

GS1 UK Healthcare Conference

Andrew Smith, HSSU Manager







- Introduction
- Overview of the National HSE programme
- Background to implementing GS1
- The process at SJH
- Benefits and learnings
- Next steps









July 2013

Crumlin hospital apologises for contamination scare



Thursday 25 July 2013 22.21



"Hospital has apologised to 18 families who were wrongly identified as being at the centre of a contamination scare over a medical scope"

Track and Trace?



Our Lady's Children's Hospital, Crumlin has apologised to 18 families who were wrongly identified as being at the centre of a contamination scare over a medical scope.









July THE IRISH TIMES

Helpline for patients with CJD concerns attracts 1,300 calls

Fri, Jul 19, 2013, 15:39

Between 10 and 20 patients operated on with instruments used on patient with disease

"The HSE will contact up to 20 patients who were operated on using instruments which had been used on a patient who has been diagnosed with CJD disease"

Track and Trace?



The HSE will contact up to 20 patients were operated on using instruments which had been used on a patient who has been diagnosed at Beaumont Hospital with Creutzfeldt-Jakob (CJD) disease Photograph: Dara Mac Dónaill/The Itish Times









"Systems should be in place to record the decontamination process used on RIMD (tracking) and link them with service users on which they have been used (tracing)"

HSE Recommended Practices for Central Decontamination Units. Version 2.0, 2011

Project started in May 2008 – 1st "Go Live" site was St. James's Hospital in July 2011







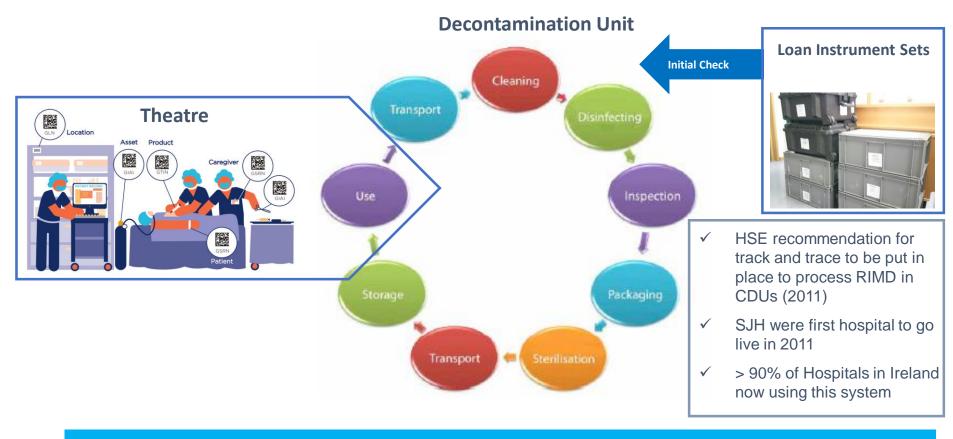
2012 2013 2015/16 2017/18 2008 2011 2014 **GO LIVE** Phase 1 Phase 2 Phase 2 Phase 2 Phase 2 Phase 3 **Project** 8 CDUs **Business Case GO LIVE GO LIVE GO LIVE Business** case SJH first 5 CDUs 7 CDUs 8 ERUs Remaining CDUs and **Kickoff** (including hospital to **Endoscopy**) 10 ERUs 9 ERUs ERUs (10% volume) - Commercial loan set **GoLive Approval Completion of** GO! Procurement/ Phase 2 providers **Finance** - Private Hospitals

- Only National Traceability Solution in the world (both trays and endoscopes)
- 90% of volume will be utilising the solution by end 2015 (32 Hospitals)
- Patient Safety was the key reason for implementation :





