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: http://www.gs1.org/healthcare/hpac_webinars
  - 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

- 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

Identification of projects and case studies

- That support the adoption of GS1 Standards in healthcare providers and retail pharmacies
- For publication, presentation and sharing

A source of expertise and advice

- 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

The Global Language of Business © GS1 2015
HPAC Activities

Webinars

• Monthly webinars open to all stakeholders interested in learning about GS1 standards implementation in the care giving environment.
  • [http://www.gs1.org/healthcare/hpac_webinars](http://www.gs1.org/healthcare/hpac_webinars)

Awards

• Twice per annum
• Provider Best Case Study Award
• Provider Recognition Award
• The prize is travel / accommodation to attend the next GS1 Healthcare conference
  • [http://www.gs1.org/healthcare/hpac](http://www.gs1.org/healthcare/hpac)

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.
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)”


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

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”

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 Donaill/The Irish Times

Track and Trace?
Cappagh National Orthopaedic Hospital - Overview

Central Decontamination Unit

- Staff: 12
- Theatres: 6+3
- Sets processed each week: 800
- Hospitals served

(Service Provider - Zehnacker Ireland Healthcare):
- Cappagh National Orthopaedic Hospital,
- Connolly Hospital Blanchardstown

Other Users:
- Our Lady’s Hospital, Navan
- Our Lady of Lourdes Hospital, Drogheda
- Cork Dental Hospital
CSSD Service at Cappagh

Hospitals served by Cappagh CSSD:

- Cappagh National Orthopaedic Hospital
- Connolly Hospital Blanchardstown

In Partnership

Other users of the Cappagh CSSD Service:

- Our Lady’s Hospital Navan
- Our Lady of Lourdes Hospital, Drogheda
- Cork Dental Hospital

GS1 Barcoding standards are key to sharing sets between hospitals and around the HSE
Process overview – CSSD Cappagh

- Multiple sites
- Multiple owners of sets

>> NEED Unique coding and standards
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

• Paper based

After

• Electronic
• Post-event can be retrieved at the touch of a button
## Tracking in Theatres - After

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

### Document List Report

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**Number Of Items:** 1

**Total Items:** 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 NO GS1 barcodes

Loan sets WITH GS1 barcodes
Loan set Checklists

No barcodes

- Paper based
- No certainty that list matches tray contents

With barcodes

- 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?

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)

1 Hospital during 1 week in Feb 2015
PEI Loan sets with GS1 barcodes

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

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<tr>
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<td>Time to process 10 Sets</td>
<td>1 Day</td>
<td>0 Days</td>
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<tr>
<td>Comments</td>
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<td>set information available</td>
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<tr>
<td></td>
<td></td>
<td>immediately once set scanned</td>
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“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)

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<tr>
<th>Item Type</th>
<th>Group ID</th>
<th>Product</th>
<th>GIAI / Key Dot Code</th>
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<td>80045397021997000938</td>
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<table>
<thead>
<tr>
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<th>Note</th>
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<td>SIN00160</td>
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<td>MORRIS MULTI PURPOSE CROSS CL</td>
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<table>
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<th>Category</th>
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- Track (Unique), Skip Washer, Skip Autoclave, Print CE Mark, Auto Despatch, Record Patient, Set As Master Record
- Prevent Item From Entering An Autoclave, PH Neutral Only
- Pre Wash, Hand Wash, Ultrasonic, Dental Wash, Phaco Wash
Overview of the number of procedures year on year in one hospital

Between 2013 to 2015
Increase in workload with less staff

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

Throughput of sets

Introduction of track and trace
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
Key Takeaways ...

- 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!
Contact

Cappagh National Orthopaedic Hospital

A tradition of care

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Thank you