



SMaRT AFIX Testing Scenarios

Compatible with v. March 2019



Table of Contents

Table of Contents	2
Introduction	3
Testing Overview	3
Day 1: Entering Test Data	3
User Data	4
PAIS Scenario Data	4
Create a new facility	4
Childhood Cohort Data	4
Adolescent Cohort Data	4
Day 1 Summary	5
Day 2: Suggested Test Scenarios	5
Security/Access testing	5
Overview	6
Master Rate Comparison: Childhood	6
Master Rate Comparison: Adolescent	7
Childhood Cohort	7
Adolescent Cohort	11
Day 2 Summary	14
Day 3: Test Data Updates	14
PAIS Scenario Data	15
Cohort Data	15
Immunity and Contraindications	15
Day 3 Summary	15
Day 4: Suggested Test Scenarios	16
Childhood Cohort Scenarios	16
Adolescent Cohort Scenarios	18
Custom Patient List Scenarios	20
Manage Reports: Create Groups	21
AFIX Export Scenario: Childhood	21
AFIX Export Scenario: Adolescent	22
AFIX Export Scenarios: Childhood and Adolescent	23
Provider Group Access Scenarios	24
Day 4 Summary	25
Childhood Cohort Test Data Set	26

Introduction

The purpose of this document is to provide guidelines, strategies, and ideas to facilitate SMaRT AFIX evaluation in your test environment. This is not an end-to-end test plan or intended to encompass all of the tests you should perform to ensure SMaRT AFIX functionality in your environment. Each of the test data elements and test cases contained herein are optional. This testing document reflects functionality in SMaRT AFIX v. March 2019.

Awardees will also be receiving the SMaRT AFIX Training Guide, Quick Reference Guides, and User Guide that describe all of the functionality and components of the SMaRT AFIX application. Awardees are encouraged to use these documents as well as their own current AFIX processes and guidelines to create additional state-specific tests to ensure the application is functional for their needs and scenarios.

Documentation to support your testing process can also be found at <https://documentation.stchome.com/>.

Testing Overview

Full completion of all items in this document can be expected to take 3-5 days. Some actions will require the completion of scheduled overnight maintenance tasks for the results to be implemented and observable.

As a reminder, onscreen list displays will be truncated. As a result, you may need to export Master Rate Comparison Report and Patient Lists to xls or csv to view full results.

If your SMaRT AFIX session becomes inactive, your reports may fail to load and you may see the error message below. If this occurs, you will need to log out using the avatar in the top right corner (or by pressing ok) and log in again to continue.

Authentication with the report server has failed.

Click the button below to re-authenticate

(Warning any unsaved changes will be lost)

Day 1: Entering Test Data

NOTE: The Test Cases have been optimized for the data set outline below. The use of these records is optional. If you do elect to key these records into your system for testing, then please be advised that the

entry will need to be done at least 1 day in advance of testing. Calculator.net offers a nice tool for making date calculations easier.

These scenarios do not include Influenza. Missed opportunity calculations for Influenza are dependent on user entered vaccination and patient data relative to flu season and are difficult to script for this reason.

User Data

These test scripts will require users of various levels to test functionality. Please ensure you have created the following types of users:

- State/RC user with Access Manage Users Page role
- State/RC user with Provider Group content role
- Facility level user

PAIS Scenario Data

Create Childhood and Adolescent Patients **A, B, N and O** from the Test Data Sets found at the end of this document. Assign them to an existing test facility of your choice. The facility must have an address, including city, state, valid zip code, and a VFC PIN. Make sure each patient has an active status with the facility you have selected.

If your IIS allows patients to opt-out of IIS participation, you may wish to create additional patients and mark them accordingly to observe that they are not included in the assessment.

When creating patients, we suggest you note the corresponding names for test data sets or name them for easy reference throughout testing. (“Patient A” is “Alexander AFIX”, for example.)

Create a new facility

Create a new facility in your IIS. The facility needs to be named, given an address including city, state and valid zip code and a VFC PIN.

Childhood Cohort Data

Create the remaining Childhood Cohort patients (**C-K**) from the Test Data Set and affiliate them with your newly created facility. Make sure each patient has an active status with the facility you have selected.

Adolescent Cohort Data

Create the remaining Adolescent Cohort patients (**P-Y**) from the Test Data Set and affiliate them with same new facility you created for the Childhood Cohort.

When creating patients, we suggest you note the corresponding names for test data sets or name them for easy reference throughout testing. (“Patient A” is “Alexander AFIX”, for example.)

Day 1 Summary

- **You will have created Patients A, B, N and O and assigned them to an existing test facility of your choice, making sure they have an active patient status with the facility.**
- **You will have created a new facility to which newly created Patients C-K and P-Y have been assigned, making sure they have an active patient status with the facility.**

Allow the data to refresh overnight.

Day 2: Suggested Test Scenarios

The purpose of the test cases is to confirm the accuracy of SMaRT AFIX’s calculation logic. The rates will only match your results if you have utilized the provided data sets. If the output is different, regardless of the test data used in your environment, please attempt to confirm that the logic is working as expected.

The following scenarios assume the data has been allowed to refresh overnight.

Reminder: If your SMaRT AFIX session becomes inactive, your reports may fail to load and you may see the error message below. If this occurs, you will need to log out using the avatar in the top right corner or by pressing ok and log in again to continue.

Authentication with the report server has failed.

Click the button below to re-authenticate

(Warning any unsaved changes will be lost)

Security/Access testing


1. Log in as State/RC user.
2. Top search bar should be empty.
3. Ensure the help icon opens the User Guide in a new tab.
4. Ensure the foursquare icon opens a popup with STC Suite that allows you to navigate to other products available to your state.
5. Left navigation bar should contain AFIX Export with options for **Childhood, Adolescent**, and the combined **Childhood and Adolescent**.

6. Left navigation bar should contain **Master Rate Comparison** with options for **Childhood and Adolescent**.
7. Custom report area should have empty Provider selection box.
8. Log out.
9. Log back in as Facility User.
10. Top search bar should be populated with the name of the organization/facility with which your user is affiliated.
11. User should not see AFIX Export in left navigation.
12. User should not see Master Rate option in left navigation bar.
13. Provider selection box in Custom report area should be pre-populated with org/facility name.
14. Log out.

