

The world of GS1 standards in healthcare

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- Background
- Where we are going
- Where we are today
- What this means to you
- Questions



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Security, traceability and efficiency in healthcare

are currently at the forefront of government regulations and industry concerns around the world.





The healthcare supply chain...

simplified



Distributor, wholesaler, GPO, ...



The healthcare supply chain ...

in real life



Counterfeiter



- 1. Improving patient safety
- 2. Increasing supply chain efficiency
- 3. Ensuring regulatory compliance





Medication errors « To err is human »



 In the U.S., the Institute of Medicine estimated that medication errors cost at least \$3.5 billion in extra medical expenses.



 In the U.S., medication errors in hospitals result in preventable adverse events with 7,000 patients dying per year.



A research article in British Medical Journal (BMJ) found a total prevalence of 74.5 medication errors per 100 patient days in intensive care units; 0.9% of the total study population (n=1,328) experienced permanent harm or died



Reducing medication errors *An example*





Gelre Ziekenhuizen in the Netherlands:

Electronic prescription and bar code point-of-care system reduced medication errors by 74%

-from 3.10% to 0.84%



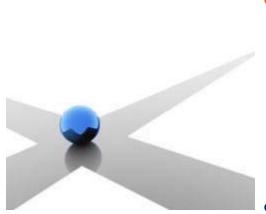
(GS)1 Healthcare Counterfeit medical products



- Counterfeit drugs sales expected to reach US\$75 billion in 2010
- Increasing global threat
 - In parts of Africa and Asia counterfeit drugs exceed 30%
 - In Europe and North-America around 1% of pharmaceuticals are counterfeit



Postmarket surveillance and product recalls



 60% of approximately 66,000 adverse event reports received by the FDA in the United States lacked the lot number or another meaningful identifier

In 2009, US FDA has recalled nearly 5,000 products



Healthcare Increase supply chain efficiency



- Improve order and invoice process
- Optimise receiving
- Reduce inventory & improve shelf management
- Increase productivity
- Improve production and packaging process
- Improve benchmarking and management of supply cost



Increase supply chain efficiency An example





New inventory system based on bar code scanning for the Cardiac Catheter Laboratories at Leeds Teaching Hospitals NHS, U.K.:

- Reduced stock levels by 56% from GB£1.6 million to GB£700,000
- Electronic order system reduced staff time dramatically and reduced the costs of the purchasing process from GB£7.05 per line to GB£ 0.39



Increase supply chain efficiency Another example

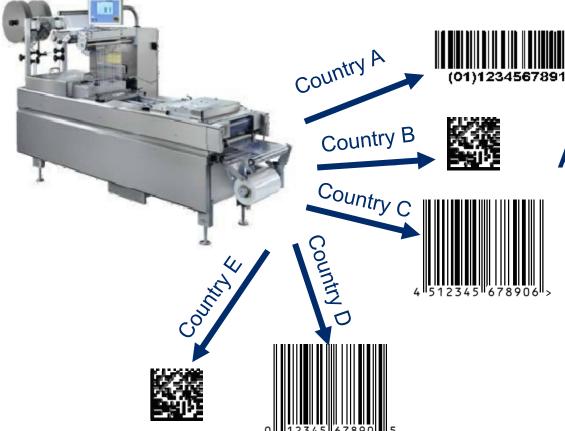


Introduction of real-time consumption data capturing system (barcode-enable) at the International Medical Center of Japan, Tokyo:

- Inventory was cut to a tenth
- Improved inventory management: cost reduction of JP¥ 467 million (about US\$3.9 million) for pharmaceuticals and medical supplies
- Improved process management of mixing of IV drugs: US\$1 million cost savings



Increase supply chain efficiency One more example



Additional cost and risk

Different requirements could cost each manufacturer up to € 38 million extra per year in Europe

(Source: EFPIA - assuming production of 500 million packs in Europe per year and three different product ID requirements)



Healthcare Ensure regulatory compliance



Regulatory requirements are being developed that will impact supply chain management in the healthcare sector

















And many more...



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GS1 Standards in Healthcare ... Our vision



GS1 Healthcare envisions a future where the healthcare sector utilises GS1 global standards for all items, locations, people and processes to drive patient safety and supply chain efficiency improvements-starting with the manufacturer and ending with the patient.





Speak one language

across country or regional borders between supply chain partners and within an organisation

Sector-wide implementation of global supply chain standards needed



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GS1 Healthcare Global, Voluntary 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.



Leading healthcare organisations pave the way...

Corporate members of the global user group















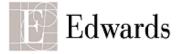












































Leading healthcare organisations pave the way...

Healthcare providers and Group Purchasing Organisations going global











France





Hong Kong

Switzerland







Germany



USA



Austria







Ireland



Netherlands



France



USA

(GS) Healthcare Global work groups

- AIDC Application Standards
- Global Data Synchronisation & Product Classification
- Traceability in Healthcare
- Public Policy

Meet bi-weekly via conference call and 3 times per year in the global conferences.



(GS) Healthcare Global conferences





108 GS1 Member Organisations 1,800 employees





Local Healthcare user groups driving adoption













(GS1





Australia









Belgium & Luxembourg



New Zealand

























GS1 Healthcare Global, Voluntary Healthcare User Group

To be the **recognised**, **open and neutral source** for regulatory agencies, trade organisations and other similar stakeholders **seeking input and direction for global standards** in healthcare for patient safety, supply chain security & efficiency, traceability and accurate data synchronisation.

(GS) Healthcare Increasing global recognition



And many more...



Standards development continues, but set of global standards available to build on:



- ✓ AIDC Application Standards for 90% of medical products
- ✓ AIDC Application Standards for small instruments
- √ Healthcare extension in next GDSN release
- ✓ Global Traceability Standard for Healthcare



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An integrated approach

- Standardised identification keys
 - Products, locations, assets, ...
- Standardised data carriers
 - •Bar codes & RFID
- Standardised sharing of static data
 - •Data on products & locations
- Standardised sharing of dynamic data
 - Event data
- Standardised electronic communication

Global reach

Open standards

Proven standards

Meeting the challenges of today's Healthcare supply chain: patient safety, security, visibility, efficiency, accuracy, ...





- 2. Join a local user group to work with other healthcare stakeholders to advance the sector-wide implementation of standards
- 3. Join the global user group to work with other healthcare stakeholders to develop global standards and support global harmonisation



The time has come for healthcare!

It will be a journey to get there, but the patient safety and efficiency benefits are and will be substantial.