# MCIR: Getting "On-Board" with HL7

Wendy Nye Region 1 MCIR Manager

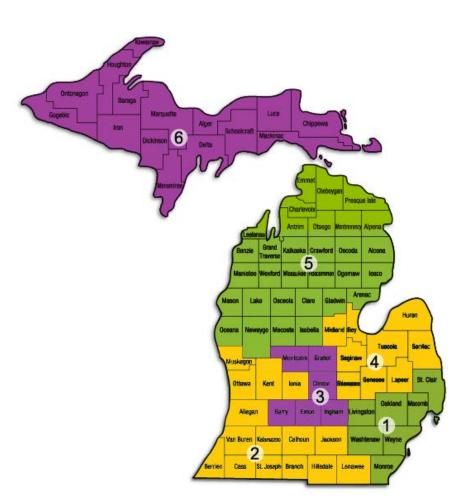
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# MCIR Basics

 Mandated reporting for children under the age of 20

- Lifespan IIS
- Six Regions (each with a Help Desk)
- State Help Desk
  - o Regions/Schools
  - MeaningfulUse

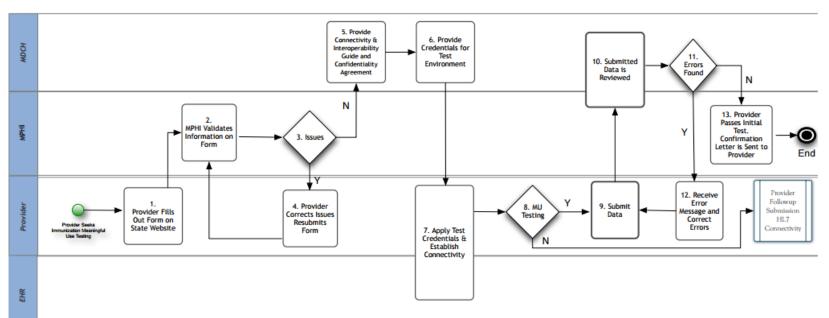


# **Tackling MU**

- Created an onboarding process for eligible providers/hospitals looking to fulfill MU objectives by electronically submitting immunization data to MCIR
  - Registration process
  - Testing
  - Production Approval
  - Training
  - Follow-up
- Developed Task Flow Diagrams with Activity Narratives for Staff

# Task Flow

#### Meaningful Use Stage 1 Testing



Page 1

# Task Flow

Activity Details / Narrative: The supporting information for each process

#### MEANINGFUL USE STAGE 1 TESTING

- 1. PROVIDER FILLS OUT FORM ON STATE WEBSITE
  - https://mimu.michiganhealthit.org/
- 2. MPHI VALIDATES INFORMATION ON FORM
- 3. Issues
  - If the MCIR ID is not present on the form the provider is encouraged to contact MCIR regional staff for the Site ID.
  - · Regions should inquire if the provider administers immunizations.
- 4. PROVIDER CORRECTS ISSUES RESUBMITS FORM
- 5. MDCH PROVIDES CREDENTIALS FOR TEST ENVIRONMENT
  - Provider receives an email with instructions on how to submit their first test message into a secure web form.

# MU Dashboard









#### **About MCIR**

**Contact Us** 

Resource Library

**Publications** 

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Links

SSO Login Page

Password Assistance

### Meaningful Use & MCIR



DO YOU NEED TO TEST WITH THE IMMUNIZATION REGISTRY?



HOW TO BEGIN TESTING WITH MCIR



**EXCLUSION** 



MCIR & CMS/ONC FINAL RULES

#### **HL7 Information**

Meaningful Use

Health Plans

Local Health Dept.

