

The AFIX Product

The Idaho Immunization Program conducts Assessment, Feedback, Incentives, and eXchange (AFIX) visits with at least 25% of enrolled providers each year. AFIX is a quality improvement program for enrolled health care providers. The goal of AFIX is to increase vaccination of children and adolescents with the Advisory Committee for Immunization Practices (ACIP) recommended vaccines by reducing missed opportunities to vaccinate and improving immunization delivery practices at the provider level.

One of the main components of the AFIX program is Assessment. Assessment involves generating data reports on the vaccination coverage levels of each provider and examining the effectiveness of a provider's immunization delivery practices.

The AFIX Product was developed to allow an Immunization Information System (IIS), such as Idaho's Immunization Reminder Information System (IRIS), to perform provider level immunization rate assessments.

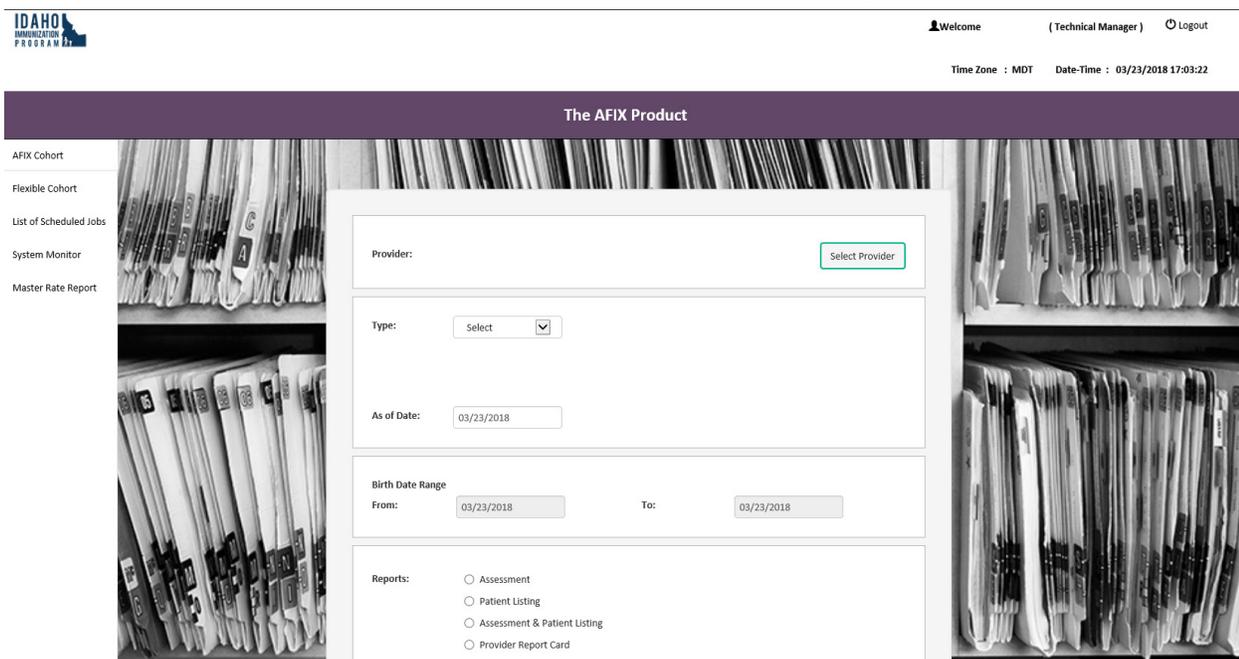
The following information will guide you through how to use The AFIX Product to run an immunization assessment for your organization and generate other available reports.

IRIS users with Admin User (Provider), Admin User (Public Health), Standard User, and Reports Only roles will have access to The AFIX Product in IRIS. To navigate to The AFIX Product from IRIS, after you log in to IRIS, go to the **Reports** section on the left-hand side of the screen and click the link for *afix product*.



The AFIX Product home page will open to the AFIX Cohort, which is the default landing page.

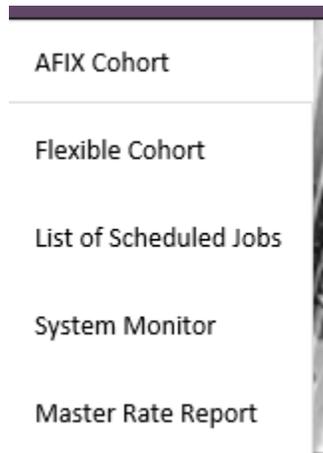
Figure: 1.1 The AFIX Product home page



The AFIX Product

The outline of the AFIX Cohort menu item will be highlighted to indicate the current selection from the menu panel as shown below:

Figure: 1.2 Left menu panel of The AFIX Product



AFIX Cohort

There are two separate AFIX cohort assessments: Childhood (24 through 35 months of age) and Adolescent (13 through 17 years of age). The assessment pages are constructed using specific rules pertaining to the different cohorts to determine the target birth date ranges and corresponding vaccine group measures.

Childhood Cohort Assessment and Missed Opportunities Report displays the coverage results for the childhood AFIX assessment measures for patients aged 24 through 35 months. The Up-to-Date (UTD) percentages for each measure are represented on the graph and presented in a table. The report also displays a separate table indicating the missed opportunities. A missed opportunity, based on the last immunization visit, is when a patient visits a provider for immunizations and receives at least one vaccine, but did not receive all the vaccines that were due at the time of that visit. The report also shows the numerator and denominator information assessed. Healthy People 2020 goals are indicated on the graph for comparative analysis and clinic goal setting.

