

MIIC Data Quality and Provider Outreach

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Complete and accurate information for all clients receiving COVID-19 vaccine is crucial to quality data and reporting. This document covers common data quality issues, what providers can do to address them, and how to monitor your data quality in the Minnesota Immunization Information Connection (MIIC).

Common data quality issues

The MDH MIIC team reaches out to providers when the following data quality issues are identified. The team may reach out over email or phone, using the organization contact information provided during the COVID-19 vaccine provider registration process.

General issues

Dates

- **Incorrect vaccination date for Pfizer/Comirnaty:** Administration date is prior to the date of the emergency use authorization (EUA) for Pfizer/Comirnaty.
- **Incorrect vaccination date for Moderna/Spikevax:** Administration date is prior to the date of the EUA for Moderna/Spikevax.
- **Incorrect vaccination date for Janssen:** Administration date is prior to the date of EUA for Janssen.
- **Vaccination on or before date of birth (DOB):** Vaccination date is on or before a client's DOB.
- **Future vaccination date:** Vaccination date is after the date the vaccine was entered into MIIC.

Timeliness

- **Data entry exceeds the 24-hour data requirement:** Dose administration data is entered into MIIC later than the day after the dose is administered.

Immunization Information Source

- **Historical dose may not be true historical dose:** Entering a dose as historical means that the dose was given by another organization. When 10 or more doses are entered as historical, two or less days after dose administration, the MIIC data quality team is checking to make sure they are truly historical doses. If your organization gave the immunization, please mark the immunization as "administered."

Age

- **Vaccination before 18 years – Moderna/Spikevax:** Client is too young to receive Moderna (under 18).
- **Vaccination before 18 years – Janssen:** Client is too young to receive Janssen (under 18).
- **Vaccination before 12 years – Pfizer/Comirnaty:** Client is too young to receive Pfizer (under 12).

Product

- **Unspecified:** Unspecified vaccine product (CVX = 213). You must specify a vaccine product.
- **Unknown manufacturer:** Manufacturer information is missing from immunization message.

Dose

- **Ordinal position = 0:** Ordinal position is zero. Typically indicates three doses of vaccine given; one is likely incorrect.
- **Second dose:** Administration of second dose less than 17 days after first dose.

Validity

- **Invalid doses:** Validity is N. Typically because client was given an AstraZeneca or Novavax vaccine. Neither of these of these products has received an EUA at this time.
- **Doses entered by MIIC:** Doses were entered under MIIC organization.

Issues related to the spreadsheet (file upload using the MIIC interface)

- Added, removed, or moved columns.
- Inappropriate dates of birth (DOBs). Most common are:
 - Future DOBs
 - Formatted incorrectly, including spaces before or after date (this also happens with vaccination dates).
- CPT code and CVX code do not match.
- CPT code and manufacturer code do not match.
- Manufacturer code is missing.
- Special characters in spreadsheet. Most common are:
 - "Jr."
 - John, Jr.
 - Kathleen (Kathy)
 - John_Jr
- Last name or first name missing entirely.
- Name fields merged together. Such as JOHN ADAMS DOE in one column instead of using three separate columns for each part of the name, or middle initial in same cell as last name or first name.

- Entering the full vaccine name instead of the three-digit manufacturer code in column M, for example Moderna = MOD.
- Entering the vaccine dosage amount in column P instead of a dose-level eligibility (DLE) code.
- First and last names must be at least two characters (letters).

What to do if there is an issue with your COVID-19 vaccine data

- Consult with your IT staff and/or other vendors with whom you are working on client vaccination data.
- Email the MIIC help desk at: health.miichelp@state.mn.us.
 - Reach out to the MIIC help desk in a timely manner. Particularly with automated data exchange, it can be important to learn about the issue within seven days.
 - Gather as much information as possible when contacting MIIC: when the issue occurred, exactly what happened, and what you believe needs to be fixed. If there is an issue with a specific client or immunization message, please include as much detail as you can.

How to monitor your MIIC data quality

- Review your response messages.
 - For organizations submitting immunization messages to MIIC via HL7, MIIC returns a response message for each message received. These response messages let you know if your message was accepted or rejected and provides any information about errors in the submitted information or formatting of the message. Reviewing these messages is a good way to ensure that your data is being received by MIIC in a correct and timely manner. The method for viewing these response messages varies by EHR and health system, so please consult with your IT team or EHR vendor if you are interested in monitoring these messages or ensuring that they are monitored by your organization.
- Review the Vaccines Given report in MIIC to ensure that it tallies with your expectations.



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Contact health.communications@state.mn.us to request an alternate format.