Public

Providers

**Pharmacies** 

MCIR Regional Coord

Schools/Childcare

Home

PUBLIC HEALTH
MEANINGFUL USE FAQS



OTHER USEFUL MEANINGFUL USE RESOURCES



@MPHI - Innovative Solutions Team

# **MU Checklist**



## Michigan Care Improvement Registry (MCIR) Provider Checklist for Achieving Meaningful Use (MU)

| ١. ا       | DETERM | MINING ELIGIBILITY   |
|------------|--------|--|
|            |        | Is the site an immunizing provider site or hospital? If not, you do not need to test with MCIR for MU.   |
|            |        | Is the site enrolled with MCIR? (Identify the 11-digit MCIR Provider Site Number) If yes, the office site administrator can look up the ID by following the directions provided through this link: Locating the MCIR Site Number. If not, contact your Regional MCIR Office: MCIR Regional Contacts to obtain it.  |
|            |        | The Electronic Health Record (EHR) must be certified. A complete list of certified products can be   |
|            |        | found at: Certified Health IT Product List   |
| 2.         | REGIST | RATION   |
|            |        | Complete the registration at Michigan Public Health and Meaningful Use Testing Registration  |
|            |        | Upon completion of the registration and validation by the MCIR staff, the site will receive an email confirming registration and outlining the next steps in the process.  |
| 3.         | TEST M | ESSAGE SUBMISSION  |
|            |        | Two emails will be issued to the designated site contact, coming from this extension: @michigan.gov:   |
|            |        | Follow the test message instructions by entering the exact password into the secure web form.<br>Generate an HL7 immunization message from the EHR; copy the message and paste the message into the secure web form. Click Submit.   |
|            |        | An immediate acknowledgement from MCIR will be generated when a test is successful.  |
|            |        | Unsuccessful tests generate an error. The most common errors are: "not a VXU message" (incorrect format) "conflict with password and Facility ID"  |
| ı. (       | CONFIR | MATION LETTER  |
|            |        | A confirmation letter containing the current status will be issued from the State of Michigan in the form of an email attachment.  |
| 5.         | REGIST | RATION OF INTENT   |
|            |        | To pass the Stage 1 and 2 requirements for Follow Up Submission, sites must submit a Registration of Intent notification stating they are actively engaged in the MCIR HL7 Data Quality Assurance (DQA) testing process. This notification must be made by email to: MU_MCIRHELP@mphi.org.   |
| <b>i</b> . | ONBO   | ARDING   |
|            |        | Provide the MCIR Specification Guide to your technical contact.  |
|            |        | MCIR requires connectivity through a Qualified Organization/Sub-State Health Information Exchange (QO/SSHIE). Choose a QO to transport the HL7 message. A list of available QO's can be found at: Qualified Organizations in the State of Michigan   |
|            |        | Health Information Exchanges and/or the EHR Vendor should evaluate the message header for required fields as well as ensure that the HL7 message structure conforms to the HL7 message standards <a href="https://pecific.pecific.org/lenguares/">https://pecific.org/lenguares/</a> Expecific fields are required for HL7 data submission; the following guide details these requirements: <a href="https://mcit.org/lenguares/">MCIR Specification Guide</a> |
|            |        | MCIR will not acknowledge a message if the MSH-4 Sending Facility field is not populated with the site's unique HL7 Facility Id. The HL7 Facility Id is assigned by MCIR.  |
|            |        | Questions regarding the message format can be sent to: MCIRHELP (MU_MCIRHELP@mphi.org).  |

#### 7. DATA QUALITY ASSURANCE (DQA) TESTING

| Once a QO is selected and connectivity is established, MCIR will work directly with the site and/or<br>EHR Vendor until they are approved by MCIR for production submission. Live patient data messages<br>that are sent from the QO/SSHIE to MCIR are used for DQA testing. There must be a sufficient<br>number of messages submitted before the DQA process can start. |
|---|
| MCIR DOA is conducted prior to production approval. The live patient data required during the DOA process is used for testing purposes only. Sites must continue to use the same method they currently use (hand entry/EXT Transfer upload) to enter data to MCIR until the production go-live date is set up.  |
| During DQA, MCIR provides feedback directly to the site and/or EHR Vendor. A site will be considered ready for production submission once all of the DQA issues are resolved. Detailed steps are included in the MCIR Data Quality Assurance. Steps document.   |
| Approval for production will be delayed if the data being submitted does not include all of the required fields and if invalid data is being documented in the required fields.   |
| Upon DOA completion and before a go-live and training date can be set up, the provider must complete the MCIR Provider Site Responsibilities & Contact Information form and email a copy of the form to MU_MCIRHELP@mphi.org and their Regional MCIR Office.  |
| Go-live dates and training sessions for the MCIR HL7 Electronic Submission Summary Report (ESSR) will be set up in coordination with the site and the Regional MCIR Office.   |

