

Implementation Pilot for Adoption Strategies for 2D Barcodes

Immunizer Site Training

Version 1.0

Deloitte Consulting LLP

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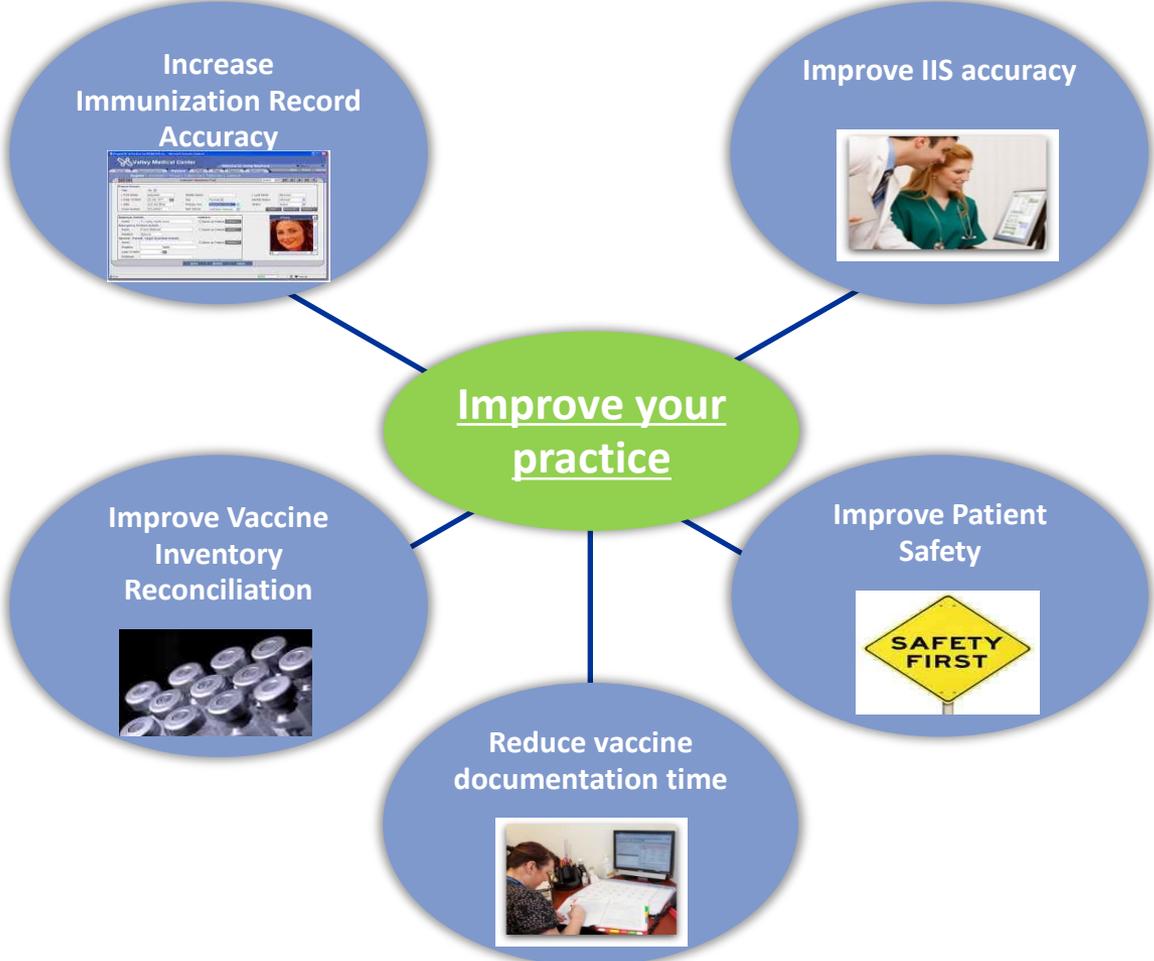


The Implementation Pilot for Adoption Strategies for 2D Barcodes is funded by the Centers for Disease Control and Prevention (CDC) and managed under contract by Deloitte Consulting, LLP (Deloitte). A two-year contract to design and implement the barcoding pilot was awarded to [Deloitte](#) in September 2013.

Why Are We Here?

Thank you for participating in this pilot. You are a select group of practices that can make a big difference. As the first to adopt this technology, you play a vital role in improving immunization records accuracy and completeness, **thereby increasing patient safety**. We are here to assist you with the use and adoption of this new technology.

Expected Benefits



Why 2D Barcoding?

