

Traceability – Ask the expert

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Inventory tracking system



Hidden Costs
are
Hidden Treasures



Introduction

Justin Bitter MSc.

- Head of logistics OR department (16 employees, 24/7)
- Business Unit OR (around 300 employees)
- Responsible for supply chain stock 27 OR's
- OR-procedures appr. 29.000 per annum
- 1.700 instrument boxes; 4.850 sterile items
- Sterile stock value appr. € 5.000.000

Radboud case (organization < 2011)

- No visibility of goods available (mostly high value)
- Dependency local knowledge (OR-assistants)
- No integration and standardization (GS1)
- Increasing waste and loss (appr. € 400k pa)
- Inadequate traceability capabilities
- High inventory costs



A great opportunity but also a great challenge

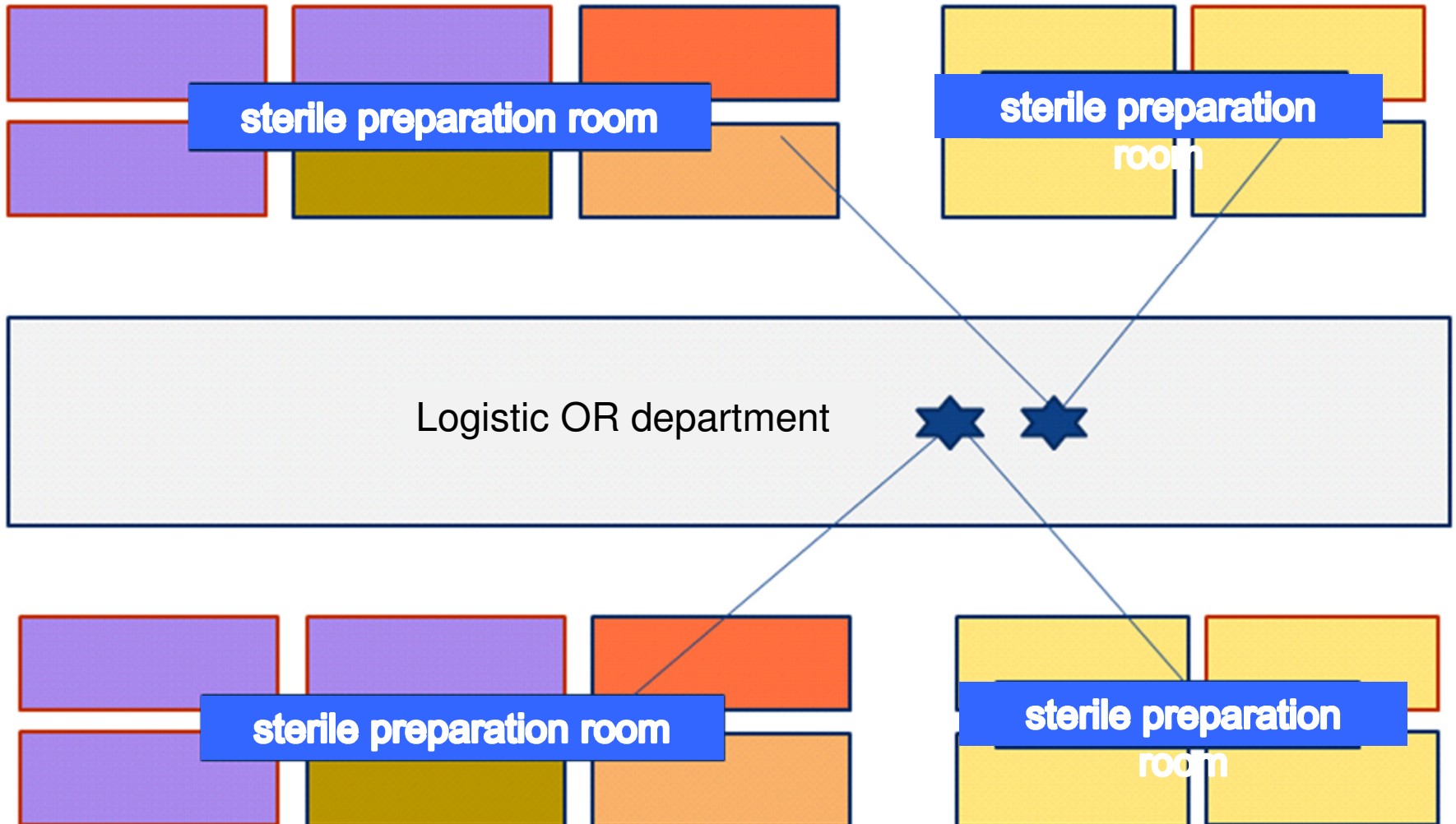
A new hospital building with 25 operation rooms (dec11)



New hospital building
with full centralised
OR-facility

Challenge: stock traceability and policy making

The new organisation (dec11)



