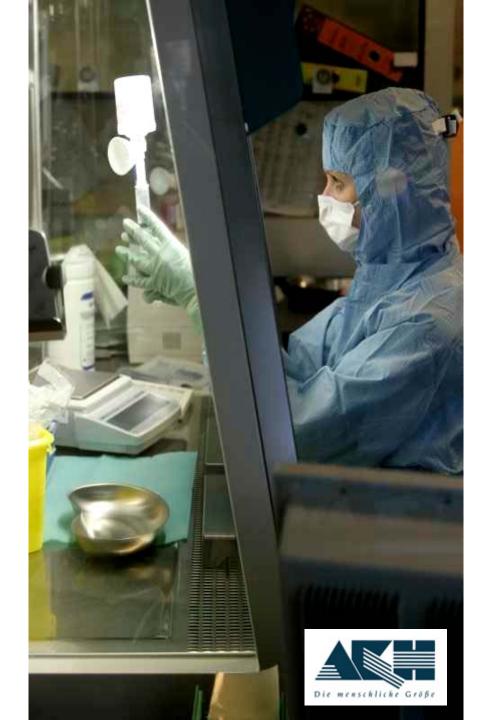
Implementing traceability cytostatics projects



Global GS1 Healthcare Conference Geneva, June 22 -24 2010 Mag. Elfriede Dolinar Head of Pharmacy Department Vienna General Hospital Medical University



Vienna General Hospital "Traceability in Compounding of Cytotoxic Drugs from Vendor to Patient[®]



Content

- Pharmacy department
- Current situation
- Project: 2 parts
- Goals
- Expected improvements
- Beyound our own nose



Pharmacy Department Vienna General Hospital

- 2009 app. 57.000 ready to use preparations of
- cytotoxic drugs, virustatics and monoclonal antibodies
- Including service for St. Anna Kinderspital (childrens hospital with focus on oncology - 7.500 units)
- Number of different substances used: 68
- Software used:
 - SAP for merchandise management
 - CATO:
 - Oncology software for compounding
 - Working according gravimetric principle using a balance in the clean bench (weighing control)
 - Computerised physician order entry



Current Situation in Austria

- Linear barcodes on registered drugs including the Austrian product specification code
- Mainly on secondary package
- Some blisters with product name and expiry date
- No 2 dimensional barcodes



DataMatrix

- The more advanced bar codes like
 - GS1-128
 - GS1 DataBar
 - GS1 DataMatrix



- batch numbers
- expiration dates
- to be encoded using the GS1 Application identifier





