

Panel – Healthcare Professionals – different viewpoints, one goal

Chairperson: Mr. Keith Jones, Clinical Director of Surgery, Derby Teaching Hospitals NHS Foundation Trust, U.K.

Ms. Lorna Wilkinson, Director of Nursing, Salisbury NHS Foundation Trust, UK

Mr. Iain Davidson, Chief Pharmacist & CCIO, Royal Cornwall Hospitals NHS Trust, UK

Mr. Nick Thomas, Deputy CEO, Plymouth Hospitals NHS Trust, UK





Keith Jones
Head & Neck Surgeon
Clinical Director of Surgery



The NHS in figures



NHS employs >1.6m people

Top five of the world's largest workforces

NHS England employs >1.3m people

NHS England deals with >1 million patients every 36h

NHS Budget In 1948: **£437m** Now: **£115.4bn**

Most impressive healthcare system (Commonwealth Fund, 2014)

Free at point of treatment

Tax funded

Accountable to parliament



Derby Teaching Hospitals NHS Foundation Trust

The NHS - resilient and popular

| COUNTRY RANKINGS | | | | | | | | | | | |
|------------------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Top 2* | | | | | | | | | | | |
| Middle | N | | | | | NI/ | | | | | |
| Bottom 2* | ** | ÷ | | | | ** : | ╬ | +- | + | | |
| | AUS | CAN | FRA | GER | NETH | NZ | NOR | SWE | SWIZ | UK | US |
| OVERALL RANKING (2013) | 4 | 10 | 9 | 5 | 5 | 7 | 7 | 3 | 2 | 1 | 11 |
| Quality Care | 2 | 9 | 8 | 7 | 5 | 4 | 11 | 10 | 3 | 1 | 5 |
| Effective Care | 4 | 7 | 9 | 6 | 5 | 2 | 11 | 10 | 8 | 1 | 3 |
| Safe Care | 3 | 10 | 2 | 6 | 7 | 9 | 11 | 5 | 4 | 1 | 7 |
| Coordinated Care | 4 | 8 | 9 | 10 | 5 | 2 | 7 | 11 | 3 | 1 | 6 |
| Patient-Centered Care | 5 | 8 | 10 | 7 | 3 | 6 | 11 | 9 | 2 | 1 | 4 |
| Access | 8 | 9 | 11 | 2 | 4 | 7 | 6 | 4 | 2 | 1 | 9 |
| Cost-Related Problem | 9 | 5 | 10 | 4 | 8 | 6 | 3 | 1 | 7 | 1 | 11 |
| Timeliness of Care | 6 | 11 | 10 | 4 | 2 | 7 | 8 | 9 | 1 | 3 | 5 |
| Efficiency | 4 | 10 | 8 | 9 | 7 | 3 | 4 | 2 | 6 | 1 | 11 |
| Equity | 5 | 9 | 7 | 4 | 8 | 10 | 6 | 1 | 2 | 2 | 11 |
| Healthy Lives | 4 | 8 | 1 | 7 | 5 | 9 | 6 | 2 | 3 | 10 | 11 |
| Health Expenditures/Capita, 2011** | \$3,800 | \$4,522 | \$4,118 | \$4,495 | \$5,099 | \$3,182 | \$5,669 | \$3,925 | \$5,643 | \$3,405 | \$8,508 |





Drivers of increased demand

- Technological advances in diagnosis and treatment are the biggest driver of increased cost of care delivery
- Increased prosperity and expectation along with medical price inflation and increased cost of delivering care account for much of the rest of the increase in demand
- **Ageing population**. People with multiple long term conditions expected to rise from 1.9m in 2008 to 2.9m in 2018
- Growing population. Population grew by 7.3% from 2003 to 2013



Overview of UK Population

- In 2016 population was 65.6 million largest ever
- UK Population projected to continue to grow reaching over 74million by 2039
- The UK population is getting older
 - 18% aged 65 and over
 - 2.4% aged 85 and over
- In 2016 there were 285 aged 65 and over for every 1000 people aged between 16-64 yrs of age. That is traditional working age.

Source ONS July 2017





The Financial Challenge

- NHS England forecast £30bn per annum extra needed by 2020
- Government has promised £8bn
- £22bn required per annum in efficiency savings by 2020
- Equivalent to productivity increase of 2/3% per year
- NHS long term efficiency increase averages 0.8% per year





The Carter Report



Operational productivity and performance in English NHS acute hospitals:
Unwarranted variations

An independent report for the Department of Health by Lord Carter of Coles

Lord Carter of Coles refers to GS1 standards

"A typical hospital can save £3m every year by adopting GS1 standards."

GS1 standards...

- Support the £750m Procurement
 Transformation Programme
- Deliver the structured data supporting electronic prescribing and medicines administration
- Enable eRostering, patient level costing and Electronic Patient Records





Why Are We Doing This?

Lord Carter Recommendations

- Lord Carter was asked in the summer of 2014 by the health secretary to assess what efficiency improvements could be generated in hospitals across England.
- He provided an interim report on his work in June 2015, in which
 he outlined that potentially £5bn of operational efficiency savings
 could be delivered in the acute sector by 2020 by improving
 workforce costs, hospital pharmacy medicines optimisation, and
 estates and procurement management.
- 15 Recommendations Identified



Why do it?



- The NHS procures 1.7m different items
- 61 Trusts purchased 1750 different cannulae
- One Trust bought 177 different types of rubber gloves
- £2 4bn savings per year from GS1 standards to allow cost comparison between Trusts



NHS eProcurement Strategy





In 2014, the Department of Health mandated the use of GS1 standards within the **eProcurement strategy**

Every healthcare provider and every supplier of every product and service into the NHS must comply with GS1 standards by 2020

NHS Provider and Supplier contracts will reflect this





- The Department of Health has mandated that all NHS Trusts must adopt GS1 standards and all their suppliers must become GS1 compliant
- GS1 standards provide the foundation for integrated patient care in the NHS by enabling the globally unique identification of every person, every product and every place
- GS1 standards support compliance to the FMD and UDI legislation
- GS1 UK work closely with the Ministry of Health and Regulatory authorities

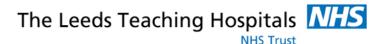




Demonstrator Sites of Excellence

Six NHS Trusts are being fully-funded by the Department of Health to become demonstrator sites of excellence

Each of these six NHS Trusts will show – in a real-life setting – the benefits of GS1 standards







