d	09/04/2022	COMPLETE				68*					C									1
xxxxxx	B5	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	3	<1d	09/04/2022	COMPLETE				81					ICE					2				2
xxxxxx	D4	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	3	<1d	09/04/2022	COMPLETE				∞	31	1.1			CE									3
xxxxxx	D5	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	5	<1d	09/04/2022	COMPLETE				81	1.7				C									3
xxxxxx	A1	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	3	<1d	09/04/2022	COMPLETE				39	1.1				ACEI									1
xxxxxx	D1	11-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	3	<1d	08/04/2022	COMPLETE				1	7	0.9			C									1
xxxxxx	B3	10-Apr-2022	xxxxxx	xxxxxxxxxxxx, xxxxxxxxxxxxxxx	2	1d	07/04/2022	COMPLETE				>90	0.9				C									3

Pharmacy Portal - UHS

Prioritisation
(no drugs = red)

DHx area Alert Area Activity Area Jumps

Patient	Dhx FU	Dhx	Priority Patients	Alerts	Aki	Missed Dose	Crit Suspended	Last Seen	Seen	Comment	Results	MedRec	Order	
Side: A	11	12	13	14	15	16	17	18	19	20	21	22	23	24
[Redacted]		R	[Green]	!			0	29/05/2020 13:32 vickem	<input type="checkbox"/>		Show	Show		
[Redacted]		R	[Green]				0		<input type="checkbox"/>		Show	Show		
[Redacted]		O	VANCOMYCIN, IV ABX (4) 02/06	!			0	29/05/2020 11:25 shephm1	<input type="checkbox"/>		Show	Show		
[Redacted]		R	APIXABAN			!	1		<input type="checkbox"/>		Show	Show		
[Redacted]	#	O	[Green]		3		0	29/05/2020 11:26 shephm1	<input type="checkbox"/>	V Low eGFR. Awaiting	Show	Show		
Percent Unverified = 41							1							
	25						26							

Ward dashboard

Ward Dashboard

data last updated: 31/03/2022 06:08

AMU 1 RCH

Meds Rec Completed	Inpatient Items Verified	Patients
84.20% (10 outstanding)	77.14% (188 to verify)	28

CCNORTH

Meds Rec Completed	Inpatient Items Verified	Patients
50.00% (2 outstanding)	0.00% (4 to verify)	4

CCU, RCH

Meds Rec Completed	Inpatient Items Verified	Patients
80.00% (2 outstanding)	88.12% (94 to verify)	10

CMDU WARD

Meds Rec Completed	Inpatient Items Verified	Patients
0.00% (8 outstanding)	100.00% (0 to verify)	6

EDEN WARD

Meds Rec Completed	Inpatient Items Verified	Patients
85.42% (13 outstanding)	88.42% (130 to verify)	24

ESU

Meds Rec Completed	Inpatient Items Verified	Patients
22.22% (14 outstanding)	28.57% (100 to verify)	18

GRENVILLE RENAL

Meds Rec Completed	Inpatient Items Verified	Patients
87.00% (2 outstanding)	86.84% (190 to verify)	25

KYNANCE UNIT

Meds Rec Completed	Inpatient Items Verified	Patients
75.00% (3 outstanding)	82.62% (114 to verify)	20

MEDICAL 1 WCH

Meds Rec Completed	Inpatient Items Verified	Patients
100.00% (0 outstanding)	85.00% (120 to verify)	26

PENDENNIS WARD

Meds Rec Completed	Inpatient Items Verified	Patients
91.43% (1 outstanding)	71.43% (112 to verify)	23

AMU 2 RCH

Meds Rec Completed	Inpatient Items Verified	Patients
89.20% (8 outstanding)	85.00% (124 to verify)	26

CCSOUTH 4 BED

Meds Rec Completed	Inpatient Items Verified	Patients
33.33% (2 outstanding)	0.00% (3 to verify)	8

CIU, RCH

Meds Rec Completed	Inpatient Items Verified	Patients
85.00% (2 outstanding)	84.44% (13 to verify)	20

DISCHARGE LOUNG

Meds Rec Completed	Inpatient Items Verified	Patients
72.72% (2 outstanding)	45.00% (20 to verify)	9

EPOC WARD

Meds Rec Completed	Inpatient Items Verified	Patients
45.45% (8 outstanding)	86.36% (111 to verify)	11

GASTRO UNIT

Meds Rec Completed	Inpatient Items Verified	Patients
87.50% (2 outstanding)	84.07% (58 to verify)	28

KERENSA WARD

Meds Rec Completed	Inpatient Items Verified	Patients
100.00% (0 outstanding)	82.00% (126 to verify)	22

LOWEN WARD

Meds Rec Completed	Inpatient Items Verified	Patients
83.33% (3 outstanding)	78.86% (27 to verify)	18

MEDICAL 2 WCH

Meds Rec Completed	Inpatient Items Verified	Patients
100.00% (0 outstanding)	89.00% (127 to verify)	25

PHOENIX WARD

Meds Rec Completed	Inpatient Items Verified	Patients
82.61% (4 outstanding)	77.55% (56 to verify)	23

