Benefits of Standards in the National Decontamination Tracking System in use at St James’s Hospital

HMI Briefing

Andrew Smith, HSSU Manager
"Hospital has apologised to 18 families who were wrongly identified as being at the centre of a contamination scare over a medical scope"
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”
Process overview – CDU SJH

Clinical imperative to have traceability for high risk procedures

- HSE recommendation for track and trace to be put in place to process RIMD in CDUs (2011)
- SJH were first hospital to go live in 2011
- > 90% of Hospitals in Ireland now using this system
Tracking Instruments

Before

- Manual Check

After

Information available:
- Electronically & Post-event
- Dataloggers linked to tracking system
Instrument set lists

**Before:** Paper based

**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
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

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| **Lot No.:** 000049 | **Type:** TRACKER |
| **Quantity:** 1 | **Item:** CARDIAC MAMMARY RETRACTOR-03 |
| **Operator:** %JESSIE S | **Supplier:** STERILE SERVICES |
| **Remarks:** |

Number Of Items: 4

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| **Operator:** %JENNIFER I | **Supplier:** STERILE SERVICES |
| **Remarks:** |

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)
Loan set Checklists

**Before**

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

**After**

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

**Hours**

**Seconds**
Loan set – **Best Practice Example (PEI)**

PEI Loan sets with GS1 barcodes

Loan sets from PEI scanned into Wash Room
- No need to re-key information (huge time saving)
- Full audit trail
Barcode (keydot) being added to supplementary instruments
Overview of the number of procedures year on year in SJH HSSU

* 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)
• Reporting and management of set inventory
Next Steps

• 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
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