Overview


1. Log into SMaRT AFIX as State/RC User.
 2. Childhood and adolescent graphs should contain your state's NIS data along with National NIS data and HP 2020 targets.
 3. Clicking on bar in Childhood graph links to NIS MMWR for Childhood.
 4. Clicking on bar in Adolescent graph links to NIS MMWR for Adolescent.
 5. Confirm both graphs can be toggled to a table view.
 6. Confirm the presence of icon to export to pdf from graph view and csv or xls in table view.
 7. Confirm the presence of icons to print in either graph or table view.
-

Master Rate Comparison: Childhood

1. Access the Master Rate Comparison for Childhood by selecting it from the left menu.
2. Confirm a preview of the report displays onscreen and contains columns for Provider name, VFC PIN, IIS ID, % UTD for measure, (# UTD / Childhood Records).
3. Confirm header includes label for Childhood Cohort, Antigens: 1 MMR, 1 VAR, 3 POLIO, 4 DTAP, UTD HEP B, UTD HIB, UTD PCV, Ages Accessed and Date Generated.
4. Depending on the number of facilities in your test environment, your onscreen list may include this  symbol to indicate performance in the bottom quartile. If so, it will appear to the right of the UTD Measure %.
5. Export the list to csv or xls.
6. Confirm a pop-up window indicates the export is in process.
7. Confirm the exported list includes your newly created facility from Day 1.
8. Confirm the exported list contains columns for Provider name, VFC PIN, Provider IIS ID, VFC Status, County, UTD Count, Patient Count, % UTD for measure, Provider Rank and Quartile. Your facility's rank and quartile position on the list will depend on the other facilities in your test environment.

9. Confirm exported list has a header which includes label for Childhood Cohort, Antigens: 1 MMR, 1 VAR, 3 POLIO, 4 DTAP, UTD HEP B, UTD HIB, UTD PCV, Ages Assessed and Date Generated.
-

Master Rate Comparison: Adolescent

1. Access the Master Rate Comparison for Adolescent by selecting it from the left menu.
2. Confirm a preview of the report displays onscreen containing columns for Provider name, VFC PIN, IIS ID, % UTD for measure, (# UTD / Adolescent Records).
3. Confirm header includes label for Adolescent Cohort, Antigens: 1 Tdap, 2 HEP A, 2 MMR, 2 VAR, UTD HPV, UTD HEP B, 1 MENING, UTD POLIO, Ages Assessed and Date Generated.
4. Depending on the number of facilities in your test environment, your onscreen list may include this  symbol to indicate performance in the bottom quartile. If so, it will appear to the right of the UTD Measure %. Export the list to csv or xls.
5. Confirm a pop-up window indicates the export is in process.
6. Confirm the exported list includes your newly created facility from Day 1.
7. Confirm the exported list contains columns for Provider name, VFC PIN, Provider IIS ID, VFC Status, County, UTD Count, Patient Count, % UTD for measure, Provider Rank and Quartile. Your facility's rank and quartile position on the list will depend on the other facilities in your test environment.
8. Confirm header includes label for Adolescent Cohort, Antigens: 1 Tdap, 2 HEP A, 2 MMR, 2 VAR, UTD HPV, UTD HEP B, 1 MENING, UTD POLIO, Ages Assessed and Date Generated.

Childhood Cohort

1. Search for your recently created facility by name in the top header search box.
2. Close out selection.
3. Search for your recently created facility by VFC PIN in the top header search box and select it.
4. Choose Coverage under Childhood from the left navigation bar.
5. Confirm header contains the following filters:

Provider Name and VFC PIN: (Your Provider/PIN)




Ages Assessed 24-35 months

As of Date

Selected Cohort/Series/Antigens: Childhood Assessment 4:3:1:3:3:1:4

Compliance by Date: 24 months

Assessment Date: (Today's Date)

6. Confirm the display of three icons beneath the filtering information:   . Hovering over the icons will display "Print", "Export" and "Coverage Definitions".
7. Confirm that a pop-up window containing the details about the calculations opens when the "Coverage Definitions" icon is clicked.

8. Confirm that top summary graph displays:

Up-To-Date	40%	4/10 Patients
Late-Up-To-Date	0%	0/10 Patients
Missed Opportunities	60%	6/10 Patients

Remember that Influenza, Rotavirus and Hepatitis A are not considered for the calculations in this graph.

9. Individual Antigen Graph should display the following:

MMR	VAR
90% Up-To-Date (UTD) 9/10 Patients	80% Up-To-Date (UTD) 8/10 Patients
0 % Late Up-To-Date 0/10 Patients	0 % Late Up-To-Date 0/10 Patients
10% Missed Opportunities 1/10 Patients	20% Missed Opportunities 2/10 Patients
2 HEP A	3 POLIO
70% Up-To-Date (UTD) 7/10 Patients	80% Up-To-Date (UTD) 8/10 Patients
20% Late Up-To-Date 2/10 Patients	0 % Late Up-To-Date 0/10 Patients
0% Missed Opportunities 0/10 Patients	20% Missed Opportunities 2/10 Patients
4 DTaP	HEP B
90% Up-To-Date (UTD) 9/10 Patients	90% Up-To-Date (UTD) 9/10 Patients
0 % Late Up-To-Date 0/10 Patients	0 % Late Up-To-Date 0/10 Patients
10% Missed Opportunities 1/10 Patients	10% Missed Opportunities 1/10 Patients
HIB	PCV
80% Up-To-Date (UTD) 8/10 Patients	70% Up-To-Date (UTD) 7/10 Patients
0 % Late Up-To-Date 0/10 Patients	0% Late Up-To-Date 0/10 Patients
20% Missed Opportunities 2/10 Patients	30% Missed Opportunities 3/10 Patients
ROTAVIRUS	
90% Up-To-Date (UTD) 9/10 Patients	0% Missed Opportunities 0/10 Patients
0 % Late Up-To-Date 0/10 Patients	

10. Print the Childhood Coverage Rate. The graph will display the same in the printout, but will contain Filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)
Selected Cohort: Childhood | Ages Assessed 24 to 35 months
Selected Cohort/Series/Antigens: Childhood Assessment 4:3:1:3:3:1:4
Assessment Date: (Today's Date)
Compliance by Date: 24 months

11. Export Childhood Coverage Rate. The graph will display the same in the .PDF export, but will contain Filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)
Selected Cohort: Childhood | Ages Assessed 24 to 35 months
Selected Cohort/Series/Antigens: Childhood Assessment 4:3:1:3:3:1:4
Assessment Date: (Today's Date)
Compliance by Date: 24 months
As of Date

12. Toggle to table view and confirm the table view contains same data as the graph display.
13. Print the Childhood Coverage Rate Table. The table will display the same in the printout, but will contain filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)
Selected Cohort: Childhood | Ages Assessed 24 to 35 months
Selected Cohort/Series/Antigens: Childhood Assessment 4:3:1:3:3:1:4
Assessment Date: (Today's Date)
Compliance by Date: 24 months
As of Date

14. Export Childhood Coverage Rate to xls or csv. The table will display the same in the export, but will contain filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)
Selected Cohort: Childhood | Ages Assessed 24 to 35 months
Selected Cohort/Series/Antigens: Childhood Assessment 4:3:1:3:3:1:4
Assessment Date: (Today's Date)
Compliance by Date: 24 months
As of Date

15. Select Patient List report from left navigation bar.
16. Confirm the header filters appear as on the Coverage Rate Report.

