AFIX-IIS Coverage Report Integration

AIRA 2015 National Meeting
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CDC - Motivation for this project

- CoCASA retirement
- Expanding IIS functionality to accommodate AFIX
- Single reference source to ensure consistent reporting of coverage assessment results across jurisdictions

CDC – What's already occurred

- May 19-22, 2014 AFIX-IIS SME meeting
 - 8 awardee projects
 - 3 largest IIS vendors
 - CDC program experts
 - AIRA and independent contractors of AIRA
 - AIM
- Phase I document

Benefits of integration

AFIX

- Access to an increased amount of data ability to assess 100% of the provider records
- Time savings in generating reports directly from the IIS no manual data entry or export/import step

IIS

- AFIX interactions with providers to increase participation and reporting
- Improved data quality resulting from AFIX assessments

Providers

- Ability to update patient lists and review missing data prior to official AFIX assessment
- Periodic informational assessments
- Improved clinical decision support through increased participation and reporting

Project Overview

- Transitioning AFIX assessment reports from CoCASA to IIS
- Two (2) project development phases
 - Phase I Required (Assessment)
 - Phase 2 Optional/Recommended (Assessment)
- Operational and Technical Guidance being created for use by awardees
 - Operational: How will the IIS be used to support AFIX efforts?
 - Technical:What technical elements should be employed by IIS to produce the necessary reports?

Project Dynamics

- Project Sponsor: CDC POB AFIX and IISSB
- Project Contractor: American
 Immunization Registry Association (AIRA)
- Project Partner: Association of Immunization Managers (AIM)
- Subject Matter Experts: FL, KS, MI, MN, NYC, OR, WA, WI, STC, HP, Envision



General - Requirements

- AFIX awardees will be required to leverage their Immunization Information Systems (IIS) to perform provider level assessment activities.
- IIS must be able to perform the minimum/mandatory reporting requirements to support the AFIX workflow.
- The IIS must apply all business rules for identifying the assessment cohort (denominator), applying the assessment criteria (numerator), and performing the calculation logic.



Provider Selection - Requirements

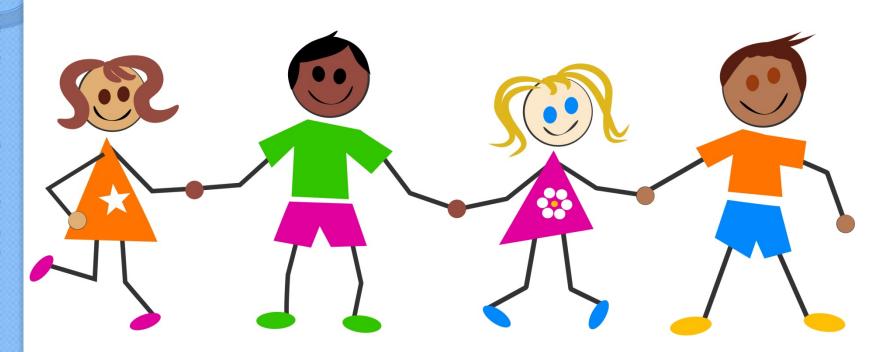
- The VFC Pin number will be the primary identifier for linking the provider in the IIS with the provider in the AFIX Online Tool.
- AFIX awardees must prioritize at least ½
 of their annually recommended AFIX
 visits from providers with coverage rates
 in the bottom quartile.

Provider Selection – Best Practice Recommendations

- AFIX awardees should use a systematic approach to identify providers with low coverage rates by leveraging the IIS.
- AFIX awardees should conduct periodic courtesy assessment for providers in their jurisdiction.

Provider Participation – Best Practice Recommendations

- AFIX and IIS staff should work together to develop and apply strategies to increase provider participation and reporting.
- AFIX awardees should leverage pre-visit assessment activities as an opportunity for providers to review active patient lists and address data quality issues.
- VFC providers should be given appropriate permissions in the IIS to generate their own periodic assessments.



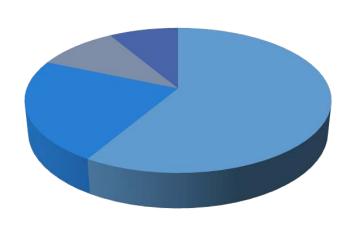
Patient Selection - Requirements

- Assessment age ranges must be defined as 24 through 35 months for childhood assessments and 13 through 17 years for adolescent assessments.
- The IIS must be able to identify active patients of the assessed provider.
- The assessment will include 100% of the patients in the specified age cohort that have an active status with the provider (denominator).