# Registration



### HOW TO BEGIN TESTING WITH MCIR

#### Steps for Meaningful Use Testing and Submission to Michigan Public Health Systems

#### Stage 1:

- Consult the Statement on the Availability of Public Health Systems to Conduct Meaningful Use Testing available at the end of this page (last updated on 9/20/2012).
- Three public health systems are available for testing. Download the appropriate specifications guide.

#### MCIR Testing Guide

Michigan Care Improvement Registry Data Quality
Assurance Process

MDSS Testing and Submission Guide

#### MSSS Testing and Submission Guide

Use the button below to "Register for Meaningful Use Public Health Testing."

#### Register with HSTR

- After MDCH receives your online registration, you will be contacted and given further details on the meaningful use (MU) testing process.
  - Upon receipt, your online registration will be placed into a queue. Testing priority is based upon (1) your agency's reporting period and (2) the order in which online registrations are received. Due to current testing volumes, please allow at least two weeks for a response. An email with test message submission instructions will be sent to the "Site Contact Person"
- 5. Submit your MU test messages.
  - The State of Michigan validates test messages ahead of and during 90-day attestation reporting periods. To allow time to address any unforeseen problems, your test messages should be submitted at least a month before the end of your 90-day attestation reporting period, and preferably well in advance of the beginning of the period. You cannot test after the final day of your 90-day reporting period.
- After your organization has submitted a test message and has begun the follow-up submission process, MDCH will send a confirmation letter for your MU records
- If you have any questions regarding MU testing with Michigan Public Health Systems, please contact: DCHPublicHealthMU@michigan.gov.

#### Stage 2:

- 1. MDCH is required to declare the readiness of each of its public health systems and registries to receive electronic submissions of clinical data for Stage 2 of Meaningful Use. CMS intends to develop a centralized list ("CMS repository") of this readiness information that covers all 50 states. If MDCH fails to declare its capability for a given system in the CMS repository prior to the EHR reporting period, the provider may claim an exclusion from the relevant measure. MCIR. MDSS, and MSSS intend to declare their readiness when the CMS repository is available. Until then, EPs and EHs must consult the Statement on the Availability of Public Health Systems to Conduct Meaningful Use Testing, below, to determine their eligibility for exclusion. EPs and EHs are required to check the CMS repository within 60 days of the start of their Stage 2 EHR reporting period. If the registry with which they wish to initiate ongoing submission is not ready to receive data, the provider may claim an exclusion from the relevant measure.
- EPs and EHs must register their intent to move to Ongoing Submission with the appropriate public health registry within 60 days of the start of their Stage 2 EHR reporting period. Failure to do so will result in failing the relevant Stage 2 MU measure.
- If a public health agency sends a written request for movement toward ongoing submission, an EP or EH must respond within 30 days. Failure to do so, on two separate occasions, will result in failing the relevant Stage 2 Meaningful Use measure.
- Detailed instructions for Stage 2 registration of intent to move to ongoing submission will be available soon.
- In the event that CMS does not have the aforementioned Public Health Readiness repository established by August 1, 2013, please refer to the "Statement on the Availability of Public Health Systems to Conduct Meaningful Use Testing" using the button below.

Statement on the Availability of Public Health Systems to Conduct Meaningful Use Testing Michigan Care Improvement Registry

HL7 2.5.1 Specification for Vaccination Messages

# Michigan Care Improvement Registry HL7 2.5.1 Specification for Vaccination Messages

Message types supported:

Vaccination Update (VXU)

The MCIR interface is currently at version 2.5.1 and is backwards compatible to earlier versions.