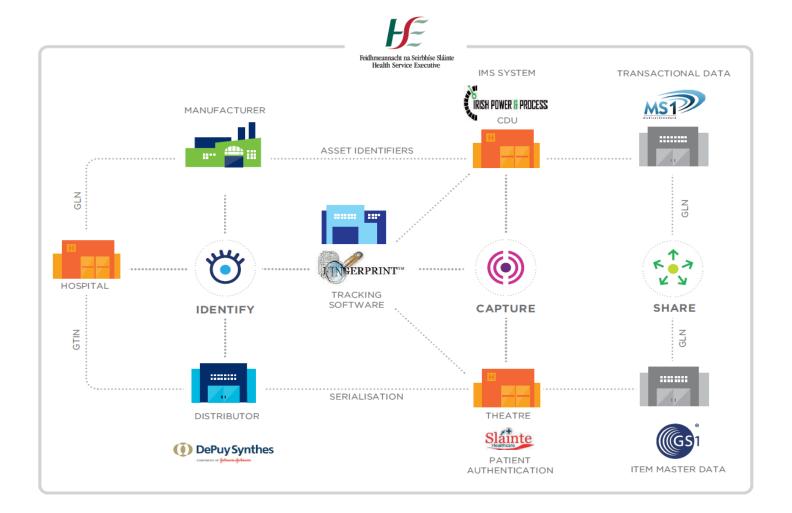
Process overview - HSSU





















Manual Check

After



Information available:

- Electronically & Post-event
- Dataloggers linked to tracking system





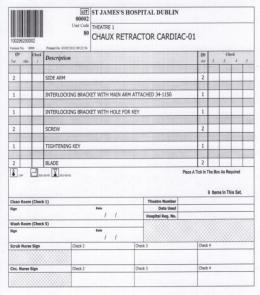
Instrument set lists





After: Scan of barcode and set list automatically printed





After

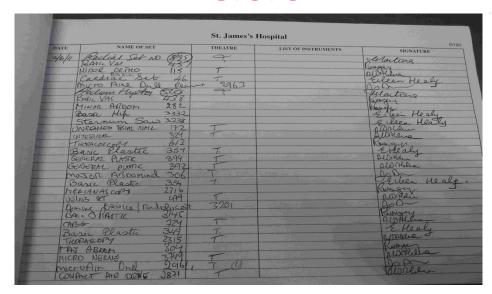
- Electronic (list printed when barcode is scanned)
- No need to search in cabinet
- No confusion on document version











Paper based

After

To: 05/04	/2012				
01:Packi	ng Detail				
Unknowr	п Туре				
Barcode	UserCode	Operator	Date In	Time In	Description
100398700044	531	EILEEN H	05/04/2012	08:13:31	GYNAE LAPAROSCOPY SET-01
100458400011	2772	LINDA R	05/04/2012	08:54:05	30° LENS 4MM WOLF 433424 DSC
100457900012	2130	LINDA R	05/04/2012	09:01:13	0° LENS 4MM WOLF 427581 DSC
100458500018	2781	LINDA R	05/04/2012	09:05:31	30° LENS 4MM WOLF 433413 DSC
100460500024	4030	LINDA R	05/04/2012	09:08:52	HYSTEROSCOPE & SHEATH 5000193167 DSC
100303600088	2609	EILEEN H	05/04/2012	10:41:07	GENERAL LAPAROSCOPY SET NEW-01
100455100026	3768	LINDA R	05/04/2012	10:44:50	0° LENS 10MM WOLF 5000171714 DSC
100375400073	2938	PAUL R	05/04/2012	11:42:50	GENERAL LAPAROSCOPY SET NEW-06
100452500029	3195	ANTHONY C	05/04/2012	12:11:05	0° LENS 5.3MM WOLF 468796
100454900009	3177	LINDA R	05/04/2012	14:15:57	30° LENS 10MM WOLF 436023 DSC
100475700020	6024	LINDA R	05/04/2012	14:16:29	0° LENS 5MM STORZ 1127861 DSC
100375200071	2936	DOROTA S	05/04/2012	14:31:34	GENERAL LAPAROSCOPY SET NEW-04
100321000006	2393	JOSEPHINE D	05/04/2012	17:12:41	NEPHROSCOPE
100453000042	3194	DEIRDRE C	05/04/2012	17:29:14	30° LENS 10MM WOLF 457074
100452400009	3304	DEIRDRE C	05/04/2012	17:33:15	0º LENS 5MM STORZ 930600
100416900029	3889	JOSEPHINE D	05/04/2012	17:36:06	URETEROSCOPE STRAIGHT TH 10 & 11-04
100453200048	3677	DEIRDRE C	05/04/2012	17:38:59	30° LENS 10MM WOLF 5000145118
100328200015	879	JOSEPHINE D	05/04/2012	17:42:33	WOLF LITHOCLAST FULL SET
100465500034	6000	DEIRDRE C	05/04/2012	17:44:08	30° LENS 4MM ACMI 739453
100453100047	3676	DEIRDRE C	05/04/2012	17:48:29	30° LENS 10MM WOLF 5000145117

