

# Adolescent Immunization Assessment

## MIIC USER GUIDANCE AND TRAINING RESOURCES

The adolescent immunization assessment function in MIIC provides coverage rates for immunizations routinely recommended in adolescence. Depending on the option selected, users can assess coverage rates as of a specific date or if the selected population was up to date by 13 years of age.

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

This guide describes how to produce and interpret adolescent immunization assessment reports in MIIC. It will only discuss adolescent assessment reports. For more information on the other types of reports visit

[Immunization Assessment: MIIC User Guidance and Training Resources](https://www.health.state.mn.us/people/immunize/miic/train/assess.html)  
(<https://www.health.state.mn.us/people/immunize/miic/train/assess.html>).

## Contents

Adolescent Immunization Assessment .....	1
Getting started .....	1
Choosing a population to assess .....	1
Creating assessments .....	2
Managing assessments.....	3
Generating reports .....	4
Interpreting assessment reports .....	4
Using assessment reports.....	5
MIIC help .....	6

## Getting started

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

If you want to review assessment cohorts that you have already made, click on “manage assessment.” MIIC saves assessment cohorts for 30 days.

## Choosing a population to assess

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

- A standard population of adolescents 13 through 17 years old.
- A population defined by an existing list within MIIC.
- A custom user-defined population.

## Assessment populations

## ADOLESCENT IMMUNIZATION ASSESSMENT

Option	Population included	Assesses coverage by	Report types available	Use this option
Standard (Adolescents 13 through 17 years).	Clients ages 13-17 years. Includes clients who turned 13 years on the day the assessment was created and those who will turn 18 years on the following day.	Date assessment was generated	Summary Report Missed Opportunities Report.	To assess whether clients 13-17 years old were up to date with adolescent, older teen, and/or older childhood vaccinations by the date the assessment was generated.
Use existing list.	Clients included in the list selected.	User-selected assessment date.	Summary Report.	To assess whether a defined subset of your client population was up to date with adolescent and/or older childhood vaccinations by the selected assessment date. Users may consider a list-based assessment for: a birth year cohort of patients, a list of students going into seventh grade, 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 not associated with their organization in MIIC (i.e., clients for whom their organization has not reported information to MIIC).
Custom population: Up to date by 13 years of age.	User-selected age range, in years.	13 years of age.	Summary Report.	To assess whether clients in the age range selected were up to date by 13 years of age. This option can be used to assess clients younger than 13 years of age and to identify and catch clients up to date before their thirteenth birthday.
Custom population: Up to date by assessment date.	User-selected age range, in 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.

1. Select the radio button next to the desired population option.
  - If selecting **Standard** (Adolescents 13 through 17 Years), 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 3.

Learn how to create a list at [Using Lists in MIIC \(www.health.state.mn.us/people/immunize/miic/train/uselists.html\)](http://www.health.state.mn.us/people/immunize/miic/train/uselists.html).

- If selecting **Custom Population**: Up to date by 13 years.
  - Enter the age range (in years). 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.
    - Enter the age range (in years). 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.
2. 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 all MIIC clients 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.
    - To remove a county from the **Selected Counties** box, highlight the county and click the **Remove** button.
  - **Clients associated with selected organizations below**: This option considers all MIIC clients 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.
    - 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.
    - To remove an organization from the **Selected Organizations** box, highlight the location and click the **Remove** button.
3. **If creating a list-based or 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 selected date. 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.

## ADOLESCENT IMMUNIZATION ASSESSMENT

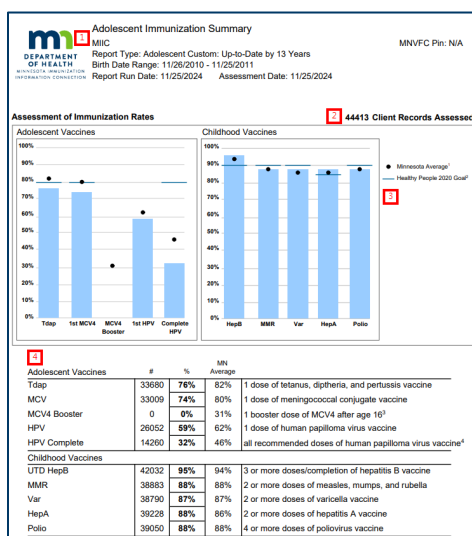
- Click the red **X** icon next to the assessment cohort you wish to delete.

