ND eHealth Summit

11/15/2017
Health Information Technology Advisory Committee (HITAC) Membership

- Chair – Lynette Dickson, Associate Director, Center for Rural Health, UND
- Vice Chair – Dan Kelly, CEO, McKenzie County Healthcare System
- Richard Bubach, CEO, Quality Health Associates of ND
- Lisa Clute, Executive Officer, First District Health
- Lisa Feldner
- Neil Frame, Operations Director, Metro Area Ambulance
- Sharon German, Enterprise Director of IT Applications & Bismarck Site Lead, Sanford Health
- Megan Houn, Director Government Relations, Blue Cross Blue Shield of ND
- Jerry Jurena, President, ND Hospital Association
- Robert Lauf, Policy Advisor, Governor of North Dakota
- Senator Judy Lee, ND Legislature
- Darin Meschke, Director, ND Department of Health
- Tracy Miller, NDDOH, Citizen Representative
- Dave Molmen, CEO, Altru Health System
- Shelly Peterson, President, ND Long Term Care Association
- Shawn Riley, CIO, ND Information Technology Department
- Matt Shahan, CEO, West River Health Systems
- Representative Robin Wiesz, ND Legislature
- Jennifer Witham, IT Director, ND Department of Human Services

Vision Statement: Quality healthcare for all North Dakotans anywhere, anytime.
NDHIN Principles

- Operate with Transparency & Openness
- Build Stakeholder Trust
- Maintain Neutrality
- Stakeholder Investment
- Offer Personal Choice
- Foster a Culture of Innovation
- Engage Stakeholders
- Promote Statewide HIE Solutions
- Leverage Existing HIT Initiatives & Resources
- Be Inclusive
- Focus on the Primary Purpose – The Patient
- Build a Learning Health System

Mission Statement: to advance the adoption and use of technology to exchange health information and improve healthcare quality, patient safety, and overall efficiency of healthcare and public health services in North Dakota
It’s About the Patient

The Circle of Care

The Patient

- Personal Health Record
- Secure access based on HIPAA Rules
- Medications
- Direct Secure Messaging (DSM)
- Home monitoring
- Office visits
- Hospital visits
- Diagnostics
- Lab work
- Images/X-ray reports
- Home healthcare/long-term care
- Insurance
- State and Federal, DOH
NDHIN Services (Current Services)

- Direct Secure Messaging (Push)
- Query Based Services (Pull)
  - Clinical Portal
    - Single sign-on (SSO)
    - Prescription Drug Monitoring Program (PDMP)
    - Immunizations
  - CCD Exchange
- Image Exchange
  - View images from PACS networks across state
- eHealth Exchange Connectivity
- Notifications/Subscriptions
- Patient Portal
- Connections for Public Health Reporting
  - Syndromic Surveillance
  - Electronic Lab Reporting
  - NDIIS
- Statewide Advance Directive Repository
Use Cases Examples

- **Direct Secure Messaging**
  - Connect Schools and Providers together to coordinate care
  - Referrals – Chiropractic to Primary Care providers for patients identified with hypertension during Chiropractic Exam

- **Clinical Portal**
  - Addiction Treatment Provider
  - Prescription Drug Monitoring Program
  - Chiropractors – Images

- **Registry / Mandatory Reporting**
  - Immunization Registry ≥ 80%
  - Electronic Lab Reporting and Syndromic Surveillance ≥ 80%
Electronic Laboratory Test Order and Result Routing Network

- HL7 Lab Test Orders
  - NDHiH Message Broker
  - NDHiH Reportable Condition Data
  - NDHiH Clinical Portal

- Message Routing Table (To Specific Lab)
- HL7 Lab Test Orders
- HL7 Lab Test Results
- Lab Test Orders
- Lab Test Results
- HL7 Lab Test Results
- Message Routing Table (To Ordering Provider)
NDHIN Message Routing