17. Select Full List.
18. Confirm patients are listed alphabetically by last name.
19. Confirm that the display includes patient name, ID, DOB, gender, and last vaccination date.
20. Export the Full List to csv or xls. The Full list should contain the names of patients recently created, except **Patients A and B**.
21. Confirm the presence of columns for patient name, ID, DOB, gender, last vaccination date, phone number and cell phone number.
22. Choose Missed Opportunity report from the drop-down and export to csv or xls
23. All patients will appear on the list for Missed Opportunities for Flu . In addition, confirm the following patients appear on the list with their relevant missed antigens:

Patient D, DTaP

Patient D, Hib

Patient D, PCV

Patient E, Polio

Patient F, Hep B

Patient F, PCV

Patient F, Polio

Patient G, MMR

Patient G, Varicella

Patient J, PCV

Patient J, Varicella

24. Choose Invalid Dose report from the drop-down.
25. Confirm the following patient appears on the list with the relevant invalid antigen:

Patient J, Varicella, Live vaccines not administered on same date must be separated by 28 days.

Adolescent Cohort

1. Search for your recently created facility using name in the top header search box.
2. Choose Coverage under Adolescent from the left navigation bar.
3. Confirm header contains the following filters

Provider Name/ VFC PIN: (Your Provider/PIN)


Ages Assessed: Adolescent 13-17 years

As of Date

Selected Cohort/Series/Antigens: UTD Hep B, 2 MMR, 2 Var, 1 Tdap, 1 MENING, HPV, 2 Hep A, UTD Polio

Compliance by Date: 13 yrs

Assessment Date: (Today's Date)

4. Confirm the display of three icons beneath the filtering information: . Hovering over the icons will display “Print”, “Export” and “Coverage Definitions”.
5. Confirm that a pop-up window containing the details about the calculations opens when the “Coverage Definitions” icon is clicked.
6. Confirm that top summary graph displays:

Up-To-Date **50%** **5/10 Patients**
Late-Up-To-Date **20%** **2/10 Patients**
Missed Opportunities **20%** **2/10 Patients**

Remember that Influenza and Hepatitis A are not considered for the calculations in this graph.

7. Individual Antigen Graph should display the following:

1 MENING	VAR
60% Up-To-Date (UTD) 6/10 Patients	80% Up-To-Date (UTD) 8/10 Patients
40 % Late Up-To-Date 4/10 Patients	0 % Late Up-To-Date 0/10 Patients
0% Missed Opportunities 0/10 Patients	20% Missed Opportunities 2/10 Patients
TDAP	HEP B
90% Up-To-Date (UTD) 9/10 Patients	90% Up-To-Date (UTD) 9/10 Patients
10 % Late Up-To-Date 1/10 Patients	0 % Late Up-To-Date 0/10 Patients
0% Missed Opportunities 0/10 Patients	10% Missed Opportunities 1/10 Patients
HEP A	HPV
80% Up-To-Date (UTD) 8/10 Patients	70% Up-To-Date (UTD) 7/10 Patients
0 % Late Up-To-Date 0/10 Patients	10 % Late Up-To-Date 1/10 Patients
20% Missed Opportunities 2/10 Patients	10% Missed Opportunities 1/10 Patients
MMR	POLIO
100% Up-To-Date (UTD)	90% Up-To-Date (UTD)

10/10 Patients	9/10 Patients
0% Late Up-To-Date 0/10 Patients	0 % Late Up-To-Date 0/10 Patients
0% Missed Opportunities 0/10 Patients	10% Missed Opportunities 1/10 Patients

8. Toggle to table view and confirm the table view contains same data as graph display.
9. Print the Adolescent Coverage Rate Table. The table will display the same in the printout, but will contain Filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)

Ages Assessed: Adolescent 13-17 years

As of Date

Selected Cohort/Series/Antigens: UTD Hep B, 2 MMR, 2 Var, 1 Tdap, 1 MENING, HPV, 2 Hep A, UTD Polio

Compliance by Date: 13 yrs

Assessment Date: (Today's Date)

10. Export Adolescent Coverage Rate to xls or csv. The table will display the same in the export, but will contain Filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)

Ages Assessed: Adolescent 13-17 years

As of Date

Selected Cohort/Series/Antigens: UTD Hep B, 2 MMR, 2 Var, 1 Tdap, 1 MENING, HPV, 2 Hep A, UTD Polio

Compliance by Date: 13 yrs

Assessment Date: (Today's Date)

11. Select Patient List report from left navigation bar. Confirm the header filters appear as on the Coverage Rate Report.
12. Select Full List.
13. Confirm patients are listed alphabetically by last name.
14. Confirm that the display includes patient name, ID, DOB, gender, and last vaccination date.
15. Export the Full List to csv or xls. Full list should contain the names of patients recently created, except **Patients N and O**.
16. Confirm the presence of columns for patient name, ID, DOB, gender, last vaccination date, phone number and cell phone number.
17. Choose Missed Opportunity report from the drop-down and export the list to csv or xls.
18. All patients will appear on the list for Missed Opportunities for Flu. In addition, confirm the following patients appear on the list with their relevant missed antigens:

Patient R, Varicella
Patient S, Hepatitis A
Patient S, Hepatitis B
Patient S, HPV
Patient S, Varicella
Patient S, Polio
Patient T, Hepatitis A

19. Choose Invalid Dose report from the drop-down
20. Confirm the following patients appear on the list with the relevant invalid antigens:

Patient T, Hepatitis A, Minimum interval from previous dose not met

21. Export Invalid Dose Patient List to xls or csv. The patient list will contain Filtering info in the page header, including:

Provider Name/ VFC PIN: (Your Provider/PIN)

Ages Assessed: Adolescent 13-17 years

As of Date

Selected Cohort/Series/Antigens: UTD Hep B, 2 MMR, 2 Var, 1 Tdap, 1 MENING, HPV, 2 Hep A, UTD Polio

Compliance by Date: 13 yrs

Assessment Date: (Today's Date)

Day 2 Summary

- **You will have conducted basic navigation testing to confirm user level access.**
- **You have viewed and exported Master Rate Comparison reports for Childhood and Adolescent Cohorts.**
- **You have confirmed the Childhood and Adolescent assessments are based upon patients with active status for the relevant facility using the Patient List.**
- **You have viewed the list of Patients with Missed Opportunities and Invalid doses and cross-referenced with the Test Data Set.**
- **You have viewed Childhood and Adolescent Coverage Reports, confirming the calculations are as expected based on your test data.**

Day 3: Test Data Updates

TIME SENSITIVE TEST. Complete the following before continuing your testing process.

Make the following changes to your recently created cohorts in your IIS and allow the data to refresh overnight.

PAIS Scenario Data

Add **Patients A, B, N, O** to your recently created facility, making sure they have an active patient status. All test patients from the Test Data Set should now have active status with the facility. This will allow you to confirm that patients with active status for the assessed facility are included in the assessment and observe related calculation adjustments.

Cohort Data

Add the following vaccines for the patients indicated. This will allow you to observe that coverage rate and missed opportunities consider the patient and vaccine data available.