North Tees and Hartlepool NHS Foundation Trust







Derby Teaching Hospitals MIS



Salisbury **NHS**



NHS Foundation Trust

NHS Foundation Trust







Two year programme of work focusing on;

Core Enablers



Location Identification

 Implementing GLNs, a global standard for location identification

Primary use cases



Purchase-to-Pay

 POs, ASNs, Invoices to be exchanged electronically using GS1 / PEPPOL

Patient Identification

 Wristbands GSRN compliant can be scanned by patient systems

Inventory Management

 Ability to electronically trace and manage products to discrete locations

Catalogue Management

 All relevant processes use the GTIN as the primary product identifier

Product Recall

 Ability to electronically identify stock holding or patients affected by recalls

Derby are now accredited and are the first trust in the UK





Litigation Liability in the NHS



- •£1.5billion year end April 2016
- •Projected spend 17/18 £1.95 billion
- •Current estimated total liability £56.1 billion
- •More claims, more lawyers and larger claims
- •Keen to introduce GS1 as the patient safety initiative
- •Adverse in-hospital events 11^{th} out of 20 top risk factors for death in UK



SUI – Clinical Management



Patient Label

Procedure Date: 20-08-201 Hospital: Derby Hospital Department: General Theatres

| B // / OI | | =2.0 Quantities | DOCUDOS | |
|--------------|-----------------------|-----------------|------------------|-------------|
| hTrak Report | Patient Ref: 20000468 | Procedure I | Date: 20-08-2015 | Page 1 of 4 |

| | Patient Class: | NHS | Facility: | DCSURG2 |
|---|-----------------|----------|-----------------|----------------|
| 9 | Operation Type: | Elective | Facility Cost: | 20.00 |
| | | | Hand Held User: | JARRETT ROBERT |

| Procedure Codes | | | | | | | | | |
|--|------------|--------------|-------------|----------------|---------------------|--|--|--|--|
| Procedure | Item Codes | Theatre Band | Band Amount | Hand Held User | Scan Date/Time | | | | |
| Speciality - MaxFax | MaxFax | | | JARRETT ROBERT | 20-08-2015 09:34:26 | | | | |
| Excision of lesion of skin of head or neck NEC | S065 | | | JARRETT ROBERT | 20-08-2015 17:01:21 | | | | |
| Other specified excision of mandible | V148 | | | JARRETT ROBERT | 20-08-2015 09:35:33 | | | | |
| Total prosthetic replacement of temporomandibular joint | V201 | | | JARRETT ROBERT | 20-08-2015 09:35:19 | | | | |
| Other specified other operations on temporomandibular joint | V218 | | | JARRETT ROBERT | 20-08-2015 09:35:47 | | | | |
| Bilateral operation | Z941 | Ť | | JARRETT ROBERT | 20-08-2015 09:36:01 | | | | |

| Procedure Timing | | | | | | | | | |
|--------------------|---------------------|--------------------|-------------------------|--------------------|--|--|--|--|--|
| Timing Point Name | Date & Time Stamp | Hand Held/HRS User | Facility Usage Duration | Procedure Duration | | | | | |
| Anaesthetic Start | 20-08-2015 08:55:00 | JARRETT ROBERT | (HH:MM:SS) | (HH:MM:SS) | | | | | |
| Into Theatre | 20-08-2015 09:31:00 | JARRETT ROBERT | 08:15:00 | 07:07:00 | | | | | |
| Start of Procedure | 20-08-2015 09:42:00 | JARRETT ROBERT | | | | | | | |
| End of Procedure | 20-08-2015 16:49:00 | JARRETT ROBERT | | , | | | | | |
| Out of Theatre | 20-08-2015 17:10:00 | TREECE MICHELLE | | <u> </u> | | | | | |

| | Attending Staff | | | | | | | | |
|------------|--------------------|-----------------------|-----------------------|----------|--|--|--|--|--|
| Staff ID | Staff Name | Staff Type | Staff Role | Duration | | | | | |
| 10705996 | PEGG IONA | Theatre Practitioner | Scrub Practitioner | 08:15:00 | | | | | |
| 10708823-2 | YOUNG WENDY | Theatre Practitioner | ODP | 08:15:00 | | | | | |
| 10709402 | CHESSHIRE NICHOLAS | Anaesthetist | Anaesthetist | 08:15:00 | | | | | |
| 10712453-2 | JARRETT ROBERT | Health Care Assistant | Health Care Assistant | 08:15:00 | | | | | |
| 10713251 | CAJUDO EUGENE | Theatre Practitioner | Scrub Practitioner | 08:15:00 | | | | | |



SUI – Clinical Management



fix Patient Label H

hTrak Report Patient Ref: 20000468 Procedure Date: 20-08-2015 Page 2 of 4

| Staff ID | Staff Name | Staff Type | Staff Role | Duration |
|------------|------------------|-----------------------|-----------------------|----------|
| 10717765 | KORCZAK PETER | Consultant | Session Consultant | 08:15:00 |
| 20192998-2 | MCKEVITT KATHRYN | Theatre Practitioner | ODP | 08:15:00 |
| 21264330 | TREECE MICHELLE | Health Care Assistant | Health Care Assistant | 08:15:00 |
| 23147791-2 | SALHA RAMI | Surgeon | Surgeon 1 | 08:15:00 |
| 24685788 | CHARADVA HEMAL | Surgeon | Surgeon 3 | 08:15:00 |
| 24686159 | SAFDAR SAQIB | Surgeon | Surgeon 3 | 08:15:00 |
| 25128376 | SELBONG UTHAYA | Surgeon | Surgeon 2 | 08:15:00 |

| Anaesthetic | | | | | |
|-----------------|-------------------------|----------------|---------------------|--|--|
| Anaesthetic Key | Anaesthetic Description | Hand Held User | Scan Date/Time | | |
| GENANAES | General Anaesthetic | JARRETT ROBERT | 20-08-2015 08:18:46 | | |

| | Time Out Questions | | |
|-------------------|----------------------------------|----------------|---------------------|
| Time Out Question | Answer | Hand Held User | Answer Date/Time |
| Delay Reasons | Bed availability - Step-down Bed | JARRETT ROBERT | 20-08-2015 09:36:28 |
| Procedure Outcome | Completed as planned | JARRETT ROBERT | 20-08-2015 11:12:36 |