Number Of Items: 20

- Electronic
- Post-event can be retrieved at the touch of a button

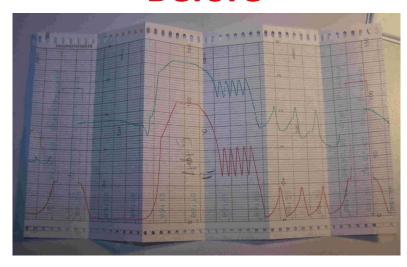




Steriliser Cycle

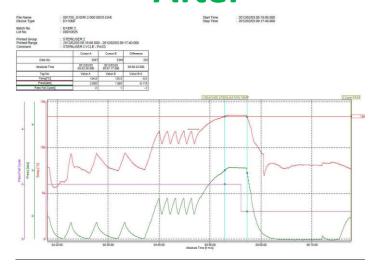


Before



- Paper based
- Reports are subject to deterioration over time

After



- Electronic
- Post-event can be retrieved at the touch of a button (anytime)







Document List Report

Document Number	er: T200242	Patient ID: 1087474	Theatre: THEATRE 2
Document Created By %JESSIE S	Date & Time Created 02/02/2012 14:14:23	Amendments	
Code: 1003567 Lot No: 00035 Quantity: 1 Operator: %JESSIE S	Item: Supplier:	TRACKER BASIC CARDIAC SET-04 STERILE SERVICES	
Code: 1003774 Lot No: 00033 Quantity: 1 Operator: %JESSIE 5	Item: Supplier:	TRACKER CABG SET-05 STERILE SERVICES	
Code: 1004160 Lot No: 00027 Quantity: 1 Operator: %JESSIE S	Item: Supplier:	TRACKER CARDIAC MAMMARY RETRACTOR-03 STERILE SERVICES	
Code: 1003741 Lot No: 00049 Quantity: 1 Operator: %JESSIE 9	Item: Supplier:	TRACKER STERNAL SAW BATTERY POWERED-01 STERILE SERVICES	

Number Of Items:

Document Number: T2	100243	Patient ID: 1087474	Theatre: THEATRE 2
	e & Time Created 02/2012 15:29:26	Amendments	
Code: 1002962 Lot No: 00001 Quantity: 1 Operator: %JENNIFER I	Item:	TRACKER CHAUX RETRACTOR CARDIAC-01 STERILE SERVICES	

Number Of Items:

Total Items:

Electronic

- Post-event Can be retrieved at the touch of a button
- Linked to instrument tracking system





Loan Sets Major challenge for traceability



The Big Challenge!!

- Shared among hospitals (contents always changing)
- Traceability is very challenging
- Can come from a commercial loan set provider or another hospital (often not barcoded)





Loan set – Example

Which loan set would you rather process?

Loan sets with NO barcodes





Loan sets WITH barcodes











Which loan set would you rather process?