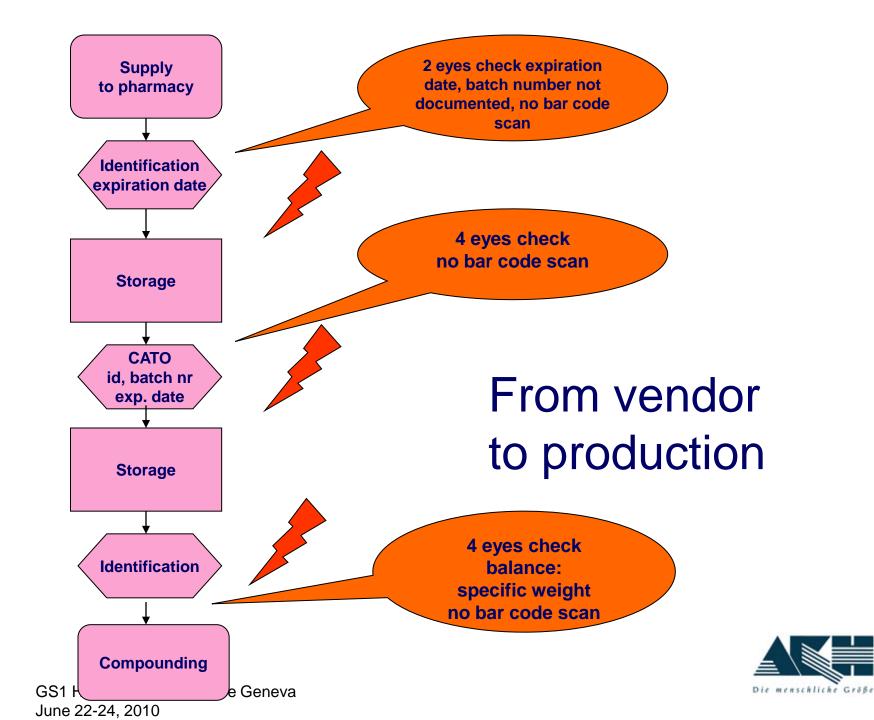


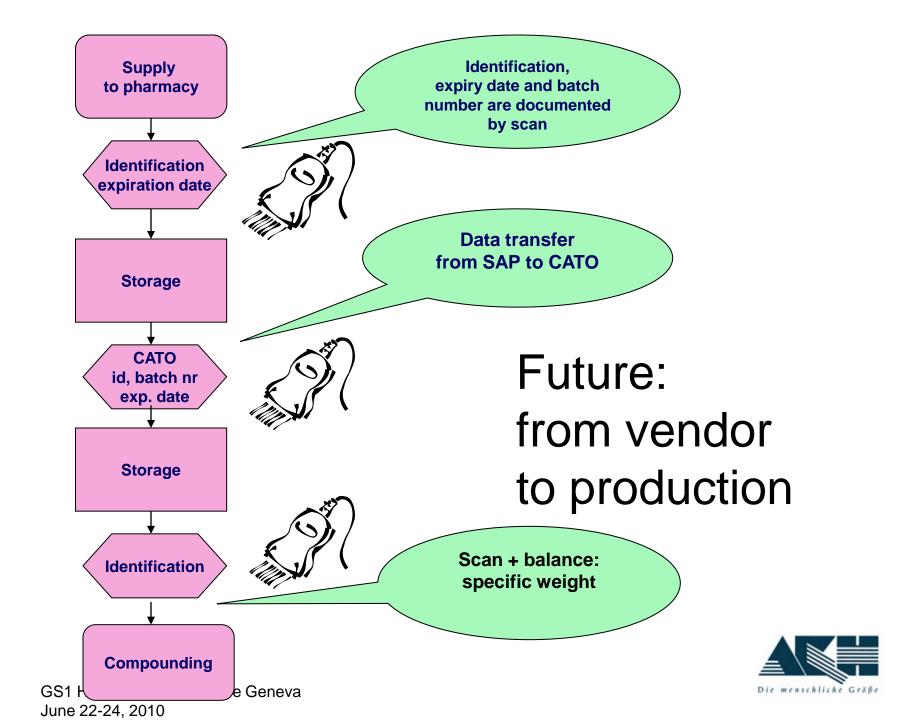
Goals Part I: Traceability from vendor to production

Increase patient safety- right drug, right dose, righ

- Using DataMatrix on primary and secondary packages of cytotoxic drugs and solutions for reconstitution
- Identification of product, batch number and expiry date
 - Scan at point of delivery to pharmacy
 - Scan at point of storage in compounding unit
 - Scan before compounding
- Reduce manual interventions









Project team

- GS1 Austria Health Care
- Vienna General Hospital
- 6 Pharmaceutical companies: cytotoxic drugs and solutions for reconstitution
- CATO



GS1 Austria

- Gives Information about global standards for product identification
- Link to pharmaceutical industry
- Looking for network partners
 - Hôpitaux Universitaire Genève
 - Projects in Germany and Belgium



Vienna General Hospital

- Pharmacy department
 - Project leader: Head of Pharmacy department
 - Oncology pharmacist
- IT- Department
 - Implementation of scanning at point of receipt using 2dimensional barcode in SAP
 - Identification, documentation of batch number and expiry date
 - Creating an interface with SAP/Cato
 - Inventory same inventory in SAP and CATO
 - Cost centre accounting
- Oncologist and head nurse of Oncology Department



Industry

- Currently implementation of 2-dimensional barcodes on pharmaceuticals in a few countries
- DataMatrix on pharmaceuticals expected in whole Europe in about 5 years
- Production mainly centralized Europe/whole world
- Public procurement advantage in competition