Specialty specific pages for different teams

Abx

Current inpatient antibiotic and antifungal prescriptions

high risk antibiotics highlighted in yellow
suspended medicines in amber

data last updated: 31/03/2022 06:48

AMU 1 RCH

Patient	IV abx course start hrs	Drug description	Dose	Route	Frequency	First dose	Stop date	Protocol	Indication
	31/03/2022 02:30 4.30	MEROPENEM 500 mg Injection	500 mg	intravenous	every EIGHT hours	31/03/2022 02:30			ind, rv date ind: lrti, cholecystitis, escalation as deteriorating pt, rv 24hrsind, rv date
		METRONIDAZOLE 500 mg in 100mL intravenous infusion	500 mg	intravenous	THREE times a DAY (6am 2pm 10pm)	25/03/2022 22:00			
	29/03/2022 16:29 36.32	PIPERACILLIN with TAZOBACTAM 4.5g Injection	4500 mg	intravenous	every EIGHT hours	29/03/2022 16:29			SEVERE COPD - INFECTIVE ELEMENT SEVERE COPD - INFECTIVE ELEMENT PLEASE REVIEW DAILY AND CONSIDER PO SWITCH AS SOON AS APPROPRIATE
	29/03/2022 18:00 36.80	FLUCLOXACILIN 1g Injection	2000 mg	intravenous	FOUR times a day (midnight, 6am, 12pm, 6pm)	29/03/2022 18:00			
	29/03/2022 14:00 40.80	PIPERACILLIN with TAZOBACTAM 4.5g Injection	4500 mg	intravenous	THREE times a DAY (6am 2pm 10pm)	29/03/2022 14:00			Taz sepsis ?source rv 24hrs Taz
	22/03/2022 14:00 208.80	AMOXICILLIN 500 mg Capsules	500 mg	oral	THREE times a DAY (Morning, Lunchtime + Night)	28/03/2022 13:00			
		DOXYCYCLINE 100 mg Capsules	100 mg	oral	ONCE a DAY in the MORNING	29/03/2022 07:30			

Insulin

Active inpatients with insulin prescriptions

data from: 31/03/2022 05:55

This information must be treated confidentially and not shared outside of
Royal Cornwall Hospitals Trust

For rapid/ short acting insulins, hazards are recorded if admin occur:
before 07:00, 08:30 to 12:00, 14:00 to 17:00, after 18:30.
Sulfonylureas and Metformin: before 06:30 or after 18:00

SWP Bed	Patient	Currently Prescribed Insulin	Self Admin	GFR	A1C	Alert Details
AMU 1 RCH						
TRAMU1 D4		gliCLAzide 80mg Tablets dose: 160 mg TWICE a DAY (Morning + Evening) - SUSPENDED ABASAGLAR (Glargine)100units in 1mL Pre-Filled KwikPen dose: 10 unit ONCE a DAY in the MORNING novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) dose: 6 unit every FOUR hours PRN novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) dose: 4 unit every FOUR hours PRN		>90 29/03/2022	162 22/03/2022	4 unit of novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) administered 30/03/2022 22:37 6 unit of novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) administered 30/03/2022 22:37 Missed dose(s) of ABASAGLAR (Glargine)100units in 1mL Pre-Filled KwikPen: 30/03/2022 07:30 Drug discontinued
TRAMU1 B3		METFORMIN 500 mg Modified-Release Tablets dose: 500 mg ONCE a DAY in the EVENING METFORMIN 500 mg Modified-Release Tablets dose: 1000 mg ONCE a DAY in the MORNING		63 27/03/2022	51 22/03/2022	
TRAMU1 D5		METFORMIN 500 mg Tablets dose: 500 mg THREE times a DAY (Morning, Lunchtime + Evening) - SUSPENDED		23 30/03/2022	46 20/10/2021	
TRAMU1 B6		gliCLAzide 80mg Tablets dose: 80 mg ONCE a DAY in the MORNING - SUSPENDED ABASAGLAR (Glargine)100units in 1mL Pre-Filled KwikPen dose: 18 unit ONCE a DAY in the MORNING METFORMIN 500 mg Tablets dose: 500 mg TWICE a DAY (Morning + Lunchtime) - SUSPENDED SLIDING SCALE INSULIN (ADULT) - SEE SLIDING SCALE CHART dose: 1 Infusion SEE INFUSION SHEET novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) dose: 6 unit every FOUR hours PRN novoRAPID 100units in 1mL vial (PRN for HYPERGLYCAEMIA) dose: 4 unit every FOUR hours PRN		42 30/03/2022	80 29/03/2022	Missed dose(s) of ABASAGLAR (Glargine)100units in 1mL Pre-Filled KwikPen: 29/03/2022 19:30 Contraindicated patient factors Missed dose(s) of SLIDING SCALE INSULIN (ADULT) - SEE SLIDING SCALE CHART: 29/03/2022 06:00 Drug awaiting medical review 30/03/2022 06:00 Patient declined dose

Trackers for specific issues

Opiates and eGFR/Respiratory rate

Current Inpatients prescribed Opiates started or modified in the last 2 days with an eGFR < 50 ml/min/1.73m

