



# THE AFIX PRODUCT

## TRAINING MANUAL

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## THE AFIX PRODUCT – End User Training Handout

The AFIX Product has been developed to allow an Immunization Information System (IIS) to perform provider level assessments. These assessments are a key part of the AFIX Program, a CDC initiative that aims to provide continuous quality improvement measures to help providers strive for and achieve higher immunization rates and improve their immunization practices.

This training document will provide a complete walk through on how to run an assessment for a specific organization, how to generate the different reports and trouble shoot any issues.

The major components of The AFIX Product are:

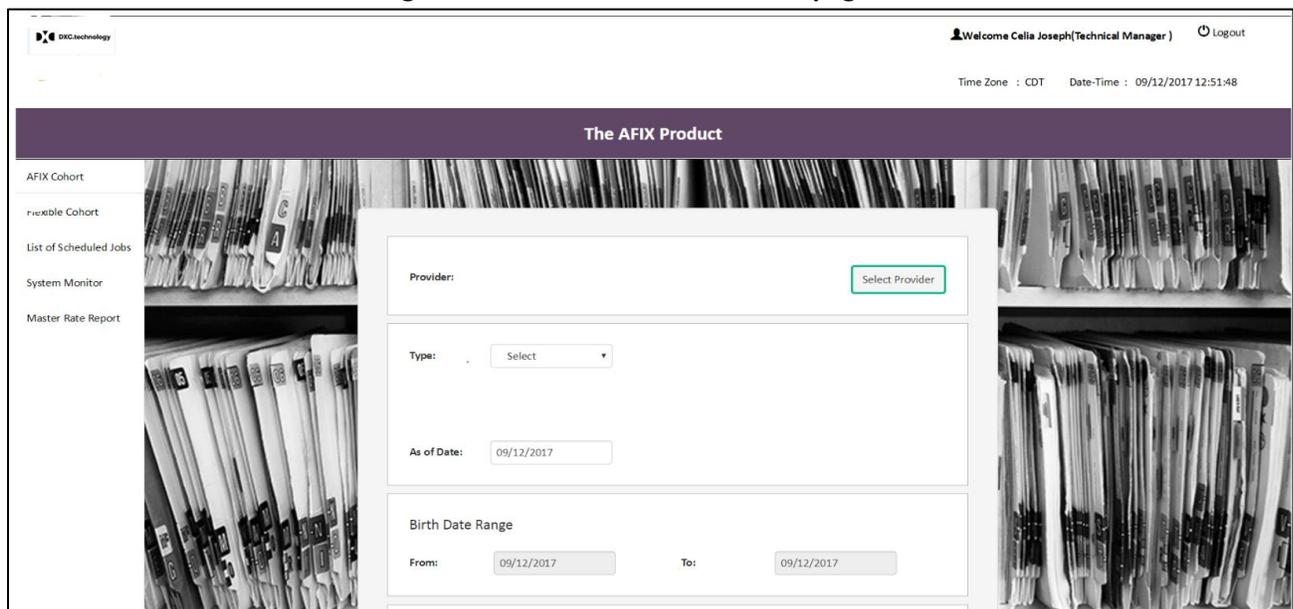
- AFIX Cohort
- Flexible Cohort
- List of Scheduled Jobs
- System Monitor
- Master Rate Report

Users will be assigned either the Provider role or the AFIX coordinator role. The role assigned in AFIX is defined by the NYSIIS role each user has been given. Users with Standard and Admin User (Provider) role will be assigned the Provider role in AFIX, and Local Health Department staff with Admin User (Public Health) role will be assigned the AFIX Coordinator role in AFIX.

To navigate to The AFIX Product from NYSIIS, go to the Reports section on the left side menu panel and click the link for 'AFIX product'.

**NOTE:** The AFIX Product should open in a new window when clicked.

**Figure: 1.1 The AFIX Product home page**

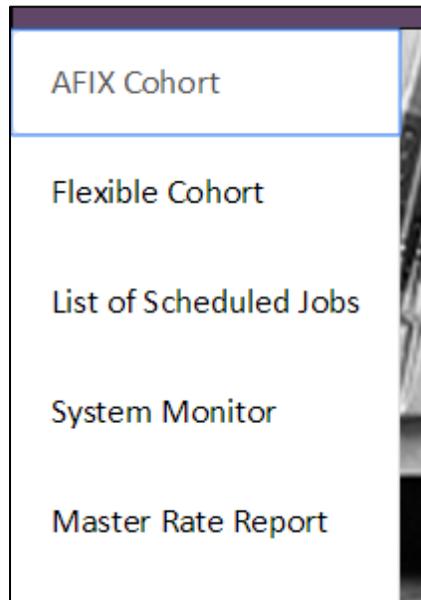


## AFIX Cohort

There are two separate AFIX Cohort assessments: Childhood and Adolescent. 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.

The default landing page is the AFIX Cohort page. 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**



### Provider Selection:

Your access to Providers is based on your specific roles as defined by NYSIIS.

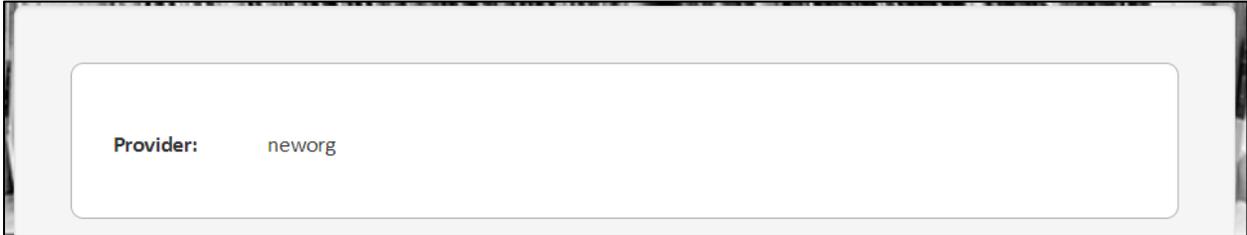
If you have access to an independent or child organization in NYSIIS, the organization name will be filled in and you can proceed to fill in the rest of the criteria needed for the AFIX reports.

If you have access to a parent organization in NYSIIS, then you will see the Select Provider button and you will be able to choose to access either the parent organization or any of the child organizations when you access The AFIX product.

Local Health Department (LHD) staff will have the AFIX Coordinator role in The AFIX Product and will have access to all providers within NYSIIS.

**Figure: 1.3 Single Provider Access**

Below is the default provider view that you will see in AFIX when you have access to an independent or child organization in NYSIIS



Below is the default provider view that users will see in AFIX when they have access to the 'Parent' in a Parent/Child organization in NYSIIS. 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 with Access to Parent Organization**



**Figure 1.5 Selecting a Provider as a LHD**

Below is the default view that users will see in AFIX when assigned the AFIX Coordinator role in NYSIIS. This role is given to LHD staff. LHD staff can run reports on their own organization or they can access any other provider organization within NYSIIS. The 'Select Provider' button will display on the top right of the screen. Click the button to navigate to the Select Provider search page.