### Generating reports

- Click the view icon to go to the **Assessment Reports** page.
- Depending on the assessment you created, one or more output options (reports) will be available for you to generate. Select the checkbox next to the report you wish to generate and then select **Generate Output**.
- 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.
- Click the view icon to view the corresponding report.
- Click the red **X** icon next to the report you wish to delete.

### Interpreting assessment reports

#### Summary report



The **Summary Report** displays the following:

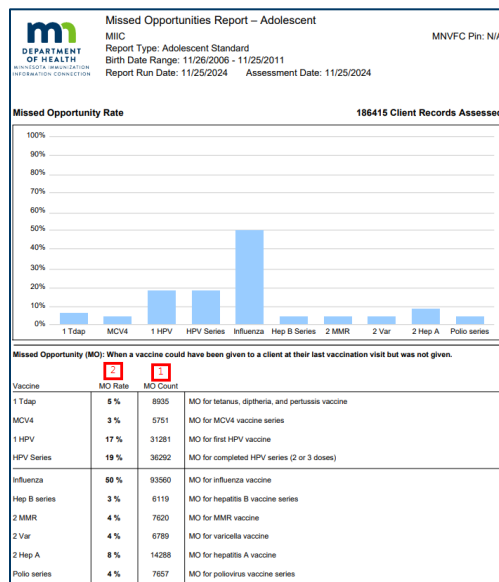
- The report header displaying:
  - Report name.
  - Name of organization that is running the report.
  - Report type.
  - List name (if running a list-based assessment) or Birth date range (if running standard or custom assessment; based on the **Age as of Date**).
  - Birth date range (if running standard or custom; based on the **Age as of Date**).
  - Report run date.
  - Assessment date.
- The number of client records assessed.
- A bar graph displaying:

## ADOLESCENT IMMUNIZATION ASSESSMENT

- 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 applicable immunizations, as designated with a blue line for each vaccine.
4. A table displaying:
- 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.

### 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. This report only considers vaccinations administered and reported to MIIC in the past 12 months when assessing for missed opportunities. The report helps providers identify trends to support quality improvement activities. For each vaccine, the report displays:

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

### Using assessment reports

After reviewing the MIIC adolescent 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 associated with your MIIC organization. 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 [IQIP](#) 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 \(IQIP\)](#) ([www.health.state.mn.us/people/immunize/miic/iqip/index.html](http://www.health.state.mn.us/people/immunize/miic/iqip/index.html)) consultant to explore opportunities to update client address in MIIC when staff learn a client has moved.

## 2. Missing vaccine doses.

- If your organization does not report historical immunizations to MIIC or has experienced a lapse in data submission, patient records may be incomplete. 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](#) ([www.health.state.mn.us/people/immunize/miic/train/captimm.pdf](http://www.health.state.mn.us/people/immunize/miic/train/captimm.pdf)).

## 3. Truly low rates.

- Statewide, adolescent immunizations rates are low. Minnesota providers are dedicated to on-time vaccination of adolescents throughout the state. Routinely review MIIC assessment reports to track your efforts. Consider using the [Client Follow-Up](#) ([www.health.state.mn.us/people/immunize/miic/train/followup.html](http://www.health.state.mn.us/people/immunize/miic/train/followup.html)) tool in MIIC to identify client due or overdue for vaccination and conduct outreach to families. Clinics may also be eligible to participate in the [Immunization Quality Improvement for Providers \(IQIP\)](#) ([www.health.state.mn.us/people/immunize/miic/iqip/index.html](http://www.health.state.mn.us/people/immunize/miic/iqip/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](mailto: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)  
 PO Box 64975, St. Paul, MN 55164-0975  
[health.miichelp@state.mn.us](mailto:health.miichelp@state.mn.us) | [www.health.state.mn.us/miic](http://www.health.state.mn.us/miic)

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To obtain this information in a different format, call: 651-201-5207.