

NHS Procurement eEnablement Programme

NHS Procurement eEnablement Delivery Group





## Coding in the English NHS

Rachel Hodson-Gibbons, NHS Purchasing and Supply Agency

**Chris Slater, Leeds Teaching Hospitals NHS Trust** 

## Agenda

- Scene setting
  - who are we
  - what are we doing
- Implementation -

eEnablement in action - Leeds Teaching Hospitals









#### **National Health Service**

- Established 1948
- State funded from taxation
- Largest organisation in Europe
- 3<sup>rd</sup> largest employer in the world
- Free at the point of use







The NHS employs 1.2 million staff

The NHS provides 1 million treatments every 36 hours



#### **Effective healthcare requires quality** information









#### DrugDescription as described by NHS Trusts nt BLEOMYCIN (AS SULPHATE) INJECTION VIAL 15000 UNIT 1 BLEOMYCIN 15 mg Injection 15 mg ampoule 2 BLEOMYCIN 15 mg Injection 15 mg Vial 3 4 BLEOMYCIN 15,000 i.u Injection 15 i.u. Vial BLEOMYCIN 15,000 I.U. Injection 15000 Unit Vial 5 BLEOMYCIN 15,000 UNITS INJECTION 10x15mg AMPOULES 6 7 BLEOMYCIN 15,000 Units Injection 15 unit Ampoule 8 BLEOMYCIN 15,000 Units Injection 15 unit Vial 9 BLEOMYCIN 15,000 units Injection 15000 microgram ampoule 10 BLEOMYCIN 15,000.IU Injection 15 mg Ampoule **11** BLEOMYCIN 15000 iu Injection 15000 iu Ampoule Bleomycin 12 BLEOMYCIN 15000 units Injection 15 Unit Ampoule 15.000unit powder 13 BLEOMYCIN 15000 units Injection 15000 Unit Ampoule for solution for 14 BLEOMYCIN 15000 units Injection 15000 Unit Vial injection vials **15** BLEOMYCIN INJECTION 1 (This is the single 16 BLEOMYCIN SULPHATE (vials) 15000 i.u. Injection 1 Vial Pack descriptor for this 17 CPD BLEOMYCIN 15 mg INJECTION 1 product from dm+d) 18 BLEO KYOWA (BLEOMYCIN) INJECTION 15,000units 10 130:1 19 BLEO-KYOWA (BLEOMYCIN) INJECTION 15,000units 10 **20** BLEOMYCIN (1486D) 15 international units Injection 10 x 15 unit Ampoule Pack 21 BLEOMYCIN (15mg) 15000 units Injection 10 Ampoule Pack 22 BLEOMYCIN (ampoules) 15000 units Injection 10 x 15 unit Ampoule Pack 23 BLEOMYCIN (AS SULPHATE) INJECTION VIAL 15000 UNIT 24 BLEOMYCIN (in vials) 15000 units Injection 10 Vial Pack 25 BLEOMYCIN (Vials) 15000 Units Injection 10 Vial Container 26 BLEOMYCIN (VIALS) 15000 units Injection 10 Vial Pack 27 BLEOMYCIN [VIAL] 15,000 units Injection 10 Vial Pack 28 BLEOMYCIN 15 000 units INJECTION 1 PACK 10 VIALS 29 BLEOMYCIN 15 000iu [WAS 15iu jf1/98 INJECTION PACK 10 q 30 BLEOMYCIN 15 000iu INJECTION 10 vials 7



## **Coding for Success**





DH issued policy to use GS1 coding to support the application of AIDC technologies *Coding for Success – February 2007* 



•Of 8 million admissions to hospital in England each year, about 850,000 result in patient safety incidents which cost the NHS about £2 billion in extra hospital days.

- AIDC contributes to patient safety common coding standards are essential
- GS1 standards recommended as DH policy

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• DH funded membership of GS1 for NHS – for use of GS1 coding within NHS organisations

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### NHS Procurement eEnablement Programme





 Procurement eEnablement in the NHS

 Using information to deliver better health care

 Executive summary

 Image: State of the state of th

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NHS Procurement Enablement Delivery Group Page 1 of 13 June 2007 Gateway no. 8387 • Implements strategy set out by *Procurement eEnablement in the NHS – Nov 2007* 

• Established by NHS procurement community – ...... response to the current position – key enablers missing from NHS

• Pragmatic steps using current business and technology environment to put in place effective use of procurement eEnablement systems across NHS.





#### **Procurement eEnablement**



#### <u>The application of communication and electronic</u> <u>technologies to commercial and procurement processes</u>

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Procurement eEnablement technologies



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### Whole system

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## **Benefits**









#### Outputs of NHS Procurement eEnablement Programme



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Common direction of working, ownership by the business



• Interoperability between systems, once-only management of core procurement data – supplier, product

# Key issues – NHS data standards and interoperability rules





#### NHS- eClass ↔ UNSPSC







The global language of business

GTINs





**GLNs** 



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#### But what will this feel like for patients?











#### eEnablement of Leeds Teaching Hospitals NHS Trust

**The Toolkit Approach** 

**Chris Slater, Head Of Supplies** 

NHS Trust

GS1 International Conference Washington, DC – 17th June 2009

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#### **Building Blocks of e-Enablement**

•Supplies strategy approved at Trust Board level- senior executive buy in.