HCO B

LAB C

HCO A

LAB A

HCO C

LAB B

Orders

Results
NDHIN Message Routing

HCO B
HCO C
HCO A
HCO Z
HCO L

LAB C
LAB F
LAB A
LAB C
LAB B

Orders
Results
| Alaska eHealth Network                     | Kaiser Permanente               |
| Allina Health System                      | Lancaster General Health        |
| Children's Medical Center of Dallas        | Mount Sinai Medical Center - Florida |
| Clinical Connect Health Information Exchange | New Mexico Health Information Exchange |
| Community Medical Centers                  | Oregon Health and Science University |
| DCIPA (Douglas County)                    | Presbyterian Healthcare Service |
| Defense Management Information exchange    | Providence Health and Services Alaska |
| Dignity Health                             | Providence Health and Services Oregon and California |
| Essentia Health                            | Providence Health and Services Washington and Montana |
| Hawaii Pacific Health                      | San Diego Health Connect        |
| HealthBridge                               | Strategic Health Intelligence   |
| HealtheConnections RHIO                   | Texas Health Resources          |
| HIETexas - Austin                         | The Portland Clinic             |
| HIETexas - Federated                      | University of California San Francisco |
| HIETexas - Houston                        | University of Pittsburgh Medical Center |
| HIETexas - Non-Federated                  | University of Virginia Health System |
| IEHIE (Inland Empire HIE)                 | University of Wisconsin Health |
| Indiana Health Information Exchange        | Utah Health Information Network |
| Inova Health System                       | Walgreen Co.                    |
| IOD Incorporated                          | Weill Cornell Medical College   |

Working on connecting to South Dakota Health Link
Clinical Portal Event Trending

Activity Trending
by month

<table>
<thead>
<tr>
<th></th>
<th>Oct-16</th>
<th>Nov-16</th>
<th>Dec-16</th>
<th>Jan-17</th>
<th>Feb-17</th>
<th>Mar-17</th>
<th>Apr-17</th>
<th>May-17</th>
<th>Jun-17</th>
<th>Jul-17</th>
<th>Aug-17</th>
<th>Sep-17</th>
<th>Oct-17</th>
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<tbody>
<tr>
<td>Login Access</td>
<td>2,277</td>
<td>2,419</td>
<td>2,430</td>
<td>2,609</td>
<td>3,118</td>
<td>4,560</td>
<td>4,216</td>
<td>4,599</td>
<td>4,848</td>
<td>4,991</td>
<td>5,033</td>
<td>5,665</td>
<td>7,805</td>
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<tr>
<td>Patient Records</td>
<td>2,359</td>
<td>2,534</td>
<td>2,632</td>
<td>2,797</td>
<td>3,483</td>
<td>6,756</td>
<td>6,917</td>
<td>9,177</td>
<td>6,745</td>
<td>5,688</td>
<td>6,382</td>
<td>6,025</td>
<td>8,395</td>
</tr>
<tr>
<td>Break Glass</td>
<td>589</td>
<td>674</td>
<td>636</td>
<td>752</td>
<td>1,002</td>
<td>2,123</td>
<td>2,281</td>
<td>3,542</td>
<td>2,371</td>
<td>1,893</td>
<td>1,837</td>
<td>1,589</td>
<td>2,039</td>
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</table>
Rhapsody Processed Transactions
by Month

<table>
<thead>
<tr>
<th>Month</th>
<th>Transactions</th>
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<tbody>
<tr>
<td>4/17</td>
<td>64,082,918</td>
</tr>
<tr>
<td>5/17</td>
<td>63,631,779</td>
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<tr>
<td>6/17</td>
<td>65,909,396</td>
</tr>
<tr>
<td>7/17</td>
<td>50,726,229</td>
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<tr>
<td>8/17</td>
<td>63,938,973</td>
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<tr>
<td>9/17</td>
<td>48,662,614</td>
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<tr>
<td>10/17</td>
<td>61,835,155</td>
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</table>
### DSM2 Communicate Metrics - Messages last 2 months - September 01, 2017 to October 31, 2017

<table>
<thead>
<tr>
<th>Application Group</th>
<th>September 2017</th>
<th>October 2017</th>
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<tbody>
<tr>
<td><strong>Rhapsody</strong></td>
<td></td>
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</tr>
<tr>
<td>HISP Internal</td>
<td>138</td>
<td>155</td>
</tr>
<tr>
<td>Received Externally</td>
<td>15,133</td>
<td>16,582</td>
</tr>
<tr>
<td>Sent Externally</td>
<td>8,015</td>
<td>9,014</td>
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<tr>
<td><strong>Total</strong></td>
<td>18,575</td>
<td>20,686</td>
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<tr>
<td><strong>Webmail</strong></td>
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<td></td>
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<tr>
<td>HCO Internal</td>
<td>24</td>
<td>42</td>
</tr>
<tr>
<td>HISP Internal</td>
<td>111</td>
<td>115</td>
</tr>
<tr>
<td>Received Externally</td>
<td>33</td>
<td>29</td>
</tr>
<tr>
<td>Sent Externally</td>
<td>3</td>
<td>21</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>188</td>
<td>194</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>18,672</td>
<td>20,783</td>
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</tbody>
</table>