CATO

- Oncology software used
 - for CPOE
 - for compounding





- Scan of DataMatrix on original packages
- Scan of unique identification number during transport and administration

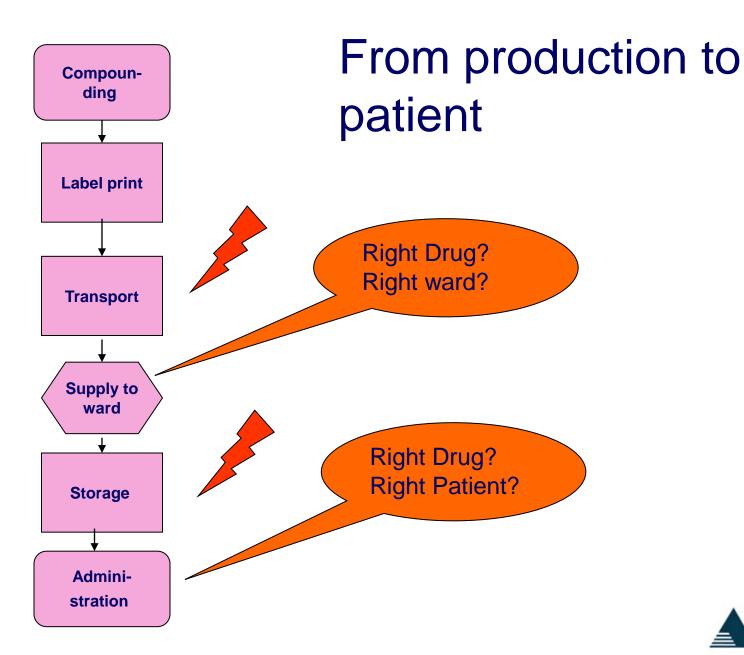
Goals part II:Traceability from Preparation to Patient

To ensure the 5 "Rs"

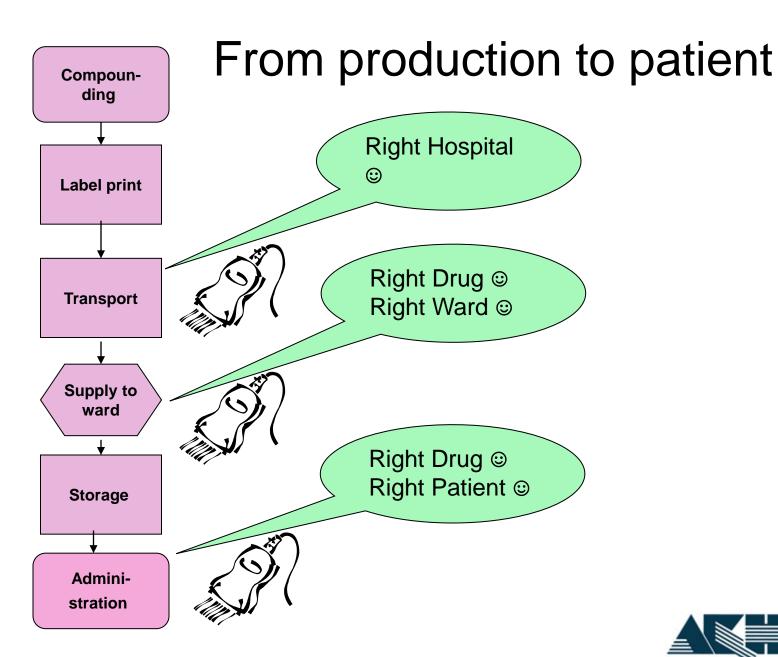
- Print of an unique identification number on label
 - linear barcode GTIN + serial number
- Scan at point of dispensing in pharmacy
 - Identification of hospital
- Scan at point of delivery to ward
 - Identification of drug and ward
- Scan at point of administration
 - Identification of drug and patient (case number)













Further goals

- Reembursement in Austria Austrian DRG system
- ICD 10 International Statistical Classification of Diseases and Related Health Problems
- Coding at point of administration



