

# AFIX-IIS Coverage Report Integration

Presented by

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# Project Overview

- Transitioning AFIX reports from CoCASA to IIS
- Two (2) project development phases
  - Phase 1 – Required
  - Phase 2 – Optional/Recommended
- 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 IISB
- 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

# 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\* (%)
- Complete and UTD HIB\* (%)
- 3 Hep B\* (%)
- 1 VAR\* (%)
- Complete and UTD PCV13\* (%)
- Complete and UTD RV (%)
- 1+ 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)

- Complete and UTD Hep B (%)
- 2 MMR (%)
- 2 VAR (%)
- 1 Tdap (%)
- Complete and UTD 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
  - Specific CoCASA reports
  - Patient listings
  - Additional data granularity
  - Graphical displays
- Best practices for using this data and providing feedback to providers
- 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 Excerpts



# Providers

- Using VFC Pin to uniquely identify and match a provider for AFIX purposes
- Using new IIS report 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 should be calculated in IIS
  - Note: Missed Opportunities will be calculated based on last immunization visit only
- Details about who should be able to run these reports, how often they should be run, and how reports should be managed and reported

# 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 have been 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
- General Business Rules for inclusion/exclusion

# Vaccination Assessment and Calculations

- Leverage IIS forecasting/evaluation algorithms to determine if:
  - Each individual vaccination is valid
  - The patient has received all required doses to be included in the required calculations
- Utilize ACIP and CDSi Resources for standardizing algorithms
- Calculation logic for AFIX Coverage Rates and Missed Opportunities
- General Business Rules and Decision Tables for inclusion/exclusion and calculation guidance

# Technical Appendices

- Guidance on leveraging CDSi resources to support AFIX Assessment
- Technical Specification Template
  - Required Inputs
  - Report Criteria/Parameters
  - Requirements for Report Content/Output
  - Reporting Formats and Processes
- Set of test cases???
- Separate Document TBD: Export Specification

# Other Phase 1 Guidance...

- Implementation 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?
- Identifying the primary focus areas of the Phase 2 effort

# Phase 1 – Next Steps

- Draft documents will be finalized and reviewed by the SME panel
- Additional community-wide review (AIM, Immunization Program Managers, AFIX Coordinators, IIS Managers, Vendors, etc.)
- Recommendations to be delivered to and reviewed by CDC
- Final requirements to be released to awardees by CDC (anticipated Q1 2015)

Phase 2: In Progress!



# Provider Feedback Reports

- Existing CoCASA Reports
- Customized hybrid reports developed by awardees
- Critical reporting “elements” commonly discussed with providers
- Principles of good report design and display



# Phase 2 Guidance

- Modular/a la carte approach (definitions and operational use of critical data report elements)
- Suggested combinations of report elements and examples of hybrid reports developed by awardees
- Best practice recommendations for principles of reports (e.g. graphical vs. text, white space, percentages and number value)
- Provide technical guidance as appropriate (builds upon Phase 1 technical foundation)
- Revisit/update Phase 1 guidance if needed (supplement)

# Questions?

For more information:

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