

How to Run the Immunization Rates Report in CIIS

The *Immunization Rates* report determines the percentage of patients who are up-to-date on their immunizations. A user can review a specific antigen or a series of vaccines for up-to-date status. A detailed version of this report also identifies those specific patients who are not up-to-date and any reasons that a vaccination may be considered invalid by the CIIS forecasting algorithm.

Once you have logged into the CIIS website at <https://ciis.state.co.us/ciis/Login.aspx>, follow the instructions below to run an *Immunization Rates* report.

Step 1: To access the *Immunization Rates* report, click on the *Reports/Forms* link in the left - hand menu bar.

Step 2: Click on the *Immunization Rates* report link located under the group of reports labeled *Coverage Statistics*. If you don't see the *Coverage Statistics* section, please contact the CIIS Help Desk at 303-692-2437, option 2 for assistance.

The screenshot displays the CIIS website interface. On the left is a dark blue navigation menu with the CIIS logo at the top. The menu items are: Home, Patients, Immunizations, Inventory, Reports/Forms (highlighted with a white box), and Settings. The main content area is light gray and contains several report categories. A yellow callout bubble points to the 'Reports/Forms' link in the menu, stating: 'Step 1: To access the Immunization Rates report, click on the Reports/Forms link.' Another yellow callout bubble points to the 'Immunization Rates' link under the 'Coverage Statistics' category, stating: 'Step 2: Under the group of reports labeled Coverage Statistics, click on the Immunization Rates report.' The 'Coverage Statistics' category is circled in red. The 'VFC Reports' category is also visible at the bottom of the main content area.

TYPE 2 FOR PHYLLIS TRAINING ONLY, CLINIC: TRAINING PROVIDER TYPE 2

Patient Search

Home

Patients

Immunizations

Inventory

Reports/Forms

Settings

Patient Reminder/Recall

Coverage Statistics

Clinic Immunization Count

Dosage Report

Healthcare Worker Immunizations

Immunization Rates

Invalid Doses

Patient Counts by Age and Insurance Source

Vaccinations by Funding Source

VFC Reports

Patients Aged Out of their VFC Eligibility Code

VFC Category Patient Count Report

VFC Vaccination History

Step 3: Select the *Provider* and *Clinic* from the drop-down arrows for which you would like to run the report.

Step 4: Select the report type by clicking inside the radio button. Note: The *Appropriate Statistics Summary* report will show you high-level percentages whereas the *Patients not Properly Immunized Detail* report will give you a line listing of patients who are not up-to-date on the specified vaccines.

Step 5: Under *Doses By Vaccine Series*, you can either:

- Select a predefined vaccine series by clicking on the drop-down arrow; or
- Build your own vaccine series by clicking in the box (es) located under each vaccine and entering the dose number.

Tip: You can use the Advisory Committee on Immunization Practices (ACIP) schedule to help you determine which vaccine series or vaccine antigen is appropriate to use in your immunization rates report.

Step 6: Select the *Age Range*. Please Note: the system allows you to pick either months or years from the *Unit of Measure (UOM)* field.

Next, select the *As of Date Range*. For example, if you want to know your clinic's immunization rates as of today, you would enter today's date in both the *From* and *Through* fields. You can also look at your clinic's immunization rates for a one year period of time. For example, if you want to know the immunization rates for all patients age 19 to 35 months during the 2014 calendar year, you would enter 01/01/2014 to 12/31/2014. This approach can be useful for comparing your clinic's immunization rates from year to year.

Step 7: Click on *Run Report*.

The screenshot shows the 'Immunization Rates' report selection interface. The interface includes a sidebar with navigation options: Home, Patients, Immunizations, Inventory, Reports/Forms, and Settings. The main form area is titled 'Immunization Rates' and contains the following sections:

- Report Selection Criteria:** Includes dropdown menus for 'Provider' (selected: TRAINING PROVIDER TYPE 2 FOR PHYLLIS TRAINING ONLY) and 'Clinic' (selected: TRAINING PROVIDER TYPE 2).
- Report Type:** Includes radio buttons for 'Appropriate Statistics Summary' (selected) and 'Patients not Properly Immunized Detail'.
- Doses By Vaccine Series:** Includes a 'Vaccine Series Dose Presets' dropdown and a table for selecting doses for various vaccines.
- Age Range:** Includes 'From' and 'Through' date fields, a 'UOM' dropdown (selected: MONTHS), and an 'As Of Date Range' section with 'From' and 'Through' date fields.
- Compliance By:** Includes 'Age' and 'Or Date' fields, a 'MONTHS' dropdown, and checkboxes for 'Exclude Patients with Less than 2 non- Influenza/H1N1 Vaccinations?' (checked) and 'Count both valid and invalid doses (i.e., Do not run Recommender to validate immunization history)?' (unchecked).
- Buttons:** 'Run Report' and 'Cancel' buttons.