First	Last	Vaccine			
Patient	C	Hep A #2 at 23 mos, 3 wks			
Patient	D	DTaP #4 at 15 mos	Hib PRP-T #4 at 15 mos	PCV #4 at 15 mos	
Patient	R	Var #2 on the same day as MMR #2			

Immunity and Contraindications

In the IIS, add the following to the patient record indicated:

Patient G, Known severe immunodeficiency (MMR and Varicella)

Patient S, History of Varicella Infection

Allow the data to refresh overnight

Day 3 Summary

- **Four patients now have active status with a different facility and will be included in that facility's assessment after the data refreshes.**

- **New vaccination data has been added to existing patients in both cohorts.**
- **Contraindication and immunity data have been added to patients in each cohort.**

Day 4: Suggested Test Scenarios

The purpose of the test cases is to confirm the data refresh process and the accuracy of SMaRT AFIX’s calculation logic. The following results can only be expected to match your reports if you have utilized the provided data sets. If the output is different, regardless of the test data used in your environment, please attempt to confirm that the logic is working as expected.

The following scenarios assume the data has been allowed to refresh overnight.

Reminder: If your SMaRT AFIX session becomes inactive, your reports may fail to load. You will need to log out using the avatar in the top right corner and log in again to continue.

Childhood Cohort Scenarios

1. Search for your recently created facility using name or VFC PIN in the top header search box and select it.
2. Choose Coverage under Childhood from the left navigation bar.
3. Confirm that top summary graph displays

Up-To-Date	50%	6/12 Patients
Late-Up-To-Date	16.67%	2/12 Patients
Missed Opportunities	41.67%	5/12 Patients

Remember that Hep A, Rotavirus and Influenza do not contribute to the summary graph.

4. Individual Antigen Graph should display the following:

MMR	VAR
91.67% Up-To-Date (UTD) 11/12 Patients	83.33% Up-To-Date (UTD) 10/12 Patients
0 % Late Up-To-Date 0/12 Patients	0 % Late Up-To-Date 0/12 Patients
0% Missed Opportunities 0/12 Patients	16.67% Missed Opportunities 2/12 Patients
2 HEP A	3 POLIO
83.33% Up-To-Date (UTD) 10/12 Patients	75% Up-To-Date (UTD) 9/12 Patients

16.67% Late Up-To-Date 2/12 Patients	0 % Late Up-To-Date 0/12 Patients
0% Missed Opportunities 0/12 Patients	25% Missed Opportunities 3/12 Patients
4 DTaP	HEP B
100% Up-To-Date (UTD) 12/12 Patients	83.33% Up-To-Date (UTD) 10/12 Patients
0 % Late Up-To-Date 0/10 Patients	0 % Late Up-To-Date 0/12 Patients
0% Missed Opportunities 0/12 Patients	16.67% Missed Opportunities 2/12 Patients
HIB	PCV
91.67% Up-To-Date (UTD) 11/12 Patients	75% Up-To-Date (UTD) 9/12 Patients
0 % Late Up-To-Date 0/12 Patients	0% Late Up-To-Date 0/12 Patients
8.33% Missed Opportunities 1/12 Patients	25% Missed Opportunities 3/12 Patients
ROTAVIRUS	
91.67% Up-To-Date (UTD) 11/12 Patients	0% Missed Opportunities 0/12 Patients
0 % Late Up-To-Date 0/12 Patients	

6. Confirm table view contains same data as graph display.
7. Select Patient List report from left navigation bar and export the Full List to xls or csv
8. Full list should contain the names of patients created the first day (Recall that onscreen lists are truncated and may require export to see the entire list.)
9. Choose Missed Opportunity report from the drop-down and export the Full List to xls or csv.
10. Confirm the following patients appear on the list with their relevant missed antigens. (Patients will all have Missed Opportunities for Flu.)

Patient B, Hepatitis B

Patient B, Polio

Patient B, PCV

Patient E, Polio

Patient F, Polio

Patient F, Hep B

Patient F, PCV
Patient J, Varicella
Patient J, PCV
Patient L, HIB

11. Choose Invalid Dose report from the drop-down.
12. Confirm the following patient appears on the list with the relevant invalid antigen:

Patient J, Varicella, Live vaccines not administered on same date must be separated by 28 days

Adolescent Cohort Scenarios

1. Search for your recently created facility using name in the top header search box.
2. Choose Coverage under Adolescent from the left navigation bar.
3. Confirm that top summary graph displays

Up-To-Date 33% 4/12 Patients
Late-Up-To-Date 17% 2/12 Patients
Missed Opportunities 25% 3/12 Patients

4. Individual Antigen Graph should display the following:

TDAP	HEP A
91.67% Up-To-Date (UTD) 11/12 Patients	83.33% Up-To-Date (UTD) 10/12 Patients
8.3 % Late Up-To-Date 1/12 Patients	0 % Late Up-To-Date 0/12 Patients
0% Missed Opportunities 0/12 Patients	16.67% Missed Opportunities 2/12 Patients
MMR	VAR
91.67% Up-To-Date (UTD) 11/12 Patients	75% Up-To-Date (UTD) 9/12 Patients
0% Late Up-To-Date 0/12 Patients	0 % Late Up-To-Date 0/12 Patients
8.3 % Missed Opportunities 1/12 Patients	16.67 % Missed Opportunities 2/12 Patients
HEP B	HPV
91.67% Up-To-Date (UTD)	66.67% Up-To-Date (UTD)

11/12 Patients	8/12 Patients
0 % Late Up-To-Date 0/12 Patients	8.3% Late Up-To-Date 1/12 Patients
8.3 % Missed Opportunities 1/12 Patients	16.67% Missed Opportunities 2/12 Patients
MENING	POLIO
66.67% Up-To-Date (UTD) 8/12 Patients	91.67% Up-To-Date (UTD) 11/12 Patients
33.3% Late Up-To-Date 4/12 Patients	0 % Late Up-To-Date 0/12 Patients
0% Missed Opportunities 0/12 Patients	8.3% Missed Opportunities 1/20 Patients

6. Confirm table view contains same data as graph display.
7. Select Patient List report from left navigation bar and export the Full List to csv or xls. Full list should contain the names of patients created the first day, plus Patients M and O. (Recall that onscreen lists are truncated and may require export to see the entire list.)
8. Choose Missed Opportunity report from the drop-down and export to csv and xls.
9. Confirm the following patients appear on the list with their relevant missed antigens. (All patients will have missed opportunities for flu.)