After clicking the “Select Provider” button, you will be navigated to the provider selection screen.



The screenshot shows a web form titled "Select Provider" with a close button in the top right corner. The form contains three input fields: "Provider Name:", "VFC Pin:", and "IIS ID:". At the bottom right of the form, there are two buttons: "Clear" and "Search".

Provider Search can be initiated using one of the following options:

- By entering full or partial name of the provider.
- By entering the provider’s unique VFC PIN.
- By entering the provider organization’s unique IIS ID. This is also called the NYSIIS Org ID.

Upon selection and entry of a search criteria, click the ‘Search’ button.

You may choose to ‘Clear’ the screen to enter a different option for the search.

Clicking the ‘Search’ button will display a list of providers that met the criteria based on existing authorizations/restrictions.

The provider list will display the following information:

- Provider Name
- Address, City, Zip
- County
- VFC Pin
- IIS ID,
- Childhood Coverage %
- Adolescent Coverage %  
(Latest available coverage percentages for the provider)

If a provider organization has not yet initiated an assessment, the coverage rates values will 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.

**Figure 1.6 Provider Selection**

Select	Provider Name	Address, City, Zip	County	VFC Pin	IIS Id	Childhood Coverage %	Adolescent Coverage %
<input checked="" type="radio"/>	Parent1 member of RHIO	456 nowhere SOMEWHERE 12345		0		29	100
<input type="radio"/>	child2 of RHIO Partner1	long way HOME 98745		0		0	100
<input type="radio"/>	child1 of RHIO Partner1	however HOOVER 78944		0		0	-1

After a provider is found, click the corresponding radio button to the left of the page and click ‘Select’ button to return to the AFIX Cohort page with the selected provider and the Provider name field will be filled in on the page.

You also have the option to leave the Provider Selection page without making a selection by clicking the ‘Exit’ button, which will return the user back to the AFIX Cohort Page without a provider selection.

**Figure: 1.7 Selected Provider**

**Provider:** Winchester Clinic - South Select Provider

**Assessment Selection:**

The next section is where you will indicate the ‘Type’ and ‘As of Date’ for the Assessment.

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

The measures for the Childhood and Adolescent 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

**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:  (dropdown menu with options: Select, Childhood, Adolescent)

As of Date:

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**

Type:  (dropdown menu)

As of Date:

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**

Type:  (dropdown menu)

As of Date:

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		

Next, select the As of Date. The default date is the current date. You may specify a different date by entering the date, formatted as mm/dd/yyyy, or by selecting the date using the calendar.

**Figure: 1.11 As of Date Selection**

The screenshot shows a web form with the following elements:

- As of Date:** A text input field containing "02/22/2017".
- Polio UTD:** A label positioned to the right of the "As of Date" field.
- Birth Date Range:** A label positioned to the left of the calendar pop-up.
- From:** A label positioned to the left of the calendar pop-up.
- Reports:** A label positioned to the left of the calendar pop-up.
- Calendar Pop-up:** A calendar for February 2017. The date 02/22/2017 is highlighted with a green border. The calendar includes navigation arrows, a header "February 2017", and a grid of days from Monday to Sunday. At the bottom of the calendar are three buttons: "Today", "Clear", and "Close".

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 assessments, Childhood or Adolescent.

\*Note: Birthdate range is non-editable, if a change is needed for the auto populated dates the user has to 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**



Birth Date Range

From: 01/01/1997 To: 12/31/2001

## Reports:

The final step in creating the assessment is to choose the output required for the Assessment.

The available options are:

- Assessment
- Patient Listing
- Provider Report Card
- Invalid Doses (excluding Rotavirus)
- Missed Opportunities (excluding Rotavirus)
- Missed Immunizations (excluding Rotavirus)

**Figure: 1.13 Reports Selection**



Reports:

- Assessment
- Patient Listing
- Provider Report Card
- Invalid Doses (excluding Rotavirus)
- Missed Opportunities (excluding Rotavirus)
- Missing Immunizations (excluding Rotavirus)

## Assessment

This option will create a report based on the specified assessment criteria requested.

For childhood assessments, the patient compliance with the specified AFIX measurements is assessed at 24 months/2<sup>nd</sup> birthday.

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

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

### Patient Listing

The Patient Listing option will create a report listing of the patients assessed. It will provide specific information on whether the patients listed were considered up to date for the specific childhood or adolescent cohort measures.

### Provider Report Card

The Provider Report Card will generate a report card for the provider. It includes a column for the provider's vaccine coverage rates and well as NYS rates that can be used for comparison.

### Invalid Doses

The Invalid Doses option will create a report listing of the patients assessed and the antigen(s) for which the dose(s) were considered invalid. This report can only be generated for a single provider at a time and will include both administered and historical immunizations.

**\*\*Note: Invalid doses will only display in the report results if the patient is NOT UTD on the As of Date for the selected report criteria. Invalid Doses Report will only track not UTD even if there is an invalid dose in the series for the patient that is UTD.**

### Missed Opportunities

The Missed Opportunities Report will create a report listing of the patients assessed and the antigen(s) for which the dose(s) were considered missed as of the date a last vaccine was administered. This report can only be generated for a single provider at a time and will include both administered and historical immunizations

A missed opportunity is defined as a vaccine that could have been administered at the same time of the last immunization date.

### Missing Immunizations

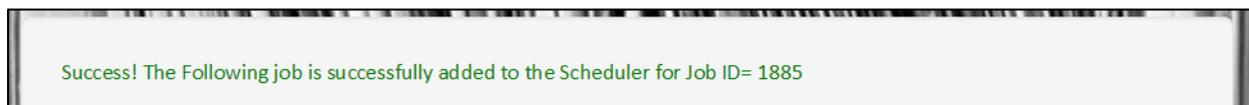
The Missing Immunizations Report identifies and lists patients in a cohort that were indicated as Not Up-to-Date (UTD) or missing immunizations at the time of the assessment. The Not UTD/Missing Immunizations list includes patient name, patient date of birth, missing vaccine type.

If all required criteria have been entered, click 'Submit' to generate your reports.

There is also an option to clear the screen using the 'Clear' button to start over again with a different set of criteria if needed.

When 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.

