

Childhood Immunization Assessment

MIIC USER GUIDANCE TRAINING RESOURCE

The childhood immunization assessment function in MIIC provides coverage rates for immunizations routinely recommended in early childhood. Depending on the option selected, users can assess current coverage rates or if the selected population was up to date by 24 months of age. With the childhood immunization assessment by 24 months of age functionality in MIIC, you can also generate a list of clients who were not up to date by 24 months of age.

Health care providers and local public health agencies are encouraged to use MIIC assessment functionality to monitor immunization rates and to conduct outreach to ensure children receive age-appropriate vaccinations.

This guide describes how to produce and interpret the child immunization assessment reports in MIIC. This guide will only discuss childhood assessment reports. Find more information on the other types of reports at [Immunization Assessment: MIIC User Guidance and Training Resources](http://www.health.state.mn.us/people/immunize/miic/train/assess.html) (www.health.state.mn.us/people/immunize/miic/train/assess.html).

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Getting started

1. Log into MIIC using your organization code, username, and password.
2. In the left-hand navigation menu, go to **Assessment Reports** then select **create assessment**. This will take you to the create assessment reports page.

To review assessment cohorts you have already created, click on **manage assessment**. Assessment cohorts are saved for 30 days.

Choosing a population to assess

The assessment reports section allows users to choose a population to assess:

- A standard population of children age 24 through 35 months.
- A population defined by an existing list within MIIC.
- A custom user-defined, age-based population.

Assessment populations

Option	Population included	Assesses coverage by	Report Types available	Use this option...
Standard (children 24 through 35 months)	Clients ages 24-35 months. Includes clients who turned 24 months on the day the assessment was created and those who will turn 36 months on the following day.	24 months of age	Summary Report Patients Not Up to Date List Not Up to Date Report Missed Opportunities Report	To assess whether 2-year-old clients were up-to-date with the recommended child vaccinations by the time they turned 24 months.
Use existing list	Clients included in the list selected	24 months of age	Summary Report Patients Not Up to Date List Not Up to Date Report	To assess whether a defined subset of your client population was up-to-date with childhood vaccinations by 24 months of age. Users may consider a list-based assessment for: a birth year cohort of patients, a list of WIC participants, a list of day care facility children, a list of patients with complex medical comorbidities, etc. The list must be previously created in MIIC. This is the only option that allows users to assess clients that are not associated with their organization in MIIC (i.e., clients that their organization has not reported information to MIIC for).
Custom Population: Up-to-Date by 24 months	User-selected age range, in months or years	24 months of age	Summary Report Patients Not Up to Date List Not Up to Date Report	To assess whether clients in the age range selected were up-to-date by 24 months of age. This option can be used to assess clients younger than 24 months of age, to identify and catch clients up-to-date before their second birthday.

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Option	Population included	Assesses coverage by	Report Types available	Use this option...
Custom Population: Up-to-Date by assessment date	User-selected age range, in months or years	User-selected assessment date	Summary Report	To assess whether clients in the age range selected were up-to-date by the selected assessment date. The assessment date is commonly the date the user generated the assessment report, though some users may change this to a set date to monitor coverage rates over time.

Creating assessments

This section will describe how to create an assessment.

- Select the radio button next to the desired population option.
 - If selecting **Standard (Children 24 through 35 Months)**, the client age range is preset.
 - If selecting **Use Existing List**, select the name of the list previously created in MIIC. Lists are displayed in alphabetical order. Continue to step 4.
 - Learn how to create a list at [Using Lists in MIIC](http://www.health.state.mn.us/people/immunize/miic/train/uselists.html) (www.health.state.mn.us/people/immunize/miic/train/uselists.html).
 - If selecting **Custom Population: Up-to-Date by 24 Months**:
 - Select **Months** or **Years** based on your intended assessment population.
 - Enter the age range. The birth date range will automatically calculate for you.
 - Select the **Age as of Date**. This will default to the date the assessment is created but the date can be changed to reflect any previous or future date.
 - If selecting **Custom Population: Up-to-Date by Assessment Date**:
 - Select “Months” or “Years” based on your intended assessment population.
 - Enter the age range. The birth date range will automatically calculate for you.
 - Select the “Age as of Date.” This will default to the date the assessment is created but the date can be changed to reflect any previous or future date.
- Some users will have an option to set the **client associations** for the assessment. This allows public health agencies to conduct either clinic-based or population-based assessments. This also allows some users of large organizations to conduct either clinic-based or health system-based assessments.
 - Clients associated with organization:** This option considers MIIC clients who are associated with your organization. Client associations are created when your organization reports immunization data to MIIC and/or updates the client’s demographic information in MIIC. Use this option for clinic-based assessments.
 - Clients residing in selected counties below:** This option considers all MIIC clients with an address in the selected counties. Use this option for population-based assessments.
 - After selecting the county or counties, you must click the **Add** button. Continue until you have chosen all the counties you wish to include in the assessment.

