

The Global Language of Business

GS1 Healthcare Provider Advisory Council Webinar

Unique identification to enable surgical instrument and loan set traceability

Hannah McMahon, Decontamination Services Manager, Zehnacker Ireland Healthcare - Cappagh National Orthopaedic Hospital – August 2016



Welcome and thank you for attending!



- Welcome to our August 2016 webinar. Thank you to our guest speaker – Hannah McMahon, Decontamination Services Manager, Zehnacker Ireland Healthcare - Cappagh National Orthopaedic Hospital
- Some housekeeping for today:
 - All attendees will be on mute
 - If you have questions during the presentation, please type them into the questions area and these will be monitored then answered at the end of the call
- After the webinar:
 - Within a week, the recording will be posted to: <u>http://www.gs1.org/healthcare/hpac_webinars</u>
 - All previous webinars are also posted to this location, so please feel free to use this resource and share the link



The GS1 Healthcare Provider Advisory Council (HPAC)



Thought leaders and early adopters of GS1 Healthcare Standards from the global clinical provider environment. Their final goal is to improve patient safety, cost efficiency and staff productivity through implementation of GS1 standards.

A forum for sharing and discussion

Identification of projects and case studies

A source of expertise and advice

- About the practical realities of implementation of GS1 Standards in the care giving environment in regards to the impact on clinical care and patient interaction
- That support the adoption of GS1 Standards in healthcare providers and retail pharmacies
- For publication, presentation and sharing
- To those involved in GS1 standards development, the wider Healthcare stakeholder community and senior executives/decision-makers to gain their buy-in and support for implementation of GS1 Standards



HPAC Activities



Webinars

- Monthly webinars open to all stakeholders interested in learning about GS1 standards implementation in the care giving environment.
- <u>http://www.gs1.org/healthcare/h</u>
 <u>pac_webinars</u>

Awards

- Twice per annum
- Provider Best Case Study Award
- Provider Recognition Award
- The prize is travel / accommodation to attend the next GS1 Healthcare conference
- <u>http://www.gs1.org/healthcare/h</u>
 <u>pac</u>

GS1 Healthcare also holds two global conferences per annum. Next conference in Beijing from 25-27 October 2016. There will be significant Healthcare Provider participation on the agenda.



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Track and Trace Solution for Surgical Instruments

`A Users perspective'

Hannah McMahon, Decontamination Services Manager, Zehnacker Ireland Healthcare - Cappagh National Orthopaedic Hospital





Overview of Instrument Set Traceability



"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. >> GoLive in **Cappagh Oct 2014**







In the news...