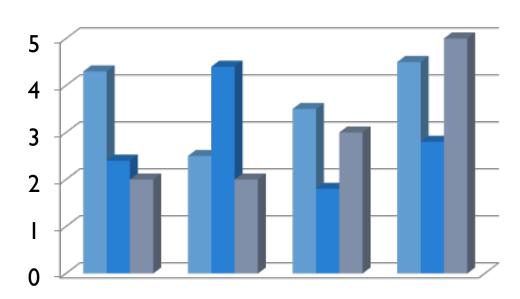
Patient Selection Best Practice Recommendations

 Providers should have the ability to edit the patient active status value when needed.

Assessment



- $(1) \quad \widehat{Y}_{\iota} = \ b_0 + b_1 X_{\iota}$
- $(2) \quad b_0 = \overline{Y} b_1 \overline{X}$
- $(3) \quad b_1 = \frac{\sum x_i y_i}{\sum x_i^2}$
- $(4) \quad x_i = X_i \overline{X}$
- $(5) \quad y_i = Y_i \overline{Y}$
- (6) $\overline{X} = average \ of \ X_i \ data \ points$
- (7) $\overline{Y} = average \ of \ Y_i \ data \ points$



Assessment Criteria - Requirements

- Patient compliance will be assessed at 24 months/2nd birthday for childhood assessments.
- Patient compliance will be assessed on the date of assessment for adolescents.
- IIS will assess patient compliance with the specified AFIX measurements according to the provided calculation logic.

Measurements - Childhood

- 4 DTaP* (%)
- 3 Polio* (%)
- I MMR* (%)
- UTD HIB* (%)
- UTD Hep B* (%)
- I VAR* (%)
- UTD PCV* (%)
- UTD RV (%)
- I Influenza (%) (note: previously completed flu season)
- 2 Hep A (%)
- *4:3:1:3:3:1:4 (%) Series

Measurements - Adolescent

- UTD Hep B (%)
- 2 MMR (%)
- 2 VAR (%)
- I Tdap (%)
- UTD Meningococcal (%)
- 3 HPV (%) (complete with 3 valid doses)
- 2 HPV (%) (in progress with 2+ valid doses)
- I HPV (%) (have started the series with I + valid doses)
- I Influenza (%) (note: previously completed flu season)
- 2 Hep A (%)
- UTD Polio (%)

Other Assessment Requirements

- IIS will adopt and apply AFIX assessment date concepts for establishing report parameters used to derive the assessment cohort birthdate range and benchmarks/timeframes for vaccination status assessment.
- Only valid vaccinations will be counted towards the coverage calculations and missed opportunities assessment.
- Missed Opportunities calculations will be based on the last immunization visit.

Assessment – Best Practice Recommendations

- IIS should apply their full forecasting/evaluation algorithm for both the recommended and catch up schedules when making coverage/missed opportunity determinations.
- IIS should leverage CDSi resources when defining forecasting/evaluation algorithms.



Requirements for Operationalizing

- Providers prioritized for an annual AFIX visit should receive an initial assessment/feedback visit and a 6-month follow up assessment.
- Results of both the initial and the follow up assessment must be reported to the AFIX Online Tool.

Best Practice Recommendations

- Prioritized providers should be provided with a pre-visit assessment to review the active patient list and address any data quality issues prior to the official assessment.
- AFIX awardees should offer periodic courtesy assessments to all VFC providers within their jurisdictions regardless of whether they have been identified for a visit.

Best Practice Recommendations

- The new assessment report(s) should be made available to a variety of user types.
- The IIS should offer the ability to print, save and/or generate an export of the report results.
- AFIX awardees should plan to run reports for assessment/feedback visits in advance of the visit (≤ 7 days) to avoid any possible IIS processing challenges that may be encountered when generating the large, complex reports.

General Recommendation

• IIS awardees and their vendors may leverage the Technical Design Specification that includes suggestions on implementation considerations for generating the required report(s).



CDC – What's next

- Phase II
- June 30 July 2 AFIX-IIS SME meeting
 - 9 awardee projects
 - 3 largest IIS vendors
 - CDC program experts
 - AIRA and independent contractors of AIRA
 - AIM
- Timeline's
- Resources and support plan

QUESTIONS?

For more information:

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