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GS1 Healthcare -What barcodes can do for your hospital and your patients









- Public Pharmacies for 7 years
- Hospital Pharmacy for 11 years
 German University Hospital (Aachen)
- Product Manager and Managing Director with GHX for three years
- CONFLICT OF INTEREST:
 Vice-President at GS1 Global
 Office working at GS1 for
 10 years

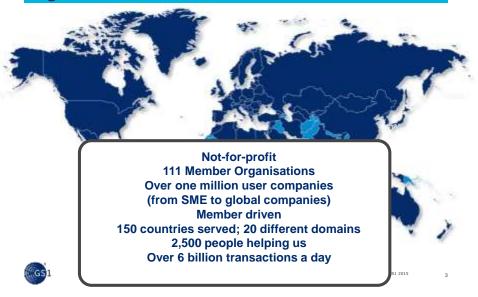


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GS1 – an international standards organisation





GS1 in Healthcare: global system of standards to ensure visibility





Lack of standards are inefficient and add risk in Healthcare







- Multiple bar codes on one package – which one to scan?
- Different types of bar codes inconsistency; incompatibility
- No bar code need to bar code; re-package; re-label



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GS1 Healthcare - voluntary, global Healthcare User Group





To lead the healthcare sector to the successful development and implementation of **global standards** by bringing together **experts** in healthcare to enhance **patient safety** and **supply chain efficiencies**.



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GS1 Healthcare Global User Group - experts from the industry



















































































GS1 Healthcare Global Members - informed and knowledgable











































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Leading healthcare organisations pave the way...





Why do we all care?





- For the safety of patients
- · Comprehensive management of medicines alerts and recalls;
- Safeguarding patient safety in an ageing society
- Managing information for systems & outcomes improvement
- Providing assurances against potential counterfeit intrusion and fraud

For the primary purpose of reducing medication errors and protecting patient safety, EAHP's statement calls for each single dose of medicine used within hospitals and supplied to the hospital by manufacturers or wholesalers to include an individual barcode in GS1 DataMatrix format.

http://www.eahp.eu/practice-and-policy/bar-coding-medicines-to-the-single-unit#



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Efficiency by providing a homogeneous scanning environment



 Homogeneous environment for scanning implies that one single system of standards is used



Patient = Subject of Care (SoC)



Could be:

- Receiving care in a hospital or other institution
- Suffering a chronic disease, cared for at home
- Healthy, but being administered a vaccine
- Healthy and pregnant
- Healthy and involved in a prevention program



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Patient Identification





Automatic identification systems are able to reduce medication errors due to patient misidentification by 65-86% (Source: US Department of Veterans Affairs)

ISO standard – developed together with other standard organisations and ICCBBA

- Existing AI 8018 has the ability to embedd existing numbers such as NHS number
- ✓ New AI 8019 Service Relation Instance Number (SRIN)
- Optional attribute to capture «instances» in the care processes



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Caregiver Identification





ISO standard – developed together with other standard organisations and ICCBBA

- ✓ AI 8017 identifies the care giver in the process
- Ability to embedd existing numbers



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Product Identification = GTIN



GTIN (Global Trade Item Number) is a GS1 "Key"

GS1 "Keys" are used to provide access to trade item related information held in computer files... information about product, package, manufacturer, price, etc.



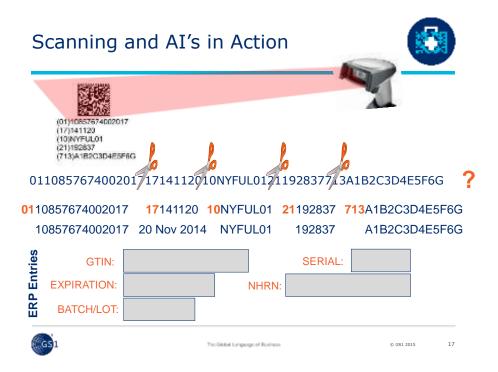
Globally unique, secure, foundational, non-significant



Capturing the identification by using GS1's syntax







GS1 Data Carriers for Healthcare





Different packaging levels require different GTIN's





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LBE.... Level Below the Each



- To move the industry ahead a global standard was needed
- No manufacturer will make such an investment in process change (machinery, IT, etc.) based only on national/local requirements











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Some new definitions...



Thanks to EAHP and other global experts

- Single unit = Single item of medicine/Medical device without any package, for example the single tablet in a blister or bottle, the syringe as such.
- Single unit package (GS1 primary package) is the one that
 contains one discrete pharmaceutical dosage form. i.e. a tablet, a
 certain volume of a liquid or that is the immediate package for a
 medical device like a syringe









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New definitions also



 Multiple unit package (can also be GS1 primary package) – Immediate package for a medicine with more than one single unit





 OUT OF SCOPE: Unit dose (unit dose is the prescribed dose for a patient while single unit relates to the product)



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Standard = Agreement





- Single unit allocation is responsibility of brand owner, <u>not</u> expected to be marked in AIDC format
- Single unit package = primary package = GTIN, other data attribute like lot/batch number, expiry date, serial number are voluntary
- Secondary package = GTIN and attribute data (expiry date and/or lot/batch number and/or serial number)



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23

New McKinsey & Company report quantifies supply chain issues in Healthcare





New McKinsey report "Strength in unity: The promise of global standards in healthcare"

Highlights the cost savings and patient safety benefits of adopting a single global supply chain standard in healthcare

Available at:

http://www.gs1.org/healthcare/mckinsey

Source: http://www.mckinsey.com



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Huge cost savings and patient safety benefits when adopting a single global standard in healthcare



"Implementing **global standards** across the entire healthcare supply chain **could save 22,000-43,000 lives** and avert 0.7 million to 1.4 million patient disabilities"

"Rolling out such standards-based systems globally could prevent tens of billions of dollars' worth of counterfeit drugs from entering the legitimate supply chain"

[We] "estimate that **healthcare cost could be reduced by \$40 billion-\$100 billion globally**" from the implementation of global standards

"Adopting a single set of global standards will cost significantly less than two" (between 10-25% less cost to stakeholders)

SOURCE: McKinsey report, "Strength in unity: The promise of global standards in healthcare", October 2012



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Experiences and developments – some examples



- US: 60% of all hospitals scan covering 70% of all hospitals beds
- **Denmark**: Amgros requiring identification on primary packaging level for certain products
- Brasil and Argentina: Bedside scanning in multiple hospitals
- Belgium: Leuven hospital is scanning at 80% of wards
- Taiwan: Study shows benefits regulation?
- Netherlands: Hospitals prove benefits
- Austria and Switzerland: Cytostatics from production to bedside

...and there are others

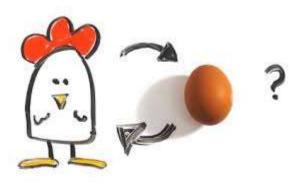


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We must overcome this...







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Ultimately, it's all about...



PATIENT SAFETY!





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29

Question 1



Barcodes on the single unit package will

- 1. Reduce medication errors and increase patient safety
- 2. Facilitate automatic capture of data for electronic health records
- 3. All of the above



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Question 2



When I want to introduce bedside scanning in my hospital I need to invest in

- 1. Laser barcode scanners like in supermarkets
- 2. Camera-based scanners
- 3. I need no scanners at all

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Question 3



GS1 standards are

- 1. National
- 2. Regional
- 3. Global



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