July

2013

THE IRISH TIMES Helpline for patients with CJD concerns attracts 1,300 calls

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

Fri, Jul 19, 2013, 15:39

"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



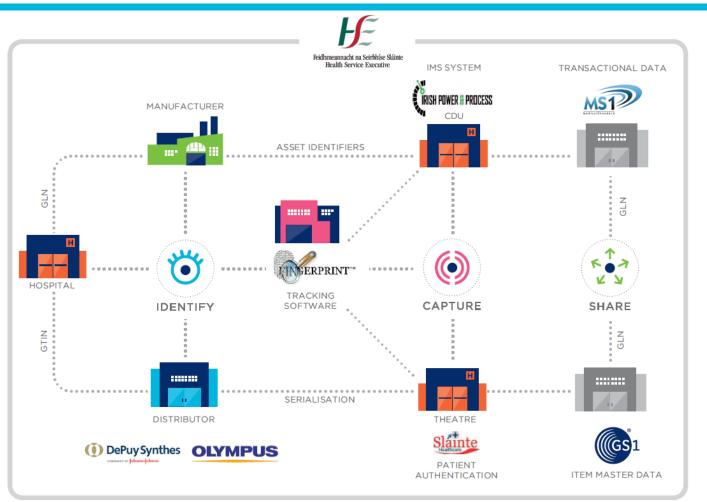






Track and Trace Solution







Cappagh National Orthopaedic Hosptial - Overview



Central Decontamination Unit

•	Staff:		12
•	Theatres:		6+3

- Sets processed each week: 800
- <u>Hospitals served</u>

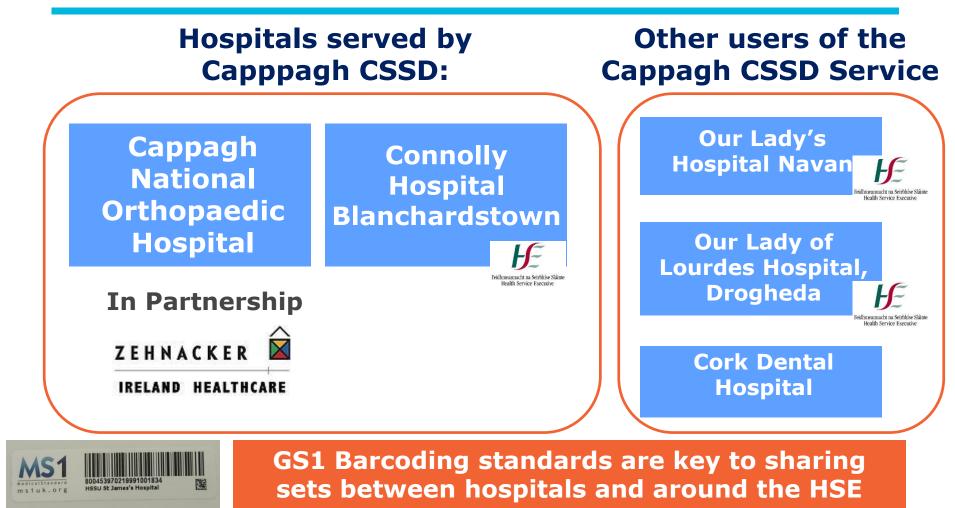
(Service Provider – Zehnacker Ireland Healthcare):

- Cappagh National Orthopaedic Hospital,
- Connolly Hospital Blanchardstown
- <u>Other Users</u>:
 - Our Lady's Hospital, Navan
 - Our Lady of Lourdes Hospital, Drogheda
 - Cork Dental Hospital



CSSD Service at Cappagh

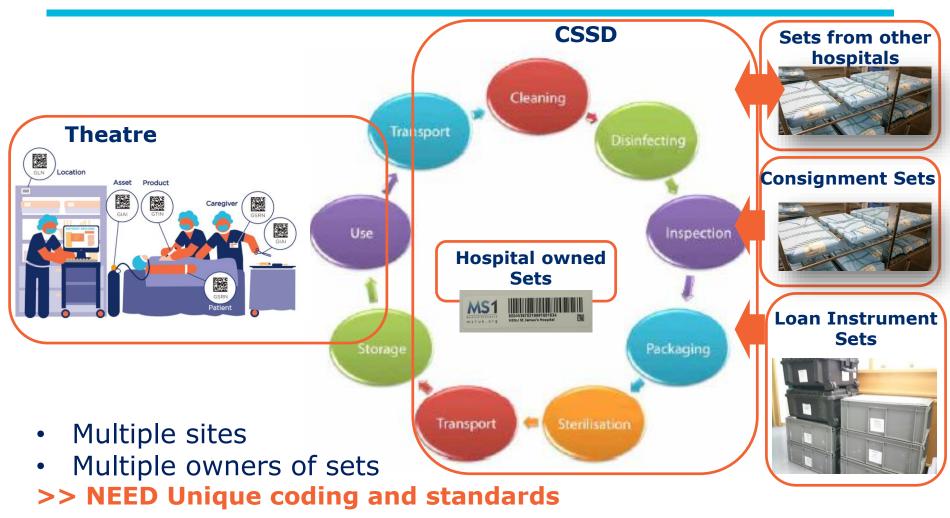






Process overview – CSSD Cappagh







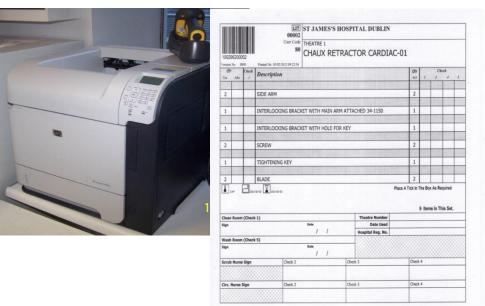
Instrument set lists



Before: Paper based



After: Scan barcode and set list printed



After

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



Process log



Before

		St. James's F	lospital	
DATE	NAME OF SET	THEATRE	LIST OF INSTRUMENTS	BIGNATURE
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	BASIL VAS 438			Allantara
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5	Basic Hip 3332			Eilein Healy
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To:05/04					
01:Packi	ng Detail				
Unknowr	n Type				
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	0° 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