Patient Ref: 20000468 Procedure Date: 20-08-2016 Hospital: Derby Hospital

| | | Products | Used | | | | | |
|-------------|-----------------------|--|------|-------|---------------------|------------------|-------------|------------|
| Item No. | Supplier Product Code | Description | Qty | Price | Consumption Type | Lot No. | Expiry Date | Ext. Price |
| 1 | 0033120 | Disposable sucker Frazier 12FG | 1 | 3.80 | Normal | | | 3.8 |
| 2 | 0302DC009703 | Mr Korczac's Obwegesar Periosteal Elevator Set | 1 | 5.57 | Normal | 0302DC00970 3 | | 5.5 |
| 3 | 1012309EA | Small Swabs 10*7.5cm 32 Ply | 5 | 0.70 | Normal | | | 3.5 |
| 4 | 24-6610 | DRILL 1.5 X 50 11MM STP J-NOTCH | 1 | 44.00 | Normal | | | 44.0 |
| 5 | 24-6614 | DRILL 2.0 X 70 12 STP J-NOTCH | 1 | 64.00 | Normal | | | 64.0 |
| 6 | 28170 | COTTON WOOL BALLS LARGE X5 (1011449) | 1 | 0.88 | Normal | | | 0.8 |
| 7 | 91-2710 | CROSS DRIVE EMERGENCY SCREW 2.7X10MM HT | 12 | 25.00 | Normal | 912710 | | 300.0 |
| 8 | 91-2712 | CROSS DRIVE EMERGENCY SCREW 2.7X12MM HT | 2 | 25.00 | Normal | 912712 | | 50.0 |
| 9 | 99-6579 | FOSSA CROSS DRIVE SCREW 2.0X9mm | 1 | 52.00 | Normal | 996579 | | 52.0 |

SUI- Clinical Management



hTrak Report Patient Ref: 20000468 Procedure Date: 20-08-2015 Page 3 of 4

Department: General Theatres

Patient Ref: 20000468 Procedure Date: 20-08-201 Hospital: Derby Hospital

| Item No. | Supplier Product Code | Description | Qty | Price | Consumption Type | Lot No. | Expiry Date | Ext. Price |
|-------------|-----------------------|--|-----|----------|---------------------|------------|-------------|------------|
| 10 | 99-6581 | FOSSA CROSS DRIVE SCREW 2.0X11mm | 11 | 52.00 | Normal | 996581 | | 572.00 |
| 11 | E013903 | Facial Tray | 1 | 48.54 | Normal | E013903 | | 48.54 |
| 12 | E015602 | Wiring of Jaw | . 1 | 26.10 | Normal | 232229606 | | 26.10 |
| 13 | E015702 | Zimmer Micro Air Saw | 1 | 11.15 | Normal | E015702 | | 11.15 |
| 14 | E070201 | Mr Jones Freers Elevators | 1 | 5.46 | Normal | 232036342 | | 5.46 |
| 15 | E078401 | OSTEOTOMY TRAY SET 1 | 1 | 26.10 | Normal | 232246974 | | 26.10 |
| 16 | ELW054 | IV3000 Moisture Responsive Film Cannula Dressing One Hand Application 10cm x 12cm Sterile X50 | 2 | 1.61 | Normal | | | 3.23 |
| 17 | ELW213 | Tegaderm 10cm x 12cm | - 1 | 0.61 | Normal | | | 0.61 |
| 18 | FKA412 | Foley catheter with temp probe 12fr | 1 | 7.53 | Normal | | | 7.53 |
| 19 | FSF325 | SWANN-MORTON NO 10 Carbon Sterile Blades | 4 | 0.08 | Normal | | | 0.30 |
| 20 | FTE893 | Biogel Surgeons 7.0 | 2 | 1.16 | Normal | | | 2.3 |
| 21 | FTR044 | Needles 21G x 1 1/2" - Nr 2 | -1 | 0.02 | Normal | | | 0.02 |
| 22 | FVS030 | ETHILON BLU 45CM M1 USP5/0 SGLE ARMED PC-3 PRIME | 4 | 2.12 | Normal | JAB832 | 31-07-2019 | 8.46 |
| 23 | FVU066 | VICRYL UND 45CM M1.5 USP4/0 SGLE ARMED PS-2 | 7 | 3.18 | Normal | JD5GCXM | 30-06-2020 | 22.23 |
| 24 | FVU408 | VICRYL VIO 12X45CM M3 USP2/0 NON NEEDLED | 1 | 6.07 | Normal | JA8GPRR0 | 30-06-2020 | 6.07 |
| 25 | FWC021 | SYRINGE LUER SLIP 20ml | 2 | 0.09 | Normal | | | 0.19 |
| 26 | FWC128 | 10ml Syringe | 1 | 0.06 | Normal | | | 0.06 |
| 27 | FWP173 | Female Suction tube | 1 | 0.88 | Normal | | | 0.88 |
| 28 | FWV163 | Urine Bag 500ml | 2 | 4.71 | Normal | | | 9.42 |
| 29 | IJ022207 | PACK CATHETER (1011938) ST | 1 | 1.97 | Normal | | | 1.97 |
| 30 | MDM5023141.LH | OSC/SAG BLADE | 1 | 24.50 | Normal | | | 24.50 |
| 31 | NS-111001 | Uni Glove (Light Handle) | -1 | 0.92 | Normal | | | 0.92 |
| 32 | PFT489 | MAX FAX PACK | 1 | 6.42 | Normal | | | 6.42 |
| 33 | S92-145 | MICRODRIV RECIP.BLADE | 1 | 12.70 | Normal | | | 12.70 |
| 34 | SU00074490 | Mr Sharps Jamesons Scissors x 2 | 1 | 1.98 | Normal | 232244465 | | 1.98 |
| 35 | SU00131946 | Magna Drape (ENT Th) | . 1 | 1.98 | Normal | SU00131946 | | 1.98 |
| 36 | TMJ-FOSSA-DERBY | TMJ Fossa (Custom Made for Derby) | 1 | 4,250.00 | Normal | 534650 | | 4,250.00 |
| 37 | TMJ-FOSSA-DERBY | TMJ Fossa (Custom Made for Derby) | 1 | 4,250.00 | Normal | 534670 | | 4,250.00 |