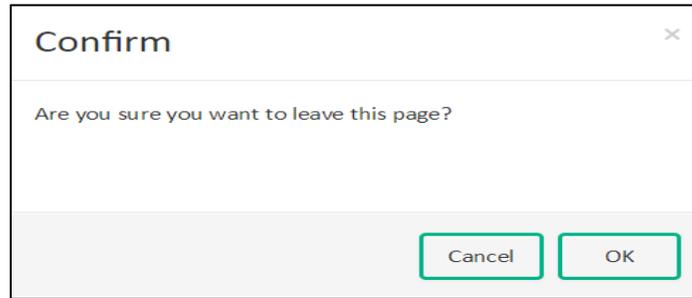
**Figure: 1.14 Job Submitted**



Note: Sample reports are included in Appendix.

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 that prompts 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 1.15 Confirmation Message**

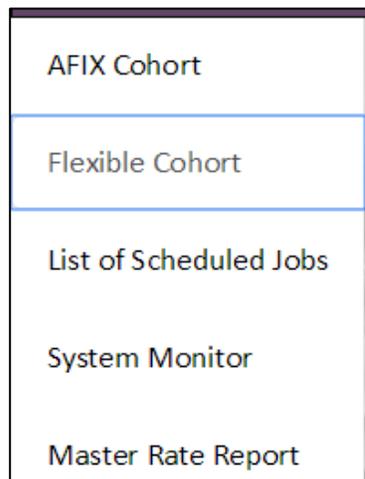


## Flexible Cohort

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**



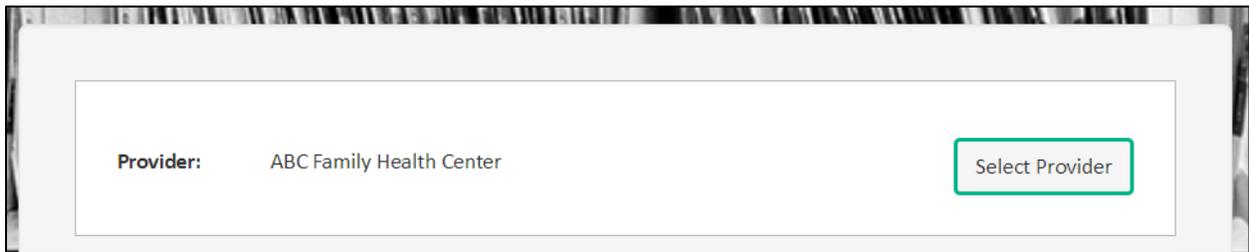
### Provider Selection:

The first step on the Flexible Cohort page is to select the provider organization for which the assessment will be performed.

As mentioned above, selecting a provider depends on your NYSIIS role. If you have access to an independent or child organization in NYSIIS, the organization name will be filled in and you can proceed to fill in the rest of the criteria needed for the AFIX flexible cohort report.

If you have access to a parent organization in NYSIIS, then you will be able to choose to access either the parent organization or any of the child organizations when you access The AFIX Product. And, if you belong to a LHD, you will have the AFIX Coordinator role in The AFIX Product, and will have access to all providers within NYSIIS.

**Figure: 2.2 Selected Provider**



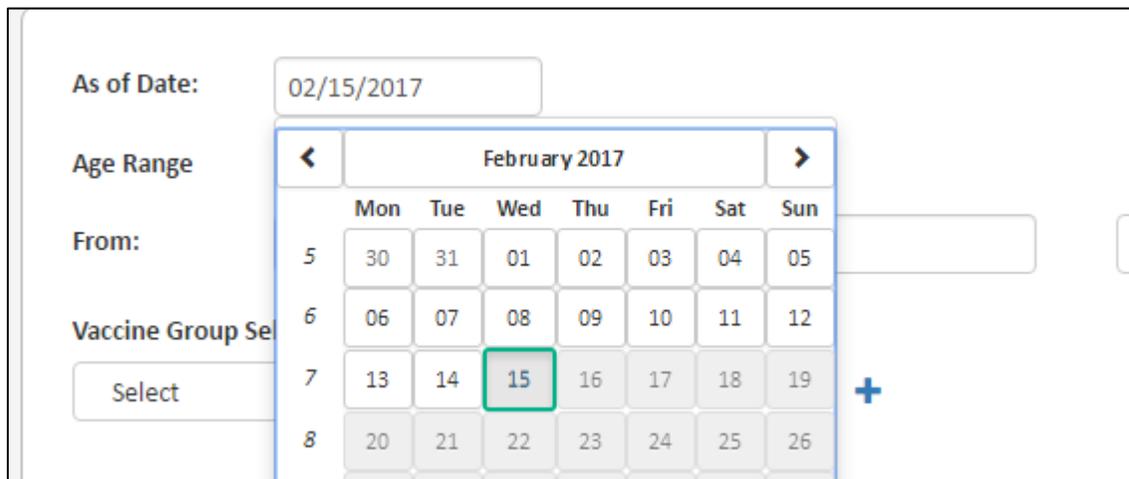
**Assessment Selection:**

- **As of Date**

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: 2.3 Selecting the As of Date**



- **Age Range**

Proceed to select the age range to be assessed. Age range input boxes accept only numeric characters, with the exception of zero. Continue the selection using the drop down to indicate Months or Years.

**Figure: 2.4 Selecting the Age Range**

Based on the value selected for the 'As of Date' and 'age range', NYSIIS will auto-populate the birth date range.

\*Note: The Birthdate ranges are non-editable, but you can adjust the As of Date or Age Range values to change the birth date range.

- **Vaccine Group and corresponding Dose Count**

Currently, the Flexible Cohort page allows the selection of a vaccine group from the following 33 options.

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

Select the vaccine group from the drop down box and enter a dose number needed for the assessment then click the '+' sign to add the selected vaccine to the table below indicating the selections. For adding multiple vaccine group selections, repeat the vaccine group, dose count selection and click the '+' sign.

**Figure: 2.5 Selecting the Vaccine Groups**

The screenshot shows a user interface for selecting vaccine groups. At the top, there is a 'Vaccine Group Selection' dropdown menu with 'Select' as the current choice, and a 'Dose Count' input field with a '+' button to its right. Below this is a table with two columns: 'Vaccine Group' and 'Dose Count'. The table contains three rows of data, each with a blue pencil icon and a blue 'X' icon to its right.

Vaccine Group	Dose Count
MMR	1
FLU	1
HPV	2

**Reports:**

Select the radio button(s) to the left of the output report desired and click the "Submit" button. The available output options are:

- Assessment
- Patient Listing
- Invalid Doses
- Missed Opportunities
- Missing Immunizations

**Figure: 2.6 Selecting the report**

The screenshot shows a 'Reports:' section with five checkboxes, each followed by a report name: Assessment, Patient Listing, Invalid Doses, Missed Opportunities, and Missing Immunizations.

Reports:

- Assessment
- Patient Listing
- Invalid Doses
- Missed Opportunities
- Missing Immunizations

Upon completing the criteria selections, click the Submit button to schedule the job.