After

Number Of Items : 20

• Paper based

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







Document List Report

Document Number: T2	200242	Patient ID: 1087474	Theatre: THEATRE 2
Document Created By Date %JESSIE S 02/0	e & Time Created	Amendments	
Code: 1003567 Lot No: 00035 Quantity: 1 Operator: %JESSIE S	Item:	TRACKER BASIC CARDIAC SET-04 STERILE SERVICES	
Code: 1003774 Lot No: 00033 Quantity: 1 Operator: %JESSIE S	Item:	TRACKER CABG SET-05 STERILE SERVICES	
Code: 1004160 Lot No: 00027 Quantity: 1 Operator: %JESSIE S	Item:	TRACKER CARDIAC MAMMARY RETRACTOR-03 STERILE SERVICES	
Code: 1003741 Lot No: 00049 Quantity: 1 Operator: %JESSIE S	Item:	TRACKER STERNAL SAW BATTERY POWERED-01 STERILE SERVICES	

Electronic

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

Document Numbe	r: T200243	Patient ID: 1087474	Theatre: THEATRE 2
Document Created By %JENNIFER I	Date & Time Created 02/02/2012 15:29:26	Amendments	
Code: 1002962	Тур	e: TRACKER	
Lot No: 00001	Iter	n: CHAUX RETRACTOR CARDIAC-01	
Quantity: 1	Supplie	r: STERILE SERVICES	
Operator: %JENNIFE	R I Remark	s:	
			Number Of Items:

Number Of Items:

Number Of Items:

Total Items:

4

5



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)
- Cappagh Hospital are heavy users of loan sets – 1 FTE dedicated to processing loan sets



Loan set – Example Which loan set would you rather process?





Loan sets WITH GS1 barcodes







Loan set Checklists



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allucs			Dailuues			Automatic Wash	Utrasonic Ortho
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- Paper based
- No certainty that list matches tray contents
- Electronic, fully legible
- Up to date
- List can be pulled from MS1 Cloud by scanning the tray



Loan set – Example Which loan set would you rather process?



1 Hospital during 1 week in Feb 2015

	Set No.
Check	-
2 3 4 8	
541-4-710 1	Check 1 HSSU
541-4-700	Clean Room
541-4-803 1 / 1	200. 11. th
541-4-810 / / 1	
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H.S.S.U. INSTRUMENT CHECKLIST - OPERATING THEATRES

Not GS1 Coded

Not GS1 Coded

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

GS1 Coded

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

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GS1 Ireland

GS1 Coded

Loan set – Example (PEI)



PEI Loan sets with GS1 barcodes



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<u>. </u>	DEIM		on one one	Date From: 22/03/2016	Date	To: 22/03/2016				
	22-Marci	h-2016								
Time	Barcode	User Code	Description		00	Operator				
3:01:54	100563000001	ASRE IN	ASREXPO7IN SET 7, TRAY 4 OF 4		1	CAROLINE F				
3:01:54	100553300003	MOI JULIN	MORUNCOZIN MORELAND UNCEM SET 2, TRAY 1 INS	RUNC02IN MORELAND UNCEM SET 2, TRAY 1 INSTRUMENTS						
13:01:54	100564200000	SROM01IN	SET 1, TRAY 5 OF 7, IMPACTOR/EXTRACTOR INSTS	SET 1, TRAY 5 OF 7, IMPACTOR/EXTRACTOR INSTS						
3:01:54	100564900000	MOREXT01IN	MORELAND EXTRACTION SET 1, TRAY 1 INSTRUMENT	MORELAND EXTRACTION SET 1, TRAY 1 INSTRUMENTS.						
3:01:54	100554800000	SOLUTNO1IN	SOLUTION THINSHAFT REAMERS, TRAY 6 OF 6		1	CAROLINE F				
3:01:54	100564700000	SOLUTN01IN	SOLUTION INSTRUMENTS TRAY 5 OF 6		1	CAROLINE F				
3:01:54	100564500000	SOLUTIN01IN	SOLUTION TRIAL RIGHT, TRAY 3 OF 6		1	CAROLINE F				
3:01:54	100562800001	ASREXP07IN	ASREXP07IN SET 7. TRAY 3 OF 4		1	CAROLINE F				
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3:01:54	100564600000	SOLUTNOLIN	SOLUTION TRIAL STANDARD, TRAY 4 OF 6		1	CAROLINE F				
13:01:54	100562700001	ASREXP07IN	ASREXPOTIN SET 7, TRAY 1 OF 4		1	GAROLINE F				
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3:01:54	100564400000	SOLUTN01IN	SOLUTION TRIAL LEFT. TRAY 2 OF 6		1	CAROLINE F				
				SubTotal	13	1				
				Total	13	1				

