Improvement of Patient Safety and Quality of Care in the Operation Room

deventer
ziekenhuis

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Business Case Deventer Hospital
Presented by Bart Gietema, Head of Surgery

Compliance with the Dutch Safety Management System Regulations on Preparation Administration of High-Risk Parenteral Medication

Agenda

- **Introduction**
  - Deventer Hospital
  - Operation Room

- **The Challenge**
  - Current Situation
  - Project Objectives

- **The Solution**
  - Live Demo

- **The Result**
  - Current Challenges
  - Future Objectives

- Newly built hospital, 2008
- The 'most beautiful building' of the Netherlands

Facts & Figures

- 21,000 surgeries per year
- 11 operation rooms
- 110 full-time employees

Project Parenteral Medication and Verification in the Operation Room

- Phase I   September 2011
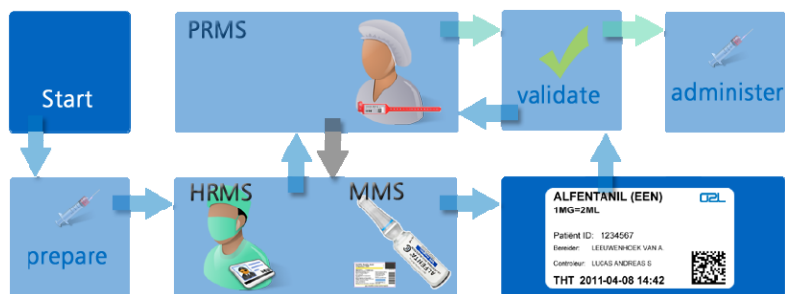- Phase II   March 2012
- Phase III   … 2012

- Manual process
- '4-eyes' validation check difficult
- Combination of pre-printed & handwritten label
- No validation in HIS (Chipsoft)
- Non-compliance to the Dutch Safety Management System Regulations on Preparation and Administration of High-Risk Parenteral Medication (VMS Veiligheidsprogramma)
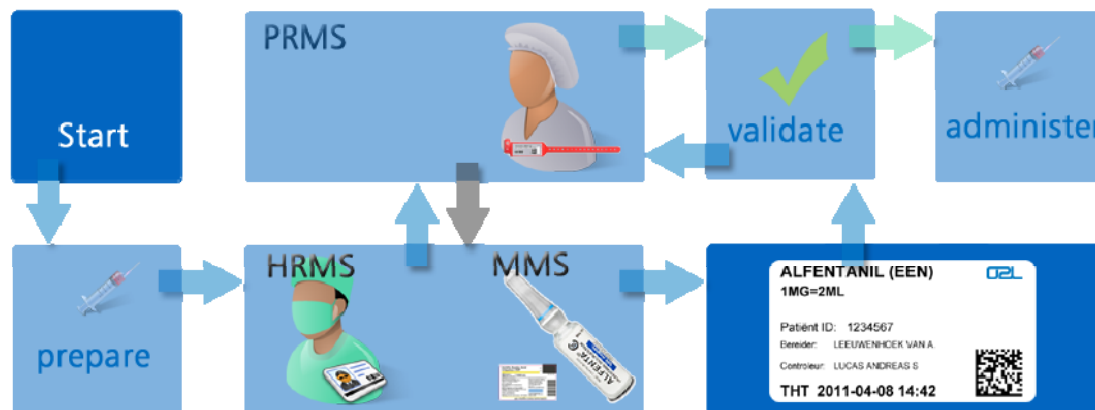
Our Objectives

- Eliminating error-prone (often manual) processes
- Replacement of '4-eyes' check by '2-eyes' with an automated standard solution
- One standard type of medication label
- Validation check with HIS (ChipSoft)
- Track & Trace
- Improve patient safety and quality of care r
- Reduce costs
- Comply with the Dutch Safety Management System Regulations on Preparation and Administration of High-Risk Parenteral Medication

New Process

1. Prepare medication
    1. Identification employee
    2. Identification medication
2. Generate medication label
3. Apply to syringe
4. Scan medication
5. Validation check and registration in HIS

Web-based Medication Labeling Service

1. Prepare medication
   1. Identification employee (scan)
   2. Identification medication (scan)
2. Generate medication label (with 1D or 2D barcode)
3. Apply to syringe
4. Scan medication label attached to the syringe
5. Validation check and registration in HIS

- For a demo you can contact us at info@t2s.nl or +31 (0) 180 545151

Validation Check and Registration in HIS (Chipsoft)

Validation Check and Registration in HIS (Chipsoft)

Bart Gietema in the Operation Room with on the left screen the O2L Medication Labeling solution and on the right screen ChipSoft (HIS).

September 2011

- Medication labeling service in use!
  - Investment 5 working days
  - Reducing costs by eliminating '4-eyes' check

Current Challenge

- Not all parenteral medication is supplied with a barcode
  - the barcode used is not standardized
  - the information provided in the barcode is incomplete or not usable
  - re-labeling is necessary

Phase II   September 2011 – March 2012

- Official approval of Dutch Safety Management Institution

- Set up a hospital-wide program on medication labeling
    - In close cooperation with the hospital pharmacy
    - Decide on parenteral medication
        - Re-label or purchase only medication with "scannable" barcodes
    - Determine the AIDC standard for medication
        - Barcode symbology and contents
        - Unique identifiers for preparations
    - Hardware

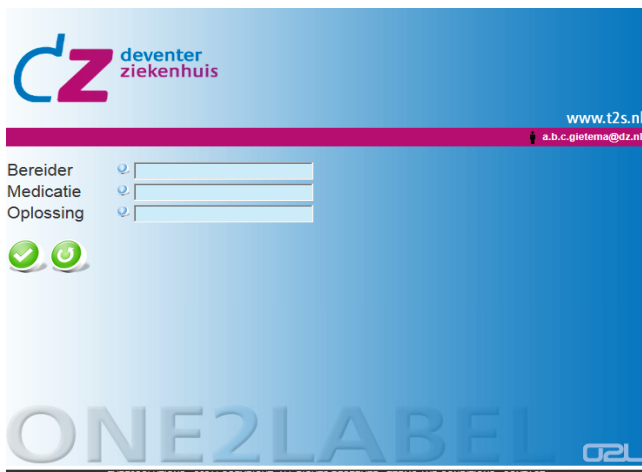Phase III   March 2012

- Implementation

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Please contact us and talk to one of our GS1 experts and see how we can help you to start improving patient safety and supply chain efficiency today!

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Thank you for your attention