LEVERAGING PHARMACY PARTNERSHIPS TO IMPROVE OREGON’S IMMUNIZATION RATES

Jenne McKibben, ALERT IIS Director
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AIRA National Meeting 2018
I’ve found 10,000 ways that don’t work.
The genetic change that enables a flu strain to jump from one animal species to another, including humans, is called "ANTIGENIC SHIFT." Antigenic shift can happen in three ways:

1. Without undergoing genetic change, a bird strain of influenza A can jump directly from a duck or other aquatic bird to humans.
2. A duck or other aquatic bird passes a bird strain of influenza A to an intermediate host such as a chicken or pig.
3. A person passes a human strain of influenza A to the same chicken or pig. (Note that reassortments can occur in a person who is infected with two flu strains.)
4. When the viruses infect the same cell, the genes from the bird strain mix with genes from the human strain to yield a new strain.
5. The new strain can spread from the intermediate host to humans.

The new strain may further evolve to spread from person to person. If so, a flu pandemic could arise.
New IIS go live
Legislative influences

Protocols – immunize 18 or older w/o Rx

New IIS go live

lifespan registry
Legislative rules enacted –
- lowers age to 11 &
- requires reporting to ALERT IIS

2005 2011 2018

Legislative influences
Legislative influences

- **2005**: Legislation lowers age to 7 requires record lookup in ALERT IIS
- **2018**:
Broad Authority

No Rx or MD protocol needed

*APhA/NASPA Survey of State IZ Laws/Rules – updated January 2018
Impact of Immunizing Pharmacists on Adolescent Influenza Immunizations. Steve G. Robison.
*Journal of the American Pharmacists Association* (July/August 2016).
Legislative influence
Pharmacy/IIS interoperability

2014
Pharmacist % of Total Influenza Immunizations by Age 2017-2018

SOURCE: ALERT IIS
Outbreak response
Outbreak response

U of O Men B outbreak response

2000

2015

2018
Engage
Internships

- Develop project concept
- Intern starts
- Mentor assigned
- Milestones and deliverables developed
- Final presentation
Surveys

Barriers to immunizing
Effectiveness of pharmacy immunization protocols
Family Influenza Immunization Patterns: What Immunizing Pharmacists Often See

- Parent and child/teen at same visit
- Parent receives, and asks about teen/child for later
- Child/teen receives, and parent for later

SOURCE: 2017 Oregon Pharmacist survey
Percent Very Comfortable Recommending Immunizations for Clients by Age

SOURCE: 2017 Oregon Pharmacist survey
Percent Very Comfortable Giving Immunizations for Clients by Age

SOURCE: 2017 Oregon Pharmacist survey
Oregon Pharmacy Protocols for Immunization

Note to pharmacists:
The following Pharmacy Protocols for Immunization are reviewed yearly. Generally, updates are made as new recommendations are published by the Advisory Committee on Immunization Practices (ACIP).

An interim protocol is published when clinical guidance is needed but the Advisory Committee on Immunization Practices recommendations haven’t yet been published in the MMWR. The interim protocol will be replaced with a final protocol once the recommendations are published.

Protocols

<table>
<thead>
<tr>
<th>Vaccine/biologic</th>
<th>Date of Last Revision</th>
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<tbody>
<tr>
<td>Guidelines for managing adverse events</td>
<td>July 2017</td>
</tr>
<tr>
<td>Adverse Events E-kit Checklist and Report Form</td>
<td>July 2017</td>
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Challenges

Must waive administration fee

Must carry separate stocks
Good

- Partnering with the Board of Pharmacy enabled quick & efficient communication and led to future collaboration
- More complete immunization records
- Pharmacists are the second most frequent reporter of flu immunizations
- Lowering age limits increased number of adolescent flu immunizations
Lessons

• Involve pharmacy partners in policy planning
• Communicate through corporate channels
• Tailor IIS roles, user setup, and functionality for pharmacy model
• Solicit feedback
Outcomes

• Broadening authority = more adolescent immunizations
• Requiring use of IIS = more complete records
• Internships = increased awareness of public health role
• Outbreak responses = opportunities for strengthening partnership
The Road Ahead

- Tailor IIS access & workflow
- Encourage real-time bidirectional dx efforts
- Strengthen communication with corporate partners
- Increase adolescent immunizations

2018
Questions?

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