Timeline

- Idea during Global GS1 Health Care Conference in Vienna in March 2009
- First contacts with CATO and some pharmaceutical companies at EAHP Congress in Barcelona in March 2009
- Kick off meeting end of August 2009
- Visit to Geneva University Hospital beginning of September 2009
- GS1 first contacts to industry
- Kick off meeting with all partners in November 2009
- Trial period September 2010



Transition period

Handling of products without DataMatrix

- Identification per double check
- Documentation of expiry date and batch number manually in SAP and Cato
- Goal: to make this period as short as possible
- Information to other companies which are not part of the project in due time

EAHP- Working group Unit dose identification

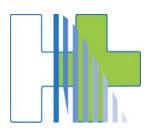
- Unit doses blisters, with each single dose containing the whole information
 - Trade name
 - Active substance
 - Dosage
 - Expiration date
 - Batch number
 - Barcode
 - Including product ID, expiry date and batch number
 - Use of a recognized international standard (i.e GS1)
 - DataMatrix



HUG: Cytotocic treatment and bedside scanning: Improving patient healthcare

Prof. Pascal Bonnabry

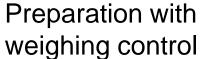
- Risk analysis to find the best and most efficient solution of cytotoxics
- Strategic approach built on three pillars
 - Prevention
 - Diagnosis
 - Treatment
- Goals: reduction of criticality at patients bedside
- Implementing barcode system GS1 Datamatrix



Electronic

prescription

Global process management

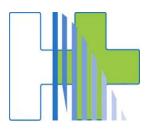




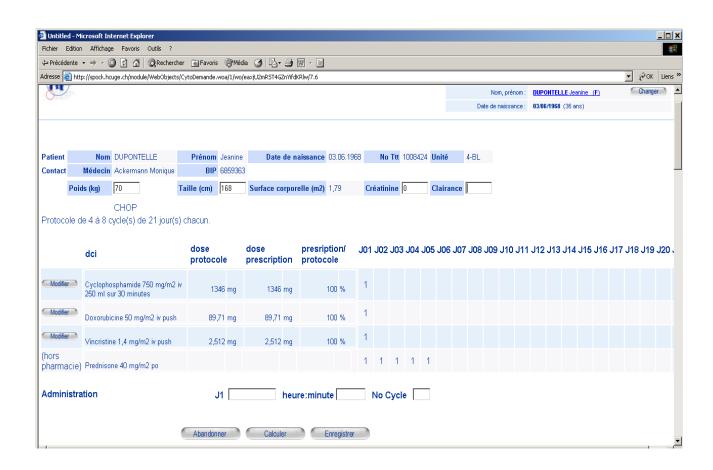


Prescribed Amount of Active Substance: 21mg





Electronic prescription





Production with weighing system

Cytostatics – CATO[®]

- Direct calculation from the prescription
- Operator guided step by step
- Weighing control
- Identity control by barcode

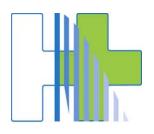
(version 2)

Traceability

Need to have a barcode on the primary package



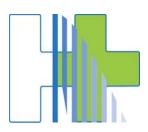
www.cato.eu



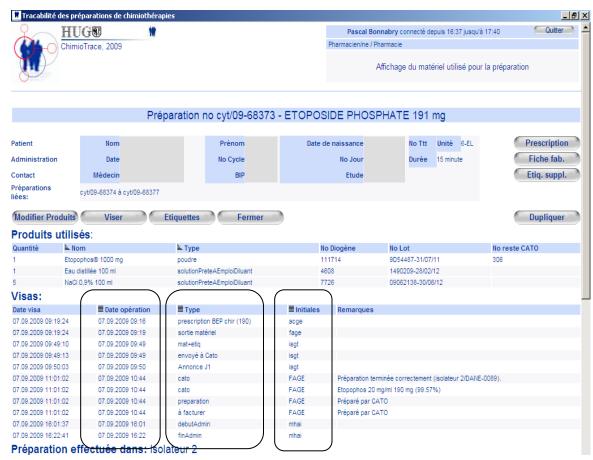
Bedside scanning

Physician Nurse Drug **Database**

Patient



Traceability



When?What?Who?

Perspective

Will we be able to be as effective as supermarkets?

Pascal Bonnabry

Yes, we scan!