SUI – Clinical Management

hTrak Report Patient Ref: 20000468 Procedure Date: 20-08-2015 Page 4 of 4

| Item No. | Supplier Product Code | Description | Qty | Price | Consumption Type | Lot No. | Expiry Date | Ext. Price |
|-------------|-----------------------|--|-----|----------|---------------------|---------------------|-------------|------------|
| 38 | TMJ-MANDIBLE-DERBY | TMJ Mandible (Custom Made for Derby) | 1 | 4,250.00 | Normal | 534640 | | 4,250.00 |
| 39 | TMJ-MANDIBLE-DERBY | TMJ Mandible (Custom Made for Derby) | 1 | 4,250.00 | Normal | 534660 | | 4,250.00 |
| 40 | TMJLOAN | TMJ Loan Set Fee | 1 | 410.00 | Normal | TMJLOAN | | 410.00 |
| 41 | U000670499118 | GEN/ENT theatre consumable pack | 1 | 0.00 | Normal | U0006704991 18 | | 0.00 |
| 42 | U02924EX0468324 | 1 x Pencil - ENT Theatre | 1 | 1.55 | Normal | U02924EX046 8324 | | 1.55 |
| 43 | VJD2678 | OPSITE INCISE DRESSINGS Wound & Incise Drape Transparent Film Dressings Green Handle Application 28cm x 45cm Sterile X10 | 1 | 4.70 | Normal | | | 4.70 |
| 44 | VJH489 | OP-tape 9x49cm | 3 | 0.43 | Normal | | | 1.28 |
| Produc | t Totals | | 88 | | • | | | 18,742.41 |

| Name: | Signature: |
|-------|------------|
| | g |

Patient Ker: 20000468

Procedure Date: 20-08-201

Hospital: Derby Hospital

Department: General Theatres

Nerve Stimulator









Clinical Management Information

Laparoscopic Cholecystectomy Consumable Costs and Consultant Variation

| Consultant Description | Avg Consumable Cost | Avg No of Products | Avg No of Staff | Avg Minutes | No of Procedures | Lower Quartile | Upper Quartile | Varia nce | Std Deviation | Avg LoS | Max LoS | Min Los |
|---------------------------|---------------------------|--------------------------|-----------------------|----------------|---------------------|-------------------|-------------------|--------------|------------------|------------|------------|------------|
| Cons A | £285 | 82 | 5 | 181 | 1 | £285 | £285 | £0 | - (| 3.00 | 3.00 | 3.00 |
| Cons B | £239 | 74 | 7 | 127 | 3 | £232 | £250 | £37 | £19 | 1.00 | 1.00 | 1.00 |
| Cons C | £231 | 70 | 6 | 123 | 6 | £192 | £255 | £160 | £59 | 1.83 | 5.00 | 1.00 |
| Cons D | £227 | 70 | 6 | 98 | 9 | £197 | £248 | £146 | £45 | 1.56 | 6.00 | 1.00 |
| Cons E | £223 | 70 | 5 | 100 | 11 | £216 | £235 | £120 | £31 | 1 27 | 4.00 | 1.00 |
| Cons F | £218 | 69 | 6 | 93 | 6 | £203 | £238 | £60 | £14 | 1.00 | 1.00 | 1.00 |
| Cons G | £209 | 62 | 6 | 79 | 8 | £192 | £231 | £103 | £38 | 1.63 | 4.00 | 1.00 |
| Cons H | £188 | 64 | 1 | 90 | 9 | £164 | £224 | £149 | £53 | 1.25 | 2.00 | 1.00 |



Why GS1? The benefits are obvious



Procurement

- Accurate identification of suppliers, products and packs sizes error free trading
- Better management of stock potential for £1.5bn of stock in NHS to be halved
- Faster processing and faster payment savings in credit control and accounts payable

Patient safety

- Reducing 'never events' and preventing falsified medicines into hospitals
- Being able to take faulty products out of hospitals, and recall affected patients

Clinical Productivity



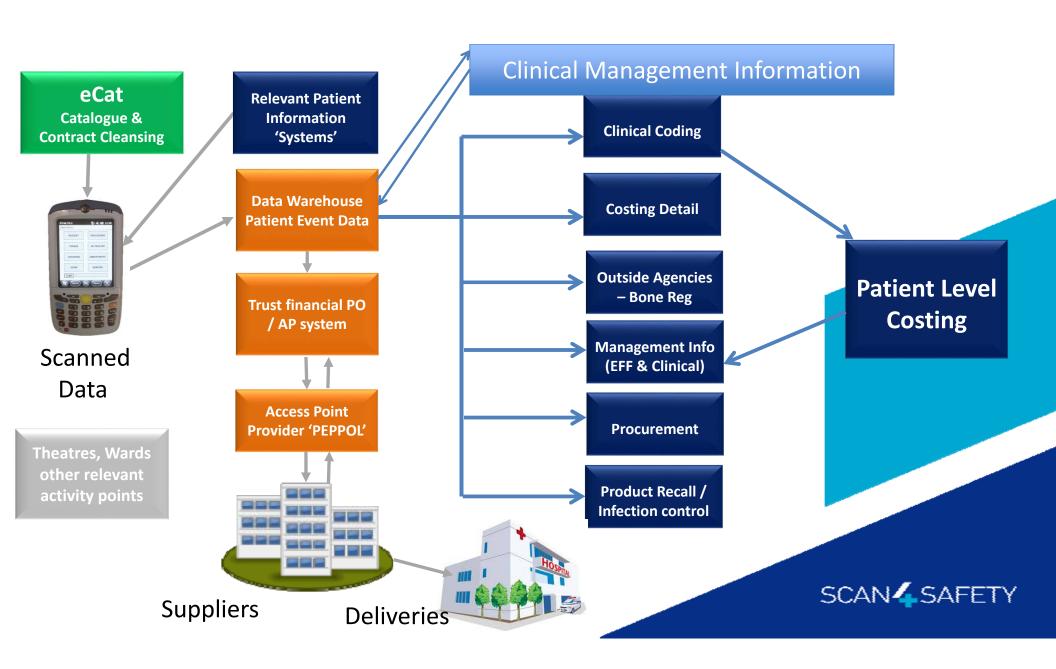
Benefits to clinical productivity

- More time caring for patients
- Better understanding of costs
- Better comparison of clinical performance and optimisation around the best
 improving care quality through greater standardisation
- Exposing variation in clinical practice and enabling the difficult conversation about why it exists.

| Consultant 🚨 🔍 🕳 | | | | | | | | | |
|---------------------------|---------------------|-----------------------|--------------------|----------------|-------------------|-------------------|-------------------|----------|------------------|
| Consultant Description | Avg Consumable C | Avg Nu of Products | Avg Nu of Staff | Avg Minutes | Nu uΓ Procedur | Luwei Quartile | Upper Quartile | Variance | 3id Deviation |
| Mr Chiu | £132 | 55 | 7 | 58 | 15 | £111 | £148 | £65 | £22 |
| Mr D Laughanne | £128 | 53 | 5 | 19 | 1 | £128 | £128 | £0 | - |
| Mr P Korczak | £124 | 53 | 7 | 61 | 9 | £102 | £142 | £66 | £24 |
| JStenhouse | £122 | 49 | 7 | 68 | 4 | £92 | £150 | £65 | £39 |
| Mr K Jones | £106 | 49 | 9 | 40 | 10 | £ 7 3 | £140 | £122 | £43 |



