Welcome & Introductions

Thank you for joining us!

Please share your name and what organization you are representing in the chat box.
Featured Presentation

Sana Ali
Product Manager, Healthix, Inc.
Sali@healthix.org
Healthix

EXCHANGING HEALTH INFORMATION TO TRANSFORM PATIENT CARE

Homeless and Unstably Housed Project

December 09, 2020
About Healthix
Healthix uses sophisticated software to reconcile over 100 million provider Medical Record Numbers (MRNs) into composite profiles of more than 20,000,000 patients who’ve had encounters in past 24 months.
HEALTHIX: A QUICK SNAPSHOT

As of Nov 2020 – Monthly Avg

- **4+ Million** Patient Record Returns via EHR
- **9+ Thousand** Patient Searches Healthix Portal
- **31** EHRs Hub Model Integrations Now Available
- **10+ Million** Unique Patient Consents on Record
- **7+ Million** Clinical Alerts Delivered
Healthix Exchanging Data to Support

**CLINICAL CARE**
- Individual patient care
- Emergency care
- Chronic disease management
- Care coordination

**POPULATION HEALTH**
- Pay for performance
- Quality measures
- Disease management
- Social Determinants of Health

**PUBLIC HEALTH**
- Clinical care in Public Health (HIV, homeless, BH and DD)
- Public health investigations
- Disaster response, bio-surveillance

**RESEARCH**
- Cohort Identification
- Retrospective analyses
- Prospective studies
- Clinical trial enrollment

**CONSUMER ENGAGEMENT**
- Life Insurance health assessment
- Consumer Access to their data
New York City Homelessness: The Basic Facts

- In recent years, homelessness in New York City has reached the highest levels since the Great Depression of the 1930s.

- The number of homeless New Yorkers sleeping each night in municipal shelters is now 59 percent higher than it was ten years ago.

- Of street homeless New Yorkers, a large majority are people living with mental illness or other severe health problems.

- Compared to homeless families, homeless single adults have much higher rates of serious mental illness, addiction disorders, and other severe health problems.

- Chronic health conditions such as high blood pressure, diabetes, and asthma become worse because there is no safe place to store medications properly.

Sources:
Homeless and Unstably Housed Project - Overview

GOAL
The goal of the project was to improve the health outcomes of homeless and unstably housed persons by developing services and products for better care management and coordination.

OBJECTIVES
- Identify proxies for homelessness.
- Improve linking of homeless patient records.
- Support effective and coordinated interventions and care management.
Homeless Registry

Identify and catalogue all potential proxies for homelessness to create a database.

HEALTHIX SOURCES
• Address analysis in HealthShare platform.
• Categorization: Unknown, Homeless Shelter, Hospital Address, Place of Worship and Civic Buildings.
• Address analysis from Participants’ registration data.

EXTERNAL SOURCES
• Reviewed numerous external sources to enhance the Registry data.
  ▪ The Homeless Shelter Directory
    o Breaking Ground
    o Covenant House Crisis Shelter
    o Grand Central Neighborhood Social Services Corporation
    o Olivieri Drop-In Center
    o Holy Apostle Soup Kitchen
    o Bellevue’s Men’s Shelter
    o The Church of the Blessed Sacrament Transitional Residence
    o The Bowery Mission
    o The Salvation Army
Tagging and Validation Homeless Records

Tag homeless patients in the Healthix system, Healthix ran all its MPI records against the newly created Homeless Registry and flagged all records where the primary residential address matched with one of the addresses in the registry.

These records were then separated by facility in separate files and sent to the advisory council members from various organizations for validation.

Each entity validated the housing status of their clients using various methodologies including manual chart review and data exportation form their EHRs and/or Registration System(s).

While the participants were able to validate the status for most cases, some could not be confirmed with certainty due to reasons such as being lost to follow up or deceased.
## Homeless Population in Healthix – Analysis

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Analysis</th>
<th>Count</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Total Number of Links (distinct person identities)</td>
<td>30,065,416</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.1 Links That have at least one Homeless Address within them</td>
<td>482,817</td>
<td>1.61%</td>
</tr>
<tr>
<td></td>
<td>1.1.a Links with at least one homeless address that are singletons (The homeless address MRN is the only record in the LinkID)</td>
<td>215,779</td>
<td>44.69%</td>
</tr>
<tr>
<td></td>
<td>1.1.b Links with at least one homeless addresses that contain &gt;1 MRN (duplicate records were matched together within the LinkID)</td>
<td>267,038</td>
<td>55.31%</td>
</tr>
<tr>
<td></td>
<td>1.2 Links That have no Homeless Addresses within them</td>
<td>29,582,599</td>
<td>98.39%</td>
</tr>
<tr>
<td>2</td>
<td>Total Unique Source &amp; Natives (MRNs)</td>
<td>98,780,994</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.1 Source &amp; Natives that have at least one homeless address listed within them</td>
<td>789,736</td>
<td>0.80%</td>
</tr>
<tr>
<td></td>
<td>2.2 Source &amp; Natives that have no Homeless Addresses within them</td>
<td>97,991,258</td>
<td>99.20%</td>
</tr>
<tr>
<td></td>
<td>2.3 Homeless Source &amp; Natives that are linked to at least 1 non-homeless Source &amp; Native</td>
<td>464,956</td>
<td>58.87%</td>
</tr>
<tr>
<td></td>
<td>2.4 Homeless Source &amp; Natives with at least 1 Homeless Address that have matched to a Verato reference identity at least once</td>
<td>326,548</td>
<td>41.35%</td>
</tr>
<tr>
<td>3</td>
<td>Distinct Number of Records (postIdentity events – aka individual add and update events)</td>
<td>213,827,129</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.1 Number of Records (postIdentity events) with a Homeless Address</td>
<td>1,355,870</td>
<td>0.63%</td>
</tr>
<tr>
<td></td>
<td>3.2 Number of Records (postIdentity events) with no Homeless Addresses</td>
<td>212,471,259</td>
<td>99.37%</td>
</tr>
<tr>
<td></td>
<td>3.3 Homeless Records that have Augmented to a carbon record (Verato reference identity)</td>
<td>421,293</td>
<td>31.07%</td>
</tr>
<tr>
<td></td>
<td>3.4 Homeless Records that have not augmented to a carbon record (Verato reference identity)</td>
<td>934,577</td>
<td>68.93%</td>
</tr>
<tr>
<td>4</td>
<td>Singleton Links (LinkIDs that are comprised of only a single MRN – aka no duplicates found)</td>
<td>13,755,470</td>
<td>45.75%</td>
</tr>
<tr>
<td></td>
<td>4.2 Non-Singleton Links</td>
<td>16,309,946</td>
<td>54.25%</td>
</tr>
</tbody>
</table>
### Homeless Population in Healthix – Analysis