**Figure: 2.7 Scheduling the job**

The screenshot shows a simple interface with two buttons: 'Clear' and 'Submit', both outlined in green.

Clear Submit

If you choose to change the previous selections, you click the Clear button to specify a new set of selections.

## List of Scheduled Jobs

The list of scheduled jobs (third menu option from the left menu tab) displays a listing of all jobs scheduled by users from both the AFIX and Flexible Cohort pages.

**Figure: 3.1 List of Scheduled Jobs**

Job ID	User ID	Provider	Submitted On	As of date	Job Type	Report Type	Status	Reports	Sent to CDC on	Send to CDC
10875	1234	IR Physicians	05/30/2018	05/29/2018	Flexible	Assessment Patient Listing Invalid Doses Missed Opps Missing Imms	In Progress	Select		
10874	1234	Empire Blue Shield	05/30/2018	05/29/2018	Flexible	Assessment	In Progress	Select		
10873	1234	IR Physicians	05/30/2018	05/29/2018	Flexible	Assessment Patient Listing Invalid Doses Missed Opps Missing Imms	Ready For Download	Select		
10872	1234	IR Physicians	05/30/2018	05/29/2018	Flexible	Assessment Patient Listing Invalid Doses Missed Opps Missing Imms	Ready For Download	Select		
10871	1234	IR Physicians	05/30/2018	05/21/2018	Childhood	Assessment Patient Listing	Sent To CDC	Select	05/30/2018 10:27:21	Send
10870	1234	IR Physicians	05/30/2018	05/21/2018	Childhood	Assessment	No Records Received	Calendar		

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

The Search button can be used when changing the 'Jobs Submitted Between' and 'Through' date ranges from those currently displayed to expand or narrow search results. The Search button also acts as a 'refresh' button to update the current view with the date range remaining unchanged.

The Advance Search button may be used to select specific criteria from each of the job details. The Job ID search is an exclusive search and will select a single record for display. All other fields may be used in any combination, with one or all options uses.

**Figure 3.2: Advanced Search Page**

The screenshot shows a window titled "Advanced Search" with a close button (X) in the top right corner. A "Cancel Search" button is located in the top right of the form area. The form contains the following fields:

- Job ID:** A text input field.
- User Id:** A text input field.
- Provider:** A text input field.
- Submitted On:** Two date input fields labeled "From:" and "Through:". The "From:" field contains "10/31/2018" and the "Through:" field contains "11/30/2018".
- As of Date:** Two date input fields labeled "From:" and "Through:", both currently empty.
- Job Type:** A dropdown menu with "Select" and a downward arrow.
- Report Type:** A dropdown menu with "Select" and a downward arrow.
- Status:** A dropdown menu with "Select" and a downward arrow.

At the bottom right of the form are two buttons: "Clear" and "Search".

The page displays the following job details:

- **Job ID:** ID created when the job was submitted.
- **User ID:** The NYSIIS User ID of the person who submitted the job.
- **Provider:** The name of the Provider 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/Provider Report Card/Invalid Doses/Missed Opps/Missing Imms.
- **Status**
  - *Job Scheduled:* The job is submitted by user and waiting for processing to begin.
  - *In-Progress:* The job is in process to generate reports.
  - *Error:* A job could fail different technical reasons such as file compression/ file split/ file transmission/ file merge or report files creation error. You can contact the NYSIIS Help Desk to will look in NYSIIS. The Help Desk can restart the job which will continue from where it failed and proceed to completion retaining the original job ID.
  - *Job Duplicated:* Job was created twice due to internal errors. Reach out to the NYSIIS Helpdesk for issue resolution.
  - *Error-Job Duplicated:* When a failed job is restarted, the job is duplicated using the original job submission criteria and with a new job ID. Reach out to the NYSIIS Helpdesk for issue resolution.

- *Error-Sent to CDC:* There is an error in the send to CDC process, reach out to the NYSIIS Helpdesk for issue resolution.
- *Ready for Download:* The job has completed successfully and the reports are available for viewing/downloading.
- *Sent to CDC:* The assessment information was successfully submitted to populate the Master Rate Report. The option to send to CDC is only available to Local Health Department staff.
- *No Record Received:* An existing provider or a new provider has no patients available for a given birth date range.
- *IIS Extract Error:* The extract process has an internal error.

The following two additional columns are only available for the AFIX Coordinator roles and are specific to the Childhood and Adolescent Assessments, Flexible Cohort custom assessment will not have this functionality available.

- **Sent to CDC on:** The date and time when the assessment was submitted to populate the Master Rate Report.
- **Send to CDC:** When the job has completed successfully and the reports are in 'Ready for Download' status, 'Send' button will be available for submission to populate the Master Rate Report.

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 fields. 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 hyperlink. 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.

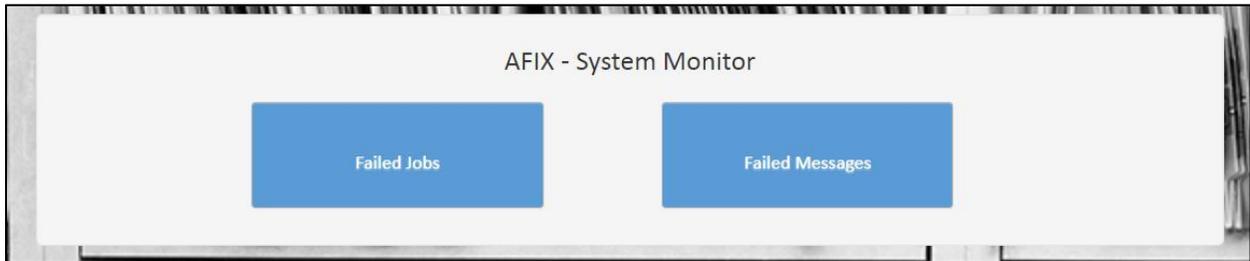
**Figure: 3.3 Job details pop up display**

AFIX Job Details		
<b>Job Id:</b>	10753	
<b>User ID:</b>	1234	
<b>Provider Name:</b>	AUDUBON CLINIC	
<b>Job Type:</b>	Childhood	
<b>As of date:</b>	12/27/2017	
<b>Birthdate Range:</b>		
<b>From:</b>	12/28/2014	
<b>Through:</b>	12/27/2015	
<b>Report Type:</b>	Missing Imms	
<b>Submitted On:</b>	05/09/2018	
<b>Status:</b>	Ready For Download	
<b>Sent to CDC:</b>	False	
	<b>Vaccine Group</b>	<b>Dose Count</b>
	DTaP	4
	Polio	3
	MMR	1
	Hib	UTD
	HepB	UTD
	VAR	1
	PCV	UTD
	RV	UTD
	Flu	1
	HepA	2

## System Monitor

The System Monitor page serves as a dashboard to indicate the status of the various components of AFIX. Access to the page and buttons presented are based on the role of the user.

