

Global summit on drug product labelling and packaging safety

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GS1 – a global non-for profit standard organisation





1 million

over 1 million companies worldwide use GS1 standards 150 countries

25 industries served across 150 countries

6 billion

Barcodes scanned more than 6 billion times per day globally 112 MOs

112 Member Organisations around the world



GS1 Healthcare - an expanding, committed community of globally engaged stakeholders...much more locally





...and there are many more companies working with GS1 at a local level



Leading hospitals - implementing GS1





























People caring for people

GROUPEHOSPITALIER

GEISINGER



























UNIVERSITÄTSKLINIKUM





NHS





CENTRE HOSPITALIER











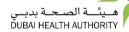
















Getting it right! "NEVER EVENTS"



Is the NHS safe?

- Of the top 20 risk factors for all deaths, adverse in-hospital healthcare events come eleventh – above alcohol, drugs, violence and road traffic accidents.
- In the NHS each year there are: 624 million prescriptions, 300 million GP visits, 13 million OPD visits, 5.3 million admissions, 2.9 million emergency ambulance calls, and an estimated 900,000 adverse events.
- Every week two wrong site surgeries and two operations with kit wrongly left inside. NEVER EVENTS 2016/17= 400
- wrong site/retained foreign body/wrong implant = 79%; Medication error causing harm = 12%
- Adverse events (unintended injury caused by medical management rather than disease) lead to an additional three million NHS bed days. Costing at least £1 billion a year.





Imagine a world where...



...the patient rights were reality, all the time!



right caregiver

right patient





right medication right dose right medical device

right time



...dispensing and administration errors are a thing of the past





I still remember when dispensing errors due to typos, illegible handwriting or oversights was a risk we all had to live with.

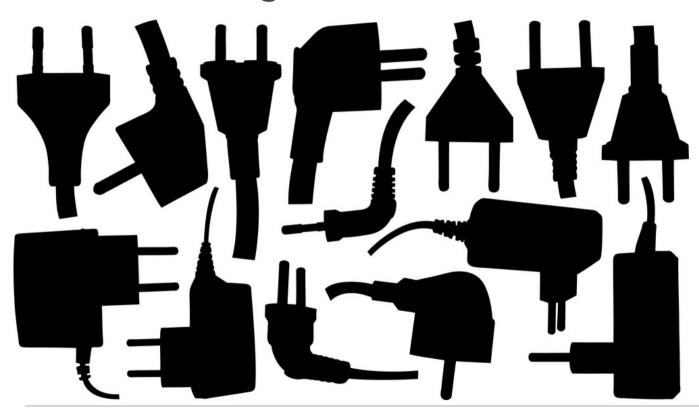
It's good those days are over!

A future where¹:

- Computerised physician order entry (CPOE) has replaced hand-written prescriptions
- Barcode scanning procedures cut current potential adverse drug events by up to 75%
- There is a general >50% reduction of current medication errors saving lives, cost and time for better patient care



A need for global standards ...



- Inefficiencies
- Increased risk
- Lost opportunities
- Interoperability
- Costs
- Complexity



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 millions of dollars' worth of counterfeit drugs from entering the legitimate supply chain"

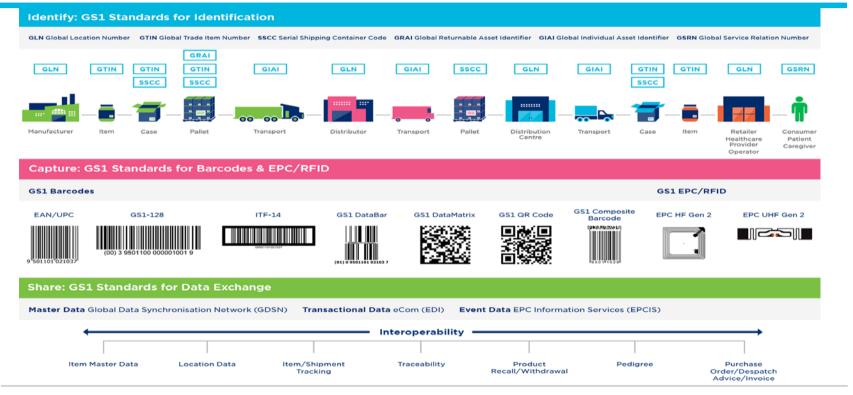
[We] "estimate that healthcare cost could be reduced by \$40 billion-\$100 billion globally" from the implementation of global standards

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



GS1: global system of standards to ensure visibility







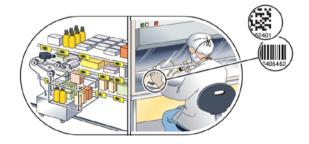


What can GS1 bring to hospitals and patients?



- Having complete and accurate information in the hospitals makes it possible to ensure the rights of the patients and improve the quality of care.
- Capturing this information automatically and accurately enables the hospitals to operate efficiently and cost-effectively.
- GS1 barcodes enable to improve the safety of patients by reducing errors associated with manual data entry.
- It also enable the healthcare supply chain actors to comply with regulatory requirements.







GS1 standards around patient treatment







GTIN – Global Trade Item Number



...used on any item upon which there is a need to retrieve pre-defined information and that may be priced, or ordered, or invoiced at any point in any supply chain.