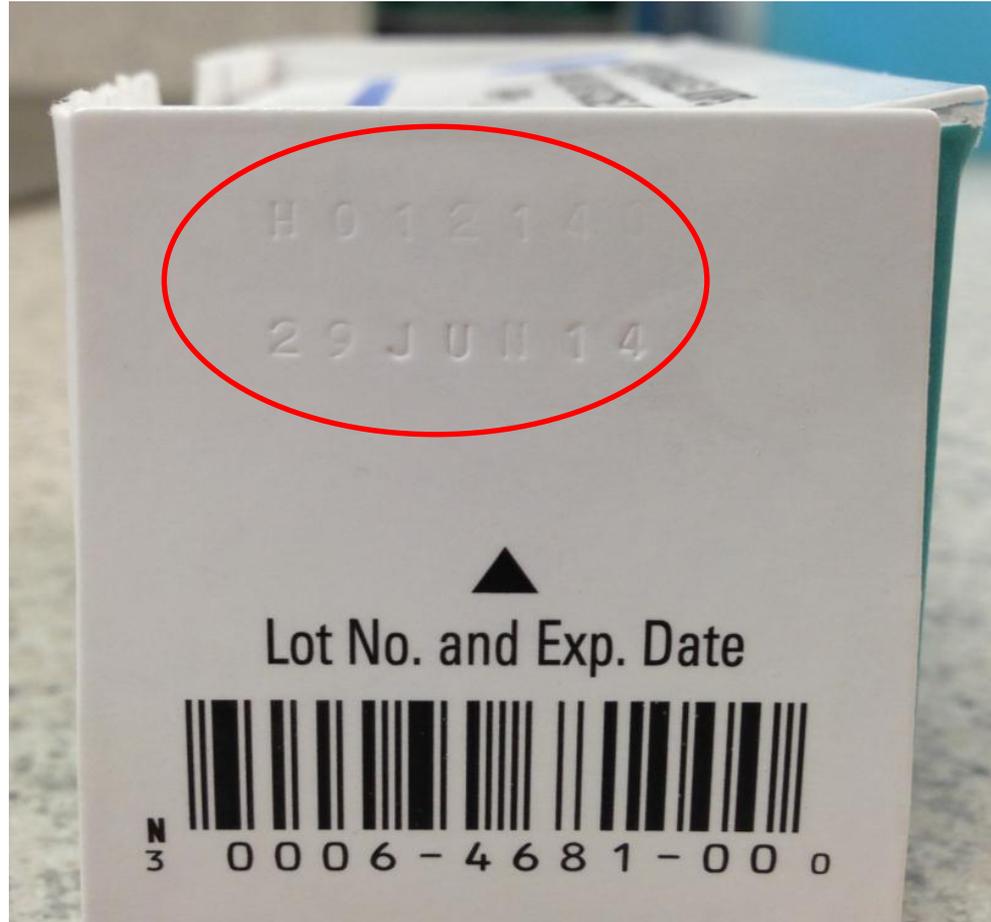


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- **Barcoding 101**

Quick Start

- Scanner Setup, Guidelines and Configuration
- Your practice workflow

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Vaccine Barcode Symbology



Encoded Data
• NDC



Encoded Data
• NDC
• Expiry Date
• Lot Number



2D Barcode Immunization-Based Applications



5 **What if the reaction?**

What should I look for?

- Any unusual or unusual behavior. It can include difficulty breathing, hives, pale or clammy skin.

What should I do?

- Call a doctor, or go to the hospital.

4 **What are the risks from MMR vaccine?**

A vaccine, like any medicine, is capable of causing serious problems, such as severe allergic reactions. The risk of MMR vaccine causing serious harm, or death, is extremely small.

Getting MMR vaccine is much safer than getting measles, mumps or rubella.

Most people who get MMR vaccine do not have any serious problems with it.

6 **The National Vaccine Injury Compensation Program (VICP) was created in 1986.**

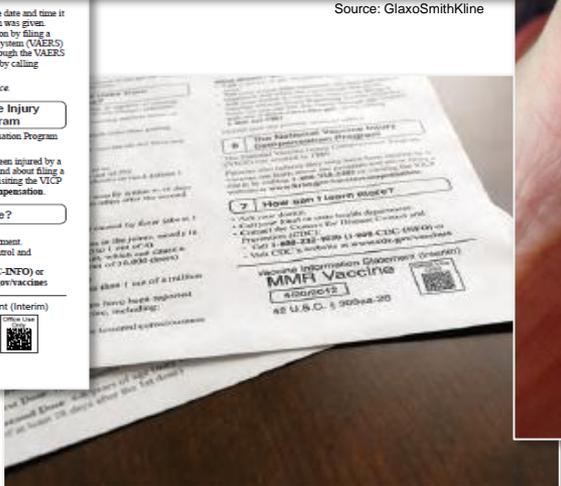
Persons who believe they may have been injured by a vaccine can learn about the program and about filing a claim by calling 1-800-338-2882 or visiting the VICP website at www.hrsa.gov/vaccinecompensation.

7 **How can I learn more?**

- Ask your doctor.
- Call your local or state health department.
- Contact the Centers for Disease Control and Prevention (CDC).
- Call 1-800-338-4636 (1-800-CDC-INFO) or
- Visit CDC's website at www.cdc.gov/vaccines



Source: GlaxoSmithKline



Source: GS1 Healthcare US

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Quick Start: Scanner Setup

We have provided you with **2-Dimensional area imaging scanners**. These scanners are expected to be used for recording immunization information into your electronic medical record (EMR) and/or your state or city immunization information system (IIS). We will be configuring these scanners to scan and drop data into your EMR and/or IIS system (Lot#, Expiration Date).