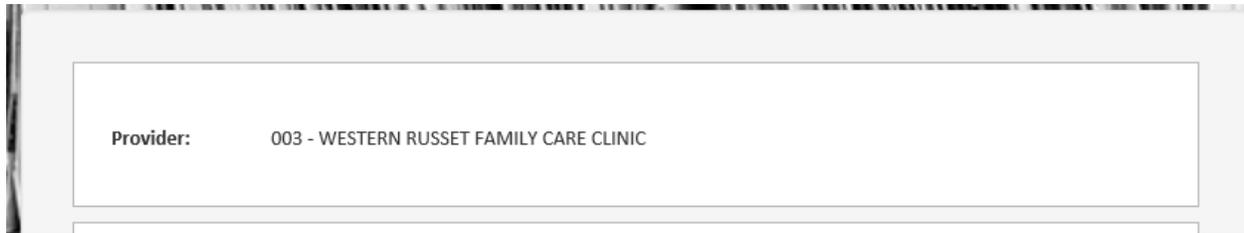
Adolescent Cohort Assessment and Missed Opportunities Report displays the coverage results for the childhood AFIX assessment measures for patients aged 13 through 17 years. The UTD percentages for each measure are represented on the graph and presented in a table. The report also displays a table indicating the missed opportunities. A missed opportunity, based on the last immunization visit, is when a patient visits a provider for immunizations and receives at least one vaccine, but did not receive all the vaccines that were due at the time of that visit. The report also shows the numerator and denominator information assessed. Healthy People 2020 goals are indicated on the graph for comparative analysis and clinic goal setting.

Provider:

The first step on the AFIX Cohort page is to select the organization for which the assessment will be performed. Most users will see a single IRIS organization listed after **Provider:** and you can proceed to fill in the rest of the criteria needed for the report ([skip to Type](#)). If you have access to more than one organization, the organization name will need to be filled in and then you can proceed to fill in the rest of the criteria.

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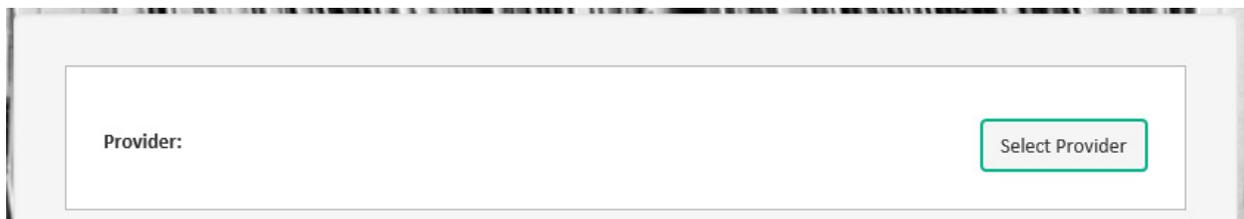
Figure: 1.3 Single Provider Access



Provider: 003 - WESTERN RUSSET FAMILY CARE CLINIC

If you are an authorized user with access to more than one organization, the *Select Provider* button will display on the top right of the screen. Click the button to navigate to the **Select Provider** search page.

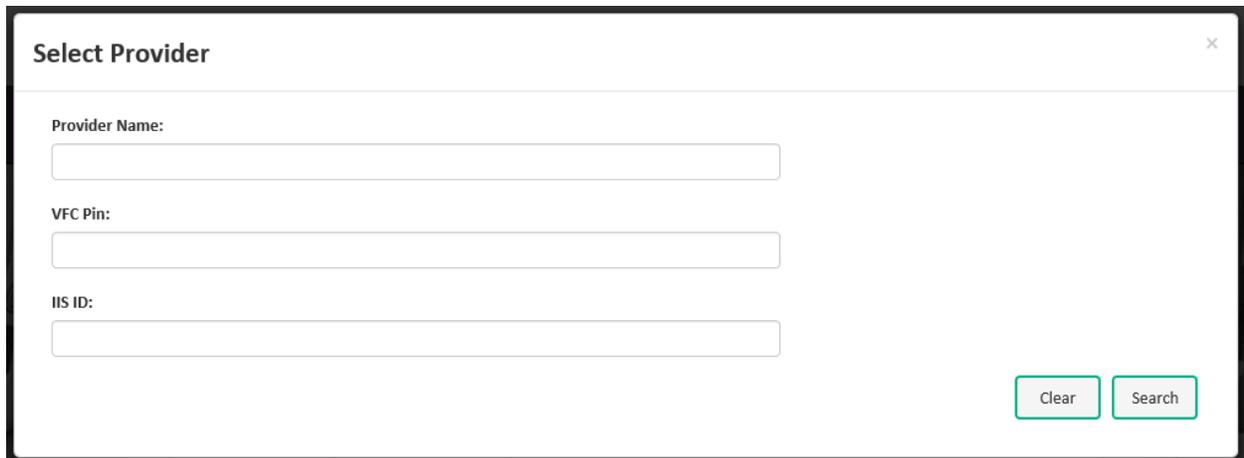
Figure: 1.4 Selecting a Provider



Provider: Select Provider

The **Select Provider** screen will open.

Figure: 1.5 Select Provider options



Select Provider ×

Provider Name:

VFC Pin:

IIS ID:

Clear Search

A provider search can be initiated using one of the following options:

- By entering the full or partial name your organization (provider name), or
- By entering your organization's VFC Pin number.

After entering search criteria, click the *Search* button.

Note: You may choose to *Clear* the screen to enter a different option for the search.

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Clicking the *Search* button will display a list of organizations that meet the criteria based on your user access.

The provider list will display the following columns:

- Provider Name
- Address, City, Zip
- County
- VFC Pin
- IIS ID
- Childhood Coverage %
- Adolescent Coverage %

If an organization has not participated in an AFIX visit with the IIP since the implementation of the AFIX Product, then the coverage rate values may be blank.

It is possible to sort the list based on the values for Provider Name; Address, City, Zip; County; VFC Pin number; IIS ID; and coverage percentages by clicking on the corresponding labels. You can also navigate using the *previous*, *page number*, and *next* buttons displayed on the bottom left of the window.

After an organization is found, click the corresponding radio button to the left of the page and click the *Select* button to return to the AFIX Cohort page where the selected organization and the Provider name field will be filled in on the page.

You also have the option to leave the Provider Selection page without selecting an organization by clicking the *Exit* button, which will return the user to the AFIX Cohort Page.