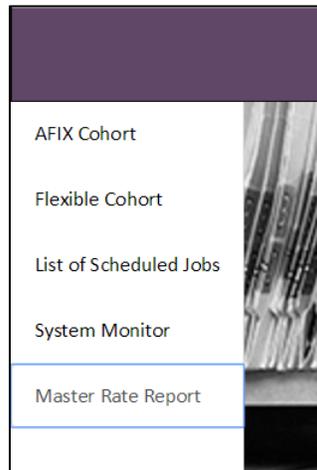
**Figure: 4.1 System Monitor page for AFIX Coordinator and Provider roles**



## Master Rate Report

Master Rate Report menu item is available from the AFIX left menu panel for AFIX Coordinator role assigned to Local Health Department staff. The Provider role does not have this option available.

**Figure: 5.1 Master Rate Report menu item**



When the tab is clicked, the Master Rate Report button displays:

**Figure: 5.2 Master Rate Report**



When the button is clicked, the reports are generated with PDF and XLS buttons for downloading the needed PDF/XLS version(s).

**Figure: 5.3 Master Rate Report download options**



## Appendix

### A. Glossary and Acronyms:

**4:3:1:3:3:1:4:** Primary vaccination for children, comprising 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.

**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 assigned to a provider/facility.

**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:** The NYSIIS organization ID

**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 the vaccines that were currently due at the time of that visit.

**NIS:** National Immunization Survey

**VFC:** Vaccines for Children.

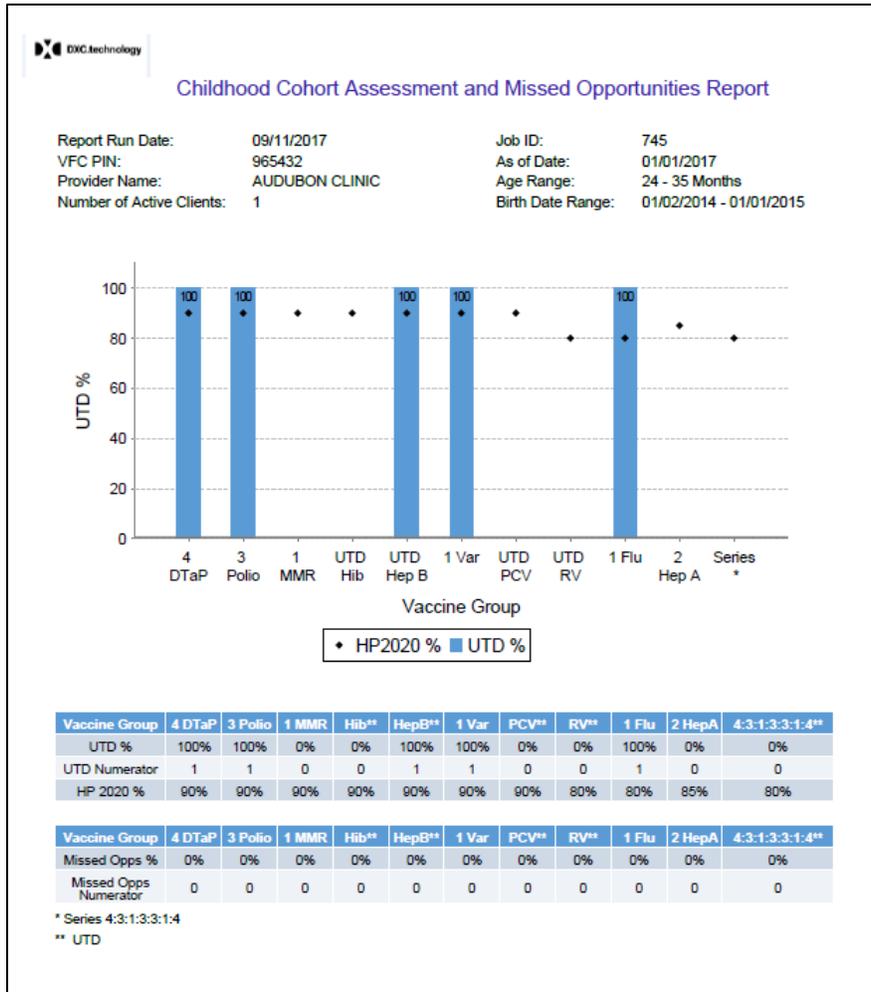
### B. Reports:

Sample PDF reports are shown below, all AFIX reports will be available for download as PDF/Excel versions.

#### 1. Childhood Cohort Assessment and Missed Opportunities Report

Childhood Cohort Assessment and Missed Opportunities Report displays the coverage results for the childhood AFIX assessment measures for patients aged 24-35 months. The UTD percentages for each measure are represented on the graph and presented in a tabular form. The report also displays a table indicating the missed opportunities. A missed opportunity occurs when a patient visits a provider for services, and is due for one or more vaccinations, but did not receive the vaccines that were currently due at the time of that visit. The report also shows the numerator and denominator information. HP2020 goals are indicated on the graph for comparative analysis.

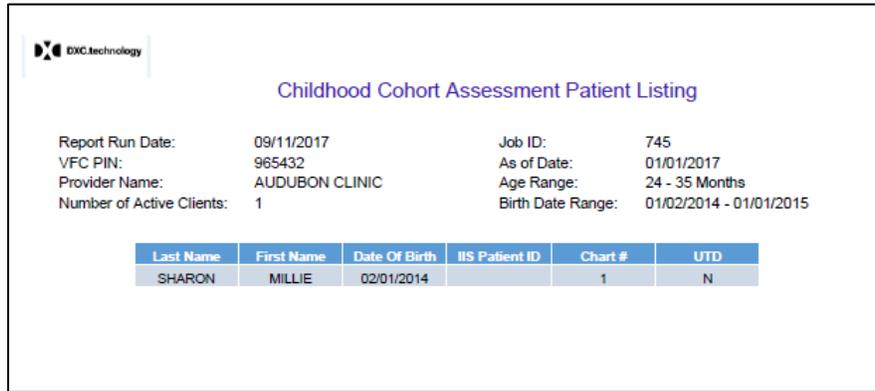
Figure: 6.1 Childhood Cohort Assessment and Missed Opportunities Report



## 2. Childhood Cohort Patient Listing Report

Childhood Cohort Assessment Patient Listing provides a listing of patients who were selected for the assessment and includes patients aged 24-35 months that fall within the birthdate range indicated by the specified As of Date. The report includes the Last Name, First Name, Date of Birth, IIS Patient ID, Chart Number, and the latest UTD status of patients listed

