Healthcare Innovation using GS1 Standards

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- Largest Hospital in South West Peninsula
- Major Trauma Centre
- Secondary and tertiary care to 450,000 people
- Number of beds approx. 1,100
- 7,000 staff members
- Scan4Safety demonstration site
Programme Summary

• £1m+ savings
• Potential for further £1m
Programme Summary

- 7,286 procedures captured
- 6,215 patients
- 13,971 products (implants) assigned to a unique patient
- 25,932 products tracked by lot & expiry date
- £4.5m cost of items used
- 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
Not just a 2 year project ....

We wanted to explore ‘End-to-end traceability of healthcare products and patient events’
‘How does industry capture events?’

EPCIS (What, Where, When & Why?)

Blockchain
‘How does industry capture events?’

EPCIS (What, Where, When & Why?)

- Products (GTIN)
- Locations (GLN)
- Staff (GSRN)
- Containers/Pallets (SSCC)
- Date and Time

Event data
‘End-to-end traceability of healthcare products and patient events’

Who are we working with?
‘End-to-end traceability of healthcare products and patient events’

**Use case: Medicines TTA tracking - Current**

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<th>Dispensing</th>
<th>Delivery</th>
<th>Collection</th>
<th>End</th>
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‘End-to-end traceability of healthcare products and patient events’

Use case: Medicines TTA tracking - Future

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EPR

GLN REGISTRY

EPCIS

University Hospitals Plymouth
NHS Trust
‘End-to-end traceability of healthcare products and patient events’

Use case: Medicines TTA tracking - Future

GDTI (Patient Doc) & GLN

SSCC, GDTI, GLN, GDTI
GSRN (Staff & Patient)
Date & Time

Interfaces
Query
Capture

EPR
GLN
Master data

EGCIS
Read / Write
Event data
‘End-to-end traceability of healthcare products and patient events’

Use case: Medicines TTA tracking - Future
‘End-to-end traceability of healthcare products and patient events’

Sharing ICT Apps - current
‘End-to-end traceability of healthcare products and patient events’

Sharing ICT Apps - future
‘End-to-end traceability of healthcare products and patient events’

Sharing ICT Apps - future

Diagram:
- Local Data Store + EPCIS
- PAS (A, B)
- EPCIS
- Meds App
- Local Data Store + EPCIS
‘End-to-end traceability of healthcare products and patient events’

Sharing ICT Apps - future
‘End-to-end traceability of healthcare products and patient events’

Sharing event data with other Trusts
'End-to-end traceability of healthcare products and patient events'

What do we need to do next?

- Finalise Meds App
- EPCIS repository
- Trial in house
- Sharing with other trusts???
- Other use cases –
  - MRI (2hrs a week time freed),
  - Implants (national solution?)
- Blockchain development to link up NHS
Thank you for listening

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