Figure: 1.6 Provider Selection

The screenshot shows a 'Select Provider' window with the following elements:

- 1** Provider Name: Western
- VFC Pin: (empty)
- IIS ID: (empty)
- 2** Search button
- 3** Table of providers with the first row selected:

Select	Provider Name ▲	Address, City, Zip	County	VFC Pin	IIS Id	Childhood Coverage %	Adolescent Coverage %
<input checked="" type="radio"/>	003 - WESTERN RUSSET FAMILY CARE CLINIC	450 W State Street BOISE 83702	Ada	003	1033		
<input type="radio"/>	Western Russet Mashed	450 W State Street 4th Fl BOISE 83702		9494B	1039		
<input type="radio"/>	Western Russet Scalloped	450 W State Street 4th Fl BOISE 83702		9494E	1043		
<input type="radio"/>	Western Russet Shredded	450 W State Street BOISE 83702		9494A	1037		

- 4** Select button
- Navigation buttons: Start, Previous, 1, Next, End

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Figure: 1.7 Selected Provider

Provider: 003 - WESTERN RUSSET FAMILY CARE CLINIC Select Provider

Type:

In the next section the *Type* of assessment is selected.

First, indicate the type of Assessment by selecting *Childhood* or *Adolescent* from the drop-down list.

The measures for the Childhood and Adolescent assessment are as follows:

Childhood Measures

4 DTaP
3 Polio
1 MMR
Hib UTD
Hep B UTD
1 VAR
PCV UTD
RV UTD
1 Flu
2 Hep A

4:3:1:3:3:1:4 Series*

*4 DTaP, 3 Polio, 1 MMR, 3 Hib, 3
Hep B, 1 Var, 4 PCV

Adolescent Measures

1 Flu
Hep A UTD
Hep B UTD
1 HPV
HPV UTD
MCV UTD
2 MMR
Polio UTD
1 Tdap
2 VAR

Figure: 1.8 Assessment Type Selection

Type: Select
Childhood
Adolescent

As of Date: 12/31/2017

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Upon selection of the *Type*, the specific assessment measures will be displayed to the right of the selection box. This will provide the corresponding age range and the vaccine group measures for the assessment.

Figure: 1.9 Childhood Assessment

Childhood Cohort Assessment Criteria		
Age Range : 24-35 Months		
4 DTaP	3 Polio	1 MMR
Hib UTD	HepB UTD	1 VAR
PCV UTD	RV UTD	1 Flu
2 HepA	4:3:1:3:3:1:4	

Figure: 1.10 Adolescent Assessment

Adolescent Cohort Assessment Criteria		
Age Range : 13-17 years		
1 Flu	HepA UTD	HepB UTD
1 HPV	HPV UTD	MCV UTD
2 MMR	Polio UTD	1 Tdap
2 VAR		

As of Date:

The next selection is the *As of Date*, which defaults to today's date. You may specify a different date by entering with the format mm/dd/yyyy, or by using the *As of Date Selection* calendar, which is viewable by clicking in the *As of Date* field.

Figure: 1.11 As of Date Selection

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Birth Date Range:

Based on the value selected for the *As of Date* field, the system will auto-populate the birth date range that falls within the appropriate age range for the selected Childhood or Adolescent assessment.

*Note: Birthdate range is not editable; if a change is needed for the auto populated dates the user must adjust the *As of Date* and or the *Assessment Type* to get the required range. The birth date range for the assessment cohort will be calculated based on the age of the cohort as of the specified date. The start of the birthdate range is determined by subtracting 'To' age + 1 (Month/Year) from the *As of Date* and advancing one day. The end date of the birthdate range is determined by subtracting the 'From' (Month/Year) age from the *As of Date*. Children that have come of age after the "As of Date" will be excluded from the assessment cohort.

Examples:

A Childhood Cohort Assessment (24-35 months) with an *As of Date* of 12/31/2013, will have a cohort birth date range between 01/01/2011 to 12/31/2011.

An Adolescent Cohort Assessment (13-17 Years) with an *As of Date* of 12/31/2014, will have a cohort birth date range between 01/01/1997 to 12/31/2001. Adolescents that have come of age after the *As of Date* will be excluded from the assessment cohort.

**Figure: 1.12 Auto populated Birth Date Range for Childhood Assessment
with an As of Date of 12/31/2017**

As of Date:	<input type="text" value="12/31/2017"/>	PCV UTD	RV UTD	1 Flu
		2 HepA	4:3:1:3:3:1:4	
Birth Date Range				
From:	<input type="text" value="01/01/2015"/>	To:	<input type="text" value="12/31/2015"/>	

Reports:

The final step in creating the assessment is to choose the reports requested for the AFIX Cohort.

The four available options are:

- Assessment
- Patient Listing
- Assessment and Patient Listing
- Provider Report Card

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Figure: 1.13 Reports Selection

Reports:

- Assessment
- Patient Listing
- Assessment & Patient Listing
- Provider Report Card

Assessment: generates a report with the specified immunization assessment criteria (see example, Appendix A). For childhood assessments, the patient compliance with the specified AFIX measurements is assessed at 24 months (2nd birthday).

For adolescent assessments, the patient compliance with the specified measurements is assessed on the date of assessment.

The assessment report will represent, in both graphical and tabular format, the coverage percentages for the selected organization. Additional details indicating the numerator and denominator for each measure will also be provided in the report.

Missed opportunities are also generated. For the AFIX assessment, missed opportunities are calculated based on the last immunization visit. A missed opportunity is identified as a vaccination that was due at the time of the last immunization visit but was not administered by the organization with other immunizations that were due.

Patient Listing: generates a report that lists the patients assessed. The report will provide information on whether the patients listed were considered up-to-date for the measures assessed for the specific childhood or adolescent cohort measures (Y or N) (see example, Appendix B).

Assessment and Patient Listing: generates both the *Assessment* and *Patient Listing* reports listed above.

Provider Report Card: generates an immunization rate report for the organization. Both Idaho National Immunization Survey (NIS) rates and Healthy People 2020 immunization goals are also listed (see example, Appendix C).

Select the radio button to the left of either the Assessment, Patient Listing, Assessment and Patient Listing, or Provider Report Card.

When all the required criteria have been entered, click *Submit*.

