

# Where and how to start implementing GS1 standards in a hospital



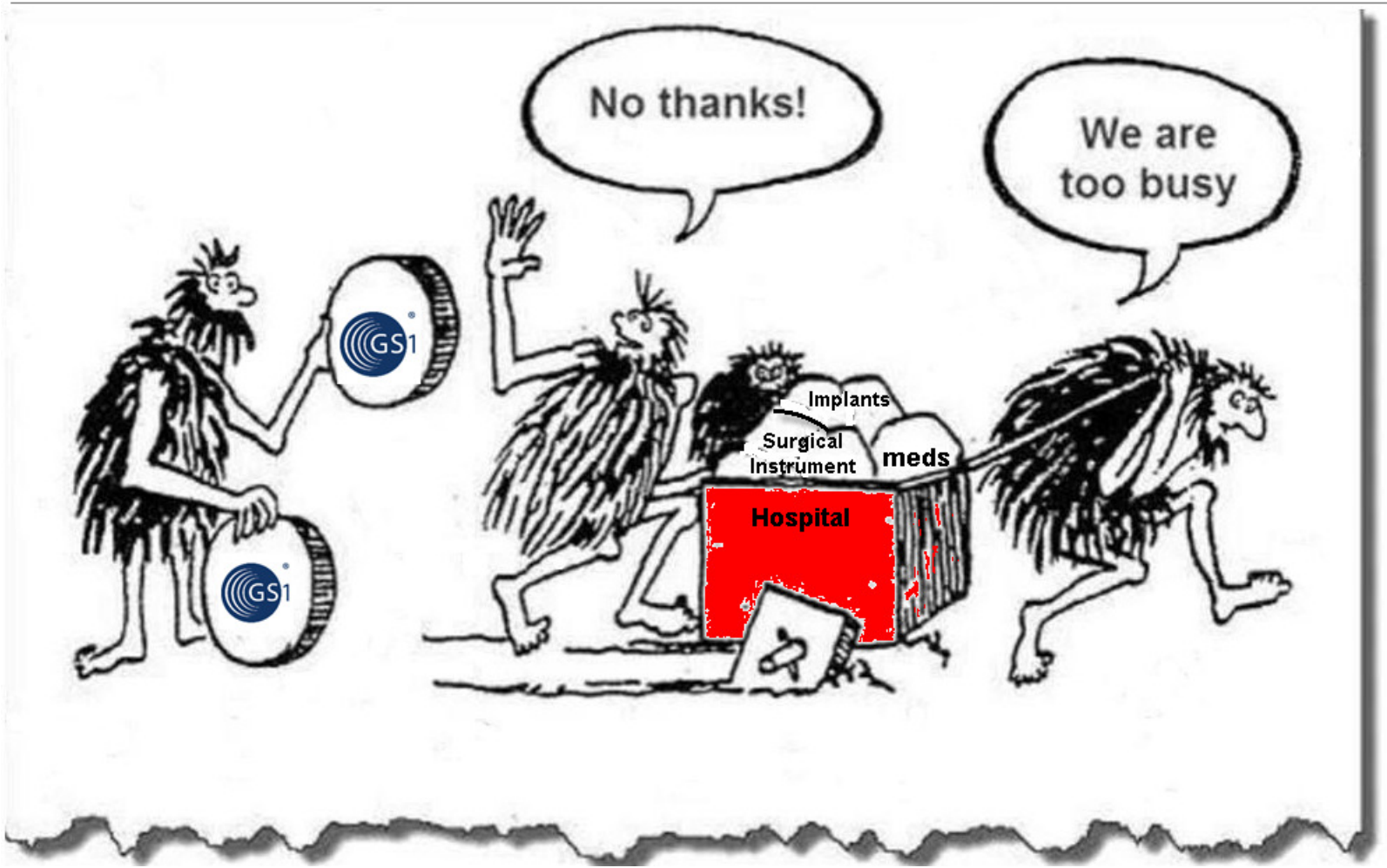
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**WHY?**





# GS1 Standards help save €1.1 million at NHS Leeds Teaching Hospitals (UK)



**NHS Leeds Teaching Hospital** – a 2,500-bed university hospital in the UK - Europe's largest university hospital



## Issue(s)

- Increased pressure to improve patient safety and save costs in hospitals
- Suboptimal management of inventory of medical devices at the hospital's Orthopaedic Centre
- High stock levels and system integrity problems arising from consignment stock and vendor-managed inventory

## Solution

- Implementation of an inventory control system through GHX
- Implementation of GS1 Standards, including GTIN, GS1 BarCodes and GDSN

## Results

**Savings through consignment stock reduction: €600k**

**Savings through elimination of excess stock: €500k**

- Reduced consignment stock, which reduces process and write-off costs for the supplier and the hospital
- Reduced obsolescence through stock visibility, stock rotation and stock levels that ensure usage within expiry
- Reduced emergencies thanks to improvements in forward demand/stock planning
- Reduced cost of carriage as stock delivered on efficient lead times and using scheduled deliveries



