

Arizona BioSense Workgroup Meeting

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Electronic Disease Surveillance Program
June 5th, 2018



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

- Welcome and Attendance
- Reminder for BioSense Liaisons
- Updates
 - Onboarding
 - Banner UMC Tucson Facilities
 - Legacy Data
 - Review In Process
 - BioSense Platform Summer Server Upgrades 2018
 - Community of Practice
 - [NSSP CoP call 06/19/2018@1-2:30pm](#) AZ time
 - Summer Surveillance

- Year 3 Charter
 - Objective and Deliverable Status:
 - 2-Training Methods and Needs for BioSense Platform Users
 - SAS Pilot Experience and Feedback-Kara Tarter, ADHS
 - CC and DD Category Syndromes and other ESSENCE enhancements updates
 - 3-4-New Use Cases
 - 4-Conference 2018 Abstracts
 - 4-Success Stories
 - **Request for your input:** Do you have any success stories to share?
- Questions
- Other items



Updates

Electronic Partners Status Update

Hospital Onboarding

Registration of Intent = 69

Hold Queue = 43

Testing = 0

Validation = 2

Production = 24

Data Use Agreements

Hospitals = 66

Local Public Health
Jurisdictions = 15

Onboarding Updates

- Banner UMC Tucson Facilities
 - Banner University Medical Center-South Campus
 - Banner University Medical Center-Tucson Campus
- Transitioning from EHR System on 10/1/2017
 - ADHS continues the **process of revalidating** the data
 - ADHS is waiting on Banner Health and Cerner to implement an update for county codes

Reminder for BioSense Liaisons

- Staff Changes
 - If you have new staff or staff that no longer need access to the syndromic surveillance data, contact syndromicsurveillance@azdhs.gov.
 - If you have new staff or need a quick reminder on how to use ESSENCE, let our team know.
 - We can schedule a call with you.

Legacy Data Project

- ADHS is in the process of meeting with NSSP to discuss what we found in our review of Legacy Data
- Our review process was more detailed than most other sites
 - Able to do true parallel validation

National Syndromic Surveillance Program (NSSP) Update: Questions and Tips

- NSSP will be making server upgrades in July
- No dates have been released yet
- Expected down time
- Send in any special data request
 - Enhanced surveillance
 - Data Access Requests
 - Projects

National Syndromic Surveillance Program (NSSP): BioSense Platform Summer Server Upgrade

Practice

QUESTIONS AND TIPS

Q: What are “Special Rule” fields in NSSP–ESSENCE?

A: During the transition from ESSENCE ER_Import_Staging_Table to ER_Base, ESSENCE collapses all messages tied to a visit into one ESSENCE ID (or record). For most fields in the ER_Base table, ESSENCE processing selects the field’s value from the last message tied to that visit.

Some fields, however, follow “special rules” when processing data from ER_Import_Staging_Table to ER_Base. For these special fields, ESSENCE searches all messages tied to that visit and selects either the first non-null value (e.g., chief complaint) or the last non-null value (e.g., patient class, diagnosis, discharge disposition) for the field.

So, what does this mean?

Fields can be treated differently when a visit is collapsed. Fields that normally support each other may display competing information. One common example of this is DischargeDisposition—a “special rule” field. When the disposition code in DischargeDisposition is mapped to Disposition Category “Death” (using the Disposition Category Mapping table), you might see values different than expected. This is because other death-related fields are processing the value from the last message tied to that visit, not from the last non-null value (as DischargeDisposition does).

QUESTIONS AND TIPS

Q: What is the purpose of the Chief Complaint Processor (CCP)?

A: The CCP categorizes chief complaint text into as many syndromes and subsyndromes as the text matches (figure 1).

To understand how the ESSENCE Chief Complaint Processor works, keep in mind that “chief complaint” is **any type of text string or combination** thereof:

- One word: “fever”
- Several words: “shortness of breath”
- Verbose text: “patient was seen with a cough that had been persistent for 3 weeks along with additional head aches and chills”
- Text with abbreviation: “sob”
- Text with negation: “patient was not vomiting”
- Text with misspellings: “patient was mot vomiting”
- First person: “I am having chest pain”
- Other languages: “estoy teniendo dolor en el pecho”

A **syndrome** is a group of associated symptoms:

- Fever
- GI
- Respiratory

A **subsyndrome** is a smaller, specific group of associated symptoms:

- Abdominal pain
- Difficulty breathing
- Diarrhea

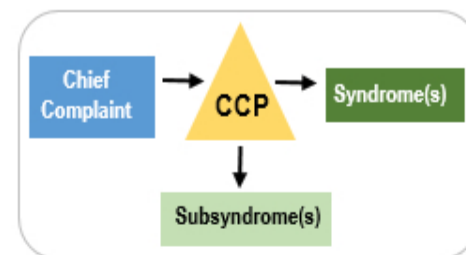


Figure 1. The Chief Complaint Processor (CCP) categorizes text.