Figure: 1.14 Submission of Selected Report Criteria

Reports:

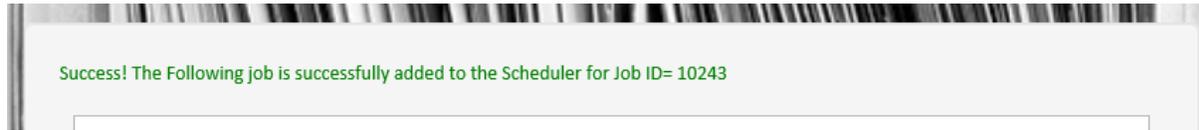
- Assessment
- Patient Listing
- Assessment & Patient Listing
- Provider Report Card

Clear Submit

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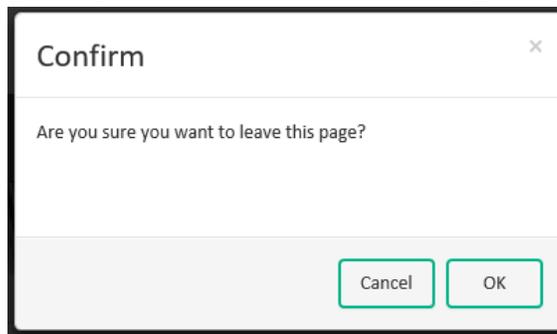
After the *Submit* button is clicked, a message will display at the top of the page to indicate that the job has been scheduled successfully, displaying the Job ID number associated with the scheduled job.

Figure: 1.15 Job Submitted Successfully



At any time during the criteria selection process if you proceed to navigate out of the page, you will be prompted with a warning message prompting you to confirm your departure from the page. You can continue to make the selections by clicking *OK* or choose *Cancel* to navigate away from the page.

Figure: 1.16 Confirmation Message

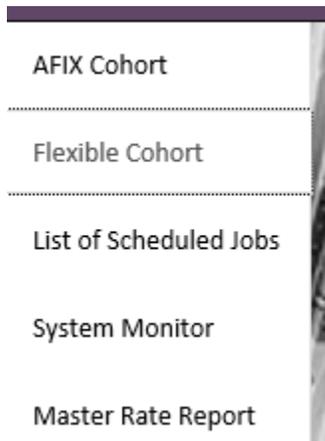


Flexible Cohort

In addition to the age specific childhood and adolescent assessments on the **AFIX Cohort** page, The AFIX Product also provides a custom assessment by using the **Flexible Cohort** page.

To schedule a Flexible Cohort assessment, click the *Flexible Cohort* from the left menu tab.

Figure: 2.1 Left tab menu options

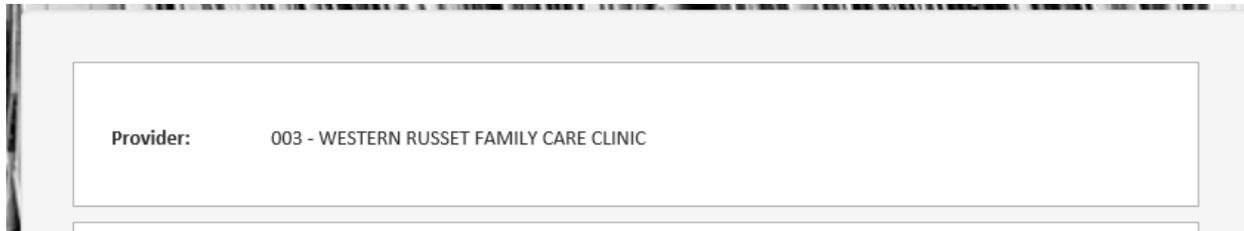


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Provider:

The first step on the Flexible Cohort page is to select the organization for which the assessment will be performed. Most users will see a single IRIS organization listed after **Provider:** and you can proceed to fill in the rest of the criteria needed for the report ([skip to As of Date below](#)). If you have access to more than one organization, the organization name will need to be filled in and then you can proceed to fill in the rest of the criteria.

Figure: 2.2 Single Provider Access



A screenshot of the AFIX interface showing a form with a label "Provider:" followed by the text "003 - WESTERN RUSSET FAMILY CARE CLINIC". The text is contained within a light gray rectangular box.

If you are an authorized user with multiple organizations, the *Select Provider* button will display on the top right of the screen. Click the button to navigate to the **Select Provider** search page.

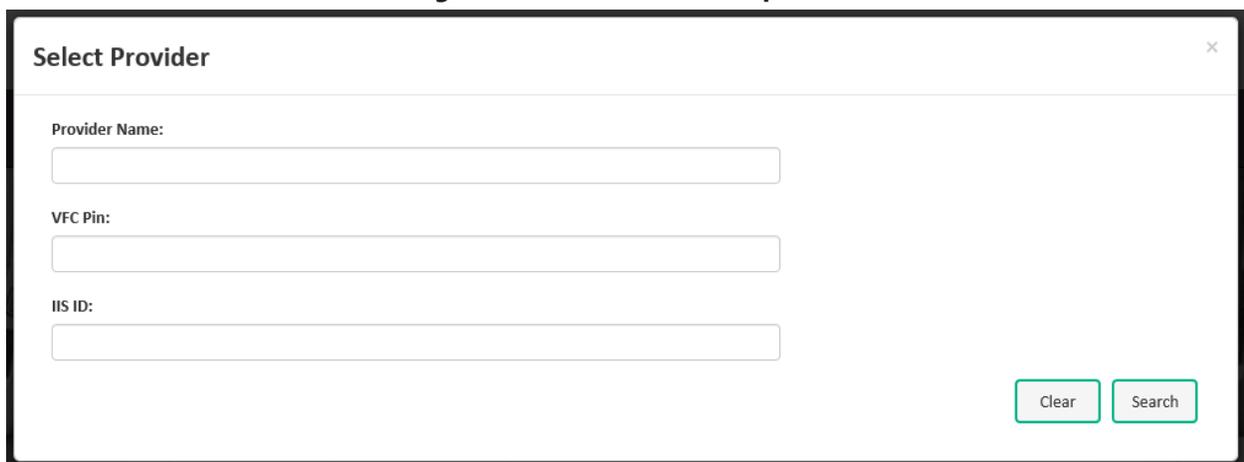
Figure: 2.3 Selecting a Provider



A screenshot of the AFIX interface showing a form with a label "Provider:" on the left and a button labeled "Select Provider" on the right. The button is highlighted with a green border.

The **Select Provider** screen will open.