- ii. To remove a county from the **Selected Counties** box, highlight the county and click the **Remove** button.
- c. **Clients associated with selected organizations below:** This option considers all clients within MIIC who are associated with the selected organizations. Client associations are created when your organization reports immunization data to MIIC and/or updates the client's demographic information in MIIC. Use this option for multiple clinic-based assessments and/or health system-based assessments.
 - i. After selecting the organization(s), you must click the **Add** button. Continue until you have chosen all organizations you wish to include in the assessment.
 - ii. To remove an organization from the **Selected Organizations** box, highlight the location and click the **Remove** button.
- 3. If creating a **Custom Population: Up-to-Date by Assessment Date** assessment, select the **Assessment Date**. Vaccination status will be calculated using only vaccinations administered prior to the date selected. This will default to the date the assessment is created but the date can be changed to any date on or before today's date.
- 4. Optionally, enter a name for the assessment in the box next to **Assessment Name**.
- 5. Select the **Generate** button to navigate to the **manage assessments** page. Once your assessment is fully created, the status column will read **Ready**. Depending on the size of the cohort, this may take time. You may need to click the **Refresh** button until the assessment reaches ready status.

Managing assessments

Assessment cohorts cannot be edited once generated. To view a cohort with a different age range, create a new assessment.

Assessment cohorts are saved for 30 days. Follow the steps below to manually delete an assessment cohort:

1. Select **manage assessment** from the lefthand navigation menu to view the **Manage Assessment** screen.
2. Click the delete the red **X** icon next to the assessment cohort you wish to delete.

Generating reports

1. Click the view icon to go to the **Assessment Reports** page.
2. The assessment report(s) will appear in the **Generated Reports** section. Click the **Refresh** button until the status column displays **100%**, which may take several minutes.
3. Click the report view icon to view the corresponding report.
4. Click the delete icon to delete a report.

Interpreting assessment reports

Summary report

The **Summary Report** displays the following:

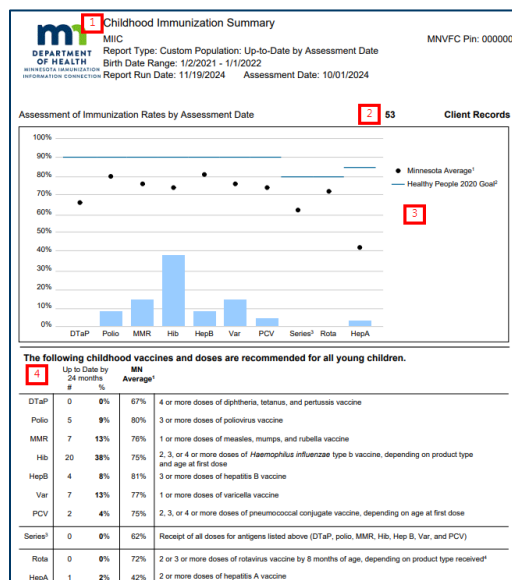
1. The report header displays:

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- Report name.
 - Name of organization that is running the report.
 - Report type.
 - List name (if running a list-based assessment) or Birth date range (if running standard or custom assessment; based on the **Age as of Date**).
 - Report run date.
 - Assessment date.
2. The number of client records assessed.
 3. A bar graph displays
 - The percentage of the cohort that you created who were up-to-date for the listed immunizations.
 - Minnesota statewide averages for the listed immunizations, as designated with a black dot for each vaccine.
 - Healthy People 2020 goals for the listed immunizations, as designated with a blue line for each vaccine.
 4. A table displays:
 - The number and percentage of the cohort that you created who were up-to-date for the listed immunizations.
 - Minnesota statewide averages for the listed immunizations.

Minnesota statewide averages are updated annually.