### **Document Description**

This guide is intended for immunization providers and their vendors to assist in connecting to the Michigan Care Improvement Registry (MCIR). MCIR is an immunization registry that compiles complete immunization histories for children and adults in Michigan. Electronic Health Record (EHR) systems that comply with Stage 1 Meaningful Use requirements must be able to submit immunization administration data to their state registry. This document explains technical details of this interface. The recommendations here are in line with CDC and HL7 standards and should be compatible with EHR Systems that are following Meaningful Use guidelines.

MCIR HL7 Submission Information and References.

MCIR Vaccine Codes including U.S. Licensed CVX, and MVX documents

http://www.mcir.org/HL7.html

MCIR codes are a reflection of those maintained at the CDC National Immunization Program website:http://www2a.cdc.gov/vaccines/IIS/IISStandards/vaccines.asp?rpt=cvx

# **DQA** Testing

### **Quality Report**

| Batch Title | Batch Type | Profile  | Received  |
|-------------|------------|----------|---|
| Weekly DQA  | Weekly     | HL7 File | Sun, Mar 15, 2015 12:00 AM thru Sun, Mar 22, 2015 |

At least 50 messages must be submitted to enable production readiness check.

### **Scoring Summary**

| DQA Score | Description |
|-----------|-------------|
| 49        | Problem     |

| Measurement     | Score | Description | Weight |
|-----------------|-------|-------------|--------|
| Completeness    | 84    | Good        | 50%    |
| - Patient       | 90    | Excellent   | 22%    |
| - Vaccination   | 95    | Excellent   | 22%    |
| - Vaccine Group | 8     | Problem     | 5%     |
| Quality         | 0     | Problem     | 40%    |
| - No Errors     | 0     | Problem     | 28%    |
| - No Warnings   | 0     | Problem     | 12%    |
| Timeliness      | 70    | Okay        | 10%    |
| - On Time       | 100   | Excellent   | 7%     |

Testing may include communication between the state, region, provider and vendor

### **Quality Score**

| Quality Score | Description |
|---------------|-------------|
| 0             | Problem     |

| Measurement | Score | Description | Weight |
|-------------|-------|-------------|--------|
| No Errors   | 0     | Problem     | 28%    |
| No Warnings | 0     | Problem     | 12%    |

| Coded Value Issues | Count |
|--------------------|-------|
| Unrecognized Codes | 2     |

Errors are expected to be encountered on less than one percent of messages.

### **Errors**

| Description   | Count | Percent |
|---|-------|---------|
| Vaccination admin code is invalid for date administered | 1     | 8%      |

Warning to message size rate is expected to be less than ten percent.

### Warnings

| Description   | Count | Percent |
|---|-------|---------|
| Observation observation identifier code is unrecognized                     | 14    | 117%    |
| Patient guardian responsible party is missing                               | 8     |         |
| Vaccination information source is historical but appears to be administered | 5     | 42%     |
| Vaccination CVX code is invalid for date administered                       | 1     | 8%      |



### Email notification to Provider, Regional Staff, and MU MCIR Help

From: Pam Kowalske

Subject: Dr. Bob's Shot Shack: Ready for HL7 MCIR Production Submission Planning Stage

Hi Dr. Bob,

MCIR is pleased to inform you that Dr. Bob's Shot Shack, Facility Id: 1234-56-78, is ready for the HL7 MCIR Production Submission Planning Stage.

Next Steps:

Complete the attached MCIR HL7 Roles and Responsibilities Information form and send a copy to Wendy Nye (wnye@hline.org) and Pam Kowalske (pkowalsk@mphi.org)

- 1. After Wendy receives a copy of the form, she will contact provider staff to make arrangements to set up their go-live date and MCIR transfer error report training.
- 2. Staff should continue to hand enter vaccines in MCIR until the date they go-live.
- 3. The Processing id in MSH-11.1 is set to the value of P. No changes need to be made. MCIR will process the messages in production on the go-live date.