2

Data from: 31/03/2022 05:42:56

Hosp.No	Surname	Ward	eGFR	Respiratory Rate	Drug	Dose	Start date	Prescriber
		AMU 1 RCH	23	16 (31/03 02:35)	CODEINE PHOSPHATE 15 mg Tablets	15 mg every FOUR hours	29/03/2022 14:22	
		AMU 1 RCH	21	24 (30/03 06:37)	OXYCODONE 10 mg in 1mL Injection	1 mg every hour	30/03/2022 09:26	
		AMU 1 RCH	30	18 (31/03 03:15)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	10 mg every FOUR hours	29/03/2022 12:19	
		AMU 2 RCH	40	20 (31/03 05:07)	CODEINE PHOSPHATE 30 mg Tablets	60 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	30/03/2022 05:48	
		AMU 2 RCH	27	N/A	OXYCODONE 10 mg in 1mL Injection	1 mg every hour	29/03/2022 13:09	
		AMU 2 RCH	24	19 (31/03 04:33)	BUPRENORPHINE 10 micrograms/hour Patch (NF)	1 Patch ONCE a WEEK	30/03/2022 07:30	
		AMU 2 RCH	11	14 (31/03 02:00)	CODEINE PHOSPHATE 15 mg Tablets	15 mg every FOUR hours	30/03/2022 20:53	
		DISCHARGE LOUNG	37	15 (31/03 05:25)	CODEINE PHOSPHATE 15 mg Tablets	15 mg every FOUR hours	29/03/2022 23:42	
		DISCHARGE LOUNG	27	15 (31/03 05:33)	CODEINE PHOSPHATE 30 mg Tablets	60 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	29/03/2022 21:45	
		EDEN WARD	40	14 (31/03 01:22)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	10 mg every FOUR hours	29/03/2022 11:46	
		EDEN WARD	36	15 (31/03 03:42)	MORPHINE 1mg to 20mg titrated to pain (in recove	20 mg Titrated to pain as per protocol	30/03/2022 10:09	
		EDEN WARD	20	15 (31/03 05:27)	OXYCODONE 10 mg in 1mL Injection	1 mg every hour	29/03/2022 12:23	
		EMERGENCY DEPT	23	24 (31/03 03:01)	CODEINE PHOSPHATE 30 mg Tablets	60 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	30/03/2022 19:24	
		EMERGENCY DEPT	6	15 (30/03 03:09)	OXYCODONE (IMMEDIATE RELEASE) 5mg/ 5mL Oral	5 mg every FOUR hours	30/03/2022 04:15	
		EMERGENCY DEPT	29	16 (31/03 04:43)	CODEINE PHOSPHATE 30 mg Tablets	60 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	30/03/2022 16:34	
		EMERGENCY DEPT	37	18 (30/03 19:45)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	2.5 mg every TWO hours	30/03/2022 16:44	
		EMERGENCY DEPT	37	19 (31/03 02:16)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	5 mg every hour	30/03/2022 02:57	
		ESU	24	20 (31/03 05:27)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	10 mg every TWO hours	31/03/2022 04:18	
		ESU	43	15 (31/03 05:15)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	10 mg every hour	29/03/2022 21:25	
		GRENVILLE RENAL	44	20 (31/03 03:56)	OXYCODONE (IMMEDIATE RELEASE) 5mg Capsules	5 mg every FOUR hours	30/03/2022 15:23	
		GRENVILLE RENAL	39	19 (30/03 23:53)	OXYCODONE (IMMEDIATE RELEASE) 5mg/ 5mL Oral	5 mg every FOUR hours	30/03/2022 11:53	
		GRENVILLE RENAL	10	16 (31/03 05:36)	HYDROMORPHONE 1.3 mg Capsules	2.6 mg every FOUR hours	29/03/2022 09:10	
		GRENVILLE RENAL	45	20 (31/03 04:29)	MORPHINE SULPHATE 10mg in 5mL Oral Liquid	5 mg every FOUR hours	30/03/2022 15:32	
		GRENVILLE RENAL	40	16 (31/03 05:31)	CODEINE PHOSPHATE 30 mg Tablets	30 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	29/03/2022 11:17	
		HARBOUR - CATU	33	N/A	MORPHINE SULPHATE 10 mg in 1mL Injection	5 mg every hour	29/03/2022 16:54	
		KERENSA WARD	45	17 (30/03 21:10)	OXYCODONE (SLOW RELEASE) 20mg MR Tablets	20 mg every 12 hours (8am + 8pm)	31/03/2022 20:00	
		MEDICAL 2 WCH	24	20 (30/03 22:35)	OXYCODONE (IMMEDIATE RELEASE) 5mg/ 5mL Oral	5 mg every FOUR hours	29/12/2021 11:47	
		MEDICAL 2 WCH	15	28 (30/03 15:49)	OXYCODONE 10 mg in 1mL Injection	1 mg every hour	29/03/2022 14:06	
		TRAUMA UNIT 1	31	18 (31/03 02:16)	OXYCODONE (IMMEDIATE RELEASE) 5mg Capsules	5 mg every FOUR hours	29/03/2022 15:56	
		TRAUMA UNIT 1	43	19 (31/03 02:41)	DIHYDROCODEINE 30 mg Tablets	30 mg FOUR times a DAY (Morning, Lunch, Evening + Night)	29/03/2022 13:00	
		TRAUMA UNIT 2	18	18 (31/03 04:32)	OXYCODONE (IMMEDIATE RELEASE) 5mg Capsules	5 mg every FOUR hours	29/03/2022 11:15	
		TRELAWNYTHEATRE	11	N/A	OXYCODONE (IMMEDIATE RELEASE) 5mg/ 5mL Oral	5 mg every FOUR hours	29/03/2022 16:23	
		WELLINGTON	30	18 (31/03 05:36)	OXYCODONE (IMMEDIATE RELEASE) 5mg/ 5mL Oral	2.5 mg every FOUR hours	30/03/2022 20:20	