Source: Derby Teaching Hospitals NHS Foundation



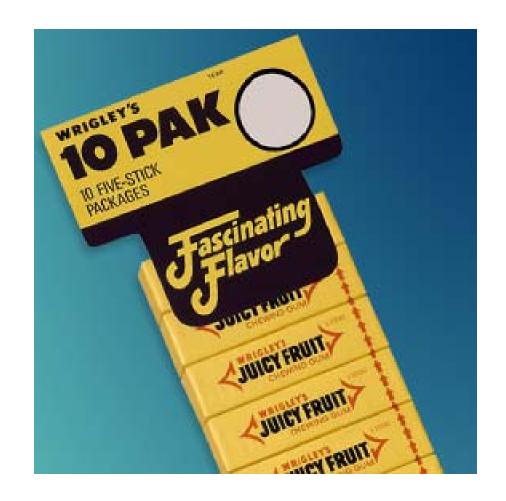








It all starts with a simple scan





Derby Teaching Hospitals **NHS**



NHS Foundation Trust



Derby Teaching Hospitals NHS



NHS Foundation Trust





Scan4Safety

- A nursing perspective

32nd Global GS1 Healthcare Conference Chicago, US

Ms. Lorna Wilkinson, Director of Nursing, Salisbury NHS Foundation Trust, UK

October 17th, 2017





Scan4Safety The Adoption of GS1 Standards

A Chief Nurse Perspective

Lorna Wilkinson
Chief Nurse
Salisbury NHS Foundation Trust
Oct 2017





Salisbury NHS Foundation Trust













Director of Nursing

- Nurses, Midwives, Allied Health Professionals
- Clinical Standards
- Patient Safety
- Patient Experience
- Regulatory Requirements







Patient Safety

Reducing Variation



Value



Programme Objectives





Right Patient

Setting standards to make sure we always have the right patient and know what product was used with which patient, when.



Right Product

Setting standards to make sure our staff have **what** they need, **when** they need it.



Right Place

Setting standards to make sure that patients and products are in the right place.



Right Process

Setting standards and implementing common ways of working to deliver better and more easily repeatable patient care.

Theatres and Cardiac Suite

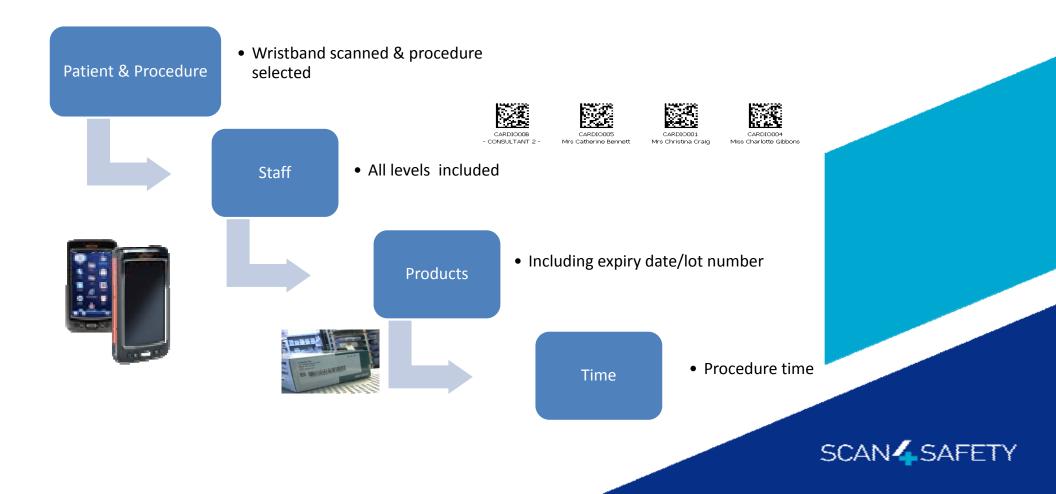






Product – Tracking Implants





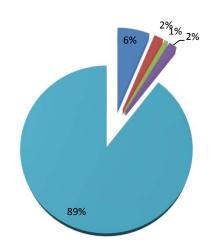




What is the risk out of date products are used in Procedures?

10,019 Products (Individuals) on shelf in Orthopaedics?

Orthopaedic Implants March 2017



| | Number of Items | |
|-------------------------|-----------------|--|
| Category | on shelf | |
| Expired on shelf | 630 | |
| Within 1 Month | 184 | |
| Within 2 Months | 76 | |





Product Tracking = Patient Safety

Staff responsible for manually checking expiry dates



System automatically alerts if expired product chosen

Product recalls took hours/weeks



Products recall <30 mins

Staff manually re-ordering stock



Stock automatically replenished

Wards











- Patient Observations Scanning patient wristbands to assign observations.
- Blood Products Scanning patient wristbands to receipt and transfuse blood.



 Point of Care Testing - Scanning patient wristbands to assign blood test.

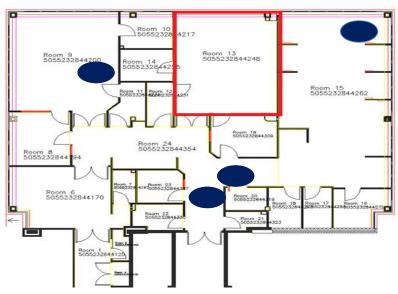


"If only I knew where ?"



"Please can all areas check whether they have the Doppler that belongs to recovery and return it asap it is required in theatre ten for surgery"

"Where do falls occur and how can we prevent them?"







Releasing time to care

Right patient, right product, right place

Positive Patient Identification

Over £1million saved to date at

Improved product recall processes

Reducing wastage

SFT

Improvid Agine Patient Safety An outstanding experience, everytime Peducing Variation

Removing risk of expired/recalled products being used

Storage

Equipment

Products

Process/Procedure

Image created by Freepik

Questions?