Figure: 2.4 Select Provider options



A screenshot of the "Select Provider" search screen. The screen has a title bar with "Select Provider" and a close button (X). Below the title bar, there are three input fields labeled "Provider Name:", "VFC Pin:", and "IIS ID:". At the bottom right, there are two buttons: "Clear" and "Search".

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A provider search can be initiated using one of the following options:

- By entering the full or partial name of your organization (provider name), or
- By entering your organization's VFC Pin number.

After entering search criteria, click the *Search* button.

Note: You may choose to *Clear* the screen to enter a different option for the search.

Clicking the *Search* button will display a list of organizations that meet the criteria based on your user access.

The provider list will display the following columns:

- Provider Name
- Address, City, Zip
- County
- VFC Pin
- IIS ID
- Childhood Coverage %
- Adolescent Coverage %

If an organization has not participated in an AFIX visit with the IIP since the implementation of the AFIX Product, then the coverage rate values may be blank.

It is possible to sort the list based on the values for Provider Name; Address, City, Zip; County; VFC Pin number; IIS ID; and coverage percentages by clicking on the corresponding labels. You can also navigate using the *previous*, *page number*, and *next* buttons displayed on the bottom left of the window.

After an organization is found, click the corresponding radio button to the left of the page and click the *Select* button to return to the AFIX Cohort page where the selected organization and the Provider name field will be filled in on the page.

You also have the option to leave the Provider Selection page without selecting an organization by clicking the *Exit* button, which will return the user to the AFIX Cohort Page.

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Figure: 2.5 Provider Selection

Select Provider

1
Provider Name: Western

VFC Pin:

IIS ID:

2
Clear Search

Select	Provider Name ▲	Address, City, Zip	County	VFC Pin	IIS Id	Childhood Coverage %	Adolescent Coverage %
<input checked="" type="radio"/>	003 - WESTERN RUSSET FAMILY CARE CLINIC	450 W State Street BOISE 83702	Ada	003	1033		
<input type="radio"/>	Western Russet Mashed	450 W State Street 4th Fl BOISE 83702		9494B	1039		
<input type="radio"/>	Western Russet Scalloped	450 W State Street 4th Fl BOISE 83702		9494E	1043		
<input type="radio"/>	Western Russet Shredded	450 W State Street BOISE 83702		9494A	1037		

3

4
Exit Select

Start Previous 1 Next End

Figure: 2.6 Selected Provider

Provider: 003 - WESTERN RUSSET FAMILY CARE CLINIC

Select Provider

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As of Date:

The *As of Date* determines the age range parameters for the selection of the cohort for assessment.

The default display for the date will be the current date. Enter the assessment date in the field, either by typing or by using the calendar option.

Figure: 2.7 Selecting the As of Date

The screenshot shows a web interface with the following elements:

- As of Date:** A text input field containing "12/31/2017".
- Birth Date Range:** A section with a "From:" label.
- Reports:** A section with a "Reports:" label.
- Calendar:** A calendar for December 2017. The date 31 is highlighted with a green border. The calendar includes navigation arrows, a title "December 2017", and a table of dates.
- Buttons:** "Today", "Clear", and "Close" buttons are located at the bottom of the calendar.

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
48	27	28	29	30	01	02	03
49	04	05	06	07	08	09	10
50	11	12	13	14	15	16	17
51	18	19	20	21	22	23	24
52	25	26	27	28	29	30	31
1	01	02	03	04	05	06	07

Based on the value selected for the *As of Date*, the system will auto-populate the birth date range that falls within the age range for the selected cohort assessment.

Age Range and Birth Date Range:

Proceed to select the age range to be assessed. Age range input boxes accept only numeric characters, with the exception of zero (0). Continue the selection using the drop down to indicate Months or Years. Based on the value selected for the *As of Date* field, the system will auto-populate the birth date range.

*Note: Birthdate range is non-editable; if a change is needed for the auto-populated dates the user must adjust the *As of Date*. The start date of the birthdate range is determined by subtracting 'To' age + 1 (Month/Year) from the *As of Date* and advancing one day. The end date of the birthdate range is determined by subtracting the 'From' age (Month/Year) from the *As of Date*. If the *As of Date* is 05/31/2017 and the 'From' = 16 Years, 'To' = 18 Years - the birthdate range for the selected cohort is: 06/01/1998 – 05/31/2001.

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Figure: 2.8 Selecting the Age Range

As of Date: 12/31/2017

Age Range

From: 4 To: 6 Years

Vaccine Group Selection: Select Dose Count: +

Vaccine Group	Dose Count
---------------	------------

Birth Date Range

From: 01/01/2011 To: 12/31/2013

In The AFIX Product all date fields will reflect the server time on the Job List which will impact the *As of Date*. For example, the IRIS server time is in the Eastern time zone and the user is in Mountain time zone. If the user creates a job at 22:30 hours, then the *As of Date* on the database will be one day later than the date showing on the screen.

Vaccine Group Selection and Dose Count:

Currently, the **Flexible Cohort** page allows the selection of a vaccine group from the following:

Adeno	H5N1 Flu	Mening	Tdap
Anthrax	Hib	Mening B	Typhoid
BCG	HPV	MMR	Td
Cholera	Hep E	Polio	Vaccinia
DTaP	Hep A	Plague	Varicella
Encephalitis	Hep B	Pneumo PCV	VEE
Flu	Hep C	Pneumo PPV	Yellow Fever
H1N1 Flu	Japanese	Rabies	Zoster
H1N1 Flu	Lyme disease	Rotavirus	

Select the vaccine group from the drop-down box, enter the corresponding dose number needed for the assessment, and click the '+' sign to add the selected vaccine to the list. To add multiple vaccine group selections, repeat the vaccine group, dose count selection and click the '+' sign.

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Figure: 2.9 Selecting the Vaccine Groups

Vaccine Group Selection: VARICELLA (dropdown) Dose Count: 2 (+)

Vaccine Group	Dose Count	
POLIO	4	 
DTAP	4	 
MMR	2	 

If you need to remove a vaccine from the Vaccine Group, then click the “X” at the end of the line. If you need to change the Dose Count, then click the pencil at the end of the line to edit. When the edit screen opens, enter the correct dose count and click *Save*.