Clinical Surveillance - anticoagulants

Clinical Surveillance 25/03/2022 07:54

Please check that prescriptions for multiple anticoagulants are appropriate and/ or that females prescribed valproate are aware of the dangers to pregnancy.
 Note: twice a day doses of LMWH (excl. Apixaban and Rivaroxaban) are now included due to change in VTE doses for covid patients

Current inpatients with more than one anticoagulant prescribed

hosp no	consultant	ward	bed	INR	INR date	anticoagulants prescribed	stopped or disc'd admin	gender	birth gender	age	dob	weight
XXXXXXXX	XXXXXXXXXX	KYNANCE UNIT	SR1	1.2	21/01/2022	APIXABAN 5 mg Tablets TWICE a DAY (Morning + Evening) + DALTEPARIN 5000 units in 0.2mL Pre-filled Syringe ONCE a DAY at NIGHT	M	70	22/01/1952			44.8 kg - Actual measurement on 25/01/2022
XXXXXXXX	XXXXXXXXXX	ST MICHAELS	F4	1.6	19/03/2022	WARFARIN FOR INPATIENTS MAINTENANCE ONCE a DAY at 2pm (For Warfarin Only) + DALTEPARIN 5000 units in 0.2mL Pre-filled Syringe ONCE a DAY at NIGHT	F	87	19/06/1934			no measurement currently recorded
XXXXXXXX	XXXXXXXXXX	ST MICHAELS	F2	1.2	17/03/2022	RIVAROXABAN 20 mg Tablets ONCE a DAY in the MORNING + DALTEPARIN 5000 units in 0.2mL Pre-filled Syringe ONCE a DAY at NIGHT	F	F	89	26/11/1932		no measurement currently recorded

Running since Jan 2020

Takes 5mins/day to check

Picked up 153 errors (to Mar 2022)

Median time for error detection (all) unchanged ~ 7h

Number of errors (>2 doses) reduced 46%

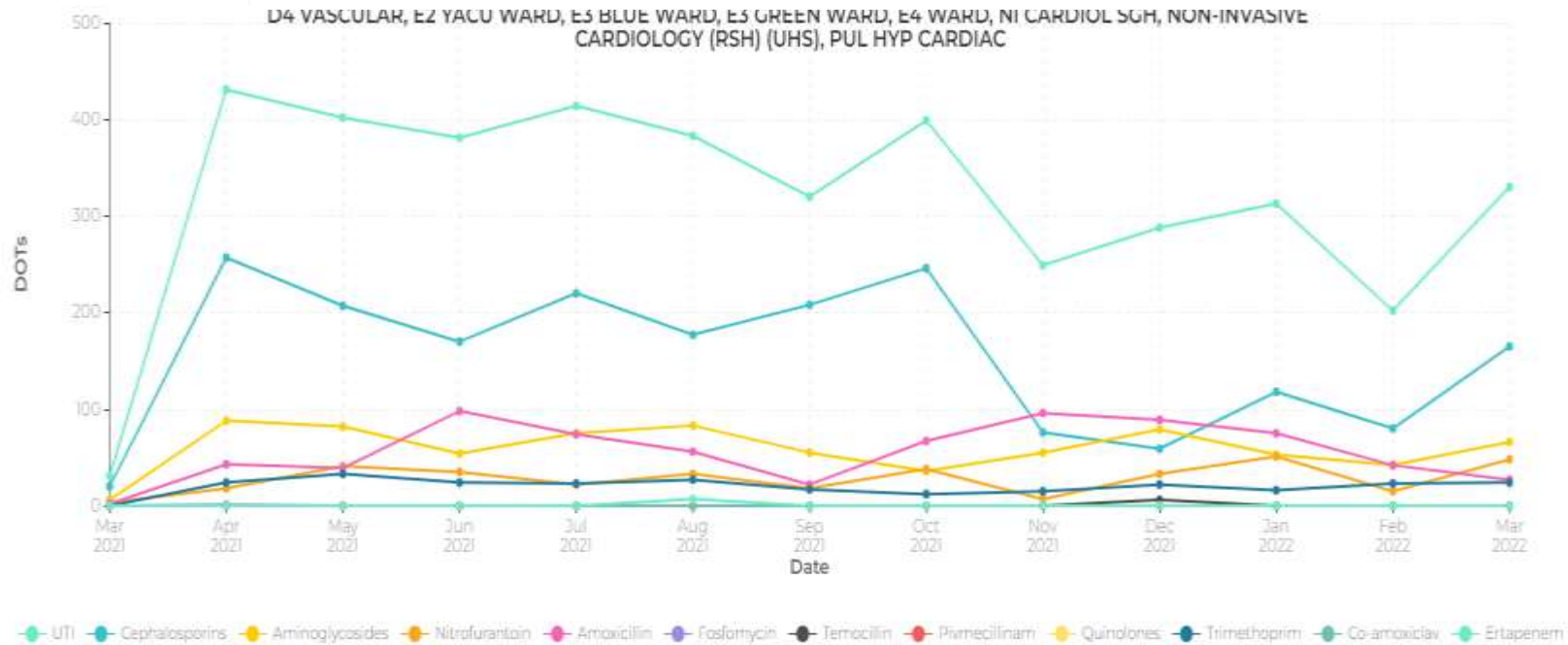
Median time for errors (>2 doses) reduced from 34h to 14h