Callout boxes provide instructions for each step:

- Step 3:** Select the *Provider* and *Clinic* from the drop-down arrows.
- Step 4:** Select the report type by clicking inside the radio button.
- Step 5:** Select a predefined vaccine series by clicking on the drop-down arrow or build your own by clicking in the boxes located under each vaccine.
- Step 6:** Select the *Age Range* and *As of Date Range*.
- Step 7:** Click *Run Report*.

An additional callout box on the left states: 'It is recommended you leave this box checked.' pointing to the 'Exclude Patients with Less than 2 non- Influenza/H1N1 Vaccinations?' checkbox.

Additional Explanations on the Report Selection Criteria fields:

As of Date Range

Only patients within the indicated age range sometime during the specified *As of Date Range* are included in the report.

Compliance by

These dates are used to determine the point in time to evaluate the patients' immunizations to determine if they have satisfied the series or individual antigens selected in the *Doses By Vaccine Series*. These fields are not always needed. If they are left blank, the *As of Date Range Through* date will be used.

Exclude Patients with Less than 2 non-influenza/H1N1 Vaccinations?

By checking the box next to this field, patients will not be included unless they have at least two vaccinations in the registry that are not influenza or H1N1 doses. This helps to exclude patients who may only have their birth dose of Hepatitis B recorded in the registry.

Example of an Immunization Rates Report

Entering the Report Selection Criteria

In this example, I wanted to know how many patients at my clinic between the ages of 19 through 35 months were up-to-date on their 4:3:1:3:3:1:4 Vaccine Series as of May 12, 2015. This screen shot shows the report criteria I selected:

Immunization Rates

Enter the selection criteria and click "Run Report" or click "Cancel"

Report Selection Criteria

Provider
TRAINING PROVIDER TYPE 2 FOR PHYLLIS TRAINING ONLY

Clinic
TRAINING PROVIDER TYPE 2

Report Type

Appropriate Statistics Summary
 Patients not Properly Immunized Detail

Doses By Vaccine Series

Vaccine Series Dose Presets
4:3:1:3:3:1:4(4DTAP/TDAP, 3POLIO, 1MMR, 3HIB, 3HEPB, 1VARICELLA, 4PREVNAR) ▼

| DTaP/Tdap | Hepatitis A | Hepatitis B | HIB |
|--------------|-------------|---------------|-----------|
| 4 | 0 | 3 | 3 |
| HPV | Influenza | Meningococcal | MMR |
| 0 | 0 | 0 | 1 |
| Pneumococcal | Polio | Rotavirus | Varicella |
| 4 | 3 | 0 | 1 |

Tdap (Or Pertussis Containing)
0

Age Range **As Of Date Range**

From: 19 Through: 35 UOM: MONTHS ▼ From: 05/12/2015 Through: 05/12/2015

Compliance By

Age MONTHS ▼ Or Date

Exclude Patients with Less than 2 non- Influenza/H1N1 Vaccinations?
 Count both valid and invalid doses (i.e., Do not run Recommender to validate immunization history)?

Run Report Cancel

Under Report Type, the Appropriate Statistics Summary shows the number and percentage of patients who are up-to-date in the specified vaccine series. To view a report that details those patients who were not properly immunized, select the radio button next to Patients not Properly Immunized Detail.

Immunization Rates Report Outputs

1. *Appropriate Statistics Summary Report*

Below is an example of the *Appropriate Statistics Summary*. This report shows you the number and percentage of those patients given the appropriate number of doses of all indicated antigens (e.g. those patients who are up-to-date) and the number and percentage of patients who have not been given the appropriate number of doses of all indicated antigens (e.g. those patients who are not up-to-date).

In this example it shows that as of May 12, 2015, my clinic has a total of two patients who met the age range that was specified in the report criteria. Of those two patients, one is up-to-date on their 4:3:1:3:3:1:4 vaccine series and one has not been given the appropriate number of doses. **Please note:** The report also takes into consideration those patients who are marked as inactive in CIIS (e.g. no longer receiving care from your clinic); however, the report does NOT include inactive patients in your immunization rate. An inactive status includes patients who have moved, opted out of CIIS, or are deceased.