Figure: 2.9 Editing the Vaccine Groups

Vaccine Group	Dose Count	
POLIO	4	 
<input type="text" value="DTAP"/>	<input type="text" value="5"/>	 
MMR	2	 

Reports:

You have the flexibility to run the Assessment, Patient Listing, or Assessment and Patient Listing (see AFIX Cohort section for report details). The Provider Report Card is not yet available with the Flexible Cohort.

Figure: 2.10 Selecting the report

Reports:

- Assessment
- Patient Listing
- Assessment & Patient Listing

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Select the radio button to the left of either the Assessment, Patient Listing, or Assessment and Patient Listing. When all the required criteria have been entered, click *Submit*.

Figure: 2.11 Scheduling the job

Reports:

- Assessment
- Patient Listing
- Assessment & Patient Listing

Clear Submit

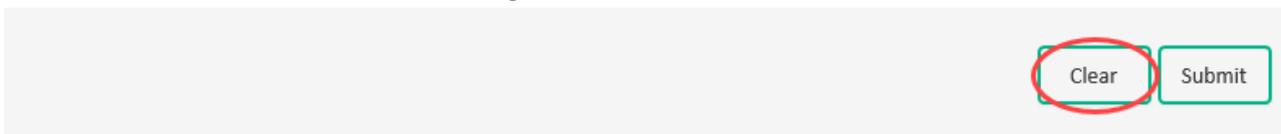
After the *Submit* button is clicked, a message will display at the top of the page to indicate that the job has been scheduled successfully, displaying the Job ID number associated with the scheduled job.

Figure: 2.12 Job Submitted Successfully



If you choose to change the previous selections or run a new assessment, then you must click the *Clear* button to specify a new set of criteria.

Figure: 2.13 Clear Button

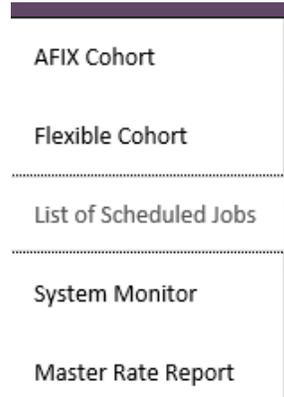


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List of Scheduled Jobs

The **List of Scheduled Jobs** displays a listing of all jobs submitted by users from both the AFIX and Flexible Cohort pages. The selected tab is highlighted to indicate that this is currently the active section of The AFIX Product.

Figure: 3.1 List of Scheduled Jobs



The default display is for jobs submitted within a month, but the functionality exists on the page to search jobs by providing date ranges.

Figure: 3.2 List of Scheduled Jobs Display Page

The screenshot shows a web interface with a search filter at the top: 'Jobs Submitted Between: 07/31/2018 Through: 08/30/2018' and a 'Search' button. Below the filter is a table with the following data:

Job ID	User ID	Provider	Submitted On	As of date	Job Type	Report Type	Status	Reports
11478	12631	003 - WESTERN RUSSET FAMILY CARE CLINIC	08/30/2018	07/31/2018	Flexible	Assessment & Patient Listing	Ready For Download	Select <input type="checkbox"/>
11477	12631	003 - WESTERN RUSSET FAMILY CARE CLINIC	08/30/2018	07/31/2018	Childhood	Provider Report Card	Ready For Download	Select <input type="checkbox"/>
11476	12631	003 - WESTERN RUSSET FAMILY CARE CLINIC	08/30/2018	07/31/2018	Childhood	Provider Report Card	Ready For Download	Select <input type="checkbox"/>

The page displays the following job details:

- **Job ID:** ID created when the job was submitted.
- **User ID:** The login ID of the person who submitted the job.
- **Provider:** The name of the organization that is being assessed.
- **Submitted On:** The date of job submission.
- **As of Date:** The date that determines the cohort birth date range.
- **Job Type:** Childhood/Adolescent/Flexible.
- **Report Type:** Assessment/Patient Listing/Assessment and Patient Listing/Provider Report Card (for AFIX Cohort).
- **Status**
 - *Job Scheduled:* The job is submitted by user and is waiting for processing to begin.

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- *In-Progress:* The file is received, and the job is in process to generate reports.
- *Error:* A job failed. Please contact the IRIS Help desk at IRIS@dhw.idaho.gov with the Job ID to report a job status error.
- *Ready for Download:* The job has completed successfully, and the reports are available for viewing/downloading.
- *No Record Received:* An existing organization or a new organization has no patients available for a given birth date range. The extract process completed, but either no file is placed in the designated folder or a Zero Byte size file is placed in designated folder.
- *IIS Extract Error:* A job failed. Please contact the IRIS Help desk at IRIS@dhw.idaho.gov with the Job ID to report a job status error.

- **Reports**

- Assessment information may be displayed/downloaded in two forms: either a .pdf or an Excel spreadsheet.