@SFTScan4Safety



Scan4Safety: The Adoption of GS1 Standards A Chief Pharmacist's Perspective

32nd Global GS1 Healthcare Conference Chicago, US

Mr. Iain Davidson, Chief Pharmacist & CCIO, Royal Cornwall Hospitals NHS Trust, UK

October 17th, 2017





Scan4Safety The Adoption of GS1 Standards

A Chief Pharmacist's Perspective

lain Davidson
Chief Pharmacist & CCIO
Royal Cornwall Hospitals Trust
– Oct 17



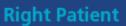




Objectives







Setting standards to make sure we always have the right patient and know what product was used with which patient, when.



Right Product

Setting standards to make sure our staff have **what** they need, **when** they need it.



Right Place

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Right Process

Setting standards and implementing common ways of working to deliver better and more easily repeatable patient care.



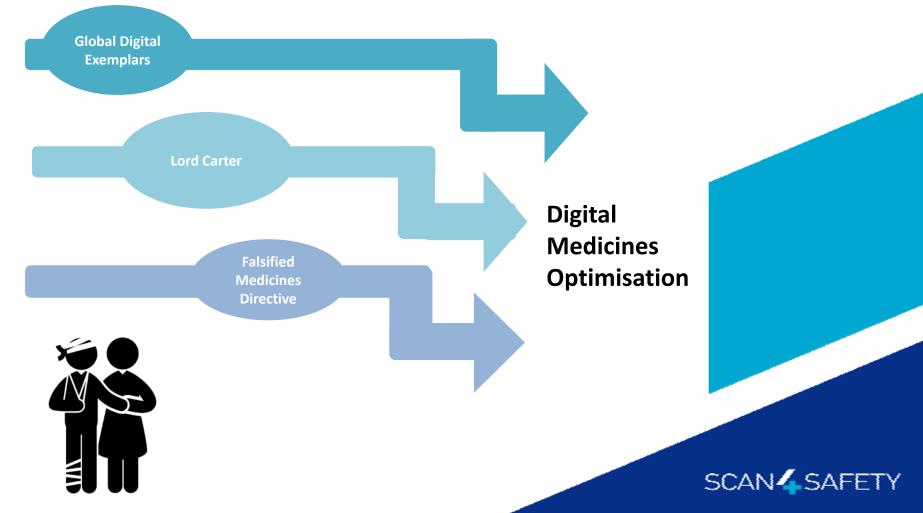
Improve Efficiency

Improve Patient Safety

Release Time to Care

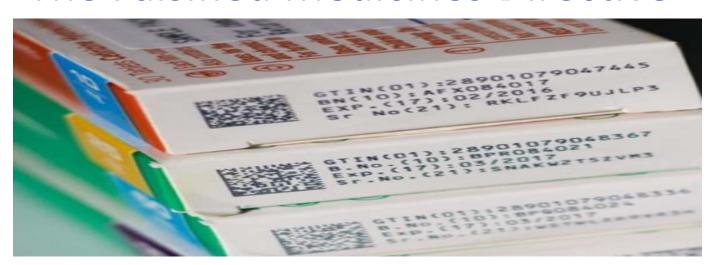
Key Drivers





The Falsified Medicines Directive



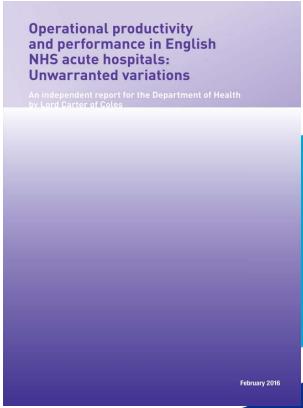


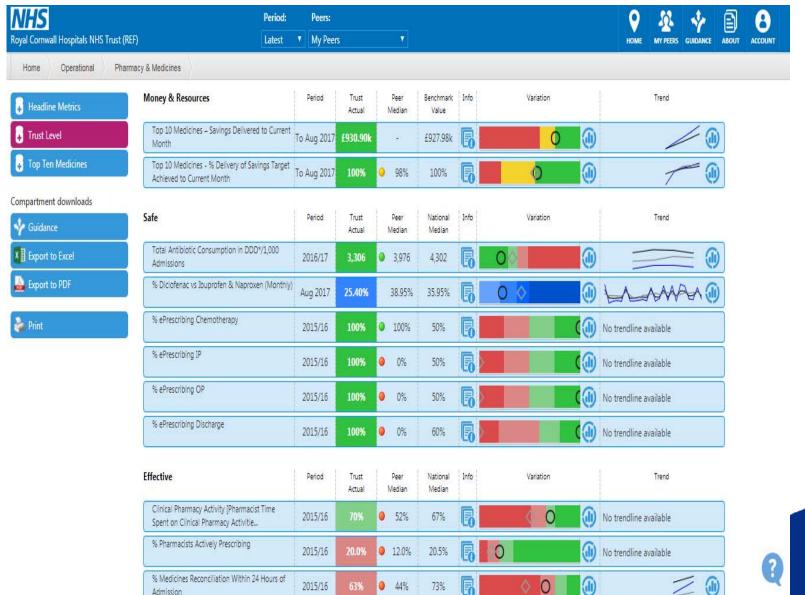




Lord Carter Report









EMR Adoption Model[™]

| Stage | Cumulative Capabilities |
|---------|--|
| Stage 7 | Complete EMR; CCD transactions to share data; Data warehousing; Data continuity with ED, ambulatory, OP |
| Stage 6 | Physician documentation (structured templates), full CDSS (variance & compliance), Closed Loop Medication Administration |
| Stage 5 | Full complement of Radiology PACS |
| Stage 4 | CPOE, Clinical Decision Support (clinical protocols) |
| Stage 3 | Nursing/clinical documentation (flow sheets), CDSS (error checking), PACS available outside Radiology |
| Stage 2 | CDR, Controlled Medical Vocabulary, CDS, may have Document Imaging; HIE capable |
| Stage 1 | Ancillaries – Lab, Rad, Pharmacy - All Installed |
| Stage 0 | All Three Ancillaries Not Installed |

Medicines @HIMSS Level 7



- 1. Paperless prescribing.
- 2. Closed loop medicines administration.
- 3. Closed loop medicines supply.





































