Improving the Kentucky Immunization Registry

Rebecca Coyle, Executive Director
American Immunization Registry Association
Goals for today

1. Review the history & purpose of IIS
2. Describe key elements & functionality of successful IIS
3. Describe the policies & their impact on IIS

4. Review IIS technical considerations

5. Discuss future considerations for IIS
are confidential, population-based, computerized databases that record all immunization doses administered by participating providers to persons residing within a given geopolitical area.

Confidential
Population-based
Identify pockets of need
Exchange data with multiple providers
Assist schools & child care providers
Help improve vaccination rates & Reduce vaccine-preventable disease
Every state operates an IIS

IIS are also in:
- New York City
- Philadelphia
- Washington D.C.
- San Diego
- San Joaquin County (RIDE)
- American Samoa
- Guam
- Marshall Islands
- Micronesia
- North Mariana Islands
- Palau
- Puerto Rico
- U.S. Virgin Islands
Data Capture Across All IIS - 2019

Participation for children and adolescents requires two or more vaccines
Participation for adults requires at least one adult vaccine

Policies
<table>
<thead>
<tr>
<th>Policies That May Affect Functionality and/or Interoperability</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Authorized Users</strong></td>
</tr>
<tr>
<td>Local law/policy may govern who can access data, including consumers</td>
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<tr>
<td><strong>Consent</strong></td>
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<tr>
<td>Opt-in or opt-out policies may impact data exchange and data completeness</td>
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<tr>
<td><strong>Mandates to Report</strong></td>
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<tr>
<td>Reporting COVID doses is mandatory, requirements for reporting other vaccines varies</td>
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<tr>
<td><strong>Business Needs</strong></td>
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<tr>
<td>Program components supported by the IIS may vary among jurisdictions</td>
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<tr>
<td><strong>Maturity</strong></td>
</tr>
<tr>
<td>Standards adoption, saturation, or data quality may be affected</td>
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</tbody>
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Provider Participation
Technical Considerations
Most IIS Data Comes From Data Exchange

In 2019, there were **117,000** data exchange connections.
Standards

• HL7 Implementation Guide V2.5.1 R1.5
• SOAP Web Services/CDC WSDL
• Clinical Decision Support for Immunizations (CDSi) Specifications
• Guidance documents, consensus-based recommendations, business process documentation, etc.
• Industry standards for Security
Timeliness

Completeness

Accuracy

Data Quality Dilemma
Future Considerations
Snapshot of Growth in Volume: Daily Submissions (one state)

Average pre-COVID daily submissions = 17,000

AIRA Survey March 2020, AIRA member conversations, April 2021
It is critical to understand - the issuance of a digital record does not create the policy for how these records may be used. It simply moves a paper record to a digital format much like mail largely moved to e-mail.
Future Considerations

State Policies
National Policies

Strategic IIS
Modernization

All providers report all vaccines administered

Sustainable Funding
Thank You!

Rebecca Coyle, MsED
coyler@immregistries.org

www.immregistries.org