•Patient focused e-Business Strategy

•Stakeholder consultation in clinical product cost and qualitative selection – e.g. Trauma & Orthopaedics – clinical buy in.

•Business process mapping

•Commitment to Trust-wide Item Master

- •Adoption of National DOH / e-Enablement standards
- Interoperable technologies The Tool Kit

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•Need for local policies

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Procurement eEnablement in the NH







#### **Supplies Policy Documents**





#### **Data Management:**

#### **Cleanse and Correct Your Data**

•GHX Nexus used to cleanse data from different suppliers and convert them to a standard format. The data consolidation is provided in several steps:

»Data Assembly

»Data Cleaning

»Quality Assurance of Data

»Prices added at a local level

•Catalogue now in excess of 750,000 items however we use about 75,000

•e-Enablement coding & classification standards

GS1: GTIN, Auto ID, Data carriers, Serialisation, AIDC, Product Traceability, Classification, Data Synchronisation DUNS, NHS e-class















Get e-Connected

February 2002 – Leeds become first hospital in Europe to trade through the Global Healthcare Exchange
2009 150 suppliers & 70% order volume
Single point of connectivity

Two way transactional data including e-invoicing at line level

•Transactional XML (orders, ASN, invoices)

•Product Coding (GHX part of GS1 in US)

•e-mail and e-fax for small companies





#### **Customer Requirements**

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Segment the customer base

- Computerised inventory management for high value areas – Radiology and Cardiology, Orthopaedics, Trauma (RFID)
- Materials Management 270 sites Wards & Theatres
- Self-service web-enabled CSSD, Wards & Theatres-Only catalogued items

All depend on quality data!!!



#### **Computerised Inventory Management** Bar Code Scanning introduced in Catheter Labs



 Computerised inventory management system which operates along similar lines to systems available in major supermarkets.

- As goods are used, they are passed in front of a bar code scanner and the stock is adjusted accordingly.
- From this point, the system is totally paperless and orders are scheduled and then encrypted and sent via the internet
- Best Practice Guide for NHS
- Health Service Journal Award for Improving Patient Care with e-technic



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#### **Benefits from Catheter Lab Project**

- Reduction of stock by approximately £900k over 12 months
- Nursing time freed up to concentrate on patient care and clinical tasks
- Increased budgetary control spend is allocated to individual specialities
- Improved working relationship between supplies and catheter lab clinicians informed product changes
- Significant reduction in order processing costs
- Orders streamlined through IT systems weekly orders down from 10 to 2
- A significant reduction in obsolescence and "no longer in use" products resulting in less write offs
- Reduction in the number of ordering errors in terms of incorrect product codes being used
- Finance department no longer need to carry out a manual monthly stock take of stents.





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#### **Inventory Control in Orthopaedics**







ORACLE

## **GHX** PowerGate



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#### **Orthopaedic theatre benefits**



• Over £400k of 'consignment' stock found to belong to the Trust when implementing Powergate Inventory at LTH. No method of identifying product could be utilised without bar coding for AIDC.

- Paper systems are error prone in identifying correct product
- Stock Outs Cancelled Operations / wrong product in theatre
- No trend information
- Cost of returning goods

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#### True product cost per case



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Costs (£)

#### **Total Management of the Supply Chain for 300 Theatre and Ward Areas**









- 300 Sites managed through Supplies using PDA's for automatic data capture saving thousands of hours of clinicians time
- Average saving for a new site is £2,000 which is typically re-invested in storage. Best Practice Guide for the NHS.
- Low value product not tracked to patient level

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- $\bullet$  Total spend on hospital consumables 2007/8 was £19m through third party distributors.
- Product formulary managed on a rolling basis so that the most cost effective route is chosen.

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#### Storage...











Trauma Theatre Stores transformation in one weekend thanks to materials management





#### **Electronic storage...**

A new kind of storage using automated dispensing cabinets in Geoffrey Giles Theatres.









#### **Lessons Learned:**





#### Accurate data is essential

- Synchronise data with suppliers
   »Adopt International standards
   »Move dispute resolution to the beginning of the process
- Maintain contract details

   Introduction of e-tendering solution
   Item master maintenance outsourced to GHX Nexus with inputs direct from supplier
   Need for GDSN –Data pool
- Understand the current process before making changes
- Dedicated supply chain resource as point of use financed from savings
- Monitor and correct data



#### **Product Code Accuracy through**







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#### Payments:

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#### **Simplify Accounts Payable**

- Accurate orders = accurate invoices
- Electronic Invoices currently 42%
- e-invoice target 50% by 2009/10
- PSPP improvements 10 day target in current climate and 95% to term
- Makes for better supplier relationship management









LTH VALUE of ORACLE INVOICE PAYMENT YEAR ENDING 31/03/2004 TO 31/03/2008



#### **Invoices Received 2004-2008**

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#### **Future local developments**



- Loan Component Identification- pilot
- RFID Tags on loan components within kits GS1
- Automatic generation of purchase orders upon return of kit to supplier
- Continued roll out of inventory management in all high cost stock areas
- GLN pilot with third part distributors





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# eEnablement within Leeds Teaching Hospitals







#### **Contact details**







**NHS Procurement**