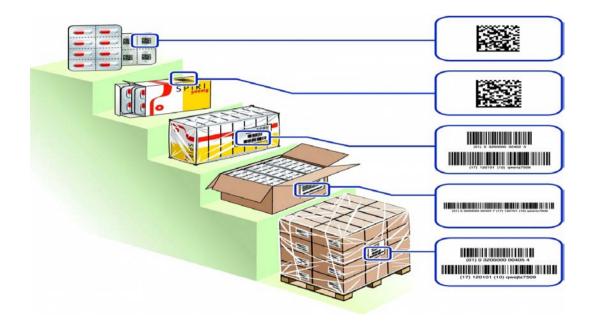
The base for the unique identifier and implementation

GTIN is an umbrella term for all GS1 "trade item" identification numbers. As noted a Global Trade Item Number may use the GTIN-8, GTIN-12, GTIN-13, or GTIN-14 numbering structure.



Different packaging levels require different GTIN's and potentially different data carriers



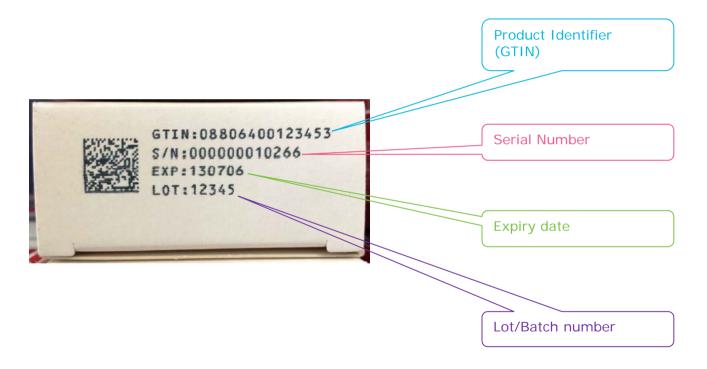


NOTE: Data carriers shown are for illustration purposes only!



Globally unique identification: 4 identification attributes in a GS1 DataMatrix

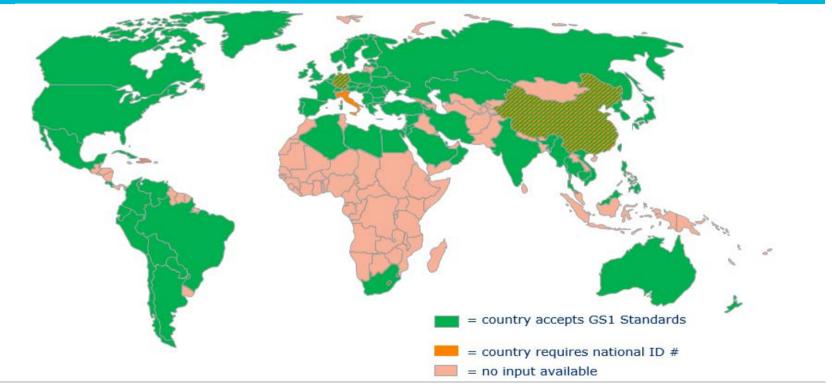






Identification of pharmaceuticals











Real-life examples



50.8%

reduction potential adverse drug events

41.4%

reduction in medication error rates

74%

Reduced medication errors

New England Journal of Medicine

Barcode scanning procedures cut current potential adverse drug events by 50.8%¹.

Use of barcodes on medicines to the single-unit level can help reduce medication error rates by 41.4%¹.

¹ E.G. Poon et al. "Effect of Bar-Code Technology on the Safety of Medication Administration,", 362 (2010); 18

Gelre Hospitals (The Netherlands)

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

² GS1 Healthcare conference, 2010



Real-life examples





40% reduction in time

Hang Zhou Bin Jiang Hospital (China)¹

Implementation of a harmonised use of GS1 standards in all medicines and of an Automatic Identification and Data Capture barcode technology application. Currently 60% of all medicines in the hospital are GS1 compliant.

- Accurate tracing of drugs from the warehouse to the point-ofdispense
- 40% reduction in time spent by staff for verification, reception and storage of medicines

¹ GS1 Reference Book 2015-2016

GS1 Standards help save 7% in medication purchasing and packaging in North York General, Canada (2006)





North York General Hospital - a 434-bed hospital in Toronto, Canada



Issue(s)

- Risk of medication errors at the point-of-care due to insufficient product identification
- Lack of unit-dose bar coding of medication

Solution

- Installation of an automated repackager and bar coding station
- Implementation of a point-of-care bar code verification system to ensure the five patient rights
- Implementation of GS1 Standards, incl, GTIN and GS1 BarCodes

Results

Reduced medication errors at the point-of-care Cost savings of 7-8% each year in terms of its medication purchasing and packaging activities

- Estimated cost to implement system in the hospital: €248k
- Efficiently affixing bar codes to unit doses
- Efficient bedside verification





We have to keep moving forward to ensure GS1 standards benefit all patients worldwide



Identification on primary packaging level - enabling bedside scanning



GS1 position paper...

primary packaging...

...on identification on

...in collaboration with:





Endorsed by:







Ultimately, it's all about...



PATIENT SAFETY!





Contact Details

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