Our goals

- Inventory optimization by registration and standardization
- Effective stock level (best services against lowest costs)
- Never miss implants and sterile materials (forecasting)
- Continuous traceability of OR-materials
- Automatic control: improving quality of work and care
- Less door movements in OR area

In summary: OR logistics is a profession
Always in control of all OR-material movements
Traceability is mandatory

Our challenges

- Problem allocating stock locations and materials
- Manual control (expiry date and lot numbers)
- Differentiated landscape of barcodes
- No harmonized traceability approach

Recommendation:
**Global introduction
GS1 Traceability Standard**



How it works (> 2010)

- Register article and add batch nummer + expiration date
- Print unique GS1-compliant label
- OR logistics is responsible for the entire process
- OR staff can find sterile materials in a T&T-system
- OR staff can check if everything is on time for OR event: patient safety
- Sterility control and recall with an fully automated touch
- Each unique sterile product is kept in a unique stock location



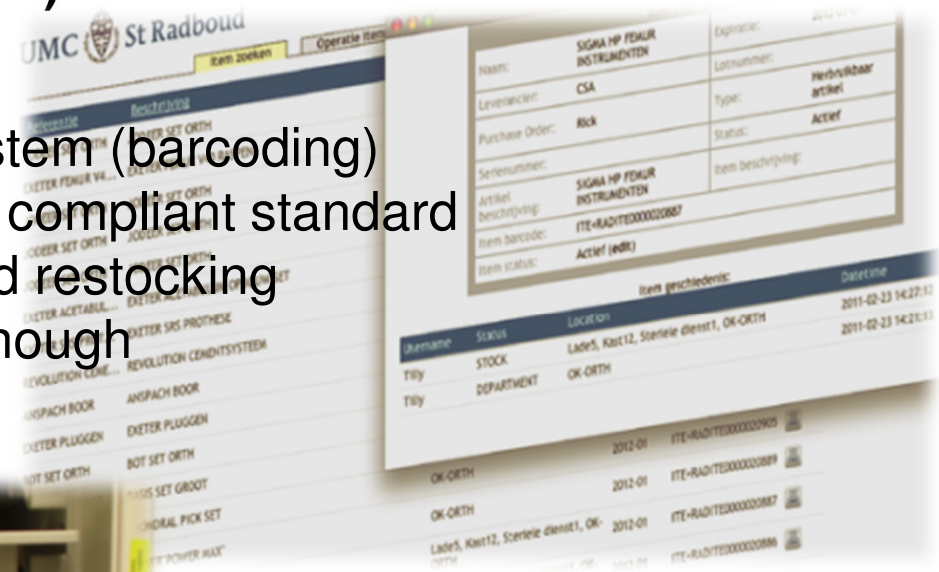
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 Beschrijving: Angiogram VP BFR
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Artikelenummer	Beschrijving	Locatie	Expiratie	Barcode
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001757
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001954
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001959
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001964
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001758
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001855
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001960
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001965
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001778
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001956
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001961
610133	Angiogram VP BFR	Radiologie	2010-11-01	ITE-RADITE000001966



The current state (pilot fase)

- Automated integrated T&T system (barcoding)
- GS1-standard or GS1 internal compliant standard
- Barcoding for identification and restocking
- One-time scanning must be enough



Next step and future plans:

- Integrated OR supply chain
- Introduction of RFID technology

Our targets

- Introduce Q-system (ISO9001: 2008)
- Integrated T&T-system (OR + interventional departments)
- Stock represents value (between € 8-€ 10Mio)
- Reduce stock level with 25% (2012)
- Eliminate waste and loss by 80% (2012)
- Increased patient safety (focus on complex matters)



Business Case GS1 Traceability of Medical Devices in OR

Some Figures:

- In the Netherlands: around 100 hospitals (8 University hospitals)
- Total Stock Value – only medical devices – estimated: 200 Million euro
- Yearly Turnover: 1.5 Billion euro


Efficiency benefits

Potential improvements	Conservative Scenario	Optimistic Scenario
Stock Decrease	20%	30%
Waste	5%	8%
Reduction of Waste	80%	80%
Stock Handling Costs	25%	25%

Leading to Savings

Savings	Conservative Scenario	Optimistic Scenario
Reduction of Stock Value	-40 Million euro	-60 Million euro
Reduction of Waste	-54 Million euro	-96 Million euro
Lower Stock Handling Costs	-10 Million euro	-15 Million euro

Patient Safety Benefits

- No more canceling of operations due to lack of material
 - Clear insight in item/patient registration
 - Higher quality in realisation of recall procedures
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Conclusion and recommendation

- Win-win situation for hospitals financially and for the patient
- Why wait? Start implementing GS1 Global Traceability Standard for Healthcare!

Thank you for your attention!

