



Hospitals implementing GS1 standards – why?

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<https://www.youtube.com/watch?v=gh5xu35bAxA>





Agenda

- The obvious
- The blindingly obvious
- How to make it obvious?
- You can help...obviously!!





The obvious

Standards improve patient safety...

By protecting from counterfeiting...





Counterfeit Drugs Lab





The end product





GS1 Standards

- Random serialisation
- GDSN
- EPCIS
- Reduce counterfeit opportunities and detect fake products





The blindingly obvious!

Medicines are supposed to save lives...

Dying from a disease is sometimes unavoidable; dying from a medicine is unacceptable.

(Lepakhin V. Geneva 2005)



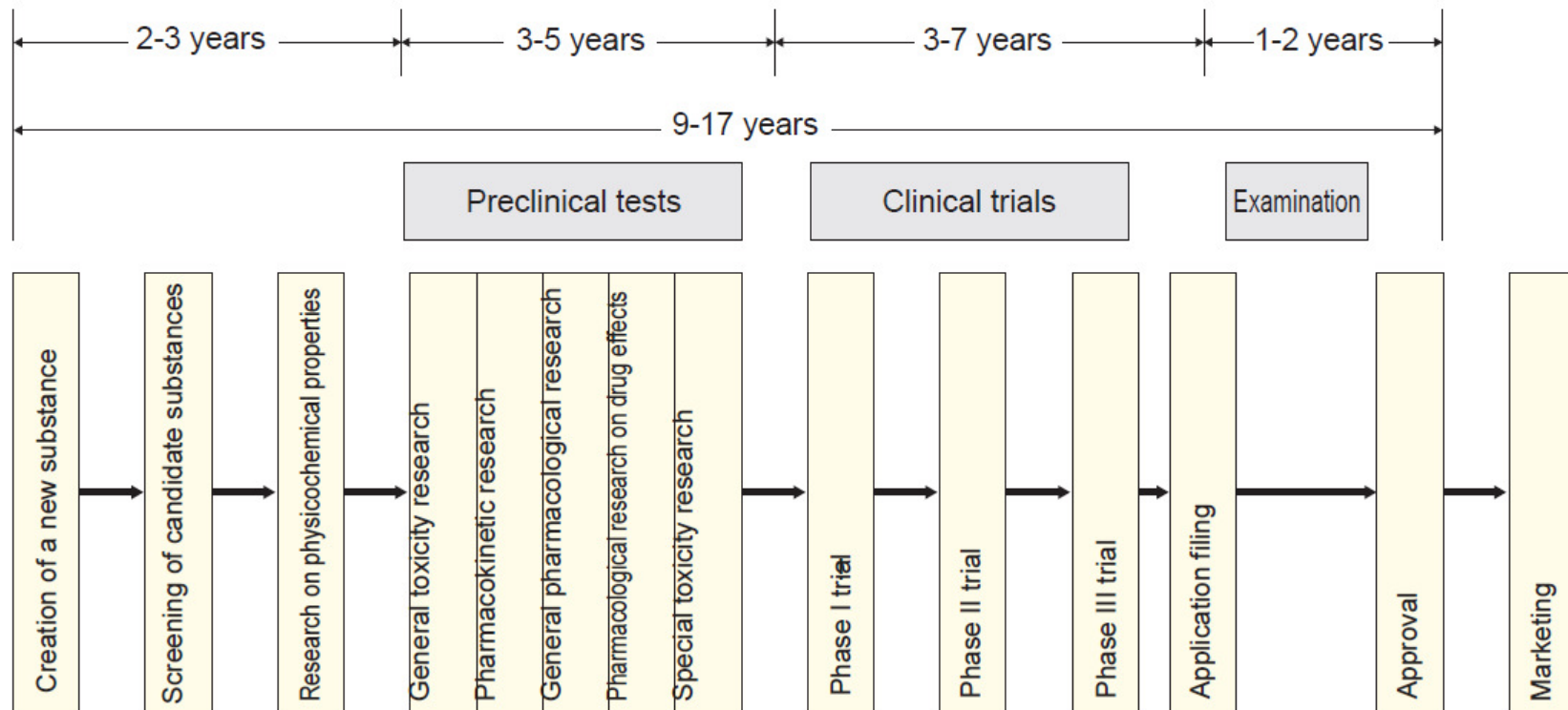


Pharma Drug manufacturing

Overview

Process and Period of New Drug Development

It is considered that 9-17 years and ¥50 billion are required to develop a new drug.