Patient N, HPV

Patient N, MMR

Patient N, Varicella

Patient R, Varicella

Patient S, Hepatitis A

Patient S, Hepatitis B

Patient S, HPV

Patient S, Polio

Patient T, Hepatitis A

10. Choose Invalid Dose report from the drop-down. Confirm the following patients appear on the list with their relevant invalid antigens:

Patient T, Hepatitis A, Minimum interval from previous dose not met

Custom Patient List Scenarios

1. Log in as State/RC user
2. Select Custom from left navigation.
3. Specify your newly created facility by name or VFC PIN
4. Change “as of date” to a date prior to today’s date, within 14 days in the past.
5. Define custom parameters:
 - Age range: 28-33 months
 - Gender: Female
 - Antigens: Varicella
6. Confirm header displays filter selections.
7. Use preview function to run full patient list.
8. Confirm list includes:

Patient B

Patient D

Patient F

Patient H

9. Use reset button to clear all filter selections except Facility name. Change report parameters to:

Your newly created facility by name or VFC PIN

Age range: 14-16 yrs

Gender: Female

Antigen: HPV

10. Confirm header reflects user filter selections.
11. Use preview function to display portion of full patient list.
12. Save and name report.
13. Select saved report from left navigation bar.
14. Select Full Patient List and export to csv or xls.
15. Confirm Full Patient List includes:

Patient S

Patient T

Patient V

16. Select Missed Opportunities Patient List and export to csv or xls.
17. Confirm Missed Opportunities List includes:

Patient S

Manage Reports: Create Groups

(If you do not have any saved Custom Reports, use the Custom create and save one now)

1. Log into SMaRT AFIX as an State/RC user.
 2. Select the “Manage Reports” link from the left taskbar.
 3. Click the “New Group” button. Type a Group Name in the field, then click the “Create” button. Note the “Changes have not been saved” message. Click the “Save Changes” button.
 4. Note your saved Report Templates on the right half of the screen, under the “Unassigned Report Templates” header. Use the mouse to drag-and-drop one of these to your new Group. Click “Save Changes.” Note that your saved Custom Report is no longer displayed on the left taskbar, but that the newly-created Group appears. Click the arrow next to the Group Name in the left taskbar. Note that the report name appears below it.
 5. Click the three buttons in the Group Name. Select “Delete Group.” Click “Save Changes.” Observe that the group is deleted, but the report returns to the Unassigned Report Templates section.
-

AFIX Export Scenario: Childhood

1. Log into SMaRT AFIX as an State/RC user.
2. Enter your Facility in the top Search bar.
3. Select “AFIX Export” and “Childhood” from the left taskbar.
4. The “Childhood AFIX Export” table will display. Observations: The header will display the name and pin for your Facility. The sub-header will display the following:

Childhood Cohort

Visit type: ChildOnly

4 DTAP, 3 POLIO, 1 MMR, UTD HIB, UTD HEP B, 1 VAR, UTD PCV, UTD ROTAVIRUS, 1 FLU, 2 HEP A,
4:3:1:3:3:1:4

Vaccines	Up to Date	Missed Opportunities
4 DTAP	100.00% (12/12)	0.00% (0/12)
3 POLIO	75.00% (9/12)	25.00% (3/12)
1 MMR	91.67% (11/12)	0.00% (0/12)
UTD HIB	91.67% (11/12)	8.33% (1/12)
UTD HEP B	83.33% (10/12)	16.67% (2/12)
1 VAR	83.33% (10/12)	16.67% (2/12)
UTD PCV	75.00% (9/12)	25.00% (3/12)
UTD ROTAVIRUS	91.67% (11/12)	0.00% (0/12)
1 FLU		
2 HEP A	83.33% (10/12)	16.67% (2/12)
4:3:1:3:3:1:4	50.00% (6/12)	41.67% (5/12)

5. Print the Childhood AFIX Report. The report data will display the same in the printout, but will contain Filtering info in the page header, including:
 - Provider Name/ VFC PIN: (Your Provider/PIN)
 - Selected Cohort: Child only | Ages Assessed 24 to 35 months
 - Assessment Date: (Today's Date)
 - Compliance by age: 24 months
 - As of Date
6. Export the Childhood AFIX Report as a pdf. Using the export button at the top of the page will export a pdf version of the on screen display.
7. Export the Childhood AFIX Report for reporting to the CDC AFIX Online Tool.
8. Observe that the export button below the table is not possible until the user has clicked the acknowledgment: "I acknowledge that this page is complete, and all responses are final."
9. Observe that an xml export downloads when the button below the acknowledgement has been checked.

AFIX Export Scenario: Adolescent

1. Log into SMaRT AFIX as an State/RC user.
2. Enter your Facility in the top Search bar.
3. Select "AFIX Export" and "Adolescent" from the left taskbar.
4. Observe the header displays the name and pin for your Facility and the sub-header displays the following:

Adolescent Cohort

Visit Type: AdolescentOnly (13-17 Years Old)

Adolescent Antigens: UTD HEP B, 2 MMR, 2 VAR, 1 Tdap, 1 MENING, UTD HPV, 1 HPV, 1 FLU, 2 HEP A, UTD POLIO

Vaccines	Up to Date	Missed Opportunities
UTD HEP B	91.67% (11/12)	8.33% (1/12)
2 MMR	91.67% (11/12)	8.33% (1/12)
2 VAR	75.00% (10/12)	16.67% (2/12)
1 TDAP	91.67% (11/12)	0.00% (0/12)
1 MENING	66.67% (8/12)	0.00% (0/12)
UTD HPV	66.67% (8/12)	16.67% (2/12)
1 HPV	83.33% (10/12)	16.67% (2/12)
1 FLU		
2 HEP A	83.33% (10/12)	16.67% (2/12)
UTD POLIO	91.67% (11/12)	8.33% (1/12)

4. Print the Adolescent AFIX Report and observe the report data and filtering, including:
 - Provider Name/ VFC PIN: (Your Provider/PIN)

Selected Cohort: Adolescent Only | Ages Assessed 13 to 17 years

Assessment Date: (Today's Date)

Compliance by Date: 13 years

As of Date

5. Export the Adolescent AFIX Report as a pdf: Using the export button at the top of the page will export a pdf version of the on screen display.
6. Export the Adolescent AFIX Report for reporting to the CDC AFIX Online Tool.
7. Observe that the export button below the table is not possible until the user has clicked the acknowledgment: "I acknowledge that this page is complete, and all responses are final."
8. Observe that an xml export downloads when the button below the acknowledgement has been checked.