# GS1 Standards help save 7% in medication purchasing and packaging in North York General



**North York General Hospital** - a 434-bed hospital in Toronto, Canada



## Issue(s)

- Risk of medication errors at the point-of-care due to insufficient product identification
- Lack of unit-dose bar coding of medication

## Solution

- Installation of an automated repackager and bar coding station
- Implementation of a point-of-care bar code verification system to ensure the five patient rights
- Implementation of GS1 Standards, incl, GTIN and GS1 BarCodes

## Results

**Reduced medication errors at the point-of-care**  
**Cost savings of 7-8% each year in terms of its medication purchasing and packaging activities**

- Estimated cost to implement system in the hospital: €248k
- Efficiently affixing bar codes to unit doses
- Efficient bedside verification

# GS1 Standards help enable traceability of surgical instruments at CHI Robert Ballanger (2009)



**CHI Robert Ballanger** - a 690-bed hospital in Aulnay-sous-Bois, France



## Issue(s)

- Ineffective traceability of 22,000 surgical instruments during sterilization process

## Solution

- Implementation of a traceability system
- Lasermarking of surgical instruments with GS1 DataMatrix 2D bar code
- Implementation of GS1 Standards, including GTIN, GLN and Global Traceability Standard

## Results

### **Effective traceability of surgical instruments during sterilization process**

- Increased inventory management
- Increased traceability down to the individual instrument level
- Migration of instruments between boxes now traced

# McKinsey & Company report quantifies supply chain issues in Healthcare



New McKinsey report “Strength in unity: The promise of global standards in healthcare”

**Highlights the cost savings and patient safety benefits of adopting a single global supply chain standard in healthcare**

Available at:

<http://www.gs1.org/healthcare/mckinsey> or

[http://www.gs1.org/docs/healthcare/McKinsey\\_Healthcare\\_Report\\_Strength\\_in\\_Unity.pdf](http://www.gs1.org/docs/healthcare/McKinsey_Healthcare_Report_Strength_in_Unity.pdf)

Source: <http://www.mckinsey.com>



# Huge cost savings and patient safety benefits when adopting a single global standard in healthcare

- “Implementing **global standards** across the entire healthcare supply chain **could save 22,000-43,000 lives** and avert 0.7 million to 1.4 million patient disabilities”
- “Rolling out such standards-based systems globally **could prevent tens of billions of dollars’ worth of counterfeit drugs** from entering the legitimate supply chain”
- [We] “estimate that **healthcare cost could be reduced by \$40 billion-\$100 billion globally**” from the implementation of global standards
- “Adopting a **single set of global standards** will cost significantly less than two” (between 10-25% less cost to stakeholders)







**WHY GS1?**



# How standard are standards in healthcare?

‘The nice thing about standards is that  
there are so many to choose from’

*(Andrew Tannenbaum, the Vrije Universiteit, Amsterdam)*

to which has been added .....

‘and if I can’t find one I like, I’ll make up  
my own!’

*(Paul Amos, Information Standards Board for Health and Social Care in  
England, UK).*



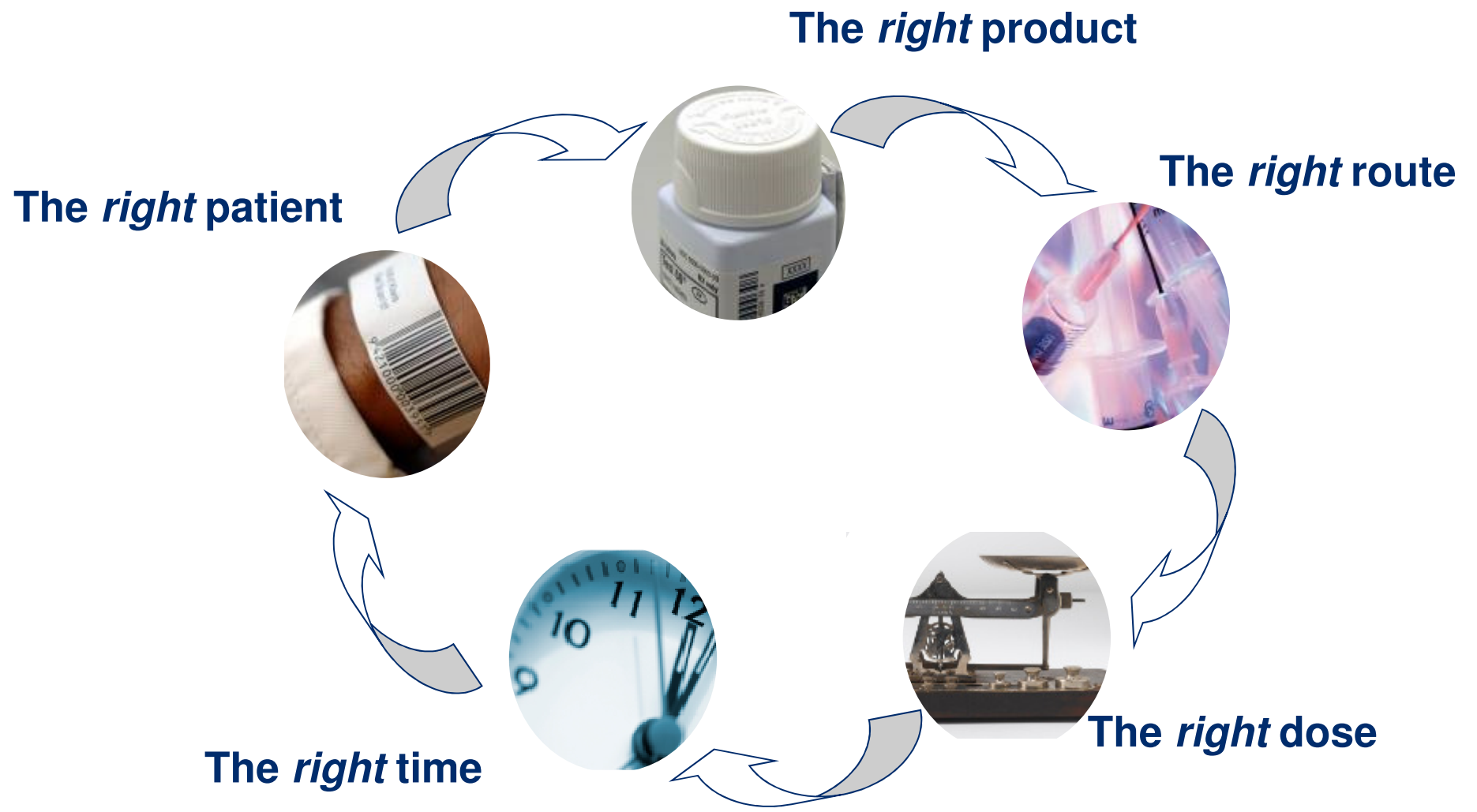
# ..in Healthcare it is dangerous and ineffecient!