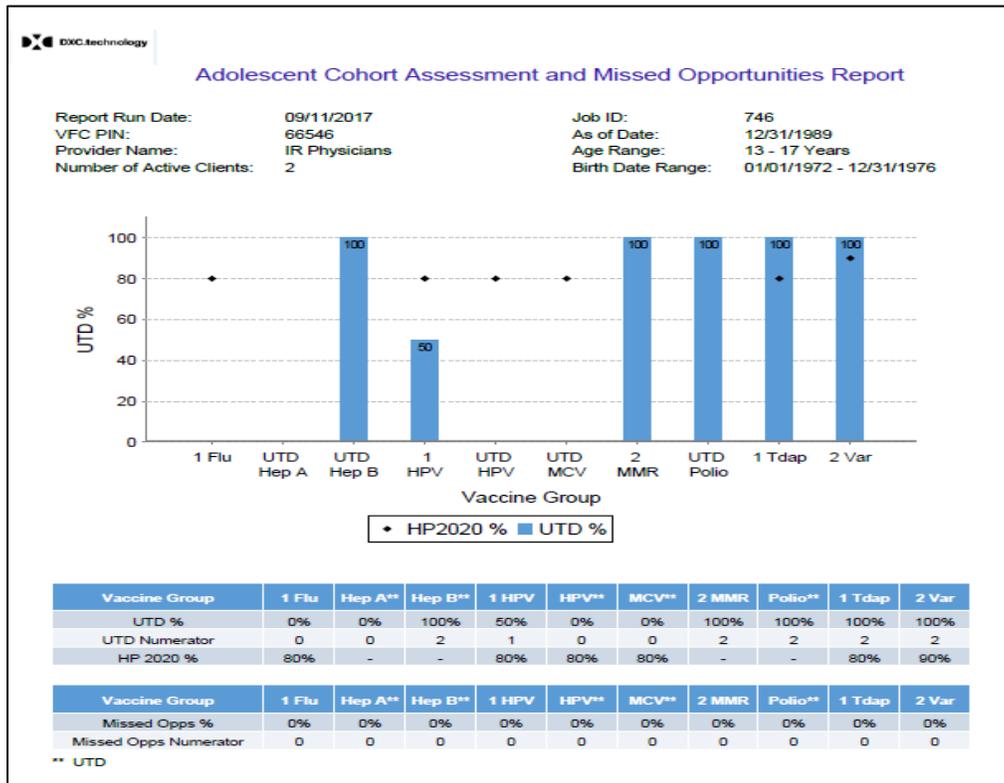
**Figure: 6.2 Childhood Cohort Patient Listing Report**



**3. Adolescent Cohort Assessment and Missed Opportunities Report**

Adolescent Cohort Assessment and Missed Opportunities Report displays the coverage results for the adolescent AFIX assessment measures for patients aged 13 – 17 years. The UTD percentages for each measure are represented on the graph and presented in a tabular form. The report also displays a table indicating the missed opportunities. A missed opportunity occurs when a patient visits a provider for services, is due for one or more vaccinations, but did not receive the vaccines that were currently due at the time of that visit. The report also includes the numerator and denominator information. The HP2020 goals are indicated on the graph for comparative analysis.

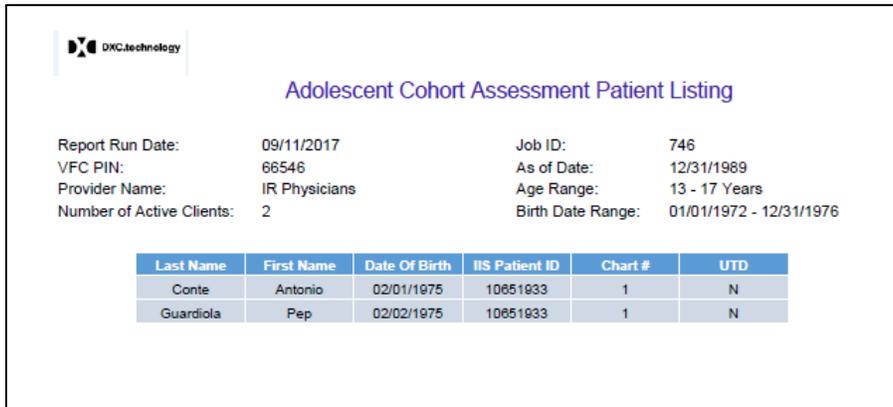
**Figure: 6.3 Adolescent Cohort Assessment and Missed Opportunities Report**



#### 4. Adolescent Cohort Patient Listing Report

Adolescent Cohort Assessment Patient Listing provides a listing of patients who were selected for the assessment, and includes patients aged 13- 17 years that fall within the birthdate range indicated by the specified As of Date. The report includes the Last Name, First Name, Date of Birth, IIS Patient ID, Chart Number, and the latest UTD status of patients listed.

**Figure: 6.4 Adolescent Cohort Patient Listing Report**



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**Adolescent Cohort Assessment Patient Listing**

Report Run Date: 09/11/2017      Job ID: 746  
VFC PIN: 66546      As of Date: 12/31/1989  
Provider Name: IR Physicians      Age Range: 13 - 17 Years  
Number of Active Clients: 2      Birth Date Range: 01/01/1972 - 12/31/1976

Last Name	First Name	Date Of Birth	IIS Patient ID	Chart #	UTD
Conte	Antonio	02/01/1975	10651933	1	N
Guardiola	Pep	02/02/1975	10651933	1	N

#### 5. Childhood Provider Report Card

Childhood Provider Report Card is a report card for the Provider on how they performed on their Childhood AFIX Assessment measures. The report indicates the total number of children assessed within the 24-35 months of age and the corresponding birthdate range. The list of assessed measures is displayed along with the number of children who were Up to Date and the percentages. It also lists the State's score along with the HP2020 goals for comparative analysis.

Figure: 6.5 Childhood Provider Report Card



Provider Report Card for Childhood Immunization

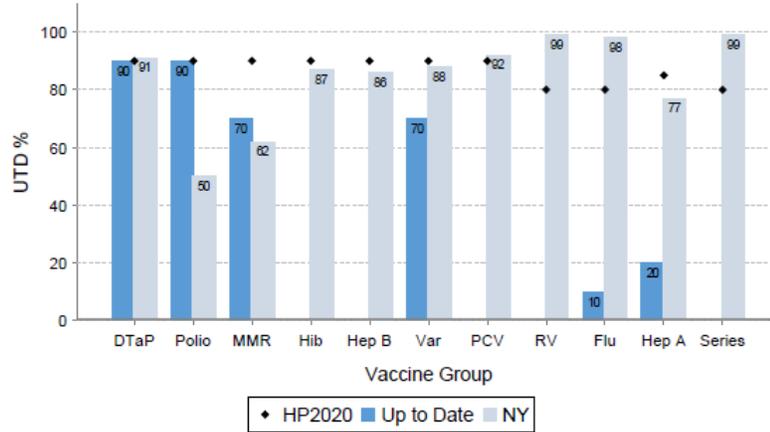
This report was run on 03/21/2017 for ABC Labs (147892).