AFIX Export Scenarios: Childhood and Adolescent

1. Log into SMaRT AFIX as an State/RC user.
2. Enter your Facility in the top Search bar.
3. Select "AFIX Export" and "Childhood & Adolescent" from the left taskbar. The "Childhood AFIX Export" table will display, followed by the "Adolescent Export Table".
4. Observe the header displays the name and pin for your Facility.
5. Observe the sub-header displays the following:

Visit type: All

Childhood Antigens: 4 DTAP, 3 POLIO, 1 MMR, UTD HIB, UTD HEP B, 1 VAR, UTD PCV, UTD ROTAVIRUS, 1 FLU, 2 HEP A, 4:3:1:3:3:1:4

Adolescent Antigens: UTD HEP B, 2 MMR, 2 VAR, 1 Tdap, 1 MENING, UTD HPV, 1 HPV, 1 FLU, 2 HEP A, UTD POLIO

Childhood Cohort

Visit type: ChildOnly

4 DTAP, 3 POLIO, 1 MMR, UTD HIB, UTD HEP B, 1 VAR, UTD PCV, UTD ROTAVIRUS, 1 FLU, 2 HEP A, 4:3:1:3:3:1:4

Vaccines	Up to Date	Missed Opportunities
4 DTAP	100.00% (12/12)	0.00% (0/12)
3 POLIO	75.00% (9/12)	25.00% (3/12)
1 MMR	91.67% (11/12)	0.00% (0/12)
UTD HIB	91.67% (11/12)	8.33% (1/12)
UTD HEP B	83.33% (10/12)	16.67% (2/12)
1 VAR	83.33% (10/12)	16.67% (2/12)
UTD PCV	75.00% (9/12)	25.00% (3/12)
UTD ROTAVIRUS	91.67% (11/12)	0.00% (0/12)
1 FLU		
2 HEP A	83.33% (10/12)	16.67% (2/12)

4:3:1:3:3:1:4	50.00% (6/12)	41.67% (5/12)
Vaccines	Up to Date	Missed Opportunities
UTD HEP B	91.67% (11/12)	8.33% (1/12)
2 MMR	91.67% (11/12)	8.33% (1/12)
2 VAR	75.00% (10/12)	16.67% (2/12)
1 TDAP	91.67% (11/12)	0.00% (0/12)
1 MENING	66.67% (8/12)	0.00% (0/12)
UTD HPV	66.67% (8/12)	16.67% (2/12)
1 HPV	83.33% (10/12)	16.67% (2/12)
1 FLU		
2 HEP A	83.33% (10/12)	16.67% (2/12)
UTD POLIO	91.67% (11/12)	8.33% (1/12)

4. Print the Childhood and Adolescent AFIX Report and observe the report data and filtering includes:
 - Provider Name/ VFC PIN: (Your Provider/PIN)
 - Selected Cohort: All
 - Assessment Date: (Today's Date)
 - As of Date
5. Export the Childhood and Adolescent AFIX Report as a pdf.
6. Export the Childhood and Adolescent AFIX Report for reporting to the CDC AFIX Online Tool.
7. Observe that the export button below the table is not possible until the user has clicked the acknowledgment: "I acknowledge that this page is complete, and all responses are final."
8. Observe that an xml export downloads when the button below the acknowledgement has been checked.

Provider Group Access Scenarios

1. Log into SMaRT AFIX as an State/RC user with Access Manager Users Page role.
2. Click on the avatar in the upper right corner and select "Manage Provider Groups".
3. Click the "Create New" button (to the right of the search field and button).
4. On the Add/Edit Provider Group page that opens, under the Modify Provider Group heading, enter the new provider group name in the Provider Group Name field.
5. Add at least one facility to the group and click "Save".
6. Locate your newly created Provider Group in the list, then click "Edit" button.
7. Make changes to the group by renaming the group or adding and save.
8. Select a provider group in the list and then click the Add User button
9. Search for a user by name, add the user to the provider group and save.
10. Select export icon in lower left corner and observe exported report of users and associated facilities.

11. Log out.
 12. Log back in as the State/RC user with Provider Group access role
 13. Ensure user can access Master Rate Comparison from left navigation menu.
 14. Ensure user can specify a facility from the previously assigned Provider Group in the search bar by name or VFC PIN
 15. Ensure user can access coverage rate reports for a facility from the assigned Provider Group
 16. Ensure user can access patient lists for a facility from the assigned Provider Group.
 17. Ensure user can access AFIX Export from the left taskbar.
 18. Clear facility selection from search bar.
 19. Enter name or VFC PIN for facility which is not part of the Provider Group.
 20. Ensure user is unable to access coverage rates or patient lists for the selected facility.
-

Day 4 Summary

- **You have confirmed the Childhood and Adolescent assessments are based upon patients with active status for the relevant facility using the Patient List.**
 - **You have viewed Childhood and Adolescent Coverage Reports, confirming the calculations are as expected based on your test data, including the addition of new patients, new vaccines, immunity and contraindications.**
 - **You have viewed the list of Patients with Missed Opportunities and Invalid doses and cross-referenced with the Test Data Set.**
 - **You have tested Custom Patient Lists, confirming the list contains expected patients.**
 - **You have used Manage Reports to organize your custom templates.**
 - **You have tested the Childhood and Adolescent AFIX Report Export needed to upload to the CDC AFIX Online Tool.**
 - **You have tested the Provider Group functionality to ensure broad access to all functionality is enabled and data is limited to the facilities associated with a Provider Group user.**
-