Maximum time for error detection reduced from 320h (13 days) to 36h (1.5 days)

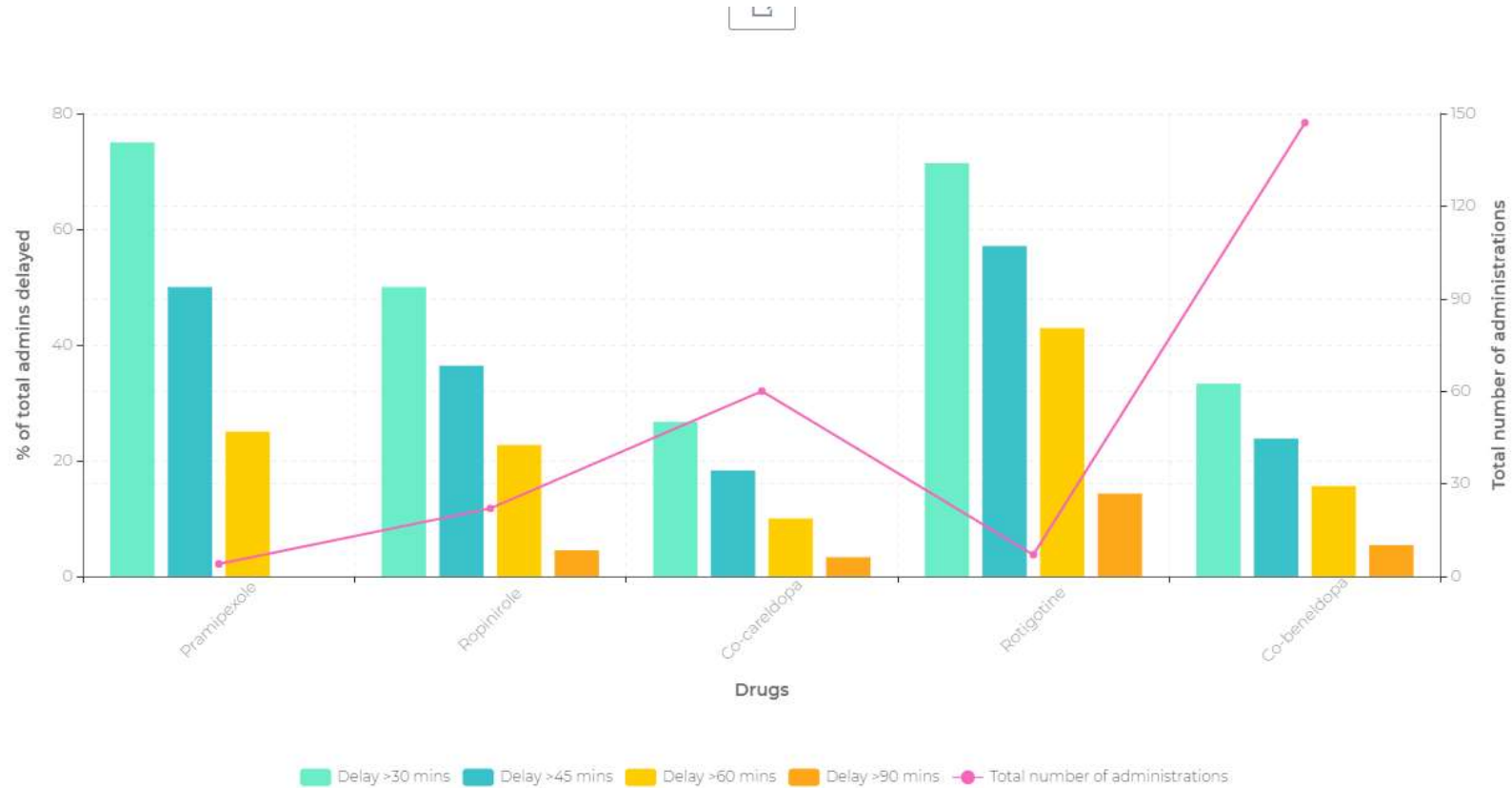
Practicalities

- When to send data
- How often can you refresh a report?
- Types of data display – keep simple
- Prioritisation

