

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

To connect with the Michigan Care Improvement Registry (MCIR), it is essential to establish connectivity through a Qualified Organization/Sub-State Health Information Exchange (QO/SSHIE). The list of available QO/SSHIE organizations can be found by visiting the [Michigan Qualified Organization/Sub-State Health Information Exchanges](#).

Once a QO/SSHIE is chosen and connectivity is established, MCIR will collaborate directly with the site and/or Electronic Health Record (EHR) Vendor until they receive approval from MCIR for production submission. To achieve production status in MCIR, follow these steps.

Steps to Follow

1. Message Format Validation:

MCIR HL7 supports the CDC Implementation Guide for Immunization Messaging HL7 Version 2.5.1. For a copy of this guide, please reference the [CDC HL7 Specification Guide](#).

2. MCIR Message Requirements:

To meet MCIR's message requirements, sites and/or their Electronic Health Record (EHR) Vendors must configure their EHR systems in accordance with the [MCIR HL7 Specification Guide](#).

Special attention should be given to the following:

- Vaccine CVX Codes: Accurate utilization of these codes is crucial for proper identification and classification of vaccines with the MCIR.
- Manufacturer MVX Codes: These codes play a pivotal role in identifying vaccine manufactures, and accurate implementation is vital for maintaining data integrity within the MCIR framework.
- Vaccine Eligibility Codes – RXA-9: Adherence to these codes ensures precise tracking of vaccine eligibility information.
 - **Placement in HL7 Segment:** Ensure that Vaccine Eligibility Codes are transmitted within the OBX-5 HL7 Segment. This rule applies uniformly except for cases involving other provider/historical data, where ***RXA-9 is not*** designated as "00".
 - **Mandatory OBX Segment for Administered Vaccines:** For each RXA HL7 segment corresponding to an administered vaccine, where ***RXA-9 is explicitly marked*** as "00," it is imperative to include an accompanying OBX segment.
- 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 2.5.1

3. HIE Connectivity

Connectivity is achieved through the transmission of an HL7 VXU message, followed by the reception of an acknowledgment (ACK). The SSHIE, EHR Vendor, or Provider site is required to inform MCIR at MDHHS-MU-MCIRHelp@michigan.gov once they are actively submitting live patient vaccine records to MCIR and are prepared to initiate the DQA process.

4. MCIR Analysts offer direct feedback to the site and/or EHR Vendor until they receive approval for production submission. Communication methods include email, conference, video, or phone calls. Live patient submissions are exclusively for DQA purposes. The facility type (pediatric, family medicine, specialty clinic, etc.) will determine the number of messages with no errors and warnings expected. Sites are required to continue using their current data entry method (hand entry/EXT Transfer) until their go-live date.

DQA is finalized for all sites before obtaining production approval.

Note: MCIR Education Training Analysts will conduct a conclusive DQA prior to granting approval for production.

5. The Processing ID in MSH 11.1 must be designated as "P" on or before the go-live date; otherwise, MCIR will not process the messages.

Prior to establishing production go-live and error report training dates, providers must complete the [MCIR Roles and Responsibilities Form](#) received through email notification.

- Submit completed forms to the email address provided in the requesting email.
- The MCIR Education and Training Analyst staff will engage with the site staff identified in the Roles and Responsibilities form to arrange their production go-live and error report training dates.

Go-Live Note: On the go-live date, MCIR will seamlessly transition the flow of HL7 messages from the testing environment to production. No action is required from the QO/SSHIE and/or vendor during this process.

Visit [MCIR HL7-VXU](#) for more information on:

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

Questions & Assistance:

MDHHS-MU-MCIRHelp@michigan.gov or MDHHS-HL7@michigan.gov