AFIX-IIS Coverage Report Integration

Presented by

Danielle Reader-Jolley

AIRA Independent Consultant

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
- Phased development approach…

Phase 1(Required)…

- Required development for reporting to CDC AFIX Online Tool
  - IIS Childhood and Adolescent Coverage Rates and Missed Opportunities
  - AFIX Online Tool – reporting of individual provider assessment results
  - AFIX Annual Report – automated tabulation through AFIX Online Tool

Childhood Measures
(24-35 m @ 24 months)

- 4 DTaP* (%)
- 3 IPV* (%)
- 1 MMR* (%)
- Completed HIB* (%)
- 3 Hep B* (%)
- 1 VAR* (%)
- Completed PCV13* (%)
- Completed RV (%)
- Completed Flu (%) (note: previously completed flu season)
- 2 Hep A (%)
- *4:3:1:3:3:1:4 (%) Series

Adolescent Measures
(13-17 yrs @ time of assessment)

- Completed Hep B (%)
- 2 MMR (%)
- 2 VAR (%)
- 1 Tdap (%)
- Completed MCV4† (%)
- 3 HPV (%) (number that *complete* the series)
- 2 HPV (%) (number *in progress* for the series)
- 1 HPV (%) (number that *start* the series)
- 1 Flu (%) (*note: previously completed flu season*)
- 2 Hep A (%)
- 3 Polio (%)

Phase 2 (Optional)…

- Optional provider reports used for AFIX feedback activities
  - Patient listings
  - Additional data granularity
  - Graphical displays
- Best practices for using data and providing feedback
- Applicable operational and technical guidance

Phase 1:
Collaboration &
Guidance Documents

SME Meeting

- Facilitated collaborative decision making
- May 2014 in Decatur, GA
- SME panel included:
  - 8 awardees (AFIX/IIS Teams)
  - 3 major IIS vendors
  - AIM and AIRA
  - CDC

How SMEs Were Selected…

- IIS Maturity
- Current abilities of IIS to generate coverage reports
- Geographic diversity
- Variety of IIS vendors/platforms
  - 3 big systems
  - Homegrown
- Different legal/mandatory reporting requirements

Purpose of Collaboration

- Develop consensus-based recommendations to CDC for integrating coverage assessment functionality into IIS and standardized reporting to AFIX
  - Operational: How will the IIS be used to support AFIX coverage assessment efforts?
  - Technical: What technical elements should be employed by IIS to produce the required coverage report(s)?

Operational

- Leveraging the IIS to identify providers in need of a visit
- Using the IIS to select the assessment cohort and ensure that we are assessing the patients that most accurately reflect/represent those patients under the care of the provider
- Defining what is being assessed, and any variations (IIS or AFIX) that may produce non-standardized results
- Identifying who should be able to run these reports, how often should they be run, and whether the IIS needs to store the results

Technical Requirements

- Using the IIS to identify and select provider sites for assessment

- Defining the appropriate cohort in the IIS

- Selecting the vaccinations to be assessed

- Using CDSi for dose validity and series completion determinations

- Calculation logic for coverage and missed opportunities

Other

- Identifying the primary focus areas of the Phase 2 effort

- Discussing Best Practices:
  - How should the transition to the IIS coverage reports be facilitated?
  - When is an Immunization Program ready to cease use of CoCASA and begin relying solely on the IIS for coverage assessments?

Operational Excerpts

Providers

- Using VFC Pin to uniquely identify and match a provider for AFIX purposes
- Using IIS to identify providers for annual AFIX visits
  - Identifying under performers
    - *Target ½ of the recommended 25% from this group for annual visits*
  - Identifying high volume providers
- Strategies for improving provider participation and data quality in the IIS

Patients

- Identifying which patients belong to a provider in the IIS

- Applying MIROW guidance for use of the PAIS indicator to manage patient "active" status

- Defining which patients to include in the assessment based on birth cohort

- Defining additional rules for patient inclusion/exclusion

Assessment

- Confirming which vaccines to assess
- Applying standardized vaccine evaluation/forecasting algorithms in the IIS to determine validity of doses
- Applying standardized vaccine evaluation/forecasting algorithms in the IIS to determine series completion/up-to-date status
- Defining how Missed Opportunities would be calculated in IIS
- Details about running and managing reports

Technical Excerpts

Provider Selection

- Individual provider identified by VFC Pin
- Use of newly developed functionality to identify providers with coverage levels in the bottom quartile for all VFC providers

Assessment Cohorts

- Patients are associated with the selected provider according to IIS rules of ownership/association

- Provider agrees that patient is an active member of the practice as indicated by the PAIS value

- Birth cohort is based on a calculated birthdate range

Vaccination Assessment

- Utilize CDSi Resources for:
  - Identifying CVX codes to use in query logic
  - Determining validity of doses
  - Assessing vaccination status for series completion
- More information on CDSi: https://www.cdc.gov/vaccines/programs/iis/cdsi.html

Calculation Logic – Coverage and Missed Opportunities

- Technical Guide will provide standardized logic for:
  - Calculating AFIX vaccination coverage rates
  - Calculating missed opportunities for AFIX reporting
- Missed Opportunities will be calculated based on last immunization visit only

Phase 1 – Next Steps

- Draft documents will be reviewed by the SME panel
- Additional community-wide review (AIM, Immunization Program Managers, AFIX Coordinators, IIS Managers, Vendors, etc.).
- Recommendations to be reviewed by CDC
- Final requirements to be released by CDC (anticipated end of 2014/early 2015)

Phase 2: Starting Soon!

Questions?

For more information:

- Danielle Reader-Jolley (dreaderjolley@immregistries.org) – Project Lead for AIRA
- Laura Pabst (lnw9@cdc.gov) - Evaluation Team Lead in IISSB
- Hanan Awwad (wgn5@cdc.gov) AFIX Lead in POB