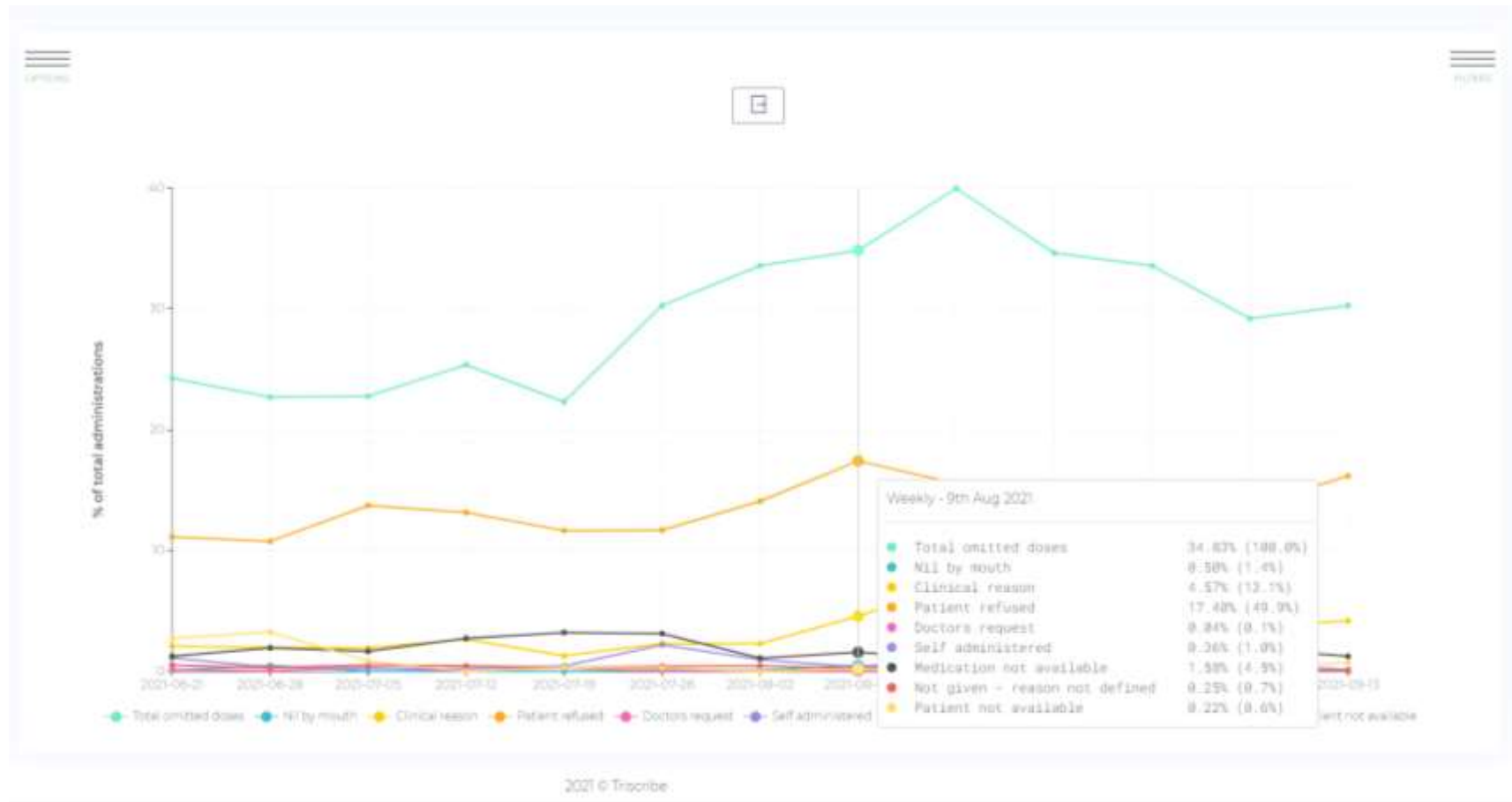
Trends – Antimicrobials



Trends – Timeliness of doses



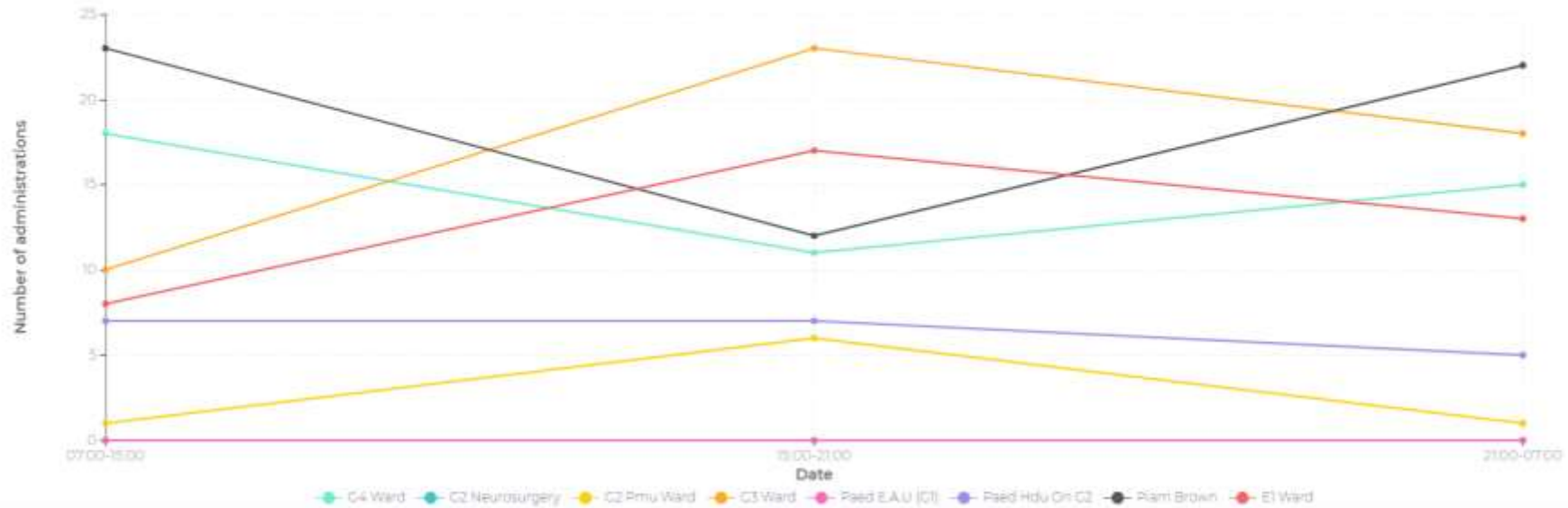
Trends – Omitted doses



Skill Mix - IV admin

Shift levels for Injection Routes between 21 Sep 2021 - 21 Sep 2021 for wards E1 Ward, G4 Ward, G3 Ward, G2 Pmu Ward, Paed Hdu On G2, G2 Neurosurgery, Paed E.A.U (G1), Plam

Brown



Pharmacy department

Southampton Pharmacy Research Centre (SPRC)