Figure: 3.2 Reports Ready for Download

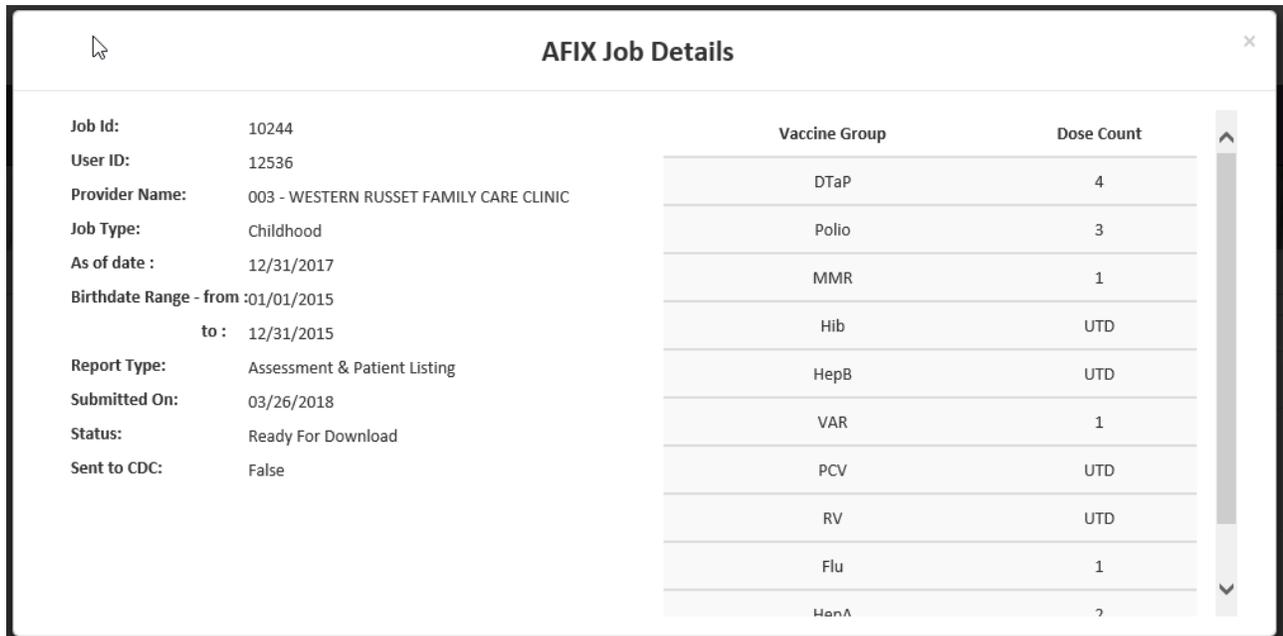
Job ID	User ID	Provider	Submitted On	As of Date	Job Type	Report Type	Status	Actions
10244	12536	003 - WESTERN RUSSET FAMILY CARE CLINIC	03/26/2018	12/31/2017	Childhood	Assessment & Patient Listing	Ready For Download	<div style="border: 1px solid red; padding: 2px;">Select Assessment PDF Assessment XLS XML Report Patient Listing PDF Patient Listing XLS</div> Send

The jobs listing page can be sorted by the Job ID, User, Provider, Submitted On, As of Date, Job Type, Report Type, and Sent to CDC columns. As the column labels are clicked, the sort order is represented with an up/down arrow to indicate the ascending/descending sort order.

Additional information is available on a pop-up window by clicking the Job ID. The pop-up displays the Job ID, User ID, Provider Name, Job Type, As of Date, Birth date Range (From and To), Report Type, Submitted On, Status, and Sent to CDC information along with the vaccine group measures associated with the scheduled Assessment.

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Figure: 3.3 Job details pop up display



AFIX Job Details	
Job Id:	10244
User ID:	12536
Provider Name:	003 - WESTERN RUSSET FAMILY CARE CLINIC
Job Type:	Childhood
As of date :	12/31/2017
Birthdate Range - from :	01/01/2015
to :	12/31/2015
Report Type:	Assessment & Patient Listing
Submitted On:	03/26/2018
Status:	Ready For Download
Sent to CDC:	False
Vaccine Group	Dose Count
DTaP	4
Polio	3
MMR	1
Hib	UTD
HepB	UTD
VAR	1
PCV	UTD
RV	UTD
Flu	1
HepA	?

Technical Assistance:

For assistance with The AFIX Product contact the Idaho Immunization Program at (208) 334-5931 or IIP@dhw.idaho.gov.

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Appendix

Glossary and Acronyms:

4:3:1:3:3:1:4: Primary vaccination series for children, comprised of 4 DTaP, 3 Polio, 1 MMR, 3 Hib, 3 Hep B, 1 VAR and 4 PCV. For AFIX coverage purposes, Up to Date logic will be applied to the component measures of Hib, Hep B and PCV where a variable number of doses can be applied to achieve protection based on date of first dose and/or vaccine product licensures.

AFIX: Assessment, Feedback, Incentive, and eXchange is a quality improvement program for health care providers enrolled with the federal VFC program. The goal of AFIX is to increase vaccination of children and adolescents with the Advisory Committee for Immunization Practices (ACIP) recommended vaccines by reducing missed opportunities to vaccinate and improving immunization delivery practices at the provider level.

As of Date: Determines the birthdate age ranges for the cohorts. Individuals who have come of age after the As of Date will be excluded from the report.

CDC: Centers for Disease Control and Prevention

Cohort: Part of the population within a jurisdiction or an active patient to a provider/facility/organization.

HP2020: Healthy People 2020 is a set of science-based public health goals established by the U.S. Department of Health and Human Services.

IIS ID: Immunization Information System Organization Number

Missed Opportunity: A missed opportunity is when a patient visits a provider for services and is due for one or more vaccinations and did not receive all the vaccines that were currently due at the time of that visit.

NIS: National Immunization Survey

VFC: Vaccines for Children Program

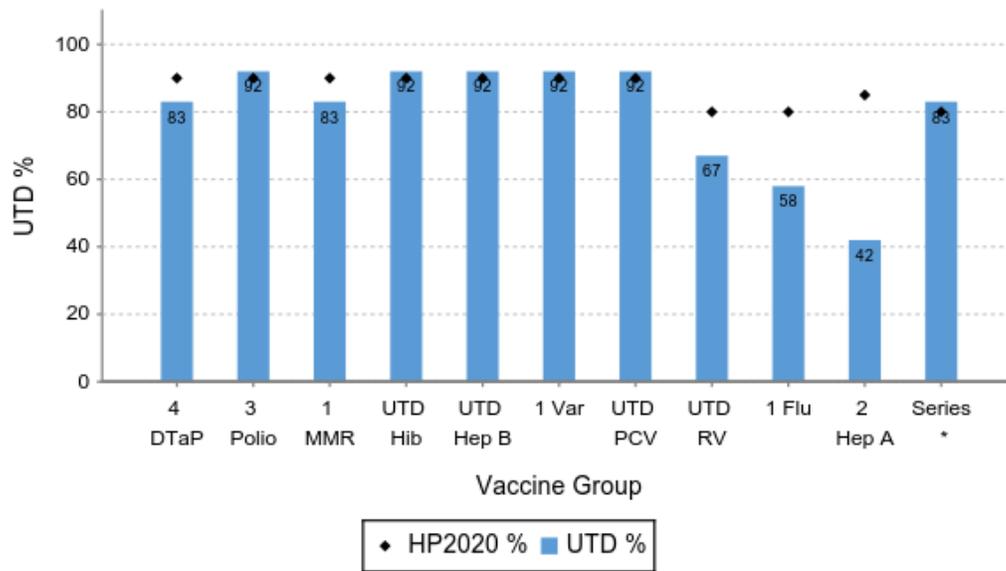
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APPENDIX A: Childhood Cohort Assessment and Missed Opportunities Report