Batch Number-

GTIN- Product name- link to dm+d

- Closed loop administration
- Closed loop supply
- Scanning at meds rec
- Advanced shipping notices
- Accurate non-robot dispensing

 Support Product Recall throughout the Supply Chain



Support stock control and patient safety

NHS

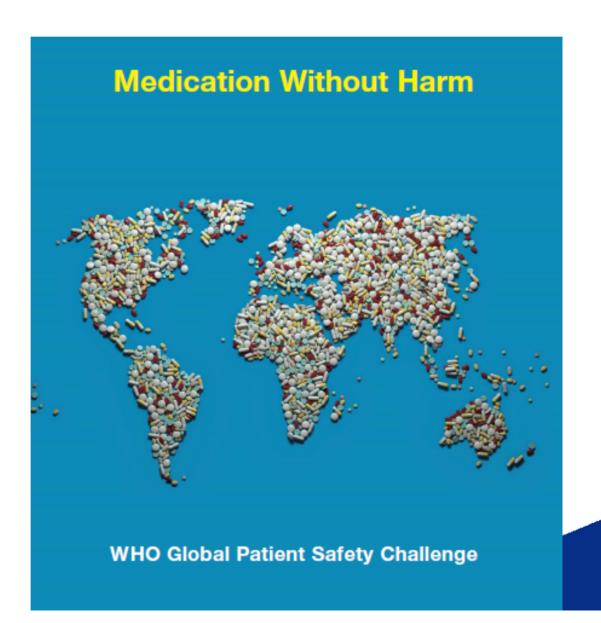


Patient level costing



'GTIN+ Extensions'







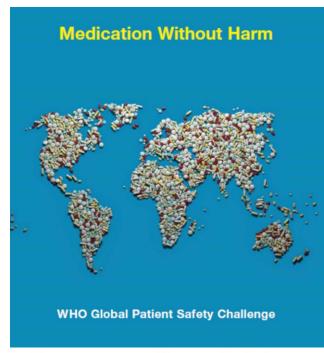
Medication Without Harm

Reduce the level of severe, avoidable harm related to medications by 50% over 5 years, globally



 The scale and nature of this harm differs between low-, middle- and high-income countries. Globally, the cost associated with medication errors has been estimated at US\$ 42 billion annually. Errors occur most frequently during administration, however there are risks at different stages of the medication process.

WHO Global Patient Safety Challenge



 Errors occur most frequently during administration, however there are risks at different stages of the medication process.

Barcode Enabled Medicines Administration (BCMA)

- 23% reduction in administration error rate at 1 year, 66% after 5 years¹
- 41-50% relative risk reduction in administration errors²

The Five Rights

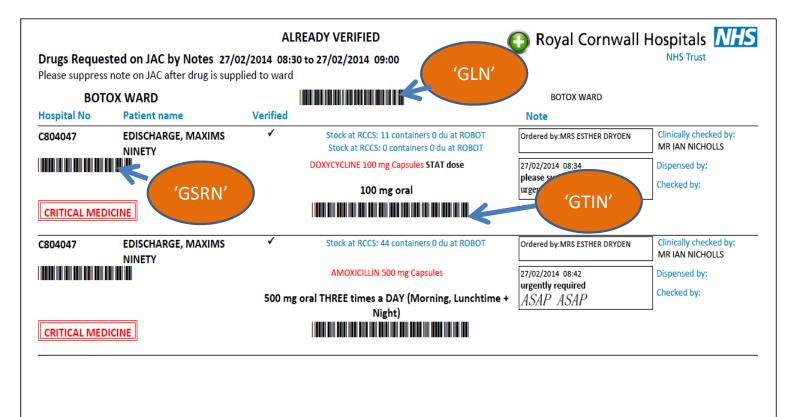
- 1. right medicine
- 2. at the right dose
- 3. at the right time
- 4. by the right route
- 5. in the right patient
- 1. G.A Coyle, M. Heinen, Evolution of BCMA within the department of Veterans Affairs, Nursing Administration Quarterly 29 (1) 2005 32-28
- Poon et al. Effect of Bar-Code Technology on the Safety of Medicines Administration. New England Journal of Medicine May 2006 pg 1698-1707.



What Has Scan4Safety &GS1 Delivered for Us?

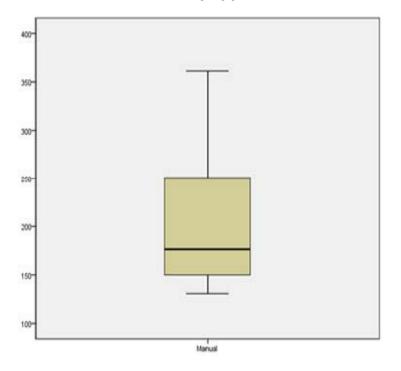


Barcode Enabled Dispensing

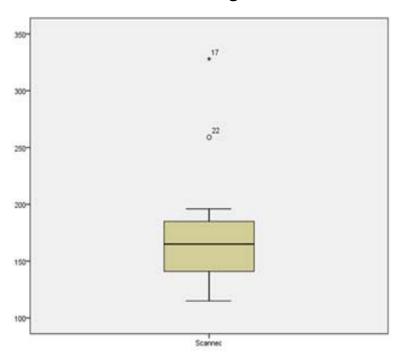


Faster Dispensing (P=0.015)

Manual



Scanning





Safer Dispensing (P<0.001) Prevented Error Rates Reduction

| | Error type | Dispensing Error Monitoring Period 1 (barcode non mandatory) | | Dispensing Error Monitoring Period 2 (barcode mandatory) | |
|-------------------------------------|-------------------|--|----------|--|----------|
| | | Prevented | | Prevented | |
| | | Incidents | Rate (%) | Incidents | Rate (%) |
| Bar-code Insensitive | Administrative | 4 | 0.11 | 2 | 0.04 |
| Errors | Label directions | 13 | 0.35 | 7 | 0.15 |
| Total Bar-code In | nsensitive Errors | 17 | 0.46 | 9 | 0.19 |
| | | | | | |
| | Wrong patient | 1 | 0.03 | 0 | |
| | Drug strength | 5 | 0.13 | 0 | |
| Barcode Sensitive | Drug form | 3 | 0.08 | 0 | |
| Errors | Drug name | 2 | 0.05 | 0 | |
| | Cost centre | 1 | 0.03 | 0 | |
| Total Bar-code Sensitive Errors | | 12 | 0.32 | 0 | |
| | | | | | |
| Total Number of prevented Errors | | 29 | | 9 | |
| Number of non-stock items dispensed | | 3730 | | 4667 | |
| Prevented Error Rate (%) | | 0.78 | | 0.19 (P <0.001) | |