**Direct Trust Statistic**
- 3rd Quarter
  - 46 Million Transactions
  - 106,000 HCO's
  - 1.6 Million Direct Trust Addresses
PDMP Usage

July – October 2017

<table>
<thead>
<tr>
<th>Month</th>
<th>PDMP Queries</th>
<th>PDMP Users</th>
<th>Users @ 20+ queries</th>
</tr>
</thead>
<tbody>
<tr>
<td>July</td>
<td>408</td>
<td>62</td>
<td>4</td>
</tr>
<tr>
<td>August</td>
<td>404</td>
<td>68</td>
<td>5</td>
</tr>
<tr>
<td>September</td>
<td>391</td>
<td>74</td>
<td>3</td>
</tr>
<tr>
<td>October</td>
<td>441</td>
<td>66</td>
<td>7</td>
</tr>
</tbody>
</table>
Opt Out Statistics

- Opt Out 155  .015%
- Opt Out except in an emergency 57  .0056%

Patient handouts available upon request
NDHIN Future State

- 5 Year Business Plan – CedarBridge Group
- CMS 90/10 Match Funding Opportunity
  - Build HIE infrastructure to support Meaningful Use initiative
  - Some categories of technology qualify for 85/15, 75/25 and 50/50 matches
  - Available through Sept. 30, 2021
  - Non-competitive, no limit on funding amount

- Two RFP’s to Assist
  - Subject Matter Experts
  - Training, Education and Technical Assistance
NDHIN Future State Additions

- Administration
  - Subject Matter Experts
  - Education and Technical Specialists
- Infrastructure
- State Systems
- Federal Systems
- Payers
- Patients
- Meaningful Use Providers
- Non-Meaningful Use Providers
NDHIN Future State Additions
Strategic Statewide Applications

Care Coordination
- Assist with referrals
  - ex. social services
- Patient risk scores
- View clinical & claims data
- Enroll patients in pathways or see pathways enrolled in
  - ex. chronic disease management
- Identify gaps in care
  - ex. eye exam not completed, increased blood pressure

Analytics, Population Health
- Dashboard
  - ex. chronic disease management or different MSSP (Medicare Shared Savings Program Quality measures)

Advance Directives, POLST/MOLST Registry  Statewide Credentialing
HIE’s In the News

- **HIE Savings** - $139 Per Medicare Beneficiary ($3 Billion Year) @

- **Healthlink NY Study***
  - HIE use reduced the average length of stay (LOS) in the hospital (including time spent both as an emergency department and inpatient patient) by 7.04 percent.
  - Accessing patient records through the HIE reduced the odds of readmission to any ED (not just the initial facility) within 30 days of discharge by 4.5 percent.
  - Using the HIE reduced the odds of a patient being seen by multiple physicians by 12 percent.

- **ONC Drafting rules on information blocking**

- **Disaster Assistance #**
  - Greater Houston HealthConnect
  - HASA Health Information Exchange

@ Source: Health IT Analytics – Study done by Notre Dame and University of Michigan
# https://www.ehidc.org/resources/connecting-communities-collaborative-critical-role-hies-disaster-response
NDHIN Training

- November 16, 2017 1:00 – 2:30 PM
  - Register at [www.ndhin.org](http://www.ndhin.org)
  - Nursing CEU – 1.5 hours
- Offered twice a month
- Training available on request
  - Contact Tina Gagner 701-328-1126.
Loan Applications

- Approximately $2.5 Million Available
- 1% over ten years
- Due – January 15, 2018
- Application - [www.healthit.nd.gov](http://www.healthit.nd.gov)
HIMSS 18 Annual Conference

- March 5-9, 2018, Las Vegas, NV
- Preconference Interoperability /HIE Symposium
  - Facilitating Person-Centered Interoperable HIE to Manage Complex Patients
  - March 5
NDHIN Staff