

LIFE SAVING SOLUTIONS FOR YOUR BUSINESS

We face challenges every day: more and more data, numbers, images to be stored, organized, archived, searched, protected. Samples to be processed, lives to be saved, information to be accessed, stored, transmitted. Faster, bigger, better. Flawlessly.



CHALLENGES

There are still industries that are not using barcodes. Can you imagine what the world would be like if barcodes didn't exist today? Paper-based recording and manual processes simply can't suffice for growth, demand, progress or competition. Imagine how much would take a doctor to access a patient's file or to process samples. Or how much it will take to provide results in a lab processing 10000 – 100000 samples a day. This would make the difference between life and death. Or right from wrong.

In a before-and-after, quasi-experimental study conducted in an academic medical center that was implementing the bar-code there were assessed rates of errors in order transcription and medication administration on units before and after implementation of the bar-code. The study analyzed 14,041 medication administrations and reviewed 3082 order transcriptions. Observers noted 776 non timing errors in medication administration on units that did not use the bar-code (an 11.5% error rate) versus 495 such errors on units that did use it (a 6.8% error rate) — a 41.4% relative reduction in errors (P<0.001)

Algoma Public Health (APH) in Ontario and four First Nations (FN) communities in Alberta participated in a study that compared the recording of client immunization data (vaccine name, lot number, expiry date) using barcode scanning of vaccine vials vs. pre-existing methods of entering vaccine information into the systems. From July until November 2012, 628 (282 barcoded) vials for the APH study and 749 (408 barcoded) vials for the study in FN communities were processed. Barcode scanning led to significantly fewer immunization record errors than using drop-down menus (APH study: 0% vs. 1.7%) or typing in vaccine data (FN study: 0% vs. 5.6%).

CHALLENGES

The Institute of Medicine (IOM) estimates that, on average, a hospitalized patient is subject to one medication administration error per day, and deems medication administration error a priority for patient safety intervention (Institute of Medicine. Preventing Medication Errors, Washington DC, The National Academies Press, 2007)

In hospitals, the medication administration stage accounts for 26% to 32% of adult patient medication errors and 4% to 60% of pediatric patient medication errors

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS--three causes that receive far more public attention.

SOLUTIONS: BARCODE GENERATOR SDK AND BARCODE READER SDK



HOSPITAL MANAGEMENT

- Barcode SDK can be used for secure staff identification. Hospitals can provide doctors and nurses with identification cards that include bar codes to enter certain areas and to restrict access to others.
- Inventory management can be very time-consuming without the right tools. Use our barcode SDKs to label all equipment with the necessary tracking information from a unique ID to the next revision date.
- Barcode SDK can be used for equipment sterilization procedures. With our products, instruments are counted or inventoried within seconds, while remaining in their sterile packaging.
- Barcode SDK can be used to prepare surgical instruments for operating theaters. All functions related to surgical instruments in a hospital, from the operating theaters to cleaning and storage, can be tracked and traced.