Summary report




Patients not up to date by 24 months list

The **Patients Not Up to Date by 24 Months** report lists all clients who were not up-to-date by 24 months of age. This report can help provider organizations identify clients who need to be recalled to the clinic for catch-up vaccination and identify trends in vaccinating children in their practice that are not up to date by 24 months. The report displays the following:

1. The report header, which includes:
 - Report name.
 - Name of organization that is running the report.
 - Report type.
 - List name (if running a list-based assessment) or Birth date range (if running standard or custom assessment; based on the **Age as of Date**).
 - Report run date.
 - Assessment date.
2. A table displaying client-level data, including:
 - Chart number (if reported to MIIC).
 - Name.
 - Birth Date.
 - MIIC Client ID.
 - Childhood immunizations and an indication if the client was not up to date by 24 months.
 - A column will be marked with an “X” if the client was not up to date by 24 months for that vaccine group.
 - Whether the client is still overdue for one (or more) immunizations.
 - If the client is still due for at least one vaccine, this column will be marked with an X.

Clients are considered **Late-up-to-Date** if they have one more **Xs** indicating that their vaccine(s) were not up-to-date by 24 months of age, but the **Still Overdue** column is blank.

Patients not up to date by 24 Months



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Patients Not Up To Date By 24 Months

MnIC
Report Type: Custom Population
Birth Date Range: 9/2/2023 - 1/1/2024
Report Run Date: 11/19/2024 Assessment Date: 11/19/2024

Chart Number	Name	Birth Date	Client ID	X = Not Up To Date By 24 Months	Still Overdue
				DTaP Polio MMaR HepB Hib Var PCV	
				X X X X X X X	X

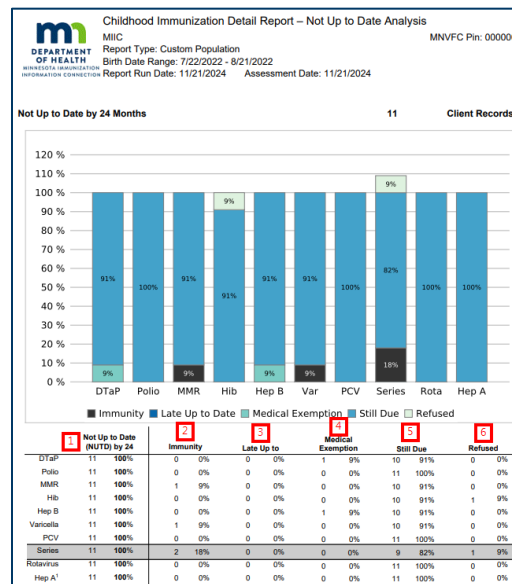
Not up to date report

The **Not Up to Date Report** displays, by percentage, the current status of children not up to date by 24 months of age for each childhood vaccine. The report displays:

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1. Number and percent of children assessed who were not up to date by 24 months of age for each childhood vaccine and the childhood vaccine series.
2. Number and percent of children with a Client Comment in MIIC indicating immunity to a disease that a vaccine contains an antigen for.
3. Number and percent of children who are **Late Up-to-Date** meaning they now up to date but received one or more vaccines after 24 months of age.
4. Number and percent of children with a Client Comment in MIIC indicating a medical exemption to the vaccine.
5. Number and percent of children who are still due for the vaccine.
6. Number and percent of children with a Client Comment in MIIC indicating their parent/guardian refused the vaccine.

Not up to date report



Learn more about Client Comments in MIIC in the [Managing Clients in MIIC \(PDF\)](https://www.health.state.mn.us/people/immunize/miic/train/manageclient.pdf) (www.health.state.mn.us/people/immunize/miic/train/manageclient.pdf) user guide.

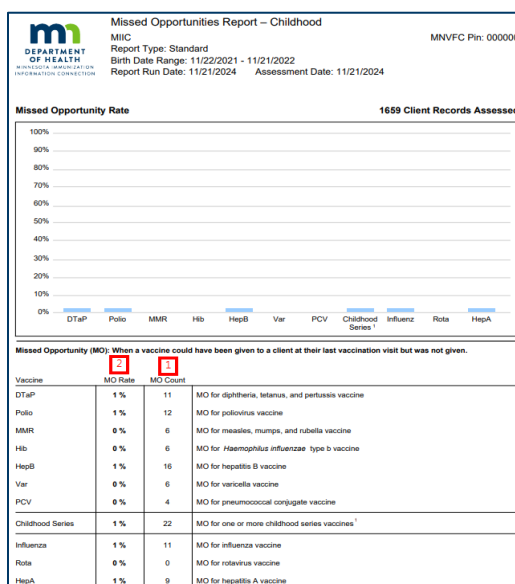
Missed opportunities report

The **Missed Opportunities Report** informs organizations of trends in missed opportunities. A missed opportunity is when a vaccine could have been given to a client at their last vaccination visit, but that vaccine was not given. The report helps providers identify trends to support quality improvement activities. For each childhood vaccine, the report displays:

