

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.

SOLUTION: BYTESCOUT PDF EXTRACTOR SDK



PATIENT DATA MANAGEMENT

- PDF Extractor SDK helps with data extraction from incoming documents with patient related information. It can extract data from PDF forms, extract text from scanned paper documents, index documents for text search purposes.
- PDF Extractor SDK helps with data extraction from invoice and orders to eliminate manual entering into database. With this SDK data is automatically extracted as JSON, XML or CSV that can be analyzed and exported into database, Excel spreadsheet or to text files. The growing number of daily incoming documents can be handled by this solution as processing one single document takes is faster and does not require manual review of all documents.