Note: There are no system or user errors detected during this phase of DQA testing. Staff are documenting all of the required fields in the EHR: Lot#/Manf/Vaccine Eligibility.

Your vendor currently batches and sends HL7 messages to MCIR every 3 to 5 hours.

Thank you and congratulations!

# R&R Form

# Michigan Care Improvement Registry (MCIR) HL7 Provider Site Roles and Responsibility Information Form

This form must be completed prior to going live in MCIR Production. Email a copy of the completed form to <a href="MU\_MCIRHelp@MPHI.org">MU\_MCIRHelp@MPHI.org</a> and to your Regional MCIR Coordinator. Click on this link to find your Regional Coordinator's contact information: <a href="http://www.mcir.org/contact\_regions.html">http://www.mcir.org/contact\_regions.html</a>.

| contact miorination. <u>http://www.mcir.org/contact_regions.ncmi</u> . |
|--|
| MCIR Provider Site Name:   |
| MCIR Provider Site ID:   |
| MCIR HL7 Facility ID:  |
| Electronic Health Record (EHR) Name:                                   |
| EHR Product Name:  |
| EHR Version:   |
| HL7 Version:   |
| Current Data Entry Method (hand-entry, EXT transfer):                  |
| Messages sent: real-time ☐ batch ☐                                     |
| If batched, what is the frequency:                                     |
| Date Form Completed:   |
| Date of HL7 go-live in MCIR production:                                |
|  |
| Site Responsibilities include:   |
| one responsibilities moldes.   |



Target Date: 04/07/2015

### MCIR Electronic Submission Summary Report

#### PEOPLE

Interface PIN/Facility ID: Date Printed: 04/07/2015

| Persons Added/Updated                      | 8  |
|--|----|
| Persons Opted-Out                          | 0  |
| Persons Deceased.                          | 0  |
| Multiple Persons found                     | 0  |
| Persons not found for Update               | 0  |
| Other Persons Errors                       | 0  |
| Persons Rejected                           | 0  |
| Responsible Party Added                    | 8  |
| Responsible Party Added                    | 0  |
| Immunizations Added                        | 8  |
| Immunizations Deleted                      | 0  |
| Immunizations skipped having Person errors | 0  |
| Immunizations skipped having Person errors | 8  |
| Immunizations Rejected                     | 1  |
| Duplicate Immunizations                    | 3  |
| TOTAL IMMUNIZATIONS PROCESSED              | 12 |

# System Errors

### Errors from Transferred Data

Site Name: M

Description: TFR\_1429107948863

Data submission date range: 01/15/2015 - 01/31/2015

Interface PIN/Facility ID: Date Printed: 04/15/2015

Target Date: 04/15/2015

Error Count

OTHER SYSTEM ERROR

- 6

DOB: PATIENT ID: 717091

Vaccine reported in inventory for lot number AHBVC210DB is Hep B (ped/adol)(08), which does not match the vaccine reported as being administered, which was Hep B (adult) (43)

# User Errors

Date: 04/21/2015

### USER ERRORS REPORT

Page 8

| Origina             | Value New Value | Status  |
|---------------------|-----------------|---|
| PATIENT ID: 487100  |                 |   |
| Represents VFC elig |                 | Vaccine fund eligibility code should be entered |

| L,                 | Original Value | New Value | Status                              |  |  |
|--------------------|----------------|-----------|-------------------------------------|--|--|
| PATIENT ID: 637437 |                |           |                                     |  |  |
| Manufacturer       |                |           | SKB not found for vaccine code: 106 |  |  |

# **Transactions**

04/07/2015

### **Transferred Vim Transactions**

Page 1

Site Name:

Description: ESSR 3-15 to 3-22

Data submission date range: 03/15/2015 - 03/22/2015

Interface PIN/Facility ID:

Date Printed: 04/07/2015 Target Date: 04/07/2015

### Successful transactions

| Admin Date Product - Lot | Eligibility | Action | Inv. |
|--------------------------|-------------|--------|------|
|--------------------------|-------------|--------|------|

