Michigan Care Improvement Registry (MCIR)
Data Quality Assurance (DQA) Process

Questions & Assistance Contact: MDHHS-MU-MCIRHelp@michigan.gov

MCIR requires connectivity through a Qualified Organization/Sub-State Health Information Exchange (QO/SSHIE). A list of available QO/SSHIE organizations is found by visiting Michigan Qualified Organization/Sub-State Health Information Exchanges.

Once a QO/SSHIE is selected and connectivity is established, MCIR will work directly with the site and/or EHR Vendor until they are approved by MCIR for production submission. To acquire a production status in MCIR, follow the steps outlined in this document.

Steps to Follow

1. Message Format Validation

MCIR HL7 is built to be backwards compatible with older versions. MCIR supports the CDC Implementation Guide for Immunization Messaging HL7 Version 2.5.1, as well as Version 2.3.1. To obtain a copy of this guide visit CDC HL7 Specification Guide.

2. MCIR Message Requirements

Sites and/or their EHR Vendor must configure their EHR according to the MCIR HL7 Specification Guide.

Special attention should be paid to the following:

- Vaccine CVX Codes
- Manufacturer MVX Codes
- Vaccine Eligibility Codes

Vaccine Eligibility Codes must be sent in the OBX-5 HL7 segment except other provider/historical data (where RXA-9 is not "00"). For every RXA HL7 segment of an administered vaccine (where RXA-9 is "00"), there must be an OBX.

- Make sure the MSH segment conforms to the MCIR HL7 requirements.

MSH Field	Field Name	Requirements
MSH-4	Sending Facility	Must be populated, should be in the format of '####-##-##'
MSH-5	Receiving Application	Must be populated with 'MCIR'
MSH-6	Receiving Facility	Must be populated with 'MDCH'
MSH-12	Version ID	Must be populated with a valid HL7 version, current supported versions are 2.3.1, 2.5.1

3. HIE Connectivity

Connectivity is established by sending an HL7 VXU message and receiving the acknowledgement (ACK). The SSHIE, EHR Vendor, or Provider site needs to notify MCIR at MDHHS-MU-MCIRHelp@michigan.gov when they are actively submitting **live patient** vaccine records to MCIR and ready to start the DQA process.

4. MCIR DQA Process

MCIR Analysts provides feedback directly to the site and/or EHR Vendor until they are approved for production submission. Communication methods used include email, group conference call meetings, or a phone call.

Live patient submissions will be used for DQA purposes only. There must be a sufficient number of messages submitted throughout the entire DQA process.

Sites must continue to use the same method they currently use (hand entry/EXT Transfer) to enter data into MCIR until the date of their go-live.

DQA is completed on all sites prior to production approval.

Note: The MCIR Region will complete a final DQA prior to approval for production.

5. MCIR Production Submission

The Processing Id in MSH 11.1 must have a value of P on or before the go-live date, otherwise MCIR will not process the messages.

Before the production go-live and error report training dates are set the provider must complete the MCIR Roles and Responsibilities Form they will receive by email notice. The completed form should be emailed to: MDHHS-MU-MCIRHelp@michigan.gov and your MCIR Regional Coordinator.

MCIR Regional staff will be in contact with site staff listed on the Roles and Responsibilities form to set up their production go-live and error report training dates.

Special Note:
On the go-live date, MCIR will direct the flow of HL7 messages from test to production. The QO/SSHIE and/or vendor does not need to take any action during this process.

Visit MCIR HL7-VXU page for resources regarding

HL7 Submission Info and References
HL7 Training & Education
MCIR Vaccine Codes Information
Approved Health System – Adding Sites and EPs