<table>
<thead>
<tr>
<th>Label</th>
<th>Counts</th>
<th>Percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Total Number of Distinct Person Identities (distinct Verato LinkIDs)</td>
<td>31,902,953</td>
<td>100.00%</td>
</tr>
<tr>
<td>2 Identities/LinkIDs that have a single distinct Facility represented within them</td>
<td>15,385,403</td>
<td>48.23%</td>
</tr>
<tr>
<td>3 Identities/LinkIDs that have more than one distinct Facility represented within them</td>
<td>16,517,550</td>
<td>51.77%</td>
</tr>
<tr>
<td>4 Identities/LinkIDs that have at least one recorded Homeless Address</td>
<td>498,899</td>
<td>1.56%</td>
</tr>
<tr>
<td>5 Identities/LinkIDs with at least one homeless address and are comprised of only a single source system record/MRN (The record/MRN was not matched to any other records/MRNs)</td>
<td>217,913</td>
<td>43.68%</td>
</tr>
<tr>
<td>6 Identities/LinkIDs with at least one homeless address that contain &gt;1 record/MRN (duplicate records/MRNs were matched together within the Identity)</td>
<td>280,986</td>
<td>56.32%</td>
</tr>
<tr>
<td>7 Identities/LinkIDs that have no Homeless Addresses within them</td>
<td>31,404,054</td>
<td>98.44%</td>
</tr>
</tbody>
</table>

**Homeless Population in Healthix – Analysis**

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</thead>
<tbody>
<tr>
<td>1 Total Number of Distinct Person Identities (distinct Verato LinkIDs)</td>
<td>32,034,522</td>
<td>100.00%</td>
</tr>
<tr>
<td>2 Identities/LinkIDs that have a single distinct Facility represented within them</td>
<td>15,536,429</td>
<td>48.50%</td>
</tr>
<tr>
<td>3 Identities/LinkIDs that have more than one distinct Facility represented within them</td>
<td>16,498,093</td>
<td>51.50%</td>
</tr>
<tr>
<td>4 Identities/LinkIDs that have at least one recorded Homeless Address</td>
<td>612,126</td>
<td>1.91%</td>
</tr>
<tr>
<td>5 Identities/LinkIDs with at least one homeless address and are comprised of only a single source system record/MRN (The record/MRN was not matched to any other records/MRNs)</td>
<td>368,819</td>
<td>60.25%</td>
</tr>
<tr>
<td>6 Identities/LinkIDs with at least one homeless address that contain &gt;1 record/MRN (duplicate records/MRNs were matched together within the Identity)</td>
<td>243,307</td>
<td>39.75%</td>
</tr>
<tr>
<td>7 Identities/LinkIDs that have no Homeless Addresses within them</td>
<td>31,422,396</td>
<td>98.09%</td>
</tr>
</tbody>
</table>
Homeless Alerts

- Alerts to track and connect with difficult-to-locate patients.
- Alerts to connect care teams across diverse care settings treating the same patient.

1. Subscribing: Patient cohort
   - All Patients
   - Subscription File

2. Define triggers:
   - ED discharge • Inpatient admission • Inpatient discharge • Patient incarceration; patient release
   - Skilled Nursing Facility Admission • Skilled Nursing Facility Discharged • Patient Expiration

3. Healthix can notify via:
   - Healthix Clinical Message Center (CMC)
   - HL7 v2 MDM Message
   - Direct Message
Remaining Opportunities for Healthix

- Ensure data completeness, quality and integrity.
- In addition to homeless indicator, add unstably housed / history of homelessness indicator.
- Develop predictive models to identify individuals who are at risk of being unstably housed or homeless.
- Improve linking of patient records for homeless patients.
- Develop analytics/reports to improve understanding of where and how the homeless are receiving care and their outcomes.
THANK YOU

Sana Ali
Healthix, Inc.
sali@healthix.org
Direct: 332 230 0041
Mobile: 646 899 3450
www.healthix.org
LIHC Updates

- NYS Budget Updates
- CHAS Surveys – We need your help!
- Flu Vaccine Campaign
- COVID-19 Vaccine

Flu vaccines work

Flu vaccine prevents millions of illnesses and flu-related doctor’s visits each year. During 2018-2019, flu vaccination prevented an estimated
- 4.4 million influenza illnesses
- 2.3 million influenza-associated medical visits
- 58,000 influenza-associated hospitalizations
- 3,500 influenza-associated deaths

This message brought to you by your local hospital and local county health department.
Moving Forward

- Cat Beeman’s farewell
- How can the LIHC help you moving forward?
Adjournment

Thank you!

www.lihealthcollab.org

(631) 257-6964

info@lihealthcollab.org