AMERICAN IMMUNIZATION REGISTRY ASSOCIATION

ALISON CHI, PROGRAM DIRECTOR
WHAT IS AIRA

• A way to work together to develop standards, best practices, develop and share strategies and provide education to IIS.

• AIRA’s mission is to promote and support the use of immunization information to ensure healthy communities.

• AIRA’s vision is to facilitate the sharing and use of immunization information by all partners and ensure that immunization information systems are fully supported and represented.
WHAT IS AIRA?

- Non-profit organization made up of:
  - Jurisdictional registry staff (state, city, county, territories)
  - Registry technology developers (vendors)
  - National organizations with similar interests
  - Centers for Disease Control and Prevention – registry staff
  - Individuals
NATIONAL THEMES

- Interoperability with EHRs
- Small Area Analysis/AFIX
- Standardization
- Adult Immunization
- Joint Development
- Interstate Exchange

Interoperability with EHRs

Small Area Analysis/AFIX

Standardization

Adult Immunization

Joint Development

Interstate Exchange
Why is increased use of IIS a strategy for increasing adult immunization rates? For the same reasons it has been a strategy for increasing childhood immunization rates for the past 20 years:

- **IIS create** a comprehensive immunization record by collecting immunization data from both private and public health care providers, pharmacies, and other immunizers.

- **IIS generate** reminders to ensure on-time immunization.

- **IIS assist** with clinical decision support and forecasting to avoid over-immunizing or missed opportunities.

- **IIS assist** with vaccine ordering and inventory management.
DATA → EHR → HIE → IIS

Provider EHR
Enter data

Query
Data
HIE Repository
History & Forecast

Data
ACK or Error Message

Query
Data
IIS
History & Forecast

ACK or Error Message

Enter data
HIE Repository
IIS

Query
Data
HIE Repository
History & Forecast

ACK or Error Message

Query
Data
IIS
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ACK or Error Message
IIS & ADULT IMMUNIZATIONS: AUTHORITY TO OPERATE

51 Jurisdictions Authorized to Operate an IIS for Adults

- Laws authorize operation of IIS: 27
- Laws authorize sharing of immunization information: 8
- Laws allow sharing of health care information: 3
- Rely on general public health statutes or regulations: 13

IIS & ADULT IMMUNIZATIONS:

31 IIS WITH REPORTING MANDATES

- 22 Mandate at least 1 type of provider/entity to report
- 31 No mandate

### IIS & ADULT IMMUNIZATIONS:

For jurisdictions with mandates (31), who is mandated to report?

<table>
<thead>
<tr>
<th>Provider Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacies/pharmacists</td>
<td>22</td>
</tr>
<tr>
<td>Private providers</td>
<td>21</td>
</tr>
<tr>
<td>VFC providers</td>
<td>23</td>
</tr>
<tr>
<td>Public health providers</td>
<td>27</td>
</tr>
<tr>
<td>All immunization providers</td>
<td>21</td>
</tr>
</tbody>
</table>

IIS & ADULT IMMUNIZATIONS:

For jurisdictions with mandates (31), for whom do shots get reported?

- 2: only young children (upper age limits of 6 or 7 years old)
- 17: immunizations for children/adolescents/young adults (upper age limits ranging from 10 to 26 years)
- 12: all immunizations for all age groups

Consent to share adult immunization information (51 jurisdictions)

- 8 jurisdictions require explicit consent.
- 1 jurisdiction permits sharing without consent, with an opt-out option.
- 8 jurisdictions allow sharing without consent, without an opt-out option.
- 34 jurisdictions rely on implied consent to share with IIS, with a right to opt-out.

Using IIS to Improve Adult Immunization Rates: Examples

Arizona
- Currently testing the impact of providing access to state IIS for employer on-site flu clinics

Iowa
- Added adult benchmark reports in 2013

Minnesota
- Creating assessment reports & tools; working with pharmacies; healthcare worker vaccination program

Washington State
- Pilot tested the impact of providing on-line real-time IIS access to pharmacists when a customer requested an immunization.
- Pilot was done in partnership with STC & Bartell Drugs
Minnesota focus on IIS/adult immunization initiatives:

• Adult immunizations included in quarterly assessment provided to local public health & regional coordinators to identify areas with low adult immunization rates/enable targeted outreach

• Currently building an adult assessment report into IIS user interface

• Modifying IIS Client Follow-Up tool to include adult immunizations. Will allow a provider to directly follow-up with their patients who are due or overdue for immunizations

• Pharmacy Initiatives – developed a video for pharmacists showing that the IIS is an easy tool to use in assessing a patients’ immunization needs and recommending appropriate vaccines for patients. The video can be seen on MDH YouTube channel

• Healthcare worker vaccination program – all reporting for program is done through the IIS
RESULTS OF WASHINGTON STATE PILOT PROVIDING ON-LINE REAL-TIME IIS ACCESS TO PHARMACISTS:
• Immunizations provided to individuals from 5 – 85 years of age
• Pharmacists were able to access the state IIS for an individual 94% of the time, and 78% of the customers queried were found in the IIS
• 72% of customers were determined through decision support to be due or past due for an immunization
• Averaged over 2 additional immunizations needed per adult
• January 2014 - AIRA published report on survey of immunization reporting to IIS by major U.S. pharmacies

• Major findings:
  • Of the state and project areas that responded to the survey (n=45), pharmacies are allowed to provide vaccinations in 42 (93%) of the project areas.
  • Pharmacies report doses administered to IIS in 36 (80%) jurisdictions and are required to report in 22 (49%).
  • Pharmacists will generally administer whatever vaccinations they are allowed to administer in accordance with individual state laws
PHARMACIES & IIS

Successes
• Significant increase in adult immunization records
• Improved quality of adult data
• Improvement of overall patient care

Challenges:
• IIS perspective: data quality issues, inability to collect required data elements, inability to generate file format supported by IIS
• Pharmacy perspective: restrictions on type of files IIS are willing to accept, IIS consent requirements, limited staffing resources on IIS side
PROVIDERS & IIS

Provider Benefits:

• Decision support
  • Determine if patients are due or past due for an immunization
• Reminder/Recall
  • Use IIS to generate reminders, increase # of patients identified as due for immunizations
• Real-time bi-directional exchange with IIS
  • Immediate decision support = increased # of patients identified as due for immunizations while patient is in front of provider
  • Accessibility of information within provider workflow
  • Avoid double data entry
• Inventory management
  • Reduce the work of meeting accountability and reporting requirements
IIS CHALLENGES & SUCCESSES

**Successes**
- All but one state has an IIS and they are in development
- Most IIS are able to electronically exchange information with medical providers
- Have standardized many operations and functions
  - Patient de-duplication
  - Vaccine Data Quality
  - Patient status
  - Vaccine Forecasting

**Challenges**
- Percentage of adults in IIS still very low in many jurisdictions
- Policy issues still exist
- Can’t easily exchange data with another state (but there is hope!)
- Implementing standards takes time & there is no mandate to implement standards
- There are still many areas that we would like to standardize
WHAT CAN AIRA DO FOR YOU?

• Visit our website www.immregistries.org to find useful materials and information
• Email us or call us with questions
• Join AIRA as a member and participate in our activities
AIRA WEBSITE RESOURCES

www.immregistries.org
American Immunization Registry Association
Phone: (202) 527-7000 • Fax: (202) 833-3636

Alison Chi, Program Director
achi@immregistries.org