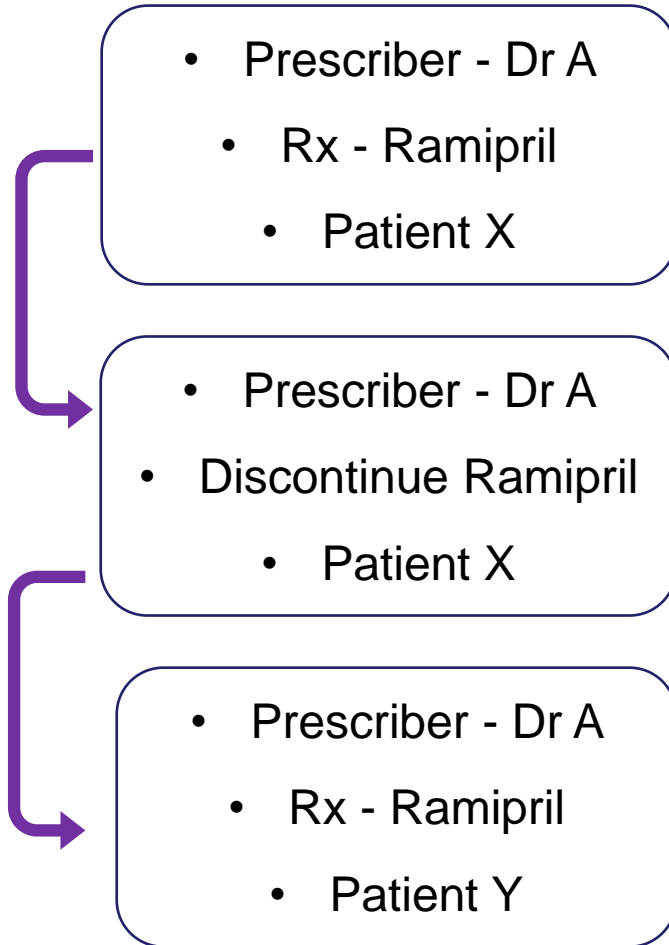


THE UNIVERSITY
of EDINBURGH



University Hospital Southampton NHS
NHS Foundation Trust

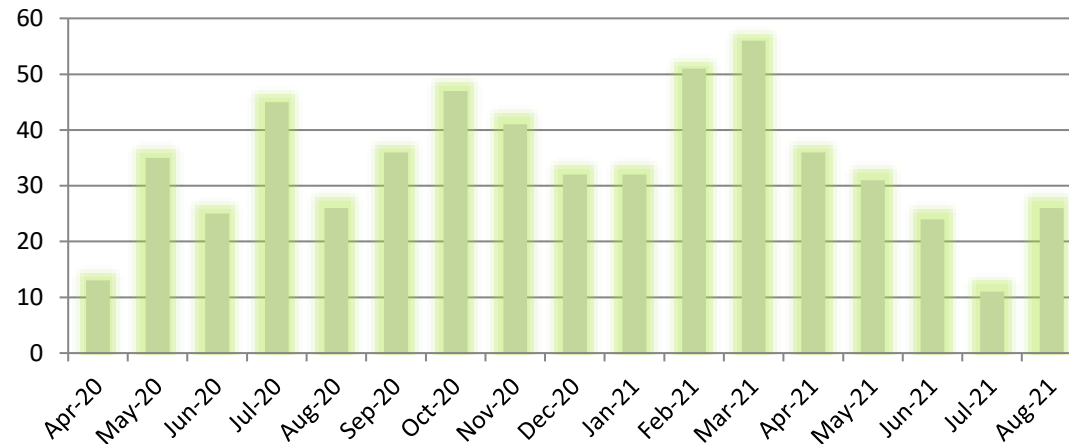
Retract and Re-prescribe (RAR)



Wrong Patient Selection Errors

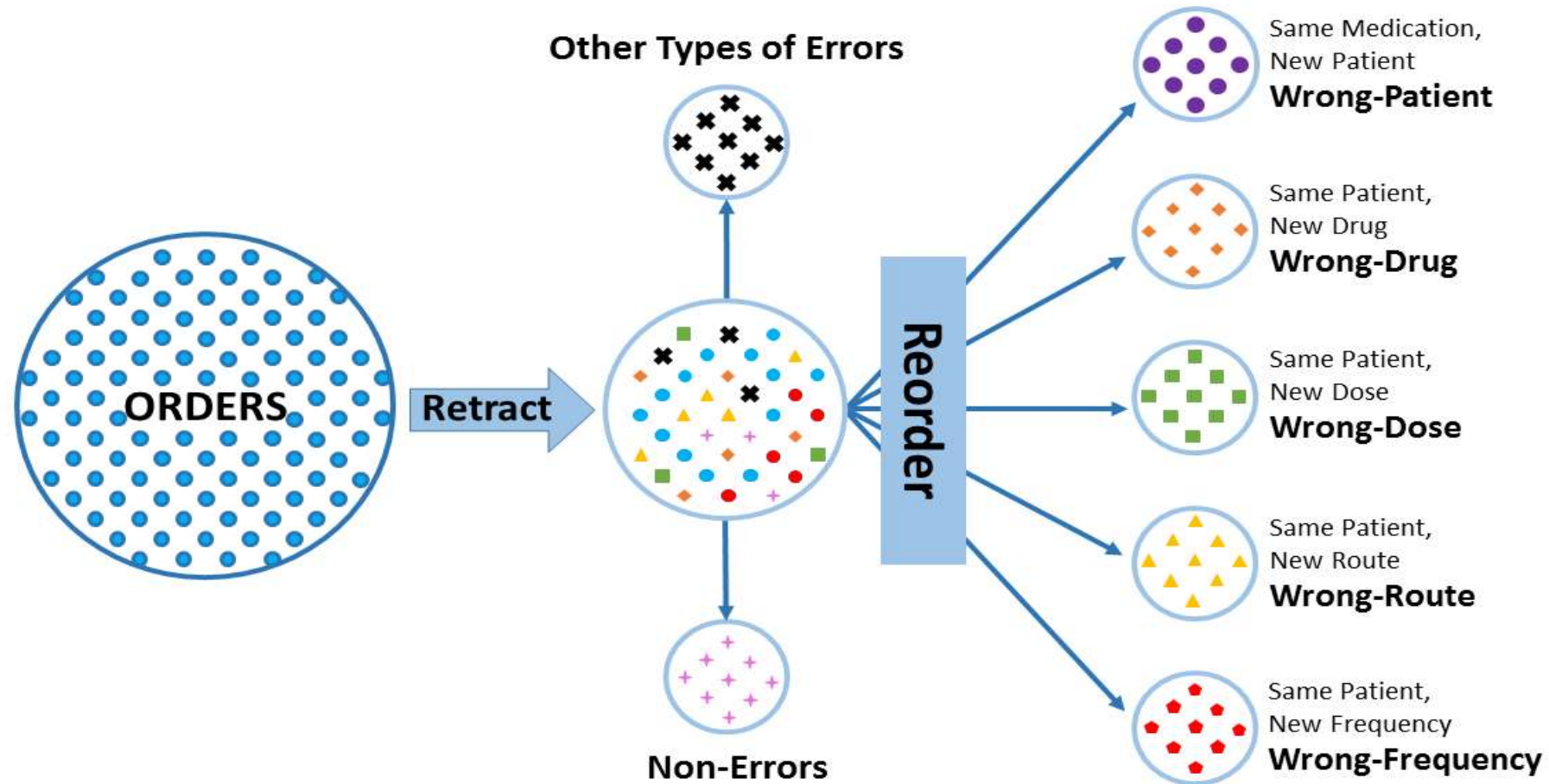
- Why?
- Similar names/locations/drugs
- Corrective Action
- UK/hospital based definitions?

RAR. Number of instances



Not Just Wrong Patient

Develop and Validate Health IT Safety Measures to Capture Violations of the 5 Rights of Medication Safety



**Thanks for listening.
Any questions?**



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