Erasmus MC

Creating value in Healthcare

Erik Zwarter, project manager
Introductie

Project manager
- Process optimalisation (LEAN)
- Software-implementation
- Innovation (AIDC)
- Patient safety
- Traceability

co-chair GDSN Netherlands
member of GS1 Healthcare Taskforce NL
10.262 (8417 fte)
653 (594 fte)
Capacity of patient care

1221 beds
Capacity of patient care

38,555 admissions
Capacity of patient care

7,9

Average patient days
Strategic triangle

Development new hospital

Organizational change
ICT innovation (EPR)
Erasmus MC is building
Strategic triangle

- Development of new hospital
- Organizational change
- ICT innovation (EPR)
Thematic approach

- Brain and senses
- Oncology
- Surgery and Internal Medicine
- Cardiovascular
- Women and Children
- Emergency and intensive care
- Diagnostics
Erasmus MC is an internationally recognized center for excellent, dedicated patient care, highly rated transfer of knowledge and high-quality knowledge development in the fields of illness and health.
Coalition Agreement

- Cross connections between core tasks of patient care, education, and research
- In patient care
  - Care pathways
  - (poly) clinical capacity
- Thematic approach
  - board and management
  - support
- Change management
Strategic triangle

Development new hospital

Organizational change

ICT innovation (EPR)
Perspective 2011

- ICT Care innovation:
  - Implementation of new EPR.
  - Migration and phasing of HIS.
  - Old EPR: transition policy in transition period.
  - Laboratory logistics systems and medication logistics.

- ERP Oracle eBS (Finance, Purchase, Logistics, HRM).

- Record management: value creation from data.
Value creation: data-knowledge challenge

Source: Michael N. Liebman, PhD
Executive Director Windber Research Institute
Key figures ICT

€ 25 mln
Key figures ICT

301 fte
Key figures ICT

9500 workplaces
Key figures ICT

175 different applications
Current architecture
History of standardization

Old Dutch is a collection of city and regional dialects (9th century)

Absence of a single language.

In the 12th century it was needed for book and literary and official texts and documents
Automatic identification

- What method of working?
- Why are we doing this?
- What interface technique?
- What (patients, material e.g.)
- How (manual, RFID, barcode)
- Which (scanner, PDA e.g.)
Medication verification

- Project on ICU Children & Pharmacy
- Reducing medication errors

Issues
- Braun IV pumps, PICIS PDMS system.
- Datastructure
- Different material flows

L. Hanff, J. Hazelzet, I. Wouts, E. Dekker, E. Zwarter, Erasmus MC, Rotterdam
Project Oceanus

Electronische toedieningsregistratie op de IC
Blood transfusion

- Project Hematology lab and clinic, OR and ICU
- Reducing failure modes
- Tracking and tracing blood products

Issues:
- wristbands,
- labels,
- device.

M.R. van Bohemen, J.G. Boonstra, Y.B. de Rijke, P.A.W. te Boekhorst, E. Zwarter, Erasmus MC, Rotterdam
Reservation on the lab
Issue blood products from the lab
Administration of blood products
Results

- Less reading errors
- Saving time because the transfusion is done by 1 nurse in stead of 2 nurses (4 eyes principle)
- KIS system
- No expensive PDA's or WIFI connections
- Monitoring process time and product quality (Hemovigilance)
- Audit trail from donor to patient
Record implants on OR

- No more sticking labels
- Paperless administration
- Costs are transparent per patient
- Consumption is known
- Recall proof

Near future
- Ordering
- Replenishment
GS1 compliance

![Pie chart showing GS1 compliance for years 2004 and 2008]

- 2008:
  - 43% GS1
  - 29% HIBC/ GS1
  - 8% HIBC
  - 2% interne code
  - 18% niets

- 2004:
  - 40% GS1
  - 20% HIBC/ GS1
  - 20% HIBC
  - 20% interne code
  - 20% niets
Examples of labels
Examples of labels

ALLERGAN

390g

STERILE

2009-06

2014-06

LOT

1735687

SN

14351786

REF

27-LF135-390
Examples of labels

Lamtitrode® S-8 Lead Kit
30cm Length

2008-03  2010-03  UNIT 1

PN
65-3283-03

LOT
115548

SN
N/A

See Instructions
For Use

STERILE E01
Examples of labels

BioBall® Duo 43 mm

Ohne/without BioBall® Adapter
Femoral Kopf, Head, Tête, Cabeza

REF HM30343

Merete Medical GmbH, Air-Lankwitz 102, D-12249 Berlin
Examples of labels
Examples of labels

BeamPath™ ENT-L
Part No. ENT-L

Length 1.5m Diameter 1.2mm

Use Helium gas

09.2010

LOT LV090914AD-P1

Label No. L-1577 Rev. 1
Capsular Tension Ring 12/16

2010-02 Power

Contains one Capsular Tension Ring
TUTOBONE®

Block
Spongiosa / Cancellous bone

Zur Implantation / for implantation

Inhalt / Content: 1 Stück / 1 piece
Größe / Size: 20 mm x 20 mm x 30 mm
REF 68302

2008-04

2013-04

LOT

STERILE R

K 12154

TUTOGEN
Tutogen Medical GmbH
Industriestraße 6
91077 Neunkirchen a. Br.
Germany

Mit Aufkleber für Dokumentationszwecke

With Sticker for Documentation Purposes
Challenges

- GS1 compliance of suppliers
- GS1 compliance of solution-providers
Challenges

- GS1 compliance of suppliers
- GS1 compliance of solution-providers
Closed Loop Verification Program

- Testing barcodes
- Testing hardware
- Contacting suppliers so improvement can begin
- International report of failures
- GS1 compliance and a quality clause in all your contracts
Challenges

- GS1 compliance hospitals
Thank you

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Project manager Healthcare logistics

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