GS1 UK
Healthcare Conference 2019
Insight session: Innovation

*CareScan+

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North Tees & Hartlepool NHS Foundation Trust

*Transforming our services - Putting patients first - Valuing our people - Health and wellbeing*
A typical day in the office …

… for a committed SCAN4SAFETY “Evangelist”
No shortage of source scan data, but how can we collect it conveniently, consistently and use it effectively?

We all have the same puzzle to solve, we will achieve this adopting Interoperability Open Standards
11.10.18

Mandatory interoperability standards on the way as DHSC slams ‘inexcusable’ trust systems
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Optimal Scanning Via Single Solution

Scan If You Can
Optimal Scanning Via Single Solution

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CareScan+ app interface with text: Please scan the staff barcode to begin.

NHS North Tees and Hartlepool

Scan if you can.
CareScan+

- Remove Unwarranted Variation
- Reduce Costs
- Improve Efficiency and Planning
- Improve Audit and Investigation
- Improve Training
- Improve Safety

SCAN4SAFETY
CareScan+ Demo Props

- NHS Care Records Service
- LF1841 Laser Band Advanced
- NORTH TEES ARTERIAL INSERTION PACK
- GTIN: 5209221838001
  "Expiry Date Batch Serial No."
Ease Of Use:

- Capturing spontaneous real-time events as convenient scans
- Unscrambling data and presenting it in a meaningful structured manner
- Tailored to the needs of the user
- Aiding identification and removal of unwarranted clinical variation

Practical

with CareScan+
Security

- Full SSL encryption, Network and App
- Active Directory Group
- Linked to User to 4 digit PIN requiring pair to GS1 Data Matrix registered on CareScan+

Demo During Presentation
Scan Patient Wristband For Positive ID

Please scan the **patient barcode** to continue

Demo During Presentation

TEST
Patient
01-Aug-1981 Female
NHS No. 999 999 9999
Start New Task

Select Task Type *

Ward Procedure
IV Infusion Furosemide
IV Antibiotic
Theatre Procedure

* Task Types are auto filtered according to scanner location
Record Patient Consent

Simply ‘push’ button

Includes date / time reference
Rapid Capture
- Single Items
- Multiple Items
- Pack and Group Items

Immediate Benefits
- Clear Product Identification
- Uses Expiry, Batch/Lot
- Aids Product Cost Analysis
- Aids Stock Usage Analysis
- Real-time Event Audit

+ Instant Safety Alerts …
Intuitive User Interface

Immediate Benefits

• Identify faulty products
• Reveal training opportunities
• Determine cost of waste
• Also supports removal of scanned items
• Fully audited
Improving Patient (and Staff) Safety With Real-time:

- Product Guidance
- Expired Product Identification
- Product Warnings
- Incident Investigation Support

Practical with CareScan+
Scan Colleagues

Applicable to Ward and Theatre

Supports Record Keeping
- Accessible Portfolio Reference
- Revalidation and CPD Reference
- Incident and Investigation
- Peer Support and Observation

Informs
- Cost & Productivity Analysis
- Training Needs Assessments
- Acuity Assessments

Scan from Badge or Rota

Demo shows, two additional staff being scanned
Checking tube placement before use via pH testing of aspirate and, when necessary, x-ray imaging, is essential in preventing harm.
The decision on how to proceed is placed with staff.

Nasogastric Feeding Tube, Informational Usage alert

Demo shows, guidance issued and option to use product selected
BELAFONTI
Harry
03-Dec-1978 Male
NHS No. 185 867 9893

Change patient then demonstrate a range of product guidance messages and warnings …

Demo shows, switch to another patient as a result of scanning alternative wristband. All data retained and secure.
Identify Expired Products
First Example

Safety Reference: Failure of the polyethylene liner can be disastrous, increasing periprosthetic osteolysis, metallosis, and risk of dislocation.