Childhood Cohort Assessment and Missed Opportunities Report

Report Run Date: 03/26/2018 Job ID: 10244
 VFC PIN: 003 As of Date: 12/31/2017
 Provider Name: 003 - WESTERN RUSSET FAMILY CARE CLINIC Age Range: 24 - 35 Months
 Number of Active Clients: 12 Birth Date Range: 01/01/2015 - 12/31/2015



Vaccine Group	4 DTaP	3 Polio	1 MMR	Hib**	HepB**	1 Var	PCV**	RV**	1 Flu	2 HepA	4:3:1:3:3:1:4**
UTD %	83%	92%	83%	92%	92%	92%	92%	67%	58%	42%	83%
UTD Numerator	10	11	10	11	11	11	11	8	7	5	10
HP 2020 %	90%	90%	90%	90%	90%	90%	90%	80%	80%	85%	80%

Vaccine Group	4 DTaP	3 Polio	1 MMR	Hib**	HepB**	1 Var	PCV**	RV**	1 Flu	2 HepA	4:3:1:3:3:1:4**
Missed Opps %	0%	0%	0%	0%	8%	0%	8%	0%	0%	0%	2%
Missed Opps Numerator	0	0	0	0	1	0	1	0	0	0	2

* Series 4:3:1:3:3:1:4



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APPENDIX B: Childhood Cohort Patient Listing Report



Childhood Cohort Assessment Patient Listing

Report Run Date: 03/26/2018 Job ID: 10244
VFC PIN: 003 As of Date: 12/31/2017
Provider Name: 003 - WESTERN RUSSET FAMILY CARE CLINIC Age Range: 24 - 35 Months
Number of Active Clients: 1 Birth Date Range: 01/01/2015 - 12/31/2015

Last Name	First Name	Date Of Birth	IIS Patient ID	Chart #	UTD
TEST	OTHER	08/16/2015	1203333		N

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APPENDIX C: Childhood Provider Report Card with NIS



Provider Report Card for Childhood Immunization

This report was run on 03/23/2018 for 003 - WESTERN RUSSET FAMILY CARE CLINIC

The assessment was done for children with age range of 24 - 35 Months (born between 01/01/2015 and 12/31/2015). The compliance of these children were validated as of 12/31/2017. There are 12 children assessed.

Childhood Immunization Coverage Rates

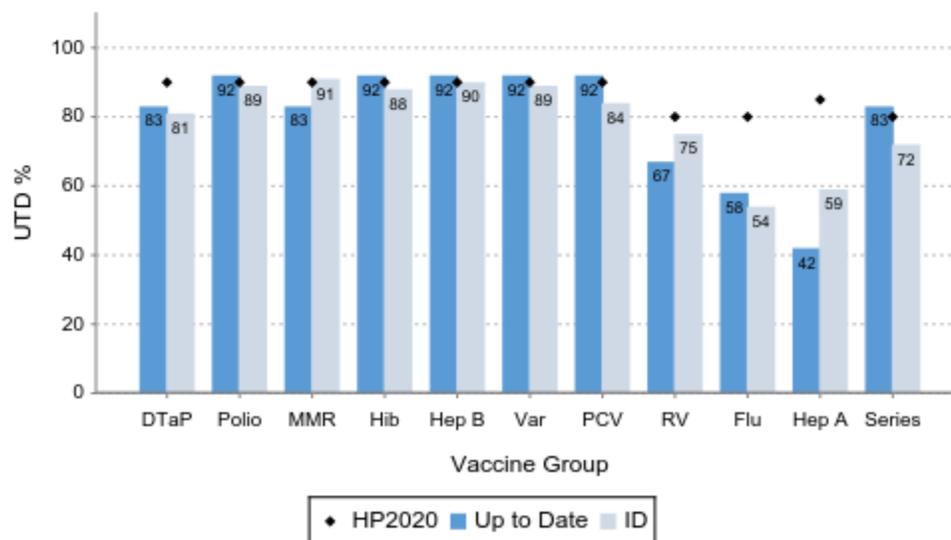
Vaccine Group	Up to Date #	Up to Date	ID	HP 2020 [^]	Recommended Doses
DTaP	10	83%	81%	90%	4 or more doses of diphtheria, tetanus and pertussis vaccine
Polio	11	92%	89%	90%	3 or more doses of poliovirus vaccine
MMR	10	83%	91%	90%	1 or more doses of measles, mumps and rubella vaccine
Hib	11	92%	88%	90%	2, 3, 4 or more doses of haemophilus influenzae type b conjugate vaccine depending on product type and age at first dose. UTD*
Hep B	11	92%	90%	90%	3 or more doses of hepatitis B vaccine. UTD*
Var	11	92%	89%	90%	1 or more doses of varicella vaccine
PCV	11	92%	84%	90%	2, 3, 4 or more doses of pneumococcal conjugate vaccine, based on age at first dose. UTD*
RV	8	67%	75%	80%	2 or 3 or more doses of rotavirus vaccine, depending on product type received. UTD*
Flu	7	58%	54%	80%	1 dose of flu vaccine for the most recently completed flu season**
Hep A	5	42%	59%	85%	2 or more doses of hepatitis A vaccine
4:3:1:3:3:1:4 Series***	10	83%	72%	80%	4 or more doses of DTaP, 3 or more doses of poliovirus vaccine, 1 or more doses of any MMR, primary series Hib (≥2 or ≥3 doses of Haemophilus influenzae type b vaccine depending on product type received), 3 or more doses of HepB, 1 or more doses of varicella vaccine, and 4 or more doses of PCV

[^]Healthy People 2020 is a set of science-based public health goals established by the U.S. Department of Health and Human Services.

*UTD refers to vaccine measurements where a variable number of doses can be applied to achieve protection based on patient age, date of first dose, and/or vaccine product nuances.

**AFIX defines flu season as July 1 through June 30 and coverage calculations are based on the most recently completed flu season.

***Series rates are often lower than single antigen rates because this is a measure of the number of children who received all doses of the included antigens. It is not an average of the single antigen rates.



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