Not GS1 Coded



- 30 loan sets
- 60 reprocesses
- Huge paper trail
- Manual tracking
- Very time consuming
- Manual rekeying and transcription of data

Hours

VS

GS1 Coded



- 4 loan sets
- 8 reprocesses
- Huge paper saving
- Electronic tracking
- Very time efficient
- Unique identification of set (GS1 barcode)

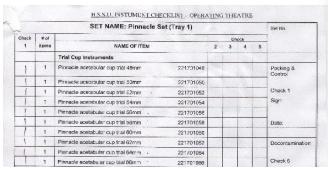








Before



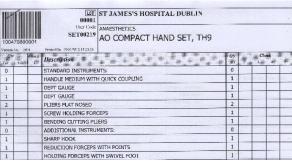


- Paper based (hand written)
- No certainty that list matches tray contents











- Electronic, fully legible
- Up to date
- List can be pulled from MS1 Cloud by scanning the tray/set barcode

DO NOT USE IF PACKING DAMAGED STORE IN A CLEAN, DRY, DUST FREE ENVIRONMENT Transcriptor Kanton de Dayar de Reproduced \$4000 Floorities Medical List			USER CODE SE100219 LOT	PAGE 1 of 2
100	7885-93 2023-93	Place A T	ick in The Box As	Require
1.	LCP BENDING PIN		1	0
1	LCP DRILL SLEEVE		1	
1	SCREWDRIVER SHAFT STARDRIVE & HOLDING SLEE	ZVE	1	
1	UNIVERSAL DRILL GUIDE		1	
0	BOTTOM TRAY:		0	
1	SCREWDRIVER SHAFT STARDRIVE SHORT		1	
1	DRTILL BTT 2.0MM		1	
	DRILL BIT LONG 1.5MM		1	



Hours

Seconds



Loan set – Best Practice Example (PEI)

PEI Loan sets with GS1 barcodes



	DETAILED RETURNS REPORT Date From: 22/03/2016				Date To: 22/03/2016	
3	22-Marci	h-2016				
Time	Barcode	User Code	Description		Qty	Operator
13:01:54	100563000001	ASREXP07IN	ASREXP07IN SET 7, TRAY 4 OF 4		1	CAROLINE F
13:01:54	100553300003	MORUNC02IN	MORUNCO2IN MORELAND UNCEM SET 2, TRAY 1 INSTRUI	MENTS	1	CAROLINE F
13:01:54	100564200000	SROM01IN	SET 1, TRAY 5 OF 7, IMPACTOR/EXTRACTOR INSTS		1	CAROLINE F
13:01:54	100564900000	MOREXT01IN	MORELAND EXTRACTION SET 1, TRAY 1 INSTRUMENTS.		1	CAROLINE F
13:01:54	100564800000	SOLUTN01IN	SOLUTION THINSHAFT REAMERS, TRAY 6 OF 6		1	CAROLINE F
13:01:54	100564700000	SOLUTN01IN	SOLUTION INSTRUMENTS TRAY 5 OF 6		1	CAROLINE F
13:01:54	100564500000	SOLUTN01IN	SOLUTION TRIAL RIGHT. TRAY 3 OF 6		1	CAROLINE F
13:01:54	100562800001	ASREXP07IN	ASREXP07IN SET 7. TRAY 3 OF 4		1	CAROLINE F
13:01:54	100564300000	SOLUTN01IN	SOLUTION FEMORAL REAMERS TRAY 1 OF 6		1	CAROLINE F
13:01:54	100564600000	SOLUTN01IN	SOLUTION TRIAL STANDARD. TRAY 4 OF 6		1	CAROLINE F
13:01:54	100562700001	ASREXP07IN	ASREXP07IN SET 7, TRAY 1 OF 4		1	CAROLINE F
13:01:54	100562900001	ASREXP07IN	ASREXP07IN SET 7, TRAY 2 OF 4		1	CAROLINE F
13:01:54	100564400000	SOLUTN01IN	SOLUTION TRIAL LEFT. TRAY 2 OF 6		1	CAROLINE F
				SubTotal	13	
				Total	13	