Key Drivers





Thank You For Listening













Different Viewpoints One Goal

32nd Global GS1 Healthcare Conference Chicago, US

Mr. Nick Thomas, Deputy CEO, Plymouth Hospitals NHS Trust, UK October 17th, 2017





Different Viewpoints ... One Goal

Nick Thomas

Deputy Chief Executive
Plymouth Hospitals NHS trust

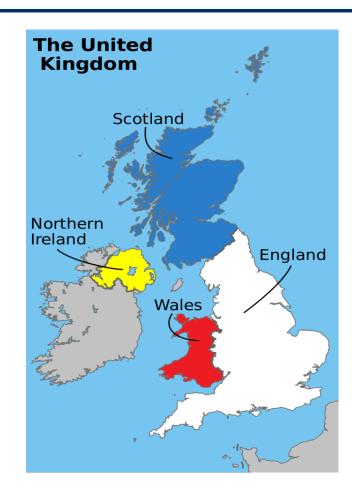






Introduction

- Born in Llanelli, South Wales
- 33 years in NHS, 23 years at Plymouth Hospitals NHS Trust
- Qualified Accountant
- My Board portfolio includes:
 - All major capital schemes
 - The Estate
 - Information Technology
 - Facilities Management
 - Deputy CEO





What it means to be Welsh





The City of Plymouth

- South Coast of Devon, bordering Cornwall
- Population of circa 270,000
- Major tourist area
- Historic Maritime City
- Significant Naval Base
- Large University





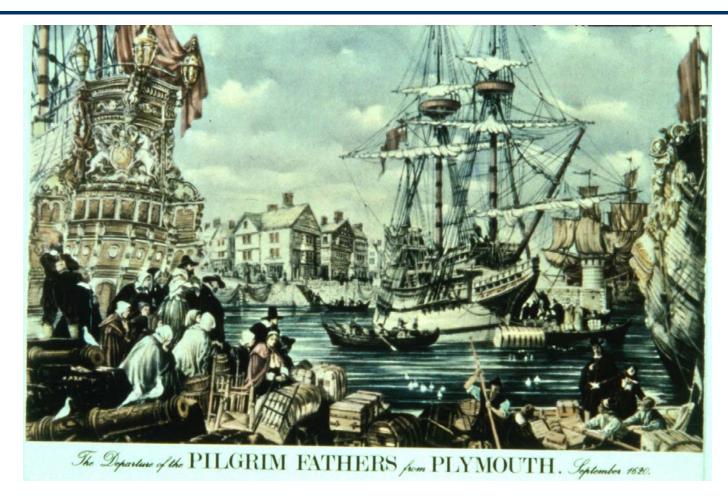


Plymouth – now





Plymouth - then



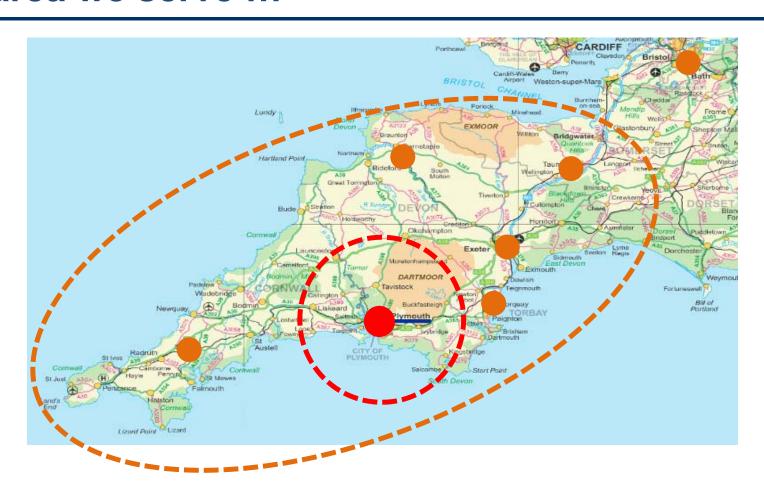


Plymouth Hospitals NHS Trust





The area we serve ...





Unprecedented challenges

Improve Quality

Sustainable

Improve

Access



Tariff Efficiency 2%

Increase

Efficiency

Reduce Harm

Success Regime

DTOC's

NHS

Eliminate Waste

Reduce Costs

£60m by 19/20

Chain Risk



A focus on safety and quality ...

- Positive Patient ID
- Alerts/Product Recall
- Fewer Cancelled Operations
- Improved Access Times







... but also driving efficiency

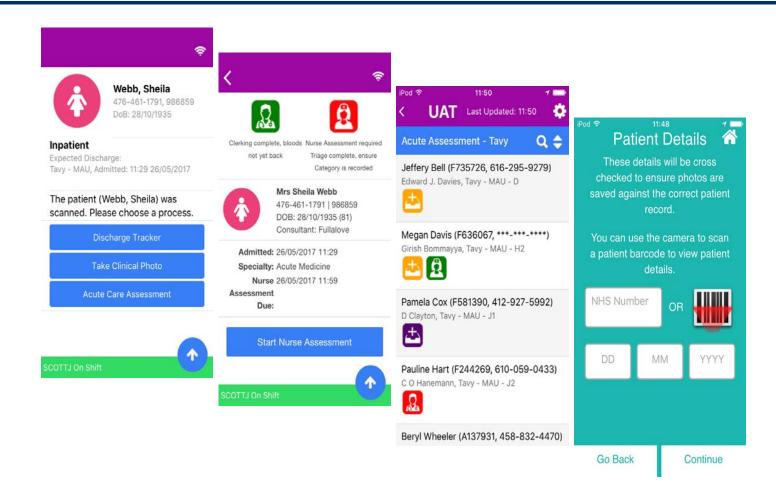
- Improved user interface
- Less paper
- e-procurement
- e-ordering
- Tracking
- Exciting new mobile apps







Mobile Phone Applications





Control

- Store management
- Stock management
- Catalogue management
- Price management







Improving our understanding

Patterns

- Timing
- Consumption





It's all about the BEEP

Every single BEEP tells us a little!

- Who
- When
- What
- Where

.... millions of BEEPs tells us a Ot!



I.N.S.I.G.H.T.

Intelligence

Sourced

Using

Gs1

Health

Technology





Understanding the 'why?'

Plan

Predict

Influence

Change





Improving performance

Through better understanding of variation we can:

- Improve safety
- Improve quality
- Reduce cost
- Reduce waste



... MAKE BETTER DECISIONS



The journey ahead





Most importantly ... these people get it ...





Thank you for listening









Healthcare professionals – different viewpoints, one goal

32nd Global GS1 Healthcare Conference Chicago, US

Panel discussion

October 17th, 2017





Thank you very much for your attention



What has been your biggest challenge that you faced?

• In terms of medicines where do you see the biggest impact ?

 How important is this programme in terms of the NHS being able to benchmark nationally?

