

Are your clinical and supply chain processes putting your **patients and reputation at risk?**



In today's healthcare environment, visibility, traceability and accountability are essential to deliver better patient outcomes.



Enabling Patient Safety and Innovation in Canada's Healthcare System

GS1 standards and data integrity protocols simplify the exchange of accurate and timely information and enable manufacturers, distributors and providers to talk to one another using a common language, enabling greater patient safety, efficiency and cost savings.



Healthcare leaders are seeking innovations to improve patient safety and drive health system efficiency. Yet the reality is that many hospital leaders are faced with using outdated and inefficient methods for managing the flow of devices, pharmaceuticals and foodservice products from the point of manufacture to the patient.

Canadian patients expect the safest, most sophisticated and effective systems in every facet of their care. However, most would be shocked to learn that it is easier to trace and recall a bottle of water than a faulty medical device.

A bottle of water is safer because it is labelled by the manufacturer with one global GS1 barcode, and all the product information and images are stored in a national product registry. This enables consistent and efficient communication, visibility and traceability.

By contrast, critical information about medical devices, pharmaceuticals and food products that move through healthcare facilities, is still largely managed manually and with proprietary codes resulting in fragmented supply chain systems. At each step along the supply chain, new and conflicting barcodes, product identifiers and catalogue numbers are added, which:

- Drains time and resources that could otherwise be directed at patient care
- Creates a complex, risky and costly system
- Drives inaccuracies and inconsistent information
- Increases the likelihood of medical errors
- Significantly decreases the ability to trace products
- Makes product recalls extremely challenging and inefficient

Hospitals that have moved to sophisticated purchasing programs continue to use proprietary product codes instead of the global standard, Global Trade Item Number (GTIN - the number at the bottom of a barcode) for product identification. Hospitals that do not adopt a global barcode marked by the manufacturer significantly decrease product traceability, putting their patients and reputation at risk.

Why is this bottle of water safer



Labelled with one global GS1 barcode

than these items?



Relabelled with multiple proprietary barcodes



The adoption of GS1 Standards and data integrity protocols as determined through trading partner requirements, provides you with a modern, interoperable system that supports all of your trading partner and healthcare delivery needs, including bedside scanning, maintaining electronic medical records and post-surgery follow up.

GS1 Standards helped save millions of dollars in four hospitals in the Netherlands

In addition to having a profound impact on patient safety and quality of care, the adoption of standards and data integrity protocols also improves efficiency and reduces costs.

The Situation

- Four hospitals in the Netherlands facing increased pressure to improve patient safety and reduce costs in their hospitals
- Their inventory management practices for medical devices were sub-standard
- They were using manual processes for ordering, billing and recall

The Solution

- With an initial one-time investment of \$236k per hospital, plus a \$297k annual investment, they integrated GS1 supply chain and data integrity protocols, including GTIN, GLN and global traceability standards, along with the deployment of an effective IT infrastructure to track and trace products throughout the supply chain

The Return-On-Investment

- A return on investment of \$910k in the first year and \$3.4m by the third year
- Accelerated recall procedures
- Reduced inventory levels by 20 per cent and decrease in obsolete products by 80 per cent
- Achieved a 25 per cent reduction in stock replenishment handling costs
- Enhanced use of consignment goods

Source: GS1 Healthcare Reference Book 2012/2013

The adoption of GS1 Standards and data integrity protocols:

Improves Quality of Care and Patient Safety:

- Reduces medical errors by matching product data to patients to ensure accuracy
- Ensures the use of perpetually-cleansed and updated product data between all trading partners, for all clinical and patient processes
- Enables effective and timely recall processes
- Eliminates obsolescent and discontinued products
- Facilitates bedside scanning and electronic medical record management
- Fights counterfeiting

Reduces Costs and Improves Efficiency:

- Optimizes replenishment through the electronic processing of orders and invoicing
- Eliminates relabelling
- Reduces inventory and improves shelf/cart management
- Provides access to clean, standardized information to prevent errors and administrative waste
- Optimizes receiving



Identify

- Locations
- Products
- Assets
- Patients
- Documents



Capture

- Barcodes
- RFID



Share

- Electronic data exchange
- Data synchronization



Use

- Bedside scanning to electronic medical record
- Product recalls
- Item master file integrity
- Medication dispensing
- Order and contract management
- Unique Device Identification (UDI) and asset tracking
- Global product identification
- Nutritional data and menu planning
- Consignment inventory
- Mobile/Virtual Health

Standards Development and Education

GS1 Canada, a member of GS1 Global, helps the Canadian healthcare sector improve patient safety through the development and integration of global standards. GS1 Canada also assists domestic and global Canadian competitiveness by ensuring business requirements are identified and incorporated into the Global Standards Management Process (GSMP). To ensure that Canadian businesses are poised for success, GS1 Canada provides education and training, and implementation support on global standards as well as support solutions as determined through trading partner requirements.

GS1 Canada GDSN Data Pool Service

GS1 Canada offers **GS1 Canada Global Data Synchronization Network** (GDSN) data pool to enable organizations to electronically pass product data to any GDSN data pool in the world. GS1 Canada GDSN data pool is powered by 1WorldSync, the largest certified GDSN data pool in the world.

ECCnet Registry, Canada's National Product Registry

GS1 Canada assists Canadian business with the adoption and implementation of GS1 standards like the Global Trade Item Number (GTIN - the number at the bottom of a barcode), and Global Location Number (GLN). Through ECCnet Registry, GS1 Canada operates its industry-based Product Information Management (PIM) systems.

These systems include incremental **data integrity protocols** to ensure that perpetually-cleansed and updated product data is available to all trading partners, including images and product recall information. Organizations load their product data into these solutions, **based on trading partner requirements**.

ECCnet Registry has been adopted by the Foodservice, General Merchandise, Grocery and Pharmacy sectors. The development of ECCnet Registry was funded by Industry Canada (now known as Innovation, Science and Economic Development Canada).

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Healthcare Advisory Council Members

The Healthcare Advisory Council provides advice, support and direction in relation to the advancement of a pan-Canadian initiative to achieve enhanced patient safety, improved health system quality and overall system efficiencies through the adoption of a single system of GS1 global standards in the Canadian healthcare sector.

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