- Multiple bar codes on one package – which one to scan?
- Different types of bar codes – inconsistency; incompatibility
- No bar code – need to bar code; re-package; re-label



# Ensuring **the '5 Patient Rights'**



# Benefits for Patient Safety

- Improved **recall** procedure and **adverse event** reporting
- **Documentation** of product/patient relationship – in **Electronic Health Records (EHR)** and registries
- **Visibility** of **inventory** – availability of devices
- Reduction of **medical errors**
- Supply chain **security/anti-counterfeiting**



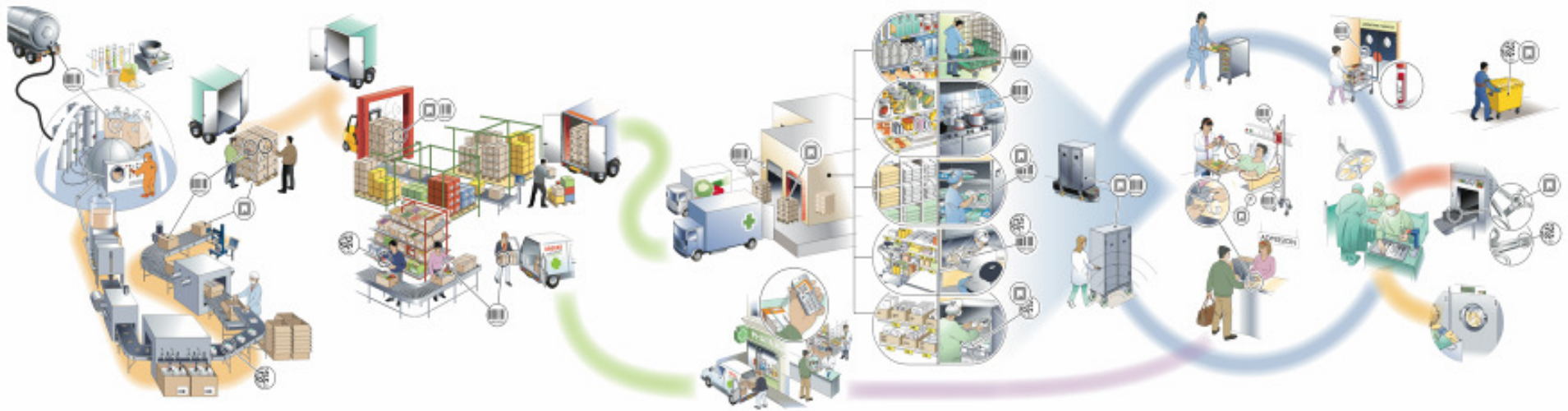




**HOW?**



# Voluntary, Global Healthcare User Group



To lead the healthcare sector to the successful development and implementation of **global standards** by bringing together **experts** in healthcare to enhance **patient safety** and **supply chain efficiencies**.

# Our speakers

People who have helped make this a reality

- **Justin Bitter**, MSc, Manager OR at Bernhoven Hospital, the Netherlands
- **Pauline Biggane**, Project Manager for RIMD/Endoscope Track and Trace Project, Office of Chief Information Officer, HSE, Ireland
- **François Bisch**, Pointe à Pitre :University Hospital, Guadeloupe