### Failed/Unprocessed transactions

| Admin Date | Product - Lot                                 | Eligibility           | Action | Inv. |
|------------|---|-----------------------|--------|------|
| (          |   | •                     |        |      |
| 03/18/2015 | TT (Tetanus Toxoid) Adsorbed (sanofi) - A076A | Private Pay/Insurance | Add    | UNK  |
|            | Status: Lot not found inventory               | •                     |        |      |
| B,,        |   |                       |        |      |
| 03/18/2015 | PPSV23 (Pneumovax) (Merck) - K019386          | Private Pay/Insurance | Add    | UNK  |
|            | Status: Lot not found inventory               | -                     |        |      |
| 03/18/2015 | Td (adult) (adsorbed) (MA Biologic) - A076A   | Private Pay/Insurance | Add    | UNK  |
|            | Status: Lot not found inventory               |                       |        |      |
| I          |   |                       |        |      |
| 03/18/2015 | TT (Tetanus Toxoid) Adsorbed (sanofi) - A076A | Private Pay/Insurance | Add    | UNK  |
|            | Status: Lot not found inventory               |                       |        |      |

# **Training**

### MCIR Electronic Submission Summary Report (ESSR) Tip Sheet

#### **Defining and Generating the ESSR**

The ESSR details HL7 immunization transactions and inventory transaction effects for a specified time period. To generate the ESSR complete the following steps:

#### Report Generation

- 1) On the MCIR home page, click the "Reports" tab, and then click "Transfer".
- 2) The Electronic Submission Summary Report is the default report, it displays automatically.
  - a. Type in the desired date parameters under start date & end date.
  - b. Type in a descriptive name for the report (such as the specified date range).
  - c. Click Submit.

#### Report Retrieval

- 1. On the MCIR home page, click the "Reports" tab, and then click "Ret
- 2. From the retrieve results screen, click the Report link to the right of t

#### Section One - MCIR Electronic Submission Summ

This section displays a numerical summary of transactions submitted, accepted, skipped

| зкіррец.              | 1  |  |
|-----------------------|--|--|
| Text                  | Explanation  | Effect/Issue   |
| Persons Added/Updated | Number of people with new<br>MCIR records created or<br>current MCIR records updated | EHR immunization Data<br>transferred successfully in<br>MCIR     New records created for<br>people not matched in MC |
| Persons Opted Out     | Number of people for whom<br>MCIR record has been marked<br>as opted out.            | Doses do not go into MCIR record     Doses do not deduct from inventory  |

### Dictionary of Common HL7 Errors Found in Section Two (Errors from Transferred Data) and Section Three (User Errors)

These sections detail errors that occurred either from an end user data entry error in the EHR or through programming errors made in the EHR HL7 transmission programming. The following table lists examples of error types with an explanation of what they mean and how to fix them.

| Error Text   | Explanation   | How to fix in an EHR that sends Electronic  | How to fix in an EHR that<br>sends only Add-type   |
|--|---|---|--|
|  |   | Edits (Deletes & Adds)  | messages   |
| Vaccine for this lot is Influenza TIV Injectable (141) which does not match the vaccine submitted on this record which was Influenza TIV P-Free Inj (140). | The lot number sent with the HL7 message indicates a different vaccine than the one that was sent in the HL7 message. In this particular example: Influenza TIV Injectable CVX Code: 141 are indicated by the lot number sent, but CVX Code: 140 Influenza TIV P-Free is the code that came through. MCIR picks up the mismatch and does not process the message with the conflicting data. | Enter the correct vaccine type in the EHR. The corrected vaccine will be sent to MCIR.  | Enter the correct vaccine directly in MCIR.  |
| No record to delete for the child<br>01234567890, vaccine code: 114<br>and shot date: 20120412   | There wasn't a record to delete in MCIR, no action was taken.   | No action needed.   | Not applicable.  |
| MCIR ld: 01234567890<br>Unable to delete dose. More<br>than one record having vaccine<br>Hep B (adult) (43) and shot date:<br>20120416 has been found      | Duplicate shot with conflicting lot<br>number information cannot be<br>deleted.   | Identify the lot number that was administered. In MCIR: delete the inaccurate immunization(s) from the patient's immunization History screen. If necessary, in the EHR click Submit/Accept to trigger an HL7 message, to send the correct data to MCIR. | Delete the incorrect immunization from the patient's Immunization History screen in MCIR. Make the correction to the lot number in the EHR so that it matches a lo number in the active MCIR inventory, this will generate submission to MCIR. |

