

Cost savings through standards

Welcome!





Cost savings through standards

By implementing the Global Traceability Standards for Healthcare (GTSH)

Mr. Justin Bitter Ph.D., Business manager, Bernhoven Hospital, the Netherlands 17^{th} October, 2017



Who is...



Dr. Justin Bitter

- 20 years of experience in hospital settings
- Medical- and business administration background
- Chairman of the Dutch GS1 focus group traceability 2010-2015
- Member of GS1 Global Health Care Leadership Team since 2014
- Currently working as a business manager at Bernhoven hospital, the Netherlands



Our experts, sharing their experiences...



- Ms. Cynthia Shumway, Director, Supply Chain Business Applications, Intermountain Healthcare, U.S.
- Mr. Matthew Mentel, Executive Director - Integrated Performance Solutions, Mercy, U.S.
- Ms. Betty Jo Rocchio, Vice President, Perioperative Services, Mercy, U.S.





Today's agenda



- 15 min intro and presentation Justin
- 20 min presentation Cynthia
- 25 min presentation Betty Jo and Matthew
- 25 min Q & A Facilitated by Justin
- 5 min close Justin

Please be ready with your questions!





Bernhoven Hospital, the Netherlands







Why increasing efficiency in hospitals?



Implementing (GS1) Global Traceability Standards for Healthcare solve:

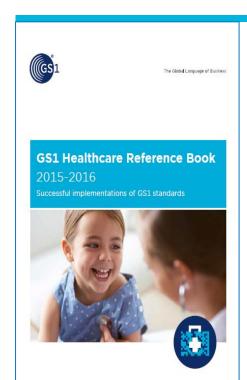
- No visibility of goods availability
- Strongly dependency on employee knowledge
- High inventory costs
- Excessive loss (yearly expired sterile stock up to \$ 150.000,-)
- Higher error probability
- Inadequate monitoring capabilities
- No full scale
- Search and can not find
- Elimination of non-value adding activities
- Out of stock situations





Bernhoven winner HPAC Award 2014 Copenhagen







The following cost reductions were obtained:

- Reduction of stock by 31%
- Reduction in stock value by 23.6%
- Reduction of waste by 72% (representing a total value of \$ 25,200)
- Return on investment within 14 months.





International audit Bernhoven for implementation GTSH by GS1 Global Office





AUDIT INFORMATION					
Objective	Audit the Bernhoven O.R. department to assess compliance to the GS1 Global Traceability Standard for Healthcare (GTSH) utilizing the Global Traceability Conformance (GTC) framework (Issue 1, March 2009)				
Scope	Medical Device Products, specifically implants and sterile disposables. From receipt into OR > OR Logistics process > Patient record; supported by OR Inventory Management System				
Control Points Audited	1.3-1.5, 2.1, 2.3, 3.1-3.4, 3.7, 4.1, 4.3, 4.4, 4.6, 4.7, 4.9-4.11, 5.2-5.5, 5.11-5.14, 6.10-6.11, 6.14, 6.17-6.20, 6.22-6.23, 6.25, 6.27, 6.29-6.30, 7.1-7.6, 8.1-8.4, 9.1-9.3, 10.1-10.3, 10.8, 11.1-11.2, 12.1, 12.3.				
Audit Place	Bernhoven Hospital, Uden, Netherlands				
Audit Date	Friday 10 th October 2014				
Reference documents (Audit Criteria)	GTSH Issue 1.2.0, Oct-2013 Global Traceability Conformance (GTC) framework (Issue 1, March				



Creating efficiency by cost management



Implementing (GS1) Global Traceability Standards for Healthcare yield benefits:

- Amplifying balance sheet of the hospital
- Track and trace supports current assets control
- Reduction of stock levels (25%)
- Reduction of expired products (80%)
- Lowering high indirect costs of staff



Value (stock, lost and expiration)



OR-stock <u>owned</u> by Bernhoven	2012 (pre)	2013 (start T&T)	2014	2015	2016	2017 (est. incl.Q4-'17)
STOCK	€ 800.000 (est.)	€ 684.054	€ 601.825	€ 700.075	€ 754.107	€ 673.065
USED	Unknown	€ 858.326	€ 1.458.914	€ 1.707.948	€ 1.840.798	€ 1.795.880 (est.)
LOSS	Unknown	€ 27.502	€ 56.043	€ 6.935	€ 10.886	€ 12.150 (est.)
EXPIRED	€ 32.000 (est.)	€ 543	€ 1.299	€ 8.904	€4.530	€ 1.750 (est.)