1. Count of missed opportunities (**MO Count**).
2. Rate of missed opportunities (**MO Rate**).

Missed opportunities report

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Using assessment reports

After reviewing the MIIC childhood assessment reports, some users are initially surprised by lower-than-expected immunization coverage rates. Three factors may be at play:

1. Too many patients.

- For clinics/organizations:** A standard or custom population, the clinic-based report assesses all clients in the specified age range who are associated with your organization in MIIC. Client associations are created when your organization reports immunization data to MIIC and/or updates the client's demographic information in MIIC. Once a client association is established in MIIC, it remains until a user inactivates a client from their organization in MIIC. Many organizations have a process to routinely review their active patient population within their Electronic Health Record (EHR) but may forget to also maintain their client population within MIIC. Organizations that routinely manage their client population in MIIC benefit from more accurate MIIC assessment reports. Clinics and other organizations can work with MDH MIIC team members and/or an [Immunization Quality Improvement for Providers \(IQIP\)](http://www.health.state.mn.us/people/immunize/miic/iqip/index.html) consultant to integrate MIIC Client Management into their routine processes.
- For counties:** A standard or custom population, the county-based report assesses all clients who reside within the selected county/counties based on their address as reported to MIIC. If a client moves out of the county but whose address in MIIC has not been updated, that client will continue to be assessed in your county-based assessment report. County public health agencies can work with MDH MIIC team members and/or an [Immunization Quality Improvement for Providers \(IQIP\)](http://www.health.state.mn.us/people/immunize/miic/iqip/index.html) consultant to explore opportunities to update client addresses in MIIC when staff learn a client has moved.

2. Missing vaccine doses.

- Patient records may be incomplete if your organization does not report historical immunizations to MIIC or has experienced a lapse in data submission. Your organization is encouraged to work with the MIIC Help Desk to explore opportunities to address gaps in reporting data to MIIC. This could include updates

to your organization's electronic interface with MIIC to report historical immunizations, consultation on possible improvements in workflow and data reporting processes, and/or identifying a plan to review the electronic submissions to MIIC and address any rejections or errors. In some cases, the MIIC Help Desk may be able to assist with manual entry of historical vaccine records that only exist on paper.

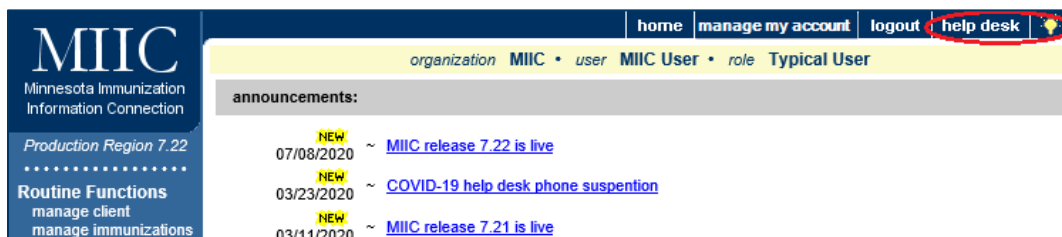
Learn more about capturing historical immunizations at [Capturing Immunizations Not Currently in MIIC \(PDF\)](https://www.health.state.mn.us/people/immunize/miic/train/captimm.pdf) (www.health.state.mn.us/people/immunize/miic/train/captimm.pdf).

3. Truly low rates.

- Statewide, childhood immunization rates have been declining. Minnesota providers are dedicated to on-time vaccination of children throughout the state. Routinely review MIIC assessment reports to track your efforts. Consider using the [Client Follow-Up](https://www.health.state.mn.us/people/immunize/miic/train/followup.html) (www.health.state.mn.us/people/immunize/miic/train/followup.html) tool in MIIC to identify clients due or overdue for vaccination and conduct outreach to families. Clinics may also be eligible to participate in the [Immunization Quality Improvement for Providers \(IQIP\)](https://www.health.state.mn.us/people/immunize/miic/igip/index.html) (www.health.state.mn.us/people/immunize/miic/igip/index.html) program, which supports clinics in quality improvement activities.

MIIC help

For additional questions contact the MIIC Help Desk at health.miichelp@state.mn.us. MIIC users can select the **help desk** button in MIIC to start an email to the MIIC Help Desk or select the light bulb icon to access additional user guidance and resources.



Minnesota Department of Health
 Minnesota Immunization Information Connection (MIIC)
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To obtain this information in a different format, call: 651-201-5207.