Childhood Cohort Test Data Set

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
25 mos, 10 days	Patient	A	Male	DTaP	3 mos	5 mos, 1 wk	10 mos	16 mos	UTD
	Patient	A		IPV	3 mos	5 mos, 1 wk	9 mos		UTD
	Patient	A		MMR	13 mos				UTD
	Patient	A		Hib PRP-T	3 mos	5 mos, 1 wk	9 mos	12 mos, 3 wks	UTD
	Patient	A		Varicella	Same day as MMR				UTD
	Patient	A		Hep B	2 mos, 1 wk	4 mos	9 mos		UTD
	Patient	A		PCV13	3 mos	5 mos, 1 wk	9 mos	14 mos, 3 wks	UTD
	Patient	A		Hep A	15 mos	21 mos, 1 wk			UTD
	Patient	A		RV5	2 mos, 1 wk	4 mos	6 mos		UTD
26 mos	Patient	B	Female	DTaP	2 mos, 2 wks	4 mos, 2 wks	7 mos	14 mos	UTD
	Patient	B		IPV	2 mos, 2 wks	6 mos			MO
	Patient	B		MMR	12mos, 1 wk				UTD
	Patient	B		Hib PRP-T	2 mos, 2 wks	5 mos	8 mos	12 mos	UTD
	Patient	B		Varicella	Same day as MMR				UTD
	Patient	B		Hep B	Birth dose	2 mos, 1 wk			MO
	Patient	B		PCV13	2 mos	4 mos, 2 wks	7 mos		MO
	Patient	B		Hep A	14 mos	20 mos, 2 wks			UTD
	Patient	B		RV5	2 mos	4 mos, 2 wks	6 mos		UTD
27 mos, 1 wk	Patient	C	Male	DTaP	5 mos	7 mos, 1 wk	9 mos, 2 wks	17 mos	UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	C		IPV	5 mos	7 mos, 1 wk	9 mos, 2 wks		UTD
	Patient	C		MMR	15 mos				UTD
	Patient	C		Hib PRP-T	5 mos	7 mos, 1 wk	9 mos, 2 wks	16 mos	UTD
	Patient	C		Varicella	Same day as MMR				UTD
	Patient	C		Hep B	3 mos	5 mos, 1 wk	10 mos		UTD
	Patient	C		PCV13	5 mos	7 mos, 1 wk	9 mos, 2 wks	16 mos	UTD
	Patient	C		Hep A	17 mos				Not UTD No MO
	Patient	C		RV5	2 mos	4 mos	6 mos		UTD
28 mos	Patient	D	Female	DTaP	2 mos, 1 wk	4 mos, 2 wks	7 mos		MO
	Patient	D		IPV	2 mos, 1 wk	4 mos, 2 wks	7 mos		UTD
	Patient	D		MMR	13 mos				UTD
	Patient	D		Hib PRP-T	2 mos, 1 wk	4 mos, 2 wks	7 mos		MO
	Patient	D		Varicella	Same day as MMR				UTD
	Patient	D		Hep B	4 days	2 mos, 1 wk	6 mos, 2 wks		UTD
	Patient	D		PCV13	2 mos, 1 wk	4 mos, 2 wks	7 mos		MO
	Patient	D		Hep A	14 mos	20 mos, 2 wks			UTD
	Patient	D		RV5	2 mos	4 mos	6 mos		UTD
28 mos, 2 wks	Patient	E	Male	DTaP	2 mos, 1 wk	4 mos, 2 wks	7 mos	13 mos, 2 wks	UTD
	Patient	E		IPV	2 mos, 2 wks	4 mos, 2 wks			MO
	Patient	E		MMR	13 mos				UTD
	Patient	E		Hib PRP-OMP	2 mos, 2 wks	5 mos	14 mos		UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	E		Varicella	Same day as MMR				UTD
	Patient	E		Hep B	2 wks	2 mos, 2 wks	9 mos, 2 wks		UTD
	Patient	E		PCV13	2 mos, 1 wk	4 mos, 2 wks	7 mos	14 mos, 3 wks	UTD
	Patient	E		Hep A	14 mos	20 mos, 2 wks			UTD
	Patient	E		RV1	2 mos, 1 wk	4 mos, 2 wks			UTD
29 mos	Patient	F	Female	DTaP	2 mos, 2 wks	4 mos, 2 wks	7 mos	14 mos	UTD
	Patient	F		IPV	2 mos, 2 wks	6 mos			MO
	Patient	F		MMR	12 mos, 1 week				UTD
	Patient	F		Hib PRP-OMP	2 mos, 2 wks	4 mos, 2 wks	12 mos		UTD
	Patient	F		Varicella	Same day as MMR #1				UTD
	Patient	F		Hep B	Birth dose	2 mos, 1 wk			MO
	Patient	F		PCV13	2 mos	4 mos, 2 wks	7 mos		MO
	Patient	F		Hep A	14 mos	20 mos, 2 wks			UTD
	Patient	F		RV1	2 mos	4 mos, 2 wks			UTD
29 mos, 2 wks	Patient	G	Male	DTaP/IPV/Hep B	2 mos	4 mos, 2 wks	7 mos		UTD
	Patient	G		DTaP				15 mos	
	Patient	G		MMR					MO
	Patient	G		Hib PRP-T	2 mos	4 mos, 2 wks	7 mos	13 mos	UTD
	Patient	G		Varicella					MO
	Patient	G		PCV13	2 mos	4 mos, 2 wks	6 mos	13 mos	UTD
	Patient	G		Hep A	14 mos	20 mos, 2 wks			UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status	
	Patient	G		RV5	2 mos	4 mos	6 mos		UTD	
30 mos	Patient	H	Female	DTaP/IPV/ Hep B	2 mos	4 mos	6 mos, 2 wks		UTD	
	Patient	H		DTaP			15 mos, 2 wks			
	Patient	H		MMR	14 mos					UTD
	Patient	H		Hib PRP-T	4 mos	6 mos, 2 wks	9 mos	12 mos		UTD
	Patient	H		Varicella	Same day as MMR #1					UTD
	Patient	H		PCV13	2 mos	4 mos	6 mos, 2 wks	12 mos		UTD
	Patient	H		Hep A	16 mos	25 mos				LUTD
	Patient	H		RV5	2 mos	4 mos	7 mos			UTD
31 mos	Patient	I	Male	DTaP/IPV/ Hep B	2 mos	4 mos	6 mos, 2 wks		UTD	
	Patient	I		DTaP			16 mos			
	Patient	I		MMR	12 mos					UTD
	Patient	I		Hib PRP-T	4 mos	6 mos, 2 wks	9 mos	14 mos		UTD
	Patient	I		Varicella	Same day as MMR #1					UTD
	Patient	I		PCV13	4 mos	6 mos, 2 wks	9 mos	14 mos		UTD
	Patient	I		Hep A	12 mos	19 mos				UTD
	Patient	I		RV1	2 mos	4 mos				UTD
32 mos	Patient	J	Female	DTAP/IPV/ Hib	2 mos	4 mos, 2 wks	7 mos		UTD	
	Patient	J		DTaP			15 mos			
	Patient	J		MMR	14 mos					UTD
	Patient	J		Hep B	Birth dose	4 mos, 2 wks	7 mos			UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	J		Hib PRP-T				15 mos	UTD
	Patient	J		Varicella	14 mos (10 days after MMR Dose #1)				INVALID MO
	Patient	J		PCV13	2 mos	4 mos, 2 wks	7 mos		MO
	Patient	J		Hep A	16 mos	25 mos			LUTD
	Patient	J		RV5	2 mos	4 mos, 2 wks	6 mos		UTD
33 mos	Patient	K	Male	DTAP/IPV/Hib	2 mos	4 mos, 2 wks	6 mos		UTD
	Patient	K		DTaP				15 mos	UTD
	Patient	K		MMR	13 mos				UTD
	Patient	K		Hib PRP-T				15 mos	UTD
	Patient	K		Varicella	Same day as MMR #1				UTD
	Patient	K		Hep B	Birth dose	6 mos	13 mos		UTD
	Patient	K		PCV13	2 mos	4 mos, 2 wks	6 mos	13 mos	UTD
	Patient	K		Hep A	14 mos	20 mos			UTD
	Patient	K		RV5	2 mos	4 mos, 2 wks	6 mos		UTD
34 mos	Patient	L	Male	DTaP	2 mos	4 mos, 2 wks	7 mos	15 mos	UTD
	Patient	L		IPV	2 mos	4 mos, 2 wks	7 mos		UTD
	Patient	L		MMR	12 mos				UTD
	Patient	L		Hib PRP-T	2 mos	4 mos, 2 wks			MO
	Patient	L		Varicella	Same day as MMR #1				UTD
	Patient	L		Hep B	Birth dose	2 mos	7 mos		UTD
	Patient	L		PCV13	2 mos	4 mos, 2 wks	7 mos	15 mos	UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	L		Hep A	12 mos	19 mos			UTD
	Patient	L		RV5	2 mos	4 mos, 2 wks			Not UTD No MO