Immunization Rates Appropriate Immunizations

Provider = TRAINING PROVIDER TYPE 2 FOR PHYLLIS TRAINING ONLY, Clinic = TRAINING PROVIDER TYPE 2, DTaP/Tdap Series Count = 4, HepB Series Count = 3, Hib Series Count = 3, MMR Series Count = 1, PCV7 Series Count = 4, Polio Series Count = 3, Varicella Series Count = 1, Age Range = 19 - 35 (MONTHS) As Of 05/12/2015 - 05/12/2015, Exclude = Y, Count Valid And Invalid Doses = N

| | Full Data Set | Compliance Criteria Subset |
|--|---------------|-------------------------------|
| Total Patients | 2 | |
| Total INACTIVE Patients | 0 | |
| Adjusted Total Patients | 2 | |
| Patients GIVEN appropriate number of doses of all indicated antigens | 1 (50.00) | |
| Patients NOT GIVEN appropriate number of doses of all indicated antigens | 1 (50.00) | () |

50 percent of my patients are up-to-date in their 4:3:1:3:3:1:4 vaccine series and 50 percent are not up-to-date.

Children Given the following vaccine combinations:

| | | |
|--|--------------|-----|
| Patients with at least 4 valid doses in the Tetanus containing/Tdap vaccine series | 1 (50.00) | () |
| Patients with at least 3 valid doses in the Polio vaccine series | 1 (50.00) | () |
| Patients with at least 1 valid doses in the MMR/Measles vaccine series | 1 (50.00) | () |
| Patients with at least 3 valid doses in the Hib vaccine series | 1 (50.00) | () |
| Patients with at least 3 valid doses in the HEPB vaccine series | 2 (100.00) | () |
| Patients with at least 1 valid doses in the Varicella(CPOX) vaccine series | 2 (100.00) | () |
| Patients with at least 4 valid doses in the Pneumo vaccine series | 1 (50.00) | () |

2. Patients Not Properly Immunized Detail Report

This report shows a detail of patients who were not properly immunized. It lists each patient included in the analysis, their immunization record and reasons for invalid doses.



Immunization Rates - Patients Not Properly Immunized Detail

May 12, 2015

Provider = TRAINING PROVIDER TYPE 2 FOR PHYLLIS TRAINING ONLY, Clinic = TRAINING PROVIDER TYPE 2, DTaP/Tdap Series Count = 4, HepB Series Count = 3, Hib Series Count = 3, MMR Series Count = 1, PCV7 Series Count = 4, Polio Series Count = 3, Varicella Series Count = 1, Age Range = 19 - 35 (MONTHS) As Of 05/12/2015 - 05/12/2015, Exclude = Y, Count Valid And Invalid Doses = N

| | | | | | |
|---|-------------|--------------|-----------------------------------|-----------------------------|-------------------------|
| 3938049 | Test | JIMMY | DOB: 04/30/2013 | Remind: | Last: 01/04/2014 |
| 89 S NEW YORK LN DENVER, CO 80205 | | | (H): | (W): | |
| Primary Contact: DONALD Test | | | County: DENVER | Relationship: FATHER | |
| Mother: | | | Father: DONALD Test | Local ID: | |
| Default Clinic: TRAINING PROVIDER TYPE 2 | | | | | |

| Vaccination Group | Vaccination | Dose | Given On | Given At | Reason Invalid |
|--------------------|----------------------|------|------------|----------|----------------|
| Tetanus containing | DTaP (Daptacel) | 1 | 07/01/2013 | PR | |
| | DTaP (Daptacel) | 2 | 09/02/2013 | PR | |
| | DTaP (Daptacel) | 3 | 11/09/2013 | PR | |
| HEPB | Hep B, Ped/Adol | 1 | 04/30/2013 | PR | |
| | Hep B, Adol/High Ris | 2 | 07/02/2013 | PR | |
| | Hep B, Ped/Adol | 3 | 01/04/2014 | PR | |

| | |
|--|-----------------------------------|
| Precautions / Contraindications | History of Chicken Pox-07/09/2014 |
| Refusal Notes | |

One final note:

We recommend that before running the *Immunization Rates* report, you run a *Patient Roster* report which generates a current roster of patients by provider/clinic. This will allow you to identify patients that no longer seek healthcare services at your clinic. It is strongly recommended that you inactivate these patients from your clinic within CIIS before running any clinic-level reports. The *Patient Roster* report can also be accessed from the CIIS *Reports/Forms* module under the group of reports labeled *Patient Management*.

If you have questions, please contact the CIIS Help Desk at 1-888-611-9918 or CDPHE.CIIS@state.co.us.