GS1 Healthcare award winner – 2020 - Provider Implementation Best Case Study

December 15, 2020
Innovative Traceability of infant feeds using serialisation to improve patient safety at CHI at Temple Street

GS1 Healthcare Webinar

Ms Sinead Moran, Special Feeds Unit Manager
Children’s Health Ireland at Temple Street, Dublin, Ireland

December 15, 2020
Welcome and thank you for attending!

• Welcome to our December 2020 webinar.
  Thank you to our guest speaker Ms Sinead Moran, Special Feeds Manager at Children’s Health Ireland at Temple Street, Dublin, Ireland

• Some housekeeping for today:
  - All attendees will be in listening-only mode, please raise your hand if you wish to speak
  - Some polls are part of the webinar
  - Please type your questions into the questions area. These will be monitored and as many as possible will be answered by Sinead during the webinar

• 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, feel free to use this resource & share the link
GS1 Healthcare Webinars

Create a forum for the global clinical provider environment for thought leaders and adopters of GS1 Standards in healthcare. The final goal: improve patient safety, cost efficiency and staff productivity through the implementation of GS1 standards.

- A forum for sharing and discussion
- Identification of projects and case studies
- A source of expertise and advice

- The practical realities of implementation of GS1 Standards in the care giving environment regarding the impact on clinical care and patient interaction
- Supporting 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
A GS1 Healthcare Award

**GS1 Healthcare ‘Provider Implementation Best Case Study Award’**

- At each global GS1 Healthcare Conference: Provider Implementation Best Case Study Award
- The provider organisation or department has implemented GS1 Standards for at least ONE business or clinical process with clear and demonstrable return on investment (ROI) and/or impact on patient safety.
- The jury specifically looks also at the possibility of replication.
- For information and previous winners see: [http://www.gs1.org/healthcare/hpac](http://www.gs1.org/healthcare/hpac)

GS1 Healthcare annually organises global conferences. In 2020, due to the pandemic the format changed to a Virtual Summit in November. In the Healthcare Provider session attention was given to the award won by Sinead Moran for the implementation of GS1 standards in CHI at Temple Street, Dublin.
GS1 Healthcare ‘Provider Implementation Best Case Study Award’

- GS1 HC celebrates its champions
- Nominated and voted for by the jury
- Well deserved winner of the 2020 GS1 Healthcare ‘Provider Implementation Best Case Study Award’
Some comments jury:

- Perfect example of how GS1 standards solved a problem in a specific area
- GTIN, GLN, SSCC and GSRN all used
- Full traceability supports improved patient safety
- Staff acceptance is excellent
- Shows basic GS1 traceability template can be applied to any HC supply chain
- Simple solution that delivers benefits on so many levels
Poll question

How important is a system of traceability in your organisation

- Not important, we manage each recall separately
- Awareness among the front-line workers
- Working on it with full support of higher management
- A traceability system fully implemented
Poll question

Does the use of barcode standards support processes in your organisation?

- Not yet, preparing
- Implemented proprietary barcodes
- Starting to use global GS1 standards
- Implemented global GS1 standards
Presenting today

Sinead Moran

- Special Feeds Unit Manager in CHI at Temple Street
- 21 years’ experience in healthcare
- Strong background in traceability
- Worked in several hospitals in the area of Central Sterile Services Department (CSSD)
- Implemented electronic traceability of instrument sets
Special Feeds Unit – The Feeds
Based on prescription from Dieticians

A) Ready to pour feeds
B) Prepared feeds - basic to complex feeds

Essential that each patient is given the right feed
Traceability is key to ensure visibility
Special Feeds Unit
Paper Based
Traceability
Daily Patient Feeds - Paper Based Traceability

- Multiple Paper Sources
- Manual Workflows
- Transcription Errors
- Lack of Integrated Product Management
- Duplication of Tasks
- Visibility of Workload
Product Recalls - Paper Based Traceability

6 months of records up to 16 lines per page

Batch number recorded manually recorded on 2 forms
- Feed Preparation Form
- Delivery Form

= 30 Hours
Product Recalls - Paper Based Traceability

Step 2: Find the products – can you see the batch number?

