The missing link in patient safety

Thomas De Rijdt

Global GS1 Healthcare conference 04-10-2011
Who’s talking?

- Thomas De Rijdt, PharmD
- Vice-president of B.A.H.P. – Belgian association of hospital pharmacists
- Boardmember of V.Z.A. – Flemish association of hospital pharmacists
- Assistant-head of pharmacy UZ Leuven
About what?

Not about barcoding …

… but about **patient safety**!
When something happens ...

- Who’s afraid to go to the hospital?
- Why are you afraid?

Nothing can go wrong, we don’t make mistakes!

Until 1999
To err is human ...

- Report Institute of Medicine: “To Err is Human” (1999)
  - 44,000 – 88,000 deaths/year by medical errors
  - Extrapolation for Belgium:
    - 1000 deaths / year (<150 medication errors)
    - € 2,500,000 / year for 700 bed hospital
  - Avoidable ADE in 2 % of the admissions
Distribution of medication errors

- 34% (Scanning)
- 62% (CPOE)
- 4% (Pharmacy)
From prescribing to C.P.O.E.
Decision support for prescribers
You’re not a number …
Bedside scanning …

- The final checkpoint!
- Requirements
  - Fully deployed CPOE
  - Hardware and software
  - Barcode on every single dose
- UZ Leuven
  - Already for blood and antineoplastic drugs
  - All medication from 01-01-2012
    - 14.000.000 doses / year
Packaging …
Single dose, barcode …

- Single Dose versus Unit Dose
... hard to get!

- How to get 14,000,000 doses ready?
  - Repacking in the pharmacy
    - Legally seen as compounding
    - GMP in cleanroom
    - Time consuming
    - 4 blistering machines
  - Outsourcing
    - Legally seen possible
    - GMP in cleanroom
    - Expensive for small batches
With a little help … ?

• Companies are not interested
  – Change in production line, registration, …
  – Cost
  – Market

• Official request from UZ Leuven
  – Willingness at base
  – Management does not follow
    • Blisteringlines are European or global
    • Need for a standard and legal obligation
The global language of business

OVERALL BENEFIT: Improving efficiency & visibility in supply and demand chains

GS1 SOLUTIONS & SERVICES USING GS1 STANDARDS
Solutions: POS / Inventory Management / Asset Management / Collaborative Planning / Traceability
Services: Global (GSMP, GEPIR, Global Registry, Training and Accreditation) & Local (e.g. Certification, Implementation, Training)

GS1 BarCodes - Global standards for automatic identification

GS1 eCom - Global standards for electronic business messaging

GS1 GDSN - The environment for global data synchronisation

EPCglobal - Global standards for RFID-based identification

GS1 System - Integrated system of standards

Rapid and accurate, item, asset or location identification

Rapid, efficient & accurate business data exchange

Standardised, reliable data for effective business transactions

More accurate, immediate and cost-effective visibility of information

GS1 Identification Keys (e.g. GTIN, GLN, SSCC, GRAI, GIAI, GSRN, EPC) & Attribute Data (e.g. Best Before Date)

vereniging het standpunt van de European Association of Hospital Pharmacists (EAHP) bij.
Confusion due to dual request.

• Bulk is NOT DONE!
Why SD/BC by company?

- GMP production facility
- Optimal storage conditions *(primary)*
- Minimal cost *(just do it once, big batches)*
- Liability
- Protection against counterfeiting *(serial number)*
- Supply chain management *(all packaging levels)*
- Customer support *(P&T committee, track and trace, …)*
Re-engineering …

- Healthcare logistics in the future
  - Automatisation
  - Robotisation
  - Standardisation
  - Track and trace

21st century

Less errors
More safety
Better therapy
Questions ?