# **Training**

### MCIR Vaccine Codes Including U.S. Licensed CVX, CPT-4, MVX and Unspecified

| CDC<br>Vaccine<br>Code<br>(CVX) | MCIR Vaccine Display<br>Name | CDC Product Name | CDC Vaccine Name                     | CDC Current<br>Procedural<br>Terminology<br>Code<br>(CPT-4) | MANUFACTURER       | Manufacture<br>r Code<br>(MVX) |
|---------------------------------|------------------------------|------------------|--------------------------------------|---|--------------------|--------------------------------|
| 24                              | Anthrax                      | BIOTHRAX         | Anthrax                              | 90581   | BioPort            | MIP                            |
| 19                              | BCG                          | МҮСОВАХ          | BCG: Bacilus of Calmette & Guerin    | 90728   | Sanofi             | PMC                            |
| 19                              | ВСО                          | TICE BCG         | BCG: Bacilus of Calmette & Guerin    | 90585   | Organon<br>teknika | OIC                            |
| 27                              | Botulinum Antitoxin          |                  | Botulinum Antitoxin                  | 90287   |                    |                                |
| 26                              | Cholera                      |                  | Cholera                              | 90725   |                    |                                |
| 29                              | CMVIG (IV)                   |                  | CMVIG (IV): Cytomegalovirus globulin | 90291   | МАРН               | МА                             |
| 12                              | Diphtheria antitoxin         |                  |                                      | 90296   |                    |                                |
| 28                              | DT (pediatric)               | DT (GENERIC)     | Diphtheria-Tetanus (DT pediatric)    | 90702   | Sanofi             | РМС                            |
| 106                             | DTaP (Daptacel)              | DAPTACEL         | DTaP (5 pertussis)                   | None  | Sanofi             | PMC                            |
| 20                              | DT-D (D-di-t-i-)             | TRIPEDIA         | DTaP                                 | 90700   | Sanofi             | PMC                            |
| 20                              | DTaP (Pediatric)             | INFANRIX         | DTaP                                 | 90700   | GlaxoSmithKline    | SKB                            |
| 110                             | DTaP-HepB-IPV<br>(Pediarix)  | PEDIARIX         | DTaP-HepB-IPV                        | 90723   | GlaxoSmithKline    | SKB                            |
| 50                              | DTaP-Hib (TRIHIBIT)          | TRIHIBIT         | DTaP-Hib                             | 90721   | Sanofi             | PMC                            |
| 120                             | DTaP-Hib-IPV<br>(Pentacel)   | PENTACEL         | DTaP-Hib-IPV                         | 90698   | Sanofi             | РМС                            |
| 130                             | DTaP-IPV (Kinrix)            | KINRIX           | DTaP-IPV                             | 90696   | GlaxoSmithKline    | SKB                            |
| 30                              | HBIG: HepB globulin          |                  | HBIG: Hep B globulin                 | 90371   | NABI               | NAB                            |
| 52                              | HonA (adult)                 | HAVRIX-ADULT     | Hepatitis A adult (HepA)             | 90632   | GlaxoSmithKline    | SKB                            |
| 52                              | HepA (adult)                 | VAQTA-ADULT      | Hepatitis A adult (HepA)             | 90632   | Merck              | MSD                            |

# Follow-Up

- Go-Live date chosen upon completion of training
- Request made to "flip-the-switch"
- Short-term monitoring of data flow/quality
- Ongoing HL7 reports for monitoring
- Post-go-live communications if necessary

# For More Info...

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