Drug development...excellent!



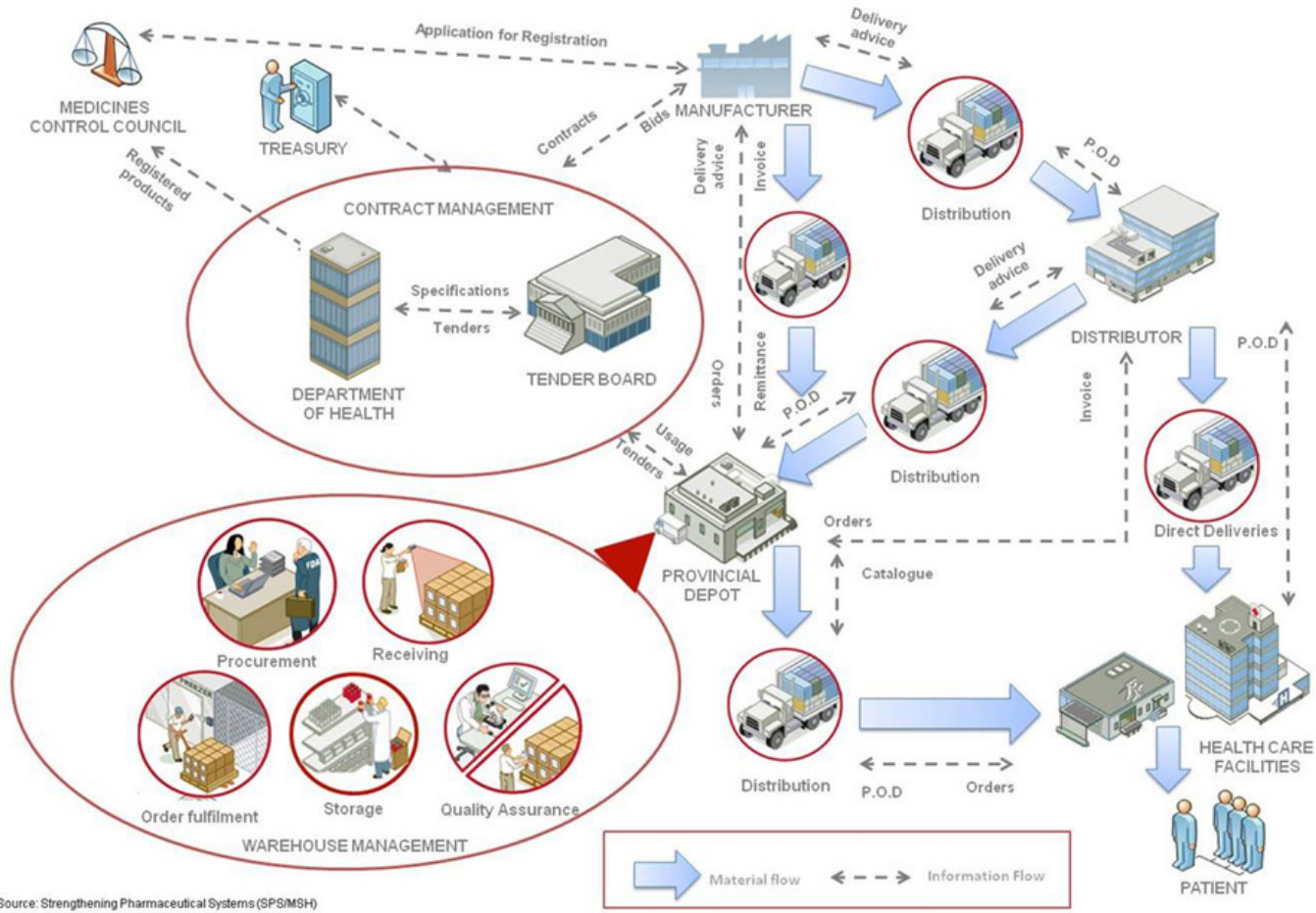


Quality and Validation...excellent!





