



Australia

Using the GS1 System to Reduce Medication Error and Improve Medication Safety

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Agenda

- GS1 standards: Reducing medication error
- Global / local trends for identification and bar coding of medications
- International initiatives
- Australian foundations
- Future vision and industry collaboration to reach this goal





GS1 Standards





Who is GS1?

- GS1 is a **not-for-profit** organisation
- GS1 consists of **108 national member organisations** driven by a membership of more than a million companies across **145 countries**
- GS1 assists more than **24 industry sectors** globally
- The GS1 System of standards is the most widely used standards system in the world

The GS1 System



Global standards for automatic identification
Rapid and accurate item, asset or location identification



Global standards for electronic business messaging
Rapid, efficient & accurate business data exchange



The environment for global data synchronisation
Standardised, reliable data for effective business transactions



Global standards for RFID-based identification
More accurate, immediate and cost effective visibility of information

Underpinned by

**GS1 Identification Keys (e.g. GTIN, GLN, SSCC)
and attribute data**



How to reduce medication errors?

Automatic identification e.g., bar codes reduce the possibility of human error and reduce medication error



Automatically match patient data, product data and care giver data



Using the GS1 System of **globally unique identifiers** and **globally interoperable data carriers** ensures effective medication administration



Trends for identification and bar coding medicines





Current / Future Pharmaceutical Requirements, including.....

- Cambodia
- China
- Brazil
- Chile
- Colombia
- USA
- Venezuela
- Poland
- Slovakia
- Slovenia
- Yugoslavia (7 countries: Bosnia & Herzegovina, Croatia, Kosovo, Macedonia, Montenegro, Serbia, Slovenia)
- Kazakhstan
- Serbia
- Ukraine
- Belgium
- Greece
- Spain
- Switzerland
- Japan
- France
- Turkey
- Korea
- India
- Brazil



Australia

Recent Announcements



Position Statement for Canadian Healthcare Prepare for Global Supply Chain Standards Adoption

Additional Secretary
Tel/fax: 011-28083808
Email: ash-mbhw@nic.in



Sub: Use of GS1 barcodes for all medical supplies procured by MoHFW

Dear

The Ministry of Health & Family Welfare (MoHFW), Govt of India undertakes procurement of drugs, devices and other medical supplies under various programmes by different divisions to ensure their availability at facilities such as sub-centres, PHCs, CHCs / FRUs and District Hospitals, etc. The ready availability of these drugs, devices and other medical supplies at various distribution points is of paramount importance for the successful implementation of programmes / schemes.

It is important to identify all medical supplies in a unique, unambiguous and universal manner besides facilitating efficient management of stocks throughout the supply chain, by tracking and ensuring timely and accurate recalls and withdrawals, when required, management of drugs according to their expiry dates, e-procurement, etc. It has been, therefore, decided to mandate the use of GS1 barcodes on all drugs, devices and other medical supplies procured by all divisions of MoHFW by 1st April 2010 for various programmes / schemes. GS1 barcodes shall need to be incorporated as part of commodity labelling and packaging specifications by all suppliers by the above date.



भारत सरकार
स्वास्थ्य एवं परिवार कल्याण मंत्रालय
निर्माण भवन, नई दिल्ली - 110108
Government of India
Ministry of Health & Family Welfare
Nirman Bhawan, New Delhi - 110108
18025/02/08-EPW
October 20, 2009

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International Initiatives





Council of Europe

**Partial Agreement
in the Social and Public Health Field
Accord Partiel
dans le domaine social et de la santé publique**



Update the national and European legislative framework to require **complete and unambiguous labelling of every single unit of use** of all licensed medicines products (e.g. tablet, vial and nebulas), including the international nonproprietary name (INN), trade name, strength, expiry date, batch number and a data matrix bar code. The data matrix bar code should contain a GS1 Global Trading Index Number (GTIN) identifier in addition to the expiry date and batch number.

Creation of a better medication safety culture in Europe:
Building up safe medication practices

Expert Group on Safe Medication Practices (P-SP-PH/SAFE)

(2006)