The Barcode on Loan set is scanned on arrival

- Unique barcodes on sets and set information is in the cloud (MS1)
 - No need to rekey information (huge time saving)
- Full audit trail

	No Barcode	With Barcode
Time to process 10 Sets	1 Day	0 Days
Commente		set information available
Comments		immediately once set scanned

"the unique barcode is invaluable to **share** sets across hospitals and provide a **very fast service** and to ensure **information is 100% accurate** – key for track and trace"

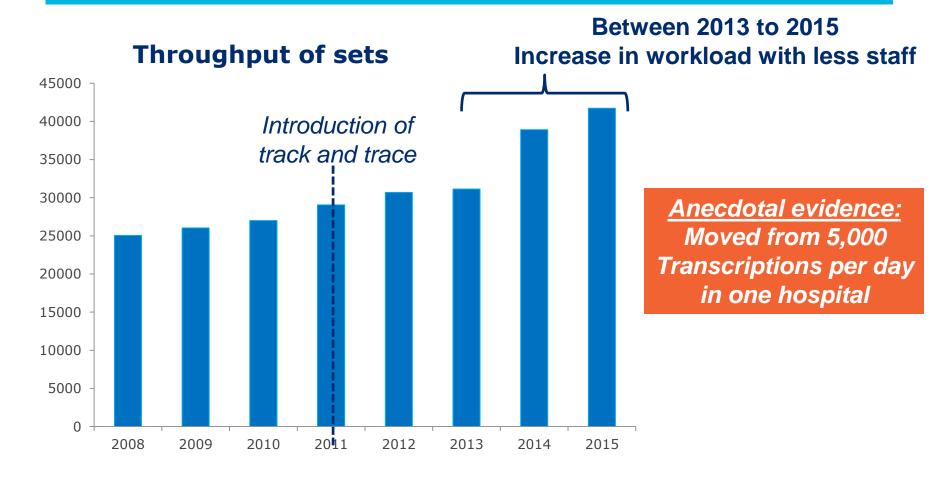
Hannah McMahon, Decontamination Services Manager, Zehnacker Ireland Healthcare, Cappagh National Orthopaedic Hospital



Keydot Identification of Supplementary Instruments (external to Instrument trays)

Page One	Page Two	Indicator	rs															
Item Typ	pe			G	rou	p ID				Produ	ct	GIAI	/ Key Dot	Coo	le	K		
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Overview of the number of procedures year on year in one hospital





Key Benefits of National traceability solution for Instrument trays and endoscopes



- Automatic Tracking of Instrument Sets
 - No longer need to stick head in the washer
- Much easier to share Loan Sets
 - Interoperability between hospitals
 - Lists more accurate and legible
- Tray Checklists printed when scanned
 - Accurate and right version, no longer need to search
- All records stored digitally
 - Can be referenced post-event, huge paper saving
- Link between tracking system and theatre
 - Closes the link between patients and sets reprocessed
- Improved Workflow
 - Scanning of instrument sets mean team has to communicate and be more organised
- Reporting and management of set inventory
 - More reports (doing more audits), Enables asset management (retiring unused sets)



Current challenges and Next Steps for Cappagh Hospital



Current challenge

 Systems are Disjointed (instruments, implants not connected)

Next Steps for Cappagh Hospital

- Link to hospital patient record (currently set is linked to patient information)
- Add the tracking data for the Sterilisation equipment

Standards are key to Interoperability







- Critical mass has been reached

- 90% utilisation of tracking solution in Ireland = real benefits
- Some private hospitals are also using the system
- Role of Manufacturers/Loan Set Providers
 - **DePuy Synthes (J&J) Ireland** were the first in Ireland to put GS1 codes on their loan set trays (also a first globally) and upload information about the set to the MS1 cloud
 - PEI now also marking their instrument trays using GS1 codes and uploading information about the set to the MS1 cloud

>> Need more Manufacturers/Loan set providers to follow this lead!







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IRELAND



HEALTHCARE







Thank you