Items (stock, lost and expiration)



OR-stock <u>owned</u> by Bernhoven	2012 (pre)	2013 (start T&T)	2014	2015	2016	2017 (est. incl.Q4-'17)
STOCK	Unknown	1.676	1.624	2.262	2.421	2.162
USED	Unknown	2.412	3.905	4.710	6.475	7.110 (est.)
LOSS	Unknown	149	278	30	51	60 (est.)
EXPIRED	Unknown	6	4	36	10	8 (est.)





Cost Savings through standards

Cynthia Shumway, Intermountain Healthcare October 2017

A Large, Integrated Health System with a Tradition of Innovation

Helping people live the healthiest lives possible TM

Based in Salt Lake City, Utah





39,500 employees

\$2 B non-labor spend

AA+ Standard & Poor's

Aa1 Moody's



- 1975 Began
- 22 Hospitals
- 2,800 Beds



Health Plans

- 1983 Started
- SelectHealth
- 850,000 Members



Medical Group

- 1994 Started
- 1,400 Employed physicians
- 4,000 Affiliated physicians
- ~200 Clinics



Continuum Care

- TeleHealth
- Homecare
- Life Flight
- Central lab
- Central pharmacy



- 1986 Started
- 2015 Ownership
- Commercial platform
- \$9B Spend GPO



Supply Chain Center

- Supply Chain Center opened in September 2012
- Built to Gold LEED Certification
- 327,000 Square Feet
- Located within 50 miles of 80% of our facilities
- It is one piece of the journey





1993 Standard Item Master – 23 to 1

• 1998 "UPN"

2000 – 2007 Various "standards" groups

2007 Aligned with GS1

• 2008/09 GLN

2010 5 providers form 'HTG' Healthcare

Transformation Group

2010 – current It's all about GTIN!





Data Synch

Transactions

Data Sharing





Data Synch

Master data management

- Contract Price Management
- Item Master Management
- Supplier Management

Supplier Name	Sapplier #	GTIN	UOM		Conversion to EA
Demo X	7763	10130984782914	EA	\$1.00	1
Demo X	7763	10130984327934	вх	\$10.00	10
Demo X	7763	10138943290985	CA	\$40.00	40
Demo X	7760	10137652873746	EA	\$20.00	1
Demo X	7760	10135748329834	BX	\$100.00	5
Demo X	7760	10132342783948	CA	\$200.00	10





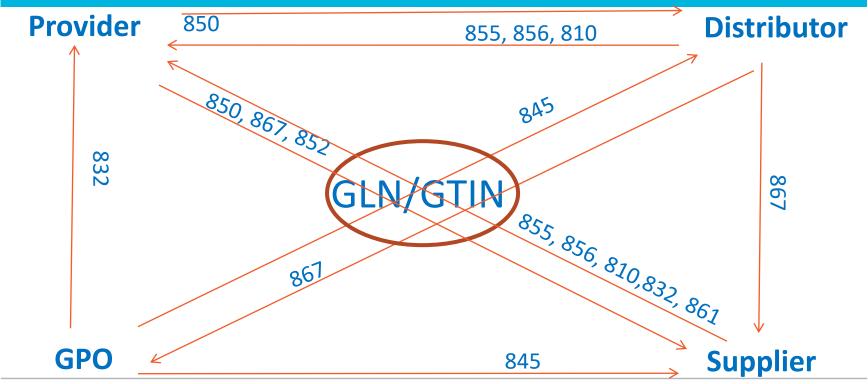
Transactions

Source to Settle w/GLN & GTINs - "Touchless"

- PO 850
- PO acknowledgement (855) match by GTIN *exception touch only
- Advanced Ship Notice (ASN 856) and/or SSCC match by GTIN
- Invoice (810) match by GTIN
 - Right price loaded by GTIN
 - Right match on invoice by GTIN











Transactions

- Inventory Management
 - Expiration Alerts
 - Lot/Serial Tracking
 - Point of Use
- Casual Requisitions Scan to order







Data Sharing

Clinical Point of Use (POU)











I Language of Business











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What are we striving for . . .