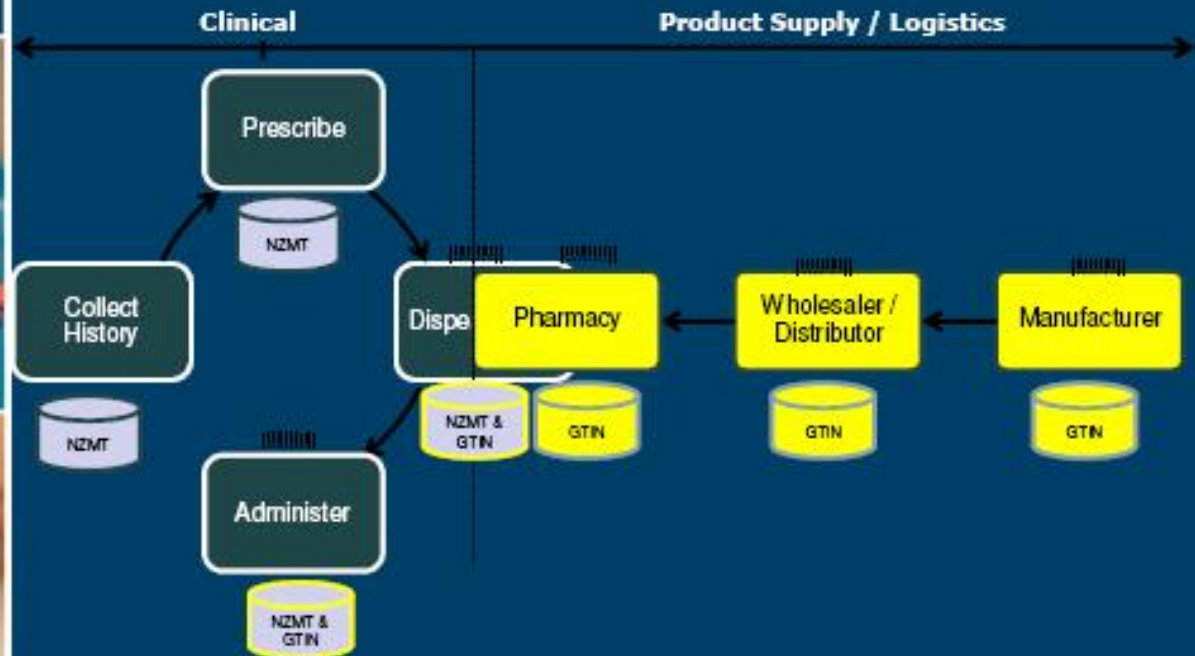


www.safemedication.org.nz



Progress

- One barcode can be used from manufacturer to the bedside yet support both clinical and product supply needs



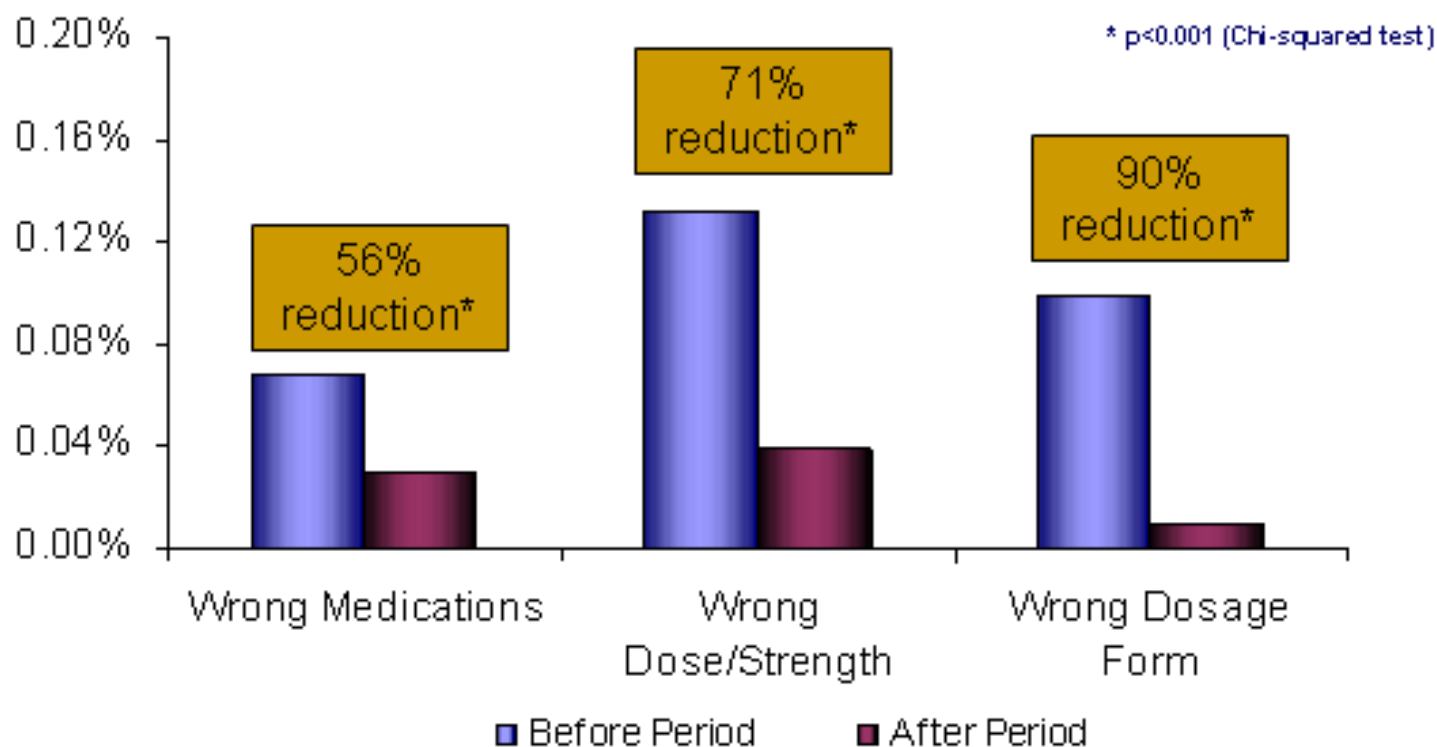
Evidence: patient safety

- ✓ Combined electronic prescribing, automated dispensing and bedside verification reduces prescribing (3.8% to 2%) and administration errors (7% to 4.3%) and patient ID checks increase from 17% to 81% (Charing X)
- ✓ Bar coding use in blood transfusions associated with reduced transfusion errors (Oxford)
- ✓ Vaccines – use of batch no or expiry date in code form associated with reduced immunisation errors. (Canada)