What is in each box?



Motorola DS4208 HC Scanner,
Quantity: 1

+



USB Connection Kit, Quantity: 1

+



Intellistand, Quantity: 1

What we are doing today?

1 Unpack
scanner boxes



2 Attach scanners to
your computers
(by USB)



3 Load your
custom
configurations



4 Test scanners to
work with your
EMR/IIS systems



Your scanners will now be ready for use

Quick Start: General Scanning Guidelines

As with any equipment, there are some general guidelines to follow so that you can maximize the efficiency of scanning and improve your user experience.

Mounting the scanner on a stand (hands free operation)

- Hold the vial between your index finger and thumb wrapping these fingers around the top round edge of the vial. Make sure the vial is at a right angle to the scanner lens
- Place the vial under the scanner while maintaining a distance of 4" to 5" away from the scanner lens, so that the red circle (from the beam) falls directly onto the barcode (in this mode, you **DO NOT** need to pull the scanner trigger)
- Make sure the barcode on the vial directly faces the scanner lens
- On successful scan, you will hear one beep, on an unsuccessful scan, you will hear no beep



Quick Start: General Scanning Guidelines

Holding the scanner by hand

- Always hold the vial between your thumb and index finger as shown to the right. The top of the vial should be under your index finger and the thumb under the bottom of the vial
- Hold the vial at a distance of 4" to 5" away from the scanner lens. This is optimal distance for scanning
- Make sure the barcode on the vial directly faces the scanner lens, then **pull** the trigger on the scanner
- On successful scan, you will hear one beep, on an unsuccessful scan, you will hear no beep



Maintaining your scanner

- Occasionally and with use, the scanner lens may get dirty. Use a standard clinical alcohol swab to clean the lens
- Always place the scanner in a safe and convenient place



Example: IIS Entry

You can use the scanners to record immunization in your IIS



Scan

Populate (in IIS)

Populated data

Records per page 8

Immunization Information - (Lots marked with '*' are from the private inventory)

Type Admin Date Vaccine Elig.

Mfr. Lot Vol. ml

Site Route Sig.

VIS:

Immunization Information - (Lots marked with '*' are from the private inventory)

Type Admin Date Vaccine Elig.

Mfr. Lot Vol. ml

Site Route Sig.

VIS:

Illustrative

* Some systems may not allow scanning on drop downs. In such cases, manual action will be required to pick a value

Example: EMR Entry

You can use the scanners to record immunization in your EMR

Scan



Populate (in EMR)

Populated data

A screenshot of the Epic EMR interface. The window title is "Ochin Production System". The main content area is titled "Immunizations - All Types". The "Administered Immunization" form is filled out with the following data: Name: Meningococcal Vaccine, Conjugate; Date: 5/2/2012; Time: (empty); Dose: 0.5ml; Mfg: (empty); NDC: (empty); Product: (empty); Expires: (empty); Site: (empty); Route: Intramuscular; Next due: (empty); Given: (dropdown menu); Given by: (dropdown menu); VIS date: 10/14/2011; Comment: (empty); Location: (empty). Below the form are buttons for "Accept as Incomplete", "Accept", and "Cancel". At the bottom, there is a section for "Incomplete Administrations" with two entries: "TDAP (7 + YEARS)" and "Meningococcal Vaccine, Conjugate". The status bar at the bottom shows "Results NO ACTION Rx Request Rx Response Staff Message - EMR Addendum Notification Canceled Ord" and the time "10:35 AM".

Sample only, individual screen may vary

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Technical Support

IMPORTANT: When you cannot scan a 2D barcoded vaccine...

- You may key in the Lot# and Expiration date using the keyboard, to maintain your practice's operations
- At the earliest opportunity call our support or email us:
 - **Phone: (800) 380-5147 Email: support@2dvaccineadoptionpilot.com**
April 2014 – January 2015; 10AM – 6PM EST
- We will make all attempts to resolve your problems as soon as possible so that you can resume scanning

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Future Potential

The purpose of this pilot is to assess the impact of 2D barcoded vaccines in capturing immunization information. If the study reveals positive indicators on operational impact and user adoption of this technology, there is tremendous potential to further extend immunization data recording. Realizing this potential may necessitate changes to your EMR and/or IIS systems.

Potential Future Enhancements (may requires changes to your EMR and/or IIS)

- Ability to scan dynamic product identifiers (e.g. NDC, Lot#) and auto-populate all other static information, like Manufacturer, Vaccine Name etc.
- Ability to record inventory by means of scanning primary or secondary product packaging; by 2017 2D barcodes on packaging will be required
- Ability to record product identifiers (e.g. Lot Number Expiration Date, NDC) at the time of patient encounter
- Ability to store Global Trade Item Number (GTIN) and translate to a National Drug Code (NDC) or vice versa
- Reduce time and increase efficiency and accuracy of recording patient encounter data



Thank You

(Happy Scanning!)