What we want

- Perfect Contract
- Perfect Pricing
- Perfect Order
- Perfect Receipt
- Perfect Invoice
- Perfect Scan
- Perfect Charge Capture
- Perfect Patient Data

Benefits/Cost Savings

- Improved customer experience
- Clinical & Operational time savings
- Reduction in error rates
- On time Payment
- Improved Patient Safety
- Clinical comparative effectiveness analysis



What are we striving for . . . Transparency









The key to effective variation is standardization

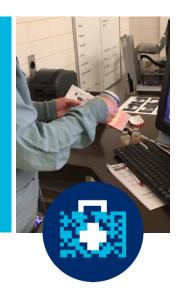
Dr. Brent James
Chief Quality Officer
Intermountain Healthcare





Capturing UDI at Point of Care—Lessons Learned

Matthew Mentel, Executive Director – Performance Solutions – Mercy Betty Jo Rocchio, Vice President – Perioperative Performance Acceleration - Mercy October 2017



Antitrust Caution



GS1 US is committed to complying fully with antitrust laws.

We ask and expect everyone to refrain from discussing prices, margins, discounts, suppliers, the timing of price changes, marketing or product plans, or other competitively sensitive topics.

If anyone has concerns about the propriety of a discussion, please inform a GS1 US representative as soon as possible.

Please remember to make your own business decisions and that all GS1 standards are voluntary and not mandatory.

Please review the complete GS1 US antitrust policy at: www.gs1us.org/gs1-us-antitrust-compliance-policy



Introductions





RN, BSN, CRNA, MS
VICE PRESIDENT
PERIOPERATIVE PERFORMANCE
ACCELERATION



MATTHEW MENTEL
CMRP, MHA, MBA
EXECUTIVE DIRECTOR
INTEGRATED PERFORMANCE
SOLUTIONS



An Overview of Mercy: Services & Locations





What and why?









Leveraging for Tomorrow

TODAY

- Revenue center
- · Volume-driven
- Pre-certification just starting
- Managing cost post-case



TOMORROW

- Cost center
- · Quality-driven
- Pre-certification increases
- Managing cost in real-time

Appropriate Surgical Solutions:

Matching clinical need, which includes costs and efficiencies

Business Bottom Line:

Managing cost of supplies, labor, and overhead

Revenue Cycle:

Penalties based on Medicare spending and value-based purchasing



Financial



How does UDI fit in?



Patient Level Product Scanning

Inventory Management Automated Charging

Major Process

- Scanning product barcode to patient
- Capture of UDI including lot / serial / exp date
- Capture cost per case
- Patient Safety

Major Process

- Tracking of shelf level inventory
- Shelf level tracking of lot / serial / exp date of product
- Automated inventory replenishment

Major Process

- Automated charge capture
- Lost charge reporting

Major Outcome

- Comparative Effectiveness
- Post Market
 Surveillance
- Supply
 Standardization

Goal: Enable capture of the UDI to the patient...

Apply automation to highly manual process



How does UDI impact clinical workflow?



UDI Drives

- (EMR) documentation
- Product consumption
- Inventory replenishment
- Patient charging
- Complete cost accounting
- Expiry & recall notification



Augments supply chains ability to positively impact Mercy's core business function, patient care



Scheduling a Case



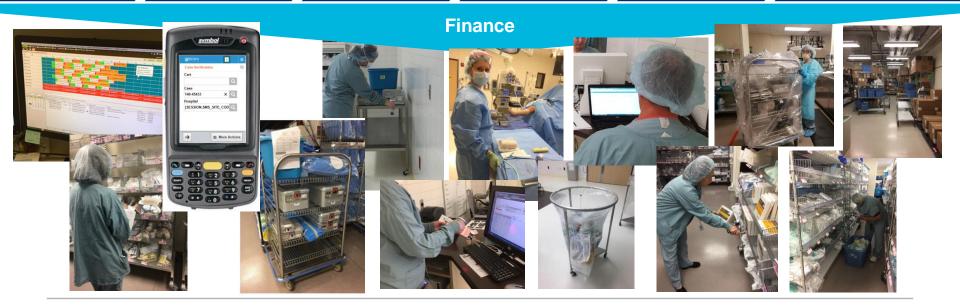
Schedule Case

Pick Case Cart

Procedure

Verify Case

Posting/ Returns Replenish/ Receiving





Challenges to UDI Nirvana



- Barcodes
 - Quality
 - Layout standardization
 - Adoption of barcode by Manufacturers
- Content synchronization
- Disconnect between sales and contracting
- Lack of understanding and buy in:
 - Clinicians
 - Physicians
 - Supply chain