Pharma Supply Chain... excellent!



Source: Strengthening Pharmaceutical Systems (SPSMH)



**When the drug gets to the patient....
not so excellent!
Not counterfeit but just as dangerous!**



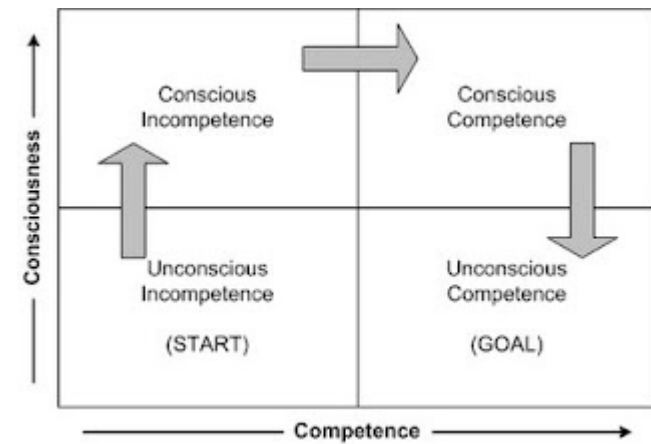
Would barcode scanning have prevented this? Absolutely!



How do we make standards obvious?

4 Stages of Competence

1. Unconscious Incompetence
2. Conscious Incompetence
3. Conscious Competence
4. Unconscious Competence



(Noel Birch 1970)

<http://www.buzzle.com/articles/what-are-the-four-stages-of-competence.html>





HPAC Slide Deck for Hospital C-suite

- Many Hospitals are unconsciously incompetent (Stage 1)
- Use the slide deck to make them consciously incompetent (Stage 2)
- GS1 offer advice and support to achieve conscious competence (Stage 3)
- GS1 standards become a “given” for all tenders and suppliers (unconscious competence (Stage 4))





Examples from C-Suite Slide Deck

- Surgical Instruments
- Medication
- Implants
- EHR
- Supply chain efficiency





Each Case study outlines


- Issue
- Solution
- Implementation costs
- Results (including Return on Investment (ROI))





A few examples...

GS1 Standards help save 7% in medication purchasing and packaging in North York General (2006)



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

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



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



Issue(s)

- Ineffective tracability 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

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



GS1 Standards help save €5 million worth of stock at St. James's Hospital (2010)



Issue(s)

- Infected medication remained in the supply chain after recall in 2001- leading to subsequent infection and over 80 deaths
- Lack of standardised bar codes on haemophilia medication and ineffective traceability

Solution

- Deployment of multi-location Electronic Patient Record system
- Deployment of medication delivery traceability system
- Implementation of GS1 Standards, including GTIN, GLN, GS1 DataMatrix

Results

Over € 5 million worth of medication stock has been removed from the supply chain

- Product wastage reduced from €90,216 to zero in the year post service implementation
- Documentation errors reduced from 12 to zero in the year post service implementation

Mock recall identified location of all (100%) medication within 10 minutes

St James's Hospital, Dublin (Ireland) – manages the National Centre for Hereditary Coagulation Disorders (NCHCD)






You can help...obviously!!

- **Healthcare providers**
 - ... Join HPAC
 - ... Share your successes
- **GS1 MO's**
 - ... Encourage Healthcare providers to join HPAC
 - ... Visit Hospital C-suite and use the slide deck
- **ALL Healthcare Stakeholders**
 - ... Share the McKinsey White Paper with anyone and everyone!





A bit of humour...

<http://www.youtube.com/watch?v=VgNHM0eLWzA>





Hospital Plenary – our next speaker...

“Improve patient safety and efficiency in the OR”

Justin Bitter

Head of OR, University Medical Centre
Nijmegen, Netherlands