- Staff have to guess the batch number
- No barcode – batch recorded on paper (multiple times)
- Batch recall - Difficult and time consuming
Special Feeds Unit implementing electronic traceability
Timeline to implement electronic traceability

- FSPA Audit
- Tender awarded
- FSPA Audit

2016
PID and tender
2017
2018
Traceability Project Go-Live
2019
100%
The key stakeholders for electronic traceability

- Nurses
- ICT
- Procurement
- Hospital Board
- Dieticians
- Facilities Management
- Patient
- Catering
- Special Feeds Unit
- GS1
Electronic Traceability – the new process

Before
- Paper system, multiple manual recordings/batch
- Difficult to track
- Non compliant to food safety standards
- 3 staff rostered/week

After
- GS1 Scanning App.
- Paperless, 2D code = one scan per movement
- Full visibility
- Traceability and compliance
- 2.5 staff rostered/week

**Diagram Notes:**
- Multiple data capture points
- Dieticians place special feed order
Barcode identification is key to electronic traceability

- Staff ID cards with unique barcode number for recording product movements
- The hospital’s standards Compliant serialised traceability labels
- Standards compliant barcodes for every dispatch location

Not GS1 compliant yet
Requirements for the project

Hardware:
- 6 Touchscreen Pcs
- 8 Scanners (camera based 2D)
- 3 Wireless printers
- Labels (suitable for fridge/freezer)
- WIFI router to boost Wi-Fi

Software:
- GS1 Traceability app
Poll question

What do you see as the barriers to getting traceability projects started in your organisation:

- Awareness and support of management
- Funding
- IT-systems and compatibility to GS1 traceability standard
- Resistance to change
- Competing priorities
## Report: Batch Numbers

Other report examples: short dated, expired, etc

<table>
<thead>
<tr>
<th>GTIN</th>
<th>Code</th>
<th>Description</th>
<th>UoM</th>
<th>Best Before</th>
<th>Supplier Batch</th>
<th>Status</th>
<th>Goods In...</th>
<th>Goods In Date</th>
<th>P. Order No.</th>
<th>Supplier</th>
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<td>90194268200</td>
<td>Emptied</td>
<td>101125</td>
<td>05-Nov-2019</td>
<td>4036451</td>
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Total: 1,074
Outcomes and Benefits

- Electronic batch recall now possible
- Huge paper savings
- Staff engagement
- Patient safety benefits
- Reports/Audits at the touch of a button
- The estimated time savings are 0.5FTE for Dispatch/Stores & time saving for Daily freezer stock count
- Additional unexpected benefits (HACCP forms and process improvements)
- Widespread interest both internally and from other hospitals
Outcomes and Benefits

“The new system provides us with full visibility of all product in stores, on the ward and dispensed to infants. In the event of a recall it is now possible for us, within a matter of minutes, to locate or account for each unit of the affected product.”

Mona Baker CEO at CHI Temple Street
Lessons Learned on Traceability

- Technology and barcodes are there to support traceability for any hospital process
- People within hospitals and industry are not always aware of the opportunity
- Drivers can come from different areas (patient safety, financial, quality, etc.)
  - Special feeds > requirement to do electronic traceability to the patient in the ward
Next steps

Additional modules:
- Emergency feeds
- Add incubator module to track temperature
- Stock taking
- Scan the feed to Patient at ward level
- Traceability and management of Expressed Breast Milk (EBM) and Donor milk

Traceability opportunities in other areas of the hospital:
- Move to New Children's Hospital
- Procurement
- Catering
- Assets
Thank you to my team!

Sinead Moran
Special Feeds Unit Manager
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New Video Launched

Safer services for patients:
Traceability of infant feeds

https://www.youtube.com/watch?v=PJKaLi1NML4&feature=emb_logo
GS1 Healthcare webinar:
Questions and contact details

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