The assessment was done for children with age range of 24 - 35 Months (born between 01/31/2014 and 01/30/2015). The compliance of these children were validated as of 01/30/2017. There are 10 children assessed.

Childhood Immunization Coverage Rates

Vaccine Group	Up to Date #	Up to Date	NY	HP 2020 <sup>A</sup>	Recommended Doses
DTaP	9	90%	91%	90%	4 or more doses of diphtheria, tetanus and pertussis vaccine
Polio	9	90%	50%	90%	3 or more doses of poliovirus vaccine
MMR	7	70%	62%	90%	1 or more doses of measles, mumps and rubella vaccine
Hib	0	0%	87%	90%	2, 3, 4 or more doses of haemophilus influenzae type b conjugate vaccine depending on product type and age at first dose. UTD <sup>B</sup>
Hep B	0	0%	86%	90%	3 or more doses of hepatitis B vaccine. UTD <sup>B</sup>
Var	7	70%	88%	90%	1 or more doses of varicella vaccine
PCV	0	0%	92%	90%	2, 3, 4 or more doses of pneumococcal conjugate vaccine, based on age at first dose. UTD <sup>B</sup>
RV	0	0%	99%	80%	2 or 3 or more doses of rotavirus vaccine, depending on product type received. UTD <sup>B</sup>
Flu	1	10%	98%	80%	1 dose of flu vaccine for the most recently completed flu season <sup>C</sup>
Hep A	2	20%	77%	85%	2 or more doses of hepatitis A vaccine
4:3:1:3:3:1:4 Series <sup>D</sup>	0	0%	99%	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

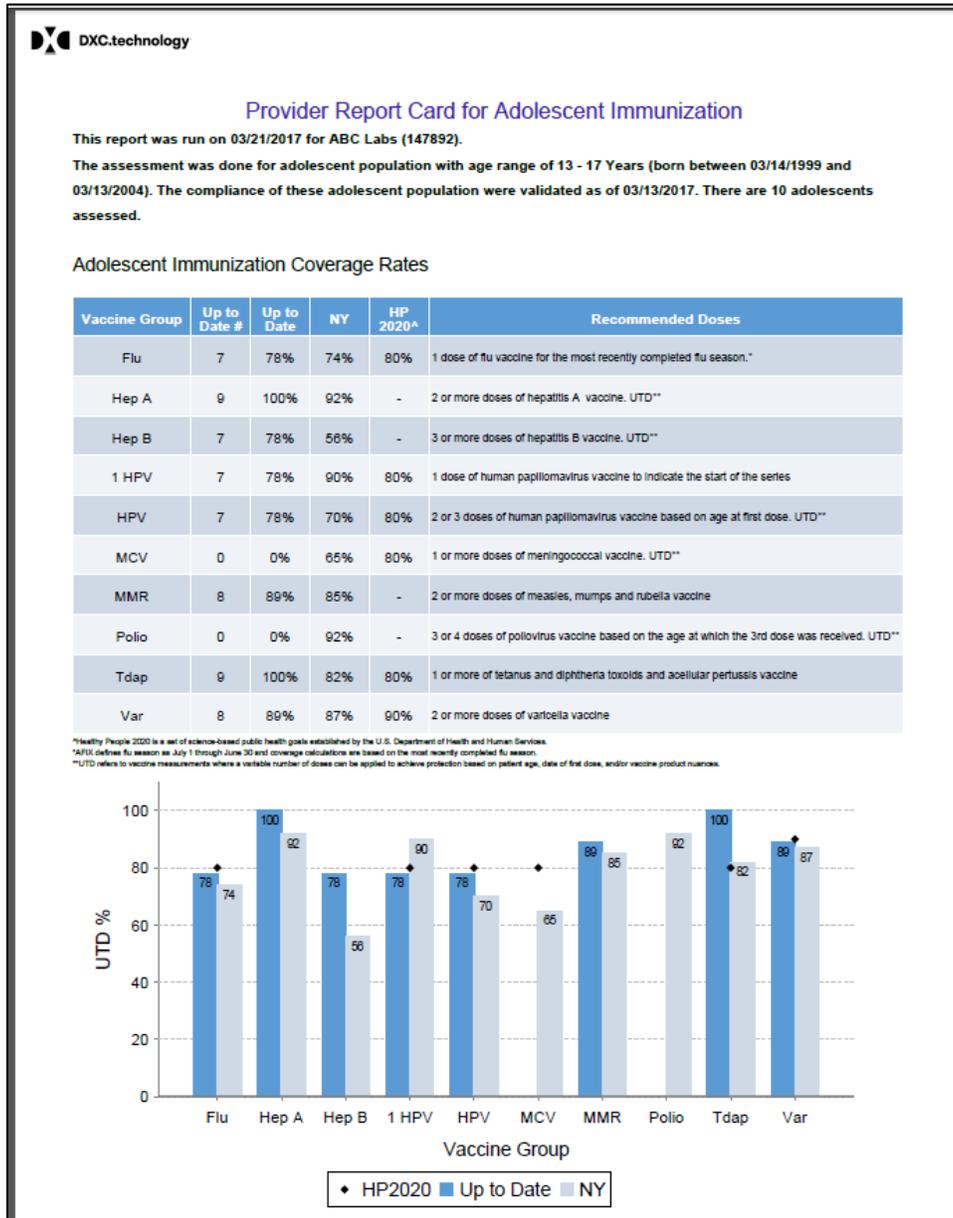
<sup>A</sup>Healthy People 2020 is a set of science-based public health goals established by the U.S. Department of Health and Human Services.  
<sup>B</sup>UTD refers to vaccine measurements where a variable number of doses can be applied to achieve protection based on patient age, date of first dose, and/or vaccine product nuances.  
<sup>C</sup>AFLIX defines flu season as July 1 through June 30 and coverage calculations are based on the most recently completed flu season.  
<sup>D</sup>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.



## 6. Adolescent Provider Report Card

Adolescent Provider Report Card is a report card for the Provider on how they performed on their Adolescent AFIX Assessment measures. The report indicates the total number of children assessed within the 13 – 17 years of age and the corresponding birthdate range. The list of assessed measures is displayed along with the number of children who were Up to Date and the percentages. It also lists the State’s score along with the HP2020 goals for comparative analysis.

Figure: 6.6 Provider Report Card without NIS



## 7. Childhood Cohort Invalid Doses Report

The Childhood Cohort Invalid Doses Report displays a list of patients aged 24 – 35 months that fall within the birthdate range indicated by the specified As of Date. The report result details include the 'Patient Name (Last, First, MI)', 'Date of Birth', 'Antigen', 'Date Given', and 'Reason Not Valid'.