Adolescent Cohort Test Data Set

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
13 yrs, 1 mos	Patient	N	Male	Tdap	11 years				UTD
	Patient	N		Hep A	24 mos	32 mos			UTD
	Patient	N		MMR	15 mos				MO
	Patient	N		Varicella					MO
	Patient	N		Hep B	2 mos	4 mos	9 mos		UTD
	Patient	N		HPV9					MO
	Patient	N		MCV4	11 yrs				UTD
	Patient	N		IPV	2 mos	4 mos	18 mos	5 yrs	UTD
13 yrs, 2 mos	Patient	O	Female	Tdap	11 yrs				UTD
	Patient	O		Hep A	12 mos	18 mos			UTD
	Patient	O		MMR	12 mos	4 yrs			UTD
	Patient	O		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	O		Hep B	Birth dose	2 mos	6 mos		UTD
	Patient	O		HPV9	10 yrs	11 yrs	12 yrs		UTD
	Patient	O		MCV4	10 yrs				UTD
	Patient	O		IPV	2 mos	3 mos	6 mos	10 mos	UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
13 yrs, 3 mos	Patient	P	Male	Tdap	11 yrs				UTD
	Patient	P		Hep A	24 mos	32 mos			UTD
	Patient	P		MMR	12 mos				UTD
	Patient	P		Varicella	12 mos, same day as MMR #1				
	Patient	P		MMRV		4 yrs			UTD
				Hep B	Birth	2 mos	6 mos		
	Patient	P		HPV9	10 yrs	12 yrs			UTD
	Patient	P		MCV4	12 yrs				UTD
	Patient	P		DTaP/IPV/Hib	2 mos, 1 wk	4 mos, 2 wks	7 mos		UTD
	Patient	P		DTaP/IPV				4 yrs	
13 yrs, 6 mos	Patient	Q	Female	Tdap	11 yrs				UTD
	Patient	Q		Hep A	30 mos	4 yrs			UTD
	Patient	Q		MMR	12 mos	5 yrs			UTD
	Patient	Q		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	Q		Hep B	Birth dose	8 weeks	6 mos		UTD
	Patient	Q		HPV9	12 yrs, 1 week	12 yrs, 3 mos	12 yrs, 8 mos		UTD
	Patient	Q		MCV4	10 yrs				UTD
	Patient	Q		IPV	3 mos	6 mos	12 mos	4 yrs	UTD
14 yrs	Patient	R	Male	Tdap	10 yrs				UTD
	Patient	R		Hep A	24 mos	32 mos			UTD
	Patient	R		MMR	12 mos	5 yrs			UTD
	Patient	R		Varicella	12 mos, same day as MMR #1				MO
	Patient	R		Hep B	6 mos	8 mos	13 mos		UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	R		HPV9	9 yrs, 10 mos	10 yrs, 5 mos	10 yrs, 10 mos		UTD
	Patient	R		MCV4	10 yrs, 11 mos				UTD
	Patient	R		IPV	4 mos	6 mos	12 mos	10 yrs	UTD
14 yrs, 6 mos	Patient	S	Female	Tdap	11 yrs				UTD
	Patient	S		Hep A	4 yrs				MO
	Patient	S		MMR	12 mos	5 yrs			UTD
	Patient	S		Varicella	Same day as MMR #2				MO
	Patient	S		Hep B					MO
	Patient	S		HPV9					MO
	Patient	S		MCV4	13 yrs, 1 week				LUTD
	Patient	S		IPV	4 yrs				MO
14 yrs, 8 mos	Patient	T	Female	Tdap	10 yrs				UTD
	Patient	T		Hep A	5 yrs	5 days after Hep A #1			Invalid Dose MO
	Patient	T		MMR	12 mos	6 yrs			UTD
	Patient	T		Varicella	4 yrs	Same Day as MMR #2			UTD
	Patient	T		Hep B	1 week	5 wks	6 mos		UTD
	Patient	T		HPV9	9 yrs, 1 mos	9 yrs, 9 mos	10 yrs, 4 mos		UTD
	Patient	T		MCV4	14 yrs				LUTD
	Patient	T		IPV	2 mos, 1 wk	6 mos	12 mos	4 yrs	UTD
14 yrs, 8 mos	Patient	U	Male	Tdap	11 yrs				UTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	U		Hep A	12 mos	20 mos			UTD
	Patient	U		MMR	12 mos	5 years, 6 mos			UTD
	Patient	U		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	U		Hep B	Birth dose	2 mos	6 mos		UTD
	Patient	U		HPV9	11 yrs	11 yrs, 8 mos			UTD
	Patient	U		MCV4	11 yrs, 6 mos				UTD
	Patient	U		IPV	2 mos	4 mos	6 mos	5 yrs, 6 mos	UTD
15 yrs, 2 mos	Patient	V	Female	Tdap	13 yrs, 2 mos				LUTD
	Patient	V		Hep A	2 yrs	6 yrs			UTD
	Patient	V		MMR	12 mos	6 yrs			UTD
	Patient	V		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	V		Hep B	1 week	5 wks	6 mos		UTD
	Patient	V		HPV9	13 yrs, 2 mos				Not UTD No MO
	Patient	V		MCV4	13 yrs, 2 mos				LUTD
	Patient	V		IPV	2 mos, 1 wk	6 mos	12 mos	4 yrs	UTD
16 years, 1 mo	Patient	W	Male	Tdap	11 yrs				UTD
	Patient	W		Hep A	12 mos	5 yrs			UTD
	Patient	W		MMR	12 mos	5 yrs			UTD
	Patient	W		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	W		Hep B	Birth dose	4 mos	5 yrs		UTD
	Patient	W		HPV9	15 yrs	15 yrs, 2 mos	16 yrs, 1 mo		LUTD

For DOB, calculate age "as of today"	First	Last	Gender	Vaccine	Dose 1	Dose 2	Dose 3	Dose 4	Status
	Patient	W		MCV4	16 yrs, 1 mo				LUTD
	Patient	W		IPV	2 mos	4 mos	6 mos	5 yrs	UTD
16 yrs, 4 mos	Patient	X	Female	Tdap	11 yrs				UTD
	Patient	X		Hep A	12 mos	18 mos			UTD
	Patient	X		MMR	12 mos	5 yrs			UTD
	Patient	X		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	X		Hep B	Birth dose	2 mos	1 yr		UTD
	Patient	X		HPV9	11 yrs	11 yrs, 2 mos	12 yrs, 1 mos		UTD
	Patient	X		MCV4	11 yrs, 2 mo				UTD
	Patient	X		IPV	2 mos	4 mos	6 mos	5 yrs	UTD
15 years, 1 mo	Patient	Y	Male	Tdap	12 yrs				UTD
	Patient	Y		Hep A	12 mos	5 yrs			UTD
	Patient	Y		MMR	12 mos	5 yrs			UTD
	Patient	Y		Varicella	Same day as MMR #1	Same day as MMR #2			UTD
	Patient	Y		Hep B	Birth dose	4 mos	12 mos		UTD
	Patient	Y		HPV9	12 yrs	12 yrs, 2 mos	12 yrs, 8 mos		UTD
	Patient	Y		MCV4	12 yrs				UTD
	Patient	Y		IPV	2 mos	4 mos	6 mos	5 yrs	UTD