Western Nebraska Health Information Exchange: Public Health Reporting – Where Does All the Data Go?

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Further Information

To view the Public Health Reporting- Schematics and Matrix document, visit http://www.ppc.nebraska.edu/materials/phreporting.pdf

For more information on this project, please contact:
- University of Nebraska Public Policy Center at ppc@nebraska.edu or (402) 472-5678
- Western Nebraska Health Information Exchange's official website, Community Health Connection at http://www.comhealth.org

Acknowledgements

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  - Regional West Medical Center
- Panhandle Public Health District
- Panhandle Mental Health Center
- Region I Behavioral Health
- Panhandle Community Services Health Center
- Western Community Health Resources
- Nebraska Department of Health and Human Services

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Photograph Courtesy of John Woollam

Acronym Key for Schematics

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>CDC</td>
<td>Centers for Disease Control and Prevention</td>
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<tr>
<td>Co-CASA</td>
<td>Comprehensive Clinic Assessment Software Application</td>
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<tr>
<td>e-NARSIS/NARSIS</td>
<td>(electronic) Nebraska Ambulance and Rescue Service Information System</td>
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<tr>
<td>HARS</td>
<td>HIV &amp; AIDS Reporting System</td>
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<td>NEDSS</td>
<td>National Electronic Disease Surveillance System</td>
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<tr>
<td>NEMSIS</td>
<td>National Emergency Medical Services Information System</td>
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<tr>
<td>NNSP</td>
<td>Nebraska Newborn Screening Program</td>
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<tr>
<td>NTRACS</td>
<td>National Trauma Registry of the American College of Surgeons</td>
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<tr>
<td>PHIN-MS</td>
<td>Public Health Information Network- Messaging System</td>
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<tr>
<td>RWMC</td>
<td>Regional West Medical Center</td>
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"A tremendous amount of data is collected in the spirit of public health that public health professionals have difficulty retrieving."

-Kim Engel
Director, Panhandle Public Health District
The Public Health Reporting - Schematics and Matrix outlines the current requirements of public health surveillance and reporting from rural healthcare providers to local, state, and national entities. The report was created to enhance the understanding of public health reporting for members of the Western Nebraska Health Information Exchange Network.

Research Question
Where do public health data go and how easy are they to retrieve once they are filed?

Panhandle Description
Table 1
Demographic Comparisons of the Panhandle Region to Nebraska

<table>
<thead>
<tr>
<th>Panhandle Region of Nebraska</th>
<th>Entire State of Nebraska</th>
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<tbody>
<tr>
<td>Area</td>
<td>14,000 sq miles</td>
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<tr>
<td>Population</td>
<td>93,610</td>
</tr>
<tr>
<td>Age over 65 yrs</td>
<td>17.3%</td>
</tr>
<tr>
<td>Minority Population</td>
<td>14.6%</td>
</tr>
</tbody>
</table>

Figure 2. The Summary Schematic begins with each reporting entity and shows the health conditions and tests they report. From there, the schematic shows how the health information is reported, to whom it is reported, and how the data are reported back to the community.

Figure 1. The Panhandle Regional Map highlights the healthcare facilities and travel distances.

Figure 3. The Communicable Disease Reporting Schematic first illustrates the initial confirmed disease and who is reporting. The next steps include to whom the health information is reported, how it is reported, and how the data are reported back to the community.

Results
The final report titled, Public Health Reporting- Schematics and Matrix, documents the flow of public health reporting information in Western Nebraska. Unfortunately it appears that much data end up in “silos” and can be difficult to retrieve. The report includes a matrix which illustrates the flow of public health reporting from local to state and national entities. In addition, a series of schematics was created to outline the steps of different reporting processes. There is a summary schematic of all public health reporting in the Nebraska Panhandle and a set of other schematics to illustrate public health reporting in each of the following areas:
- Communicable Disease
- HIV/AIDS
- Nebraska Newborn Screening Program
- Newborn Hearing Screening
- Chronic Disease
- Nebraska Cancer Registry
- Nebraska Trauma Registry
- Immunization

Implications
The Public Health Reporting- Schematics and Matrix:
- Highlights the complex processes, duplicate steps, and challenges with public health reporting and information sharing in Western Nebraska.
- Enables public health administrators, educators, and policy makers to make reporting systems more efficient.
- Illustrates an effective way to document a public health reporting trail that can be replicated by other communities throughout the nation.