### Childhood Cohort Invalid Doses Report

Childhood Cohort Invalid Doses Report				
Report Run Date:	11/15/2018	Job ID:	11667	
VFC PIN:	11111	As of Date:	11/13/2018	
Provider Name:	EDS Test Organization	Age Range:	24 - 35 Months	
# Active Clients:	1	Birth Date Range:	11/14/2015 - 11/13/2016	
# Clients with Invalid Doses:	1	# Invalid Doses:	6	
Patient Name	DOB	Antigen	Date Given	Reason Not Valid
KIDD, FLEXIBLE	07/18/2016	DTaP	09/28/2016	Dose was given too soon after the previous dose.
KIDD, FLEXIBLE	07/18/2016	Polio	09/28/2016	Dose was given too soon after the previous dose.

## 8. Adolescent Cohort Invalid Doses Report

The Adolescent Cohort Invalid Doses Report displays a list of patients aged 13- 17 years that fall within the birthdate range indicated by the specified As of Date. The report result details include the 'Patient Name (Last, First, MI)', 'Date of Birth', 'Antigen', 'Date Given', and 'Reason Not Valid'.

### Adolescent Cohort Invalid Doses Report

Adolescent Cohort Invalid Doses Report				
Report Run Date:	11/05/2018	Job ID:	11620	
VFC PIN:	242526	As of Date:	11/05/2018	
Provider Name:	Sheila's Test Organization	Age Range:	13 - 17 Years	
# Active Clients:	4	Birth Date Range:	11/06/2000 - 11/05/2005	
# Clients with Invalid Doses:	1	# Invalid Doses:	6	
Patient Name	DOB	Antigen	Date Given	Reason Not Valid
PATIENT, TEST	09/17/2005	HPV	10/16/2013	Dose was given before the earliest acceptable date. Patient meets gender specific requirements for this series
PATIENT, TEST	09/17/2005	HPV	07/16/2013	Dose was given before the earliest acceptable date.

## 9. Missed Opportunities Report

The Missed Opportunities Report will create a report listing of the patients assessed and the antigen(s) for which the dose(s) were considered missed as of the date a last vaccine was administered. This report can only be generated for a single provider at a time and will include both administered and historical immunizations

### Adolescent Cohort Missed Opportunities Report

Adolescent Cohort Missed Opportunities Report			
Report Run Date:	04/18/2018	Job ID:	10422
VFC PIN:	11233	As of Date:	12/27/2017
Provider Name:	Amanda Adolescents - 11233	Age Range:	13 - 17 Years
# Active Clients:	1	Birth Date Range:	12/28/1999 - 12/27/2004
# Clients with Missed Opps:	1	# Missed Opps:	3
Patient Name	DOB	Antigen Missed	Date Missed
FRITZ, CYRUS, AGNES	02/01/2002	HPV, MMR, Hep B	12/12/2016

## 10. Missing Immunizations Report

The Missing Immunizations Report identifies and lists patients in a cohort that were indicated as Not Up-to-Date (UTD) or missing immunizations at the time of the assessment. The Not UTD/Missing Immunizations list includes patient name, patient date of birth, missing vaccine type.

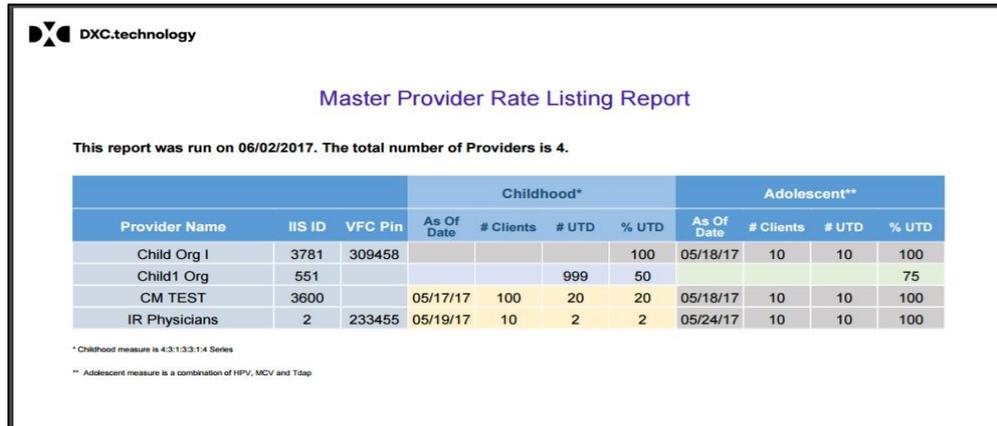
### Flexible Cohort Missing Immunization Report

Flexible Cohort Missing Immunizations Report			
Report Run Date:	05/08/2018	Job ID:	10714
VFC PIN:	876543	As of Date:	12/27/2017
Provider Name:	Apple Peds	Age Range:	24 - 36 Months
# Active Clients:	3	Birth Date Range:	11/28/2014 - 12/27/2015
# Clients with Missing Imms:	3	# Missing Imms:	3
Patient Name	DOB	Antigen Missing	
EDWARDS, DENNIS, R	04/01/2015	HepB	
FULTON, YO, S	03/01/2015	MMR	
JONES, HOMER, P	03/01/2015	HepB	

## 11. Master Rate Report

The Master Rate Report can only be generated by an AFIX Coordinator. This report helps identify and prioritize VFC Providers for annual AFIX visits. The report will be available in PDF and XLS formats. The Provider role in The AFIX Product does not have access to generate/view this report.

### Master Rate Report



**DXC technology**

**Master Provider Rate Listing Report**

This report was run on 06/02/2017. The total number of Providers is 4.

Provider Name	IIS ID	VFC Pin	Childhood*			Adolescent**				
			As Of Date	# Clients	# UTD	% UTD	As Of Date	# Clients	# UTD	% UTD
Child Org I	3781	309458				100	05/18/17	10	10	100
Child1 Org	551				999	50				75
CM TEST	3600		05/17/17	100	20	20	05/18/17	10	10	100
IR Physicians	2	233455	05/19/17	10	2	2	05/24/17	10	10	100

\* Childhood measure is 4:3:1:3:3:1:4 Series  
\*\* Adolescent measure is a combination of HPV, MCV and Tdap

## C. AFIX Roles:

**AFIX Coordinator:** Schedules Assessments/Reports for any org, downloads, sends Reports to CDC, on the System Monitor Page access only to Failed Jobs (without Restart functionality) and Failed Messages.

**Provider:** Schedules Assessments/Reports for owned organizations, on System Monitor page - access only to Failed Jobs Listing (without Restart Functionality) and Failed Messages. Master Rate Report menu item is not available for this role.