NSSP Update: Questions and Tips

- Do you find that this is a helpful resource to learn about ESSENCE?
- Would you like to have an example from another jurisdiction using a feature discussed in the articles?
- Would you like to see more examples shared when new enhancements are available in ESSENCE?
 - What information is helpful for you?

Remember to Register for NSSP CoP June Call

NSSP Community of Practice Call

 Tell a Friend  Events in Series

A monthly NSSP-CoP conference call open to anyone interested in issues relating to the BioSense Platform, Meaningful Use and public health practice. The purpose of this call is to bring together various stakeholders with a vested interest in public health surveillance and spark collaborative efforts to share guidance, resources, and technical assistance. The call was created by merging the BUG, Meaningful Use and Public Health Practice community calls.



6/19/2018

When: 3:00 PM

Where: <https://attendee.gotowebinar.com/register/8363372915608977665>
United States

Contact: Emilie Lamb
elamb@syndromic.org

[« Go to Upcoming Event List](#)

This is a participant-driven call, which means all discussion items and questions are generated directly by the callers. This is a unique opportunity for people to come together from across the country to share best practices, lessons learned, and generate new ideas.

Remember to Register for NSSP CoP February Call

- The next call will be held on June 19, 2018, 3:00–4:30 PM ET
- Trending Topic-Pending
 - **Summer Surveillance-Lessons Learned from Last Year's Hurricane Season.**

Charter 2017-2018

Objective 1: Continue to increase awareness among acute care facilities (hospitals) about how BioSense data is used.

Deliverable 1: Implement a process to provide outreach to acute care facilities regarding updates, use, onboarding, etc., at a state and/or local level. Report on the status of the decided process(es).

Charter 2017-2018

Objective 2: Collaborate with the ADHS BioSense team, NSSP and ISDS to determine training needs, conduct trainings, review training and guidance materials, and disseminate training materials to relevant users.

Deliverable 2: Determine the best methods to train users on the BioSense Platform based on the evaluation of needs and available resources. Report on the number of users trained for use of the BioSense ESSENCE and/or back end analysis and the available methods and resources available.

SAS Pilot

Technology Update

We are working on the much anticipated Access & Management Center (AMC) Master Facility Table tool that will deploy in phases beginning spring 2018.

SAS Pilot—On March 12, 2018, NSSP and six volunteer sites launched a Web-based SAS Studio pilot. We thank our volunteers for their willingness to test SAS Studio. As with RStudio, sites will be able to use SAS Studio to access, manage, and analyze the NSSP data in the DataMart and data downloaded from ESSENCE.

In addition to evaluating the functionality of SAS Studio, the volunteers are evaluating system performance when data are accessed, which can be done in several ways:

- SQL passthrough (via SAS) running directly on SQL server
- Proc SQL running directly on SAS server
- Traditional SAS data step

We are also exploring the use of materialized data. For example, data in the SQL DataMart is materialized into CSV files and SAS data sets for direct access, minimizing impact on the SQL DataMart.

Syndrome Definition Committee (SDC) Calls

- Reasons you should attend the calls or listen to recordings
 - Group has been developing a syndrome definition to be added as a CC DD Category to NSSP ESSENCE
 - Lessons Learned from this process are being documented in a future guidance document
 - Process can be applied to other use cases for syndrome definition development and intended to be a NSSP Community of Practice resource

How can this help AZ?

- Materials can be accessed at any time, if you have an account on healthsurveillance.org.
- Lessons Learned can be utilized by the Exploratory Analysis Subgroup when working on new uses cases for AZ.
- ESSENCE users can learn about the syndrome definition process with context.

Syndromic Surveillance Public Health Emergency Preparedness Response and Recovery (SPHERR) Committee

Committees: SyS PH Emergency Preparedness, Response & Recovery

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Welcome



Syndromic Surveillance and Public Health Emergency Preparedness, Response and Recovery Committee

The Syndromic Surveillance and Public Health Emergency Preparedness, Response and Recovery (SPHERR) Committee helps syndromic surveillance and public health preparedness professionals fully integrate syndromic surveillance data and information into preparedness and emergency response and provides access to a national peer network for ad hoc support or collaborations during incidents and events of national interest (e.g., extreme weather events, and mass gatherings).