Barcode Challenges





Unexpected Segment 21



Unexpected Segment 30



Missing Code Breaks



No Check Digit



Barcode Challenges

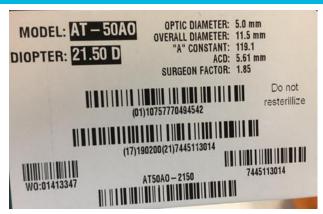




6 Barcodes – Contains both a Lot and a Serial number



Same Product - Spine



6 Barcodes - Clinical confusion



Same Product - Spine



Barcode Challenges





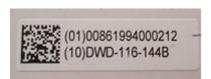
Linear barcode does nothing and the 2D triggers an EPIC executable



Barcode Confusion



New item brought in from vendor – Not on contract



Lot but no expiration



Barcode Confusion



Benefits of UDI capture



FINANCE Reimbursement

- Healthcare cost
- Patient safety & outcomes
- Patient/coworker satisfaction
- Charge capture
- Comparative effectiveness

OPERATIONAL Process and Workflow

- Management of expired product & recalls
- Medical legal product documentation
- Product tied to patient & outcome
- · Enhance clinical workflow
- Tissue tracking & regulatory compliance

CLINICAL Inventory Management

- Inventory visibility & standardization
- Multiple product locations
- · Inventory valuation
- Preference card accuracy
- Owned vs consigned
- Recognizing consumption on demand
- Preference card optimization



Key Driver



CLINICALLY LED

OPERATIONALLY DRIVEN

Patient-centered to improve care and flow through the OR with awareness of financial impacts to the delivery of consistent or improved outcomes

Right patient, right procedure, right supplies, right time....every time.

People ---- Process ---- Technology



Financial Benefits of UDI Capture



CLINICALLY LED

OPERATIONALLY DRIVEN



Realizing unrecognized inventory assets

\$2.4M



Improving inventory utilization

\$4.7M



Optimizing charge capture

\$13M



Improving Preference card accuracy

\$459K





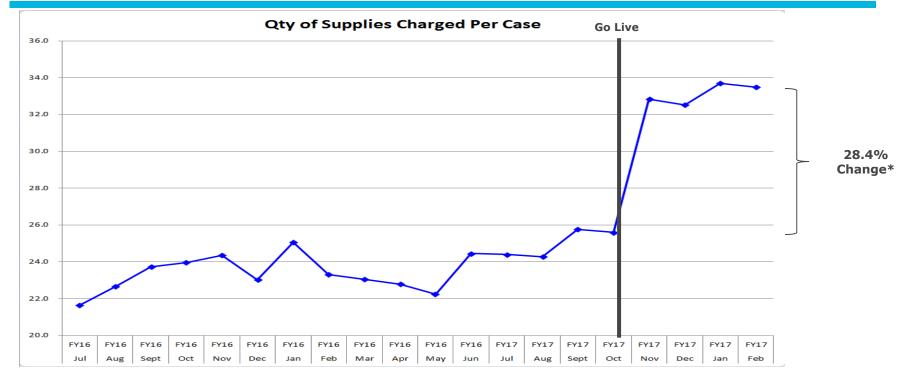






Benefits of UDI Capture







Questions



CLINICALLY LED

OPERATIONALLY DRIVEN



Right patient, right procedure, right supplies, right time....every time.



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Questions from the audience





Two key messages to take away





- Use of GS1 standards can help increase patient safety <u>and at the same time</u> provide a financial outcome
- Learn from today's presenters about how best to calculate ROI and apply this to your implementations



Poster reception tonight!



5:00 pm - 6:00 pm Promenade Ballroom



Vote for your favorite poster





Thank you for your attention and enjoy the rest of the conference!

