Nebraska’s Immunizations Registry – Functionality, Benefits and Use

Jane Stotts, RN, BSN
Quality Improvement Advisor
Great Plains Quality Innovation Network

Michelle Hood, BA
Administrator
NDHHS Office of Health Statistics
Nebraska Department of Health and Human Services

Agenda

- NESIIS systems functionality
- Statutory authority, data sharing, patient permissions
- Benefits to participate
- Immunization rate statistics
- Goals of the system, data that is shared
- Q&A
Presenter Bio

Michelle Hood has worked for the State of Nebraska for 21 years and is currently the Administrator for the Office of Health Statistics and Meaningful Use/Health Information Exchange Coordinator for Nebraska Department of Health and Human Services (NDHHS), in Lincoln, NE.

Michelle attended Nebraska Wesleyan University for her B.A. in mathematics, Secondary Education, and Minor in Computer Science. She joined NDHHS in 1998 and has worked in numerous programs including the Public Water Supply, Communicable Diseases, Bioterrorism, Immunizations, the Office of Epidemiology, and now the Office of Health Statistics. Michelle has been heavily involved in the collection and reporting of Health Information along with managing multiple data base systems. She service as the coordinator of electronic data exchange for multiple programs including Immunization, Syndromic Surveillance, Electronic Lab Results, Cancer and many more.
ELECTRONIC HEALTH RECORD SYSTEMS:

• IMPROVE PATIENT CARE
• IMPROVE CARE COORDINATION
• IMPROVE DIAGNOSTICS AND PATIENT OUTCOMES
• IMPROVE EFFICIENCIES AND COSTS SAVINGS
ROLE OF IMMUNIZATION REGISTRIES:

• CAPTURE AND SHARE COMPLETE IMMUNIZATION RECORDS WITH MEDICAL PROVIDERS
• REDUCE STAFF TIME NEEDED TO OBTAIN SCATTERED RECORDS
• REDUCE EXPENSES AND RISK INCURRED BY ADMINISTERING DUPLICATE IMMS
• REDUCE MISSED VACCINATION OPPORTUNITIES
• REDUCE OVER-IMMUNIZATION
• REDUCE STAFF TIME NEEDED TO REVIEW HISTORY AND DETERMINE NEEDED IMMS
• PREVENT VACCINE WASTE

CAPTURE AND SHARE COMPLETE IMMUNIZATION RECORDS WITH MEDICAL PROVIDERS:

HOW CAN THIS BE DONE?

• DIRECTED EXCHANGE – ABILITY TO SEND SECURE INFORMATION ELECTRONICALLY BETWEEN THE EHR AND IIS.
• QUERY-BASED EXCHANGE – ABILITY TO FIND AND/OR REQUEST INFO ON A PATIENT THROUGH THE IIS.
• BOTH SUPPORT THE ABILITY TO CAPTURE AND SHARE COMPLETE IMMUNIZATION RECORDS ACROSS OUR STATE.
WHAT CAN IMMUNIZATION REGISTRIES DO?

- Record immunizations, contraindications, and reactions
- Validate immunization histories
- Provide vaccine recommendations
- Produce reminder/recall notices
- Produce vaccine usage and client reports (imm records)
- Manage vaccine inventory

WHAT CAN IMMUNIZATION REGISTRIES DO? (CONT’D)

- Verify/calculate:
  - Immunization rates in NE
  - Immunization rates in outbreak areas
  - Uptake on new vaccines
  - Compliance to vaccination recommendations/requirements
- Electronic data exchange (also bi-directional)
- Clinic level immunization assessments
NEBRASKA STATE IMMUNIZATION INFORMATION SYSTEM (NESIIS):

- SECURE, STATEWIDE, WEB-BASED SYSTEM
- BEEN IN PLACE SINCE MARCH, 2008
- CURRENTLY CONTAINS OVER 16,509,381 IMMUNIZATIONS ON OVER 1,958,274 CLIENTS
- MANUAL USER-INTERFACE (NO FEES FOR USE OR TRAINING)
- IS CAPABLE OF UNI-DIRECTIONAL AND BI-DIRECTIONAL DATA EXCHANGE
- INTERFACES WITH EHRS AND NEHII TO ACCEPT IMMUNIZATION RECORDS
Nesiis Participation:

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategories</th>
<th>Count of facilities performing Data Exchange (Percentage based on total number of facilities)</th>
<th>No data exchange (percentage based on all facilities)</th>
<th>Total Number of Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Electronically</td>
<td>Manually</td>
<td>Total count of facilities sending data</td>
</tr>
<tr>
<td>Private Clinics</td>
<td>Private Providers</td>
<td>390 (44)</td>
<td>47 (5.3)</td>
<td>437 (49.3)</td>
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<tr>
<td></td>
<td>Includes IHS</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Public Immunization Clinics</td>
<td>Public Clinics</td>
<td>4 (10)</td>
<td>33 (82.5)</td>
<td>37 (92.5)</td>
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<tr>
<td>Pharmacies</td>
<td>Pharmacies</td>
<td>175 (41.3)</td>
<td>9 (2.1)</td>
<td>184 (43.4)</td>
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<td>Assisted living and nursing home</td>
<td>Assisted living and nursing homes</td>
<td>0</td>
<td>11 (2.3)</td>
<td>11 (2.3)</td>
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<tr>
<td>Hospitals</td>
<td>Hospitals</td>
<td>86 (90.5)</td>
<td>2 (2.1)</td>
<td>88 (92.6)</td>
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<tr>
<td>Total</td>
<td></td>
<td>655 (34.4)</td>
<td>102 (5.3)</td>
<td>757 (39.7)</td>
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<tr>
<td>Total</td>
<td></td>
<td>1068 (28.1)</td>
<td>182 (4.8)</td>
<td>1249 (32.9)</td>
</tr>
</tbody>
</table>

Immunization Rates Analysis:

- Analysis has been completed on:
  - Adolescent Immunization rates for:
    - TDAP
    - Meningococcal
    - HPV
  - Maps and charts developed
- Analysis in progress on:
  - Childhood rates for
    - All ACIP recommended vaccinations
THE CHALLENGE!!!!

- GOAL: INCREASE PARTICIPATION TO 95%!!!!
  - TALK TO PROVIDERS/PRACTICES/PHYSICIANS ABOUT PARTICIPATING IN NESIS
  - PROMOTE THE USE OF NESIS WITHIN MEDICAL PRACTICES
  - EXPLORE (WITH FACILITIES AND VENDORS) BI-DIRECTIONAL EXCHANGE

WITH ACTIVE PARTICIPATION —
NESIS CAN PROVIDE COMPREHENSIVE IMMUNIZATION RECORDS TO HELP MAKE YOUR LIVES EASIER!!
WE CAN ACCURATELY ASSESS THE VACCINATION NEEDS OF OUR PATIENTS AND COMMUNITY!!
WE CAN ENSURE THAT PATIENTS ARE APPROPRIATELY IMMUNIZED!!

MU REPORTING:

- DHHS MU READINESS:
  - IMMUNIZATION, ELR, AND SYNDROMIC: CURRENTLY ENROLLING HOSPITALS AND PROVIDERS AND ACCEPTING DX DATA
  - CANCER: CURRENTLY INSTALLING AND UPGRADING SOFTWARE TO TESTING PATHOLOGY AND PHYSICIAN REPORTING
  - OTHER SPECIALIZED REGISTRIES: STILL DETERMINING WHAT THOSE MAY BE FOR NE:
    - CANCER: CURRENTLY INSTALLING AND UPGRADING SOFTWARE TO TESTING PATHOLOGY AND PHYSICIAN REPORTING
    - PARKINSONS DISEASE REGISTRY
    - PRESCRIPTION DRUG MONITORING (NEHI)
NDHHS/MU REGISTRATION PROCESS:

TO BEGIN MEANINGFUL USE (MU) ATTESTATION WITH THE THREE NDHHS REGISTRIES, THE FOLLOWING STEPS MUST BE FOLLOWED.

1) VISIT THE NDHHS MU WEBSITE:
   • HTTP://DHHS.NE.GOV/PUBLICHEALTH/EPI/PAGES/MEANINGFULUSE.ASPX

2) COMPLETE THE NDHHS MU REGISTRATION SURVEY ONLINE:
   • HTTPS://WWW.SURVEYMONKEY.COM/S/MEANINGFUL_USE_TESTING_REGISTRATION_FORM
   • YOU CAN ALSO VIEW A .PDF OF THE SURVEY PRIOR TO FILLING IT OUT.
     • HTTP://DHHS.NE.GOV/PUBLICHEALTH/EPI/DOCUMENTS/MEANINGFUL_USE_TESTING_REGISTRATION_FORM_2014.PDF

WITH YOUR HELP WE CAN MAKE NESIIS SHINE!

THANK YOU!!!!!!!

MICHELLE HOOD
MICHELLE.HOOD@NEBRASKA.GOV
402-471-0147
Q & A

To ask a question:
Use *2 to unmute your line
Use the chat function to the right of your screen

Great Plains Quality Innovation Network

Great Plains QIN
1200 Libra Drive – Suite 102
Lincoln, NE 68512
P: 402.476.1399
F: 402.476.1335

Website: http://greatplainsqin.org/

Join our Learning and Action Network
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