This product expired 30 April 2017

DO NOT USE

Decision on how to proceed placed with staff

Demo shows, warning issued and product not used in this instance
Identify Expired Products
Second Example

This product expired 31 Jan 2019
The decision on how to proceed is placed with staff
Available options:
- Used in emergency ✓
- Product already used
- Warning does not apply
- Guidance acknowledged

USE PRODUCT

Demo shows, warning issued and staff recorded product used in an emergency
The decision on how to proceed is placed with staff.

Available options include:
- Used in emergency
- Product already used
- Warning does not apply
- Guidance Acknowledged ✓

Theatre Procedure, Non-conformance, Large Bone Cutter Missing from Instrument Tray.

The decision on how to proceed is placed with staff.

Available options include:
- Used in emergency
- Product already used
- Warning does not apply
- Guidance Acknowledged ✓

Use product

Demo shows, guidance issued and product used, staff recorded ‘Guidance acknowledged’ before continuing.
Product Warning

Second Example

Simulated product Recall issued on batch 210717AD (3rd entry)

Double Octopus Cannula adapter

Note good Packaging from Vygon

Demo shows, guidance issued and option NOT to use product selected
Harry BELAFONTI
Born: 03-Dec-1978 (40y) NHS No. 185 867 9893

Acute Cardiac Unit

Products
- Administration sets for Infusomat Space volumetric pump Basic PVC (DEHP-free) 15micron filter... 1
- THEATRE - HAND AND FOOT TRAY HP 1
- Double Octopus 2

Staff
(Demo RN) Tony Naylor

Demo shows, current task being completed
Demo shows, previously opened task being completed, opportunity to scan additional products also supported at this point.
Reporting and Bespoke Queries:

- Product Warnings Issued
- Product Recall
- Product Usage / Costs
- Product Wastage / Costs
- Audit
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Unwarranted Variation

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Cost and Waste
Efficiency and Planning
Training
Audit and Investigation

CareScan+

Please scan the staff barcode to begin

North Tees and Hartlepool
NHS Foundation Trust
CareScan+ Reporting Capabilities

- Utilisation products
- Alerts triggered
- Incident management
- General audit support
- Products recalls
- Wasted products
- Product usage & costing
Safety, Quality & Efficiency
Current CareScan+ Capabilities

➢ Positive patient identification
➢ Patient consent recording
➢ Positive multiple staff identification
➢ Product guidance / warnings
➢ Prevent use of expired products
➢ Prevent use of recalled products
➢ Waste identification
➢ Standard reporting
Safety, Quality & Efficiency
Road Map Developments Already Underway

➢ Medical device track & trace
➢ Medical device alerts
➢ Instrument tray track & trace
➢ Product groups
➢ Staff training & competencies
➢ Acuity and roster support
➢ Full procedure costing
➢ Patient location tracking
➢ Product/Device location tracking
➢ Bespoke reporting
CareScan+ Adoption Plans

- UHNT All wards and All Theatres
- Two local Trusts to be enabled 2019/20
- Remainder of ICS Trusts to be enabled 2020/21

Interface Roadmap Developments (2019*)

- PAS/EPR/EHR* generic contextual link to CareScan+ data
- Patient Registration
- Patient ADT
- Catalogue feed
- Stock feed (TBC)
CareScan+ Adoption Benefits

✓ Owned and improved by clinical champions
✓ Helps to standardise point of care scanning workflow
✓ Easy to use practical instant data capture
✓ Real time alerting with haptic feedback
✓ Comprehensive reporting and audit capability
✓ Aids clinical supervision and management of training portfolios
✓ Aids acuity assessments

Value for patients, value for staff
CareScan+ Design Benefits

✓ Retains NHS Intellectual property
✓ Built with Open Source components
✓ Pushing Open Standards
✓ Utilises GS1 core standards
✓ Sustainable
✓ Scalable
✓ Extensible

Built by the NHS for the NHS
CareScan+
“Built by the NHS for the NHS”
Keep the faith. Together we can achieve SCAN4+ SAFETY

Thank you