Brigham and Women's Hospital

Pharmacy Dispensing Data

Overall Targeted Errors Reduced by 85%



Poon EG, Cina JL, Churchill W, et al. Medication Dispensing Errors and Potential Adverse Drug Events before and after Implementing Poon EG, Cina JL, Churchill W, et al. Medication Dispensing Errors and Potential Adverse Drug Events before and after Implementing Bar Code Technology in the Pharmacy. *Ann Intern Med.* 2006; 145:426-434 Bar Code Technology in the Pharmacy



Australian Foundations





NEHTA eProcurement Strategy

- NEHTA have chosen to use GS1 XML as their electronic messaging standard
- They have chosen four messages to cater to the needs of the supply chain
- The data sets used in these messages are based on the recommendations made in the AS 5023 2003 guidelines
- Multi Shipment Order, Order Response, Despatch Advice, Invoice



NEHTA XML
messaging
standards



WA Health live
NSW Health live



A number of
suppliers




Other Jurisdictions
and Suppliers WIP

E-procurement

TGC 34th meeting, 13 May 2009

Therapeutic Goods Committee

Meeting report

 [TGC 34th meeting \(13 May 2009\) meeting report \(pdf,116kb\)](#)

Medicine labelling - Inclusion of bar codes on medicine labels

The Therapeutic Goods Committee RECOMMENDS that:

1. Stakeholders should be consulted on the proposal that Therapeutic Goods Order No. 69 *General requirements for labels for medicines* (TGO 69) should be amended to require that the labels of medicines include a machine readable code such as a bar code; and
2. The proposal to be consulted on should include the following elements:
 - a. The machine readable code must encode the Global Trade Item Number (GTIN) for the medicine as allocated under the GS1 System;
 - b. The machine readable code must identify different product variants and, as a minimum, differentiate between different strengths, pack sizes and dose forms;
 - c. Inclusion of additional information such as batch and expiry details should not be prevented;
 - d. The format of the machine readable code should not be specified, but sponsors of medicines be permitted to select the format best suited to their particular product and the regulatory environment;
 - e. The machine readable code must appear on the primary pack of the medicine; and
 - f. A transition period of three years should be permitted for compliance.



Industry Collaboration



Global: GS1 Healthcare










ALSO IN THIS ISSUE:

Government and Regulatory Activities 2

- United Nations & International drug control systems
- European Commission and legislative proposals on counterfeit medicines
- The European Commission and UDI
- FDA public workshop on UDI related issues
- Australia - a world leader in Healthcare
- Chile - bar codes modernize the Chilean Healthcare sector
- Brazil - National traceability and authentication project
- UK - GS1 UK submits recommendations to Health Commission's inquiry into patient safety

News from around the world 5

- Europe - GPH A project for coding and identification of pharmaceutical products
- Europe, Austria and France - Successful eBusiness & Supply Chain Task Force (STF) perspective
- Germany - EK UNICO endorses GS1 Standards for Patient safety and process optimization
- USA - Survey results confirm progress on data standards
- USA - 5M1 provider members announce support for data standards adoption
- USA - Major Premier hospitals endorse GS1 Standards
- France - GS1 Standards enable the AURS@eProcurement platform
- USA - Georgia Society for Healthcare Materials Management and on-site supply chain standards
- France - Traceability of sterilized medical devices at Robert Banger Hospital
- Austria - From the national 'Pharmaceuticals answer' to an international product identifier
- Japan - Traceability of medical supplies at Kyoto Second Red Cross Hospital
- Austria - Planning a new hospital: considering identification requirements
- UK - Nurse lose up to 25% of working time looking for medical items

GS1 Healthcare Update 9

- Enabling traceability of medical products from production to patient
- Overview from the GS1 Healthcare Work Teams
- Dose for your diary

Hospitals in search of 12

Some healthcare supply chain providers must be the driver. Although GS1 believes standards joint effort by all supply chain. Healthcare providers continue endorsing GS1 Standards and have already adopted some standards had already reported on a number group purchasing or organizations around the world. Further on developments in Austria, France





The 12th global GS1 Healthcare conference was held for the first time within a hospital. The Orthopädisches Spital Spiezling in Vienna (Austria) opened up its magnificent and historic 'Festsaal' (festival room) to more than 200 delegates from 35 countries. The hospital also invited the participants to see GS1. The Orthopädisches Spital Spiezling, an Austria employee and approximately largest group of private health and another large Austrian hospital (Krankenanstaltenverbund), are of the GS1 global Healthcare group.

(continued on page 2)








GS1 Healthcare
Reference Book
2009/2010

More information: www.gs1.org/healthcare



Thank you...

