CSTE/CDC+ NAPHSIS: Mortality Project Final Webinar

December 14, 2021 – 3:00pm EDT

**Please consider renaming your participant ID to include your organization**

National Syndromic Surveillance Program

Community of Practice

Resources that Advance the Science and Practice of Syndromic Surveillance
Housekeeping

• **Today’s call is being recorded** and will be posted on the NSSP Community of Practice Knowledge Repository

• Rename your participant name to include your organization

• All lines are muted on entry – press *6 or unmute via the Zoom platform

• Use the chatbox, “raise your hand” or talk with us during the Q&A!
Call Agenda

• Project Purpose and Background
  • NSSP Overview – Karl Soetebier (CDC/NSSP)
  • NAPHSIS Overview – Heidi Lengdorfer (NAPHSIS)
• Technical Overview – Linda Min (Ruvos)
• API Demo – Charles Steele (Ruvos)
• Q&A
• Next Steps: Connecting Across Communities
NSSP Overview – Karl Soetebier
(CDC/NSSP)
NSSP: Mortality Data Use Case

- NSSP empowers public health jurisdictions to conduct robust analysis and response to public health threats and events by
  1. integrating mortality data with illness, injury, and other health-related data
  2. leveraging ESSENCE analytic capabilities to allow jurisdictions to gather insights into deviations from baseline trends or anomalies (e.g., unexpected rises in causes of death, rare causes of death)
NSSP: Mortality Data Use Case

- Mortality Data within NSSP will include underlying and contributing cause-of-death data described through:
  - Cause-of-Death Literals (free text)
  - ICD-10 codes

- Cause-of-death literal fields will enable public health jurisdictions to obtain early insight and engage in more timely public health response by having continuum of data rather than relying solely upon final, codified cause-of-death data.
Fields of Significance to Public Health Surveillance: Data Groupings

Public Health Jurisdiction → NAPHSIS STEVE → NSSP file receipt and processing → NSSP Data Mart → ESSENCE → ESSENCE User Interface for Public Health Jurisdiction Use
 NSSP: Mortality Data Use Case

- End users:
  - Surveillance epidemiologists, statisticians, and analysts investigating infectious disease, substance use, environmental health, and other areas of public health importance
  - Public health policymakers, program area leads, state epidemiologists
  - These users may be at the jurisdiction level alone or access can be granted to additional jurisdictions for data sharing/investigation purposes
NSSP: Mortality Data Use Case

- Data Access and Management
  - The **Access & Management Center (AMC)** gives **public health jurisdiction control** over the data they share, with whom they share data, and when they want to share data
  - The AMC enables jurisdiction-based data governance; data access is managed by the jurisdiction rather than CDC
NAPHSIS Overview – Heidi Lengdorfer (NAPHSIS)
NAPHSIS:
- Represents the 57 vital records agencies – known as jurisdictions (states, cities, territories)
- Provides advocacy and national systems to support vital records

OUR VISION
- A healthier and more secure world through vital records

OUR MISSION
- To serve the vital records community by providing national leadership to advance public health and protect individual identity.
State and Territorial Exchange of Vital Events (STEVE)

54 out of 57 jurisdictions use STEVE
STEVE Use

Inter-Jurisdictional Exchange (IJE)
• Data use agreement all sign to exchange data amongst vital records offices
• Sending jurisdiction’s laws supersede recipients' laws

Additional Data Partners
• Public Health Partners
  • NCHS
  • DRH
  • NSSP
• State/Local Partners (examples)
  • Voter Registration
  • Tax Assessors
  • Health Registries
NSSP Project Overview

- National Mailbox
  - Single access point for CDC
  - Drop down menu selection for jurisdictions

- API development
  - Connect data to ESSENCE
Project Deliverables

• 17+ Participating Sites
  • 6 sending production data to NSSP weekly: CO, GA, KS, KY, MN, OR
  • 11 in onboarding (test files, DUAs, interest expressed): IA, IN, MA, MI, NH, NYC, NJ, TN, VA, WA, WI.

• API development
  • December 10th: deployed to STEVE production

• Post-Project Webinar
Technical Overview – Linda Min (Ruvos)
What is the STEVE External API?

- The STEVE External API is a collection of HTTP (Hypertext Transfer Protocol) web API endpoints used to exchange data between participating jurisdictions.
- Consists of STEVE Business Logic API and AWS endpoints.
- Opens up STEVE functions to the Internet in a way that allows jurisdiction systems to securely perform sending and receiving of files in an automated way without manual or human intervention.
As part of the STEVE External API delivery, we have created some documentation and tools to help guide developers in building custom integrations with the STEVE External API:

- STEVE External API High-Level Overview
- STEVE External API Testing Instructions
- STEVE External API File Operations Swagger UI
## STEVE External API - Onboarding Process

<table>
<thead>
<tr>
<th>Activity</th>
<th>Who</th>
<th>Timeframe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create and provide STEVE mailbox user with new client resources for API operations in TEST envt</td>
<td>Ruvos</td>
<td>2-3 days</td>
</tr>
<tr>
<td>Conduct initial development and testing including 1-2 technical assistance sessions with Ruvos technical team as requested in TEST envt</td>
<td>Jurisdiction</td>
<td>2-3 weeks*</td>
</tr>
<tr>
<td>Create and provide STEVE mailbox user with new client resources for API operations in the PRODUCTION envt</td>
<td>Ruvos</td>
<td>2-3 days</td>
</tr>
<tr>
<td>Final approval and sign off of onboarding</td>
<td>Jurisdiction</td>
<td>1 day</td>
</tr>
</tbody>
</table>

**Total onboarding process takes approximately 3-4 weeks to complete.**

* May vary given scheduling and availability of needed resources.
API Demo – Charles Steele (Ruvos)
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Next Steps: Connecting Across Communities

If interested in participating in this effort or would like to discuss further, please email either NAPHSIS (systems@naphsis.org) or CSTE (syndromic@cste.org)