Health Information Exchange Organization impact

2019 SHIEC Survey Results

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Unique features of Health Information Exchange Organizations

• Centralized data models enable:
  • Near-real time data flow, pushed when and where needed
  • Identity resolution using master person indices
  • Code normalization and data quality improvement

• Local/regional governance enables:
  • Use cases tailored to community preferences and trust
  • Policies that account for local and state privacy laws

• Broad multi-stakeholder participation enables interoperability and data exchange with unique and critical partners such as:
  • Social service agencies
  • Correctional healthcare
SHIEC Annual Survey

• SHIEC is an association of Community HIE Organizations
  • 77 Full and Associate Members
  • >100 Strategic Business and Technical members

• 2019: Annual Member Survey
  • 81% Response Rate
  • Topics include governance, policy, business models, technology, data exchanged, participation in nationwide interoperability models
HIE’s now span the nation

326M Lives ~99% of the US Population
Patient Centered Data Home™ answers need for nationwide alerting and interoperability

>16M Alerts and messages PUSHED between HIEs annually
Nationwide Alerting through HIE’s

All HIE Messages 3.3B

Encounter Messages 2.15B

ADT Alerts to Providers 453M

ADT Alerts Delivered within HIE 437M

ADT Alerts delivered to other HIE’s (PCDH) 16M
## Annual Data Volumes by SHIEC Health Information Exchanges

3.3 billion messages exchanged annually

<table>
<thead>
<tr>
<th>Category</th>
<th>Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Encounters</td>
<td>2,149,173,208</td>
</tr>
<tr>
<td>Lab and Imaging Results</td>
<td>614,697,564</td>
</tr>
<tr>
<td>Care Summaries</td>
<td>524,767,204</td>
</tr>
<tr>
<td>ADT Alerts</td>
<td>453,315,793</td>
</tr>
<tr>
<td>Other</td>
<td>338,920,920</td>
</tr>
<tr>
<td>Clinical Documents</td>
<td>113,763,988</td>
</tr>
<tr>
<td>Immunizations</td>
<td>52,991,328</td>
</tr>
</tbody>
</table>
HIE’s connect whole communities and unique partners

Community Partnerships unique to HIE's

- Blood banks: 9%
- Others: 33%
- School nurses: 40%
- Drug and alcohol treatment programs: 58%
- Dialysis centers: 58%
- Social services agencies: 58%
- Correctional Health: 70%
- First responders: 72%
Beyond data exchange: Advanced Analytics Services provided by HIEs

<table>
<thead>
<tr>
<th>Analytics Services Provided by HIE's</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alerting and monitoring reports</td>
<td>66%</td>
</tr>
<tr>
<td>Public health reports</td>
<td>63%</td>
</tr>
<tr>
<td>Electronic clinical quality measures</td>
<td>44%</td>
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<tr>
<td>Frequent flyer reporting</td>
<td>44%</td>
</tr>
<tr>
<td>Care gaps</td>
<td>39%</td>
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<tr>
<td>Risk assessment and stratification</td>
<td>39%</td>
</tr>
<tr>
<td>Other</td>
<td>37%</td>
</tr>
<tr>
<td>Claims based measures and Opiate monitoring</td>
<td>34%</td>
</tr>
<tr>
<td>Opiate monitoring</td>
<td>27%</td>
</tr>
</tbody>
</table>
HIE’s support national Innovation Initiatives

Federal Program Participation by HIE's

- Medicaid: 65%
- State Improvement Model: 40%
- CMS Qualified Clinical Data Registry: 28%
- Beacon Communities program: 23%
- Comprehensive Primary Care Initiative Plus: 23%
- Innovations Other: 16%
- Regional Health Improvement: 12%
- Comprehensive Primary Care Initiative (Classic): 12%
- CMS Qualified Entity Collaborative: 7%
- QIN-QIO Program: 7%
## HIE Funding and Sustainability

<table>
<thead>
<tr>
<th>Financials</th>
<th>Mean</th>
<th>Median</th>
<th>Max</th>
<th>Min</th>
<th>Total</th>
<th>% of SHIEC HIE's</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Annual Revenues</td>
<td>$6,974,581</td>
<td>$5,044,987</td>
<td>$38,000,000</td>
<td>$531,083</td>
<td>$292,932,403</td>
<td>56%</td>
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<tr>
<td>2018 Annual Expenses</td>
<td>$7,036,884</td>
<td>$4,834,162</td>
<td>$32,000,000</td>
<td>$300,000</td>
<td>$253,327,830</td>
<td>49%</td>
</tr>
</tbody>
</table>

### Average Revenue Breakdown
- % of revenues from HITECH 90/10 funds: 38.5%
- % of revenues from participating organizations: 21%
- % of revenues from Federal grants and programs: 17%
- % of revenues from State grants and programs (besides 90/10): 8%
- % of revenues from local/philanthropic grants and programs: 46%
- % of revenues from Other sources: 5%

### Average Expenses Breakdown
- % of expense for Employees: 38%
- % of expense for Overhead: 12%
- % of expense for Technology vendors: 12%
- % of expense for Insurance: 1%
- % of expense for Contract labor: 31%
- % of expense for Memberships and dues: 9%
- % of expense for Other: 1%
Conclusions

• HIEs have grown to span the nation and serve nearly all Americans

• The Patient Centered Data Home™, the only nationwide network to proactively push data, continues to grow rapidly

• HIEs connect an expanding scope of health and social organizations

• HIEs move more data than any other nationwide interoperability network

• HIEs are a cost-effective component of critical national infrastructure