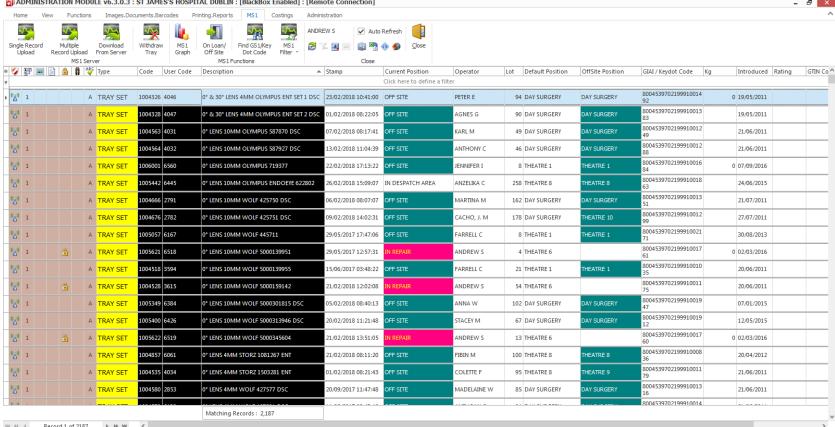
Loan sets from PEI scanned into Wash Room

- No need to re-key information (huge time saving)
- Full audit trail





Tracking information shared with the cloud (MS1)

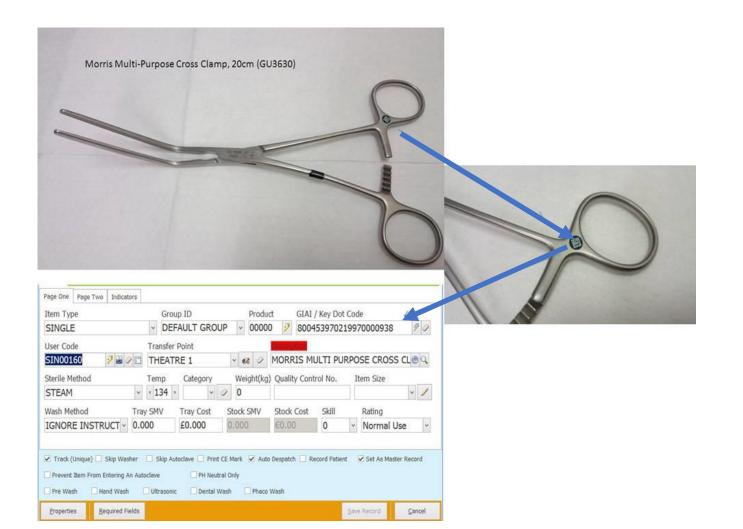








Barcode (keydot) being added to supplementary instruments



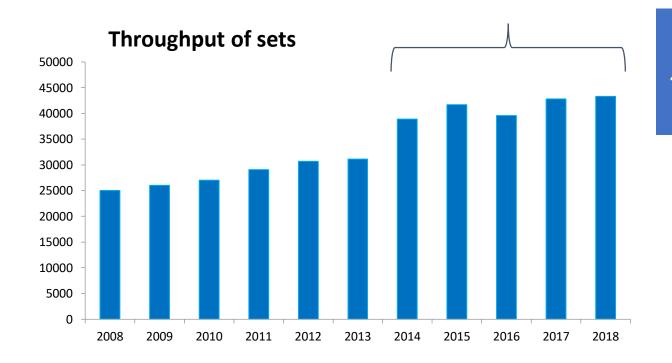






Overview of the number of procedures year on year in SJH HSSU **Retween 2014 to 2018 increase

* Between 2014 to 2018 increase in workload with less staff



Anecdotal evidence:
Moved from 5,000
Transcriptions per day
in one hospital





Key Benefits

National traceability solution for Instrument trays and endoscopes

- Automatic Tracking of Instrument Sets
- Much easier to share Loan Sets
- Tray Checklists printed when scanned
- All records stored digitally (huge paper saving)
- Link between tracking system and theatre to patient (EHR)
- Improved Workflow (time savings)









- Adding Keydot barcode to all supplementary instruments
- Adding additional areas such as the Cath Lab & OPD which use sterile surgical sets
- Requesting all loan set providers to be compliant







Not GS1 Coded

Medtronic



GS1 Coded







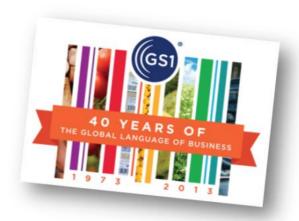












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