This group is a member of the **National Syndromic Surveillance Community of Practice (NSSP CoP)**. Be sure to also [join the NSSP CoP group!](#)

Blog Activity

P/E Call #5: Friday, June 1st

Post by Charles Ishikawa, Friday, June 1, 2018

Blog: [Meetings!](#)

[Comments \(0\)](#) [UnSubscribe](#)

P/E Call #4: Friday, May 18th - SyS and PHEP

Post by Catherine Tong, Friday, May 18, 2018

Blog: [Meetings!](#)

[Comments \(0\)](#) [UnSubscribe](#)

P/E Call #4: Friday, May 18th

Post by Charles Ishikawa, Monday, May 14, 2018

Blog: [Meetings!](#)

[Comments \(0\)](#) [UnSubscribe](#)

DE Workshop Georgia Syndromic Surveillance Hurricane Presentation that led to Miles From Home query- 05/15/2018

Post by William Smith, Friday, May 11, 2018

Blog: [SyS PH Emergency Preparedness, Response & Recovery](#)

[Comments \(0\)](#) [UnSubscribe](#)

Features

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Group Events

- Practice Exchange Call | SPHERR**
FRIDAY, JUNE 15, 2018
- Practice Exchange Call | SPHERR**
FRIDAY, JUNE 29, 2018

SPHERR Committee Calls

- Reasons you should attend the calls or listen to recordings
 - Group has been hosting practice exchange calls
 - Lessons Learned from this process can assist practitioners in their jurisdictions implement ideas applicable to their needs
 - Process can be applied to other use cases for syndromic surveillance and intended to be a NSSP Community of Practice resource

How can this help AZ?

- Materials can be accessed at any time, if you have an account on healthsurveillance.org.
- Lessons Learned can be utilized by the Exploratory Analysis Subgroup when working on new uses cases for AZ.
- ESSENCE users and Community of Practice (CoP) members can learn about the practice exchange process with context.

Charter 2017-2018

Objective 3: Assist ADHS and local health department users adapt to the NSSP transition. Continue to develop new and advance existing use cases which will include maintaining updates for current protocols.

Deliverable 3: Define new use cases for Arizona and any revisions for existing use cases. Report the number of use cases for routine analysis and event/outbreak analysis.

New Use Cases

- Call went out on Exploratory Analysis Subgroup meeting in April
- By May
 - Maricopa County and ADHS presentation on use of syndromic surveillance for Rocky Mountain Spotted Fever
 - Request sent out for participation in new use case for **Varicella Syndromic Surveillance**
 - Susan Robinson, ADHS
 - Xandy Peterson, ADHS
 - Laura Erhart, ADHS
 - Chelsey Donohoo, Coconino County
 - **Who else???**

Knowledge Repository

- Kara Tarter, ADHS and Rasneet Kumar, MCDPH are working together to add an external version of the Arboviral Syndromic Surveillance Protocol to the Knowledge Repository.

Charter 2017-2018

Objective 4: Evaluate Arizona's syndromic surveillance use cases and validate BioSense data.

Deliverable 4: Present to workgroup and/or subgroup results of evaluation. Report on number of evaluations presented.

Conference Abstracts

- Abstracts accepted
 - Council of State and Territorial Epidemiologist (CSTE) Conference
 - 2 for Maricopa County
 - Public Health Informatics (PHI) Conference
 - 1 ADHS
 - 1 ADHS and ISDS



- Are there other success stories we could submit?

Exploratory Analysis Subgroup Projects

- New Use Cases?
- Any Collaborative Ideas?

Annual NSSP Recipient Meeting

CDC FUNDING RECIPIENTS AND PARTNERSHIP UPDATES

Get Ready to Collaborate!

NSSP's 2018 Annual Recipient Meeting—Maintaining and Advancing Syndromic Surveillance—will be held in Atlanta, Georgia, on February 27–March 1, 2018. Through presentations, roundtable discussions, and hands-on training, participants will learn how to improve the nation's situational awareness and respond to hazardous events and disease outbreaks. In addition, Rear Admiral Michael F. Iademarco, MD, director of the Center for Surveillance, Epidemiology, and Laboratory Services (CSELS), will meet with funding recipients to answer questions.



Registration and hotel information have been emailed to funding recipients and the [agenda posted](#)  . If you did not receive this information, please contact your project officer. We look forward to another successful annual meeting!

**State and local public health authorities receive funding through [CDC-RFA-OE15-1502](#)  : Enhancing Syndromic Surveillance Capacity and Practice.*

Roundtables

- Information Sharing and Reporting
- Data Flow, Data Quality, and Data Validation
Production Process and Onboarding Process

Community of Practice Session

Request for your input:

Do you have any success stories on how the CoP has been used by members to increase or enhance their Sys practice?



Upcoming Meetings

Exploratory
Analysis
Subgroup

Thursday,
June 28 from
1:00 – 2:00

Exploratory
Analysis
Subgroup

Thursday,
July 19 from
1:00 – 2:00

THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

azhealth.gov

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 facebook.com/azdhs



ARIZONA DEPARTMENT
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Health and Wellness for all Arizonans