GS1 UK Healthcare Conference

Nick Thomas
Deputy Chief Executive
Plymouth Hospitals NHS trust
Achieved S4S Accreditation 2018
What’s been achieved?

The 1st two years ...

- £1m+ savings
- Potential for further £1m
The 1\textsuperscript{st} two years ......

<table>
<thead>
<tr>
<th>Statistic</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procedures captured</td>
<td>7,286</td>
</tr>
<tr>
<td>Patients</td>
<td>6,215</td>
</tr>
<tr>
<td>Products (implants) assigned to a unique patient</td>
<td>13,971</td>
</tr>
<tr>
<td>Products tracked by lot &amp; expiry date</td>
<td>25,932</td>
</tr>
<tr>
<td>Discarded products</td>
<td>193</td>
</tr>
<tr>
<td>Cost of items used</td>
<td>£4.5m</td>
</tr>
</tbody>
</table>

- 2,324 orders raised from electronic consumption.
- 77 work days saved (15min average manual order)

Product recall before 19 days 10 hrs.

Now 1hr 45mins, less than 1 min to search and identify patients
The New Ambitions

- Avoid Never Events
- End-to-end traceability of medical devices and care events
- Using GS1 standards and RFID to track and trace assets / staff

"Every single BEEP tells us a little, millions of BEEPS tells us a lot!" Nick Thomas, Plymouth Hospitals #scan4safety #GS1HCconf
Avoid Never Events

NHSI April – December 2018

- 391 never events
- 54 (14%) implants/wrong prosthesis
- 21 (39%) related to hip surgery
Avoid Never Events

A new national system of scanning prosthetic implants before they are put into patients should be created by the government, the Healthcare Safety Investigation Branch has said.

In its first national investigation report since being set up in April last year, HSIB said such a system if used in operating theatres could prevent wrong prostheses being used.

It made the recommendation after an incident where a 62-year-old man had two incompatible prostheses implanted during a total hip replacement. The mistake was only picked up days after the surgery, when information was entered into the National Joint Registry database.

HSIB said there were on average 52 wrong implant or prosthesis never events a year with the latest data showing 65 in the year to March 2018, which it said suggested “a national, systemic issue”.

It has made a number of safety recommendations aimed at NHS Improvement, the Department of Health and Social Care and other national bodies.
Avoid Never Events
Avoid Never Events

Genesis Prototype – April 19

CME – July/Aug 19

Go-Live Orthopaedics July/Aug 19
EPCIS (Electronic Product Code Information Services)

GS1 and the barcode – a brief history

Today, GS1 barcodes are scanned more often than searches are performed on Google
5 billion + per day

Why EPCIS

➢ Tracking and sharing events
➢ Industry and Application agnostic
➢ Supplement to NOT a replacement for existing systems.

Today EPCIS used by companies across the world to track everything from the origin and freshness of food to the safety of pharmaceuticals
Theft and diversion of pharmaceuticals represents significant risks to the public. Counterfeit drugs may contain inactive or harmful ingredients or dosages. High quality, food safety, and sustainable practices are all top priorities for METRO.

Endorsed by the FDA
Used by the DSCSA.

Metro Group – Visibility from catch to customer

“The company’s top priority is Food Safety”.

“The NHS’s top priority is Patient Safety”.

EPCIS (Electronic Product Code Information Services)
EPCIS (Electronic Product Code Information Services)

- Supports food safety, drug safety, environmental safety, patient safety
- Efficiency, easy to track where products are or within whom – product recall
- Use case – MRI, 2 working days per week

But there’s more.....

- An EPCIS app is usable against any EPCIS compliant system.
EPCIS TTA Tracker
End-to-end traceability of medical devices and care events

Prototype code from UCL – End April 19

Finalise EPCIS APIs

Dry run /Trial

Changes to Salus Status and Discharge Summary

Go-Live

Share App with other Trusts

End - to - end traceability of medical devices and care events
Using GS1 standards and RFID to track and trace assets / staff

- 30,000 Portable/Mobile medical equipment
- 10,000 Static medical devices
- 15,000 Surgical Instrument Trays
- 7,000 Staff

£100m est. value related to medical equipment
Using GS1 standards and RFID to track and trace assets / staff
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Complete Tender Process
April 19

Finalise Business Case
May 19

Agree Funding
June 19

Implement July 19 ->

Go-Live 1st area
Dec 19
We are seeing little if any progress in suppliers adopting GS1 standards for medical goods and services.
How many suppliers have GTIN’s 2018/19?

81,587 (81,575) items in Trust catalogue from 855 (811) suppliers.

23,841 (23,907) items have valid GTIN, 29.2 % (29.3) (From 71 suppliers, 8% of the suppliers have GTIN)

One supplier through the GDSN, Smith and Nephew

Stats in red are for same month 2017/18
Suppliers are not attributing barcodes to all units of measure, which means we cannot scan the product and link it to a patient.
Questions?