

Exploratory Analysis Subgroup

of the Arizona BioSense Workgroup

November 21st, 2017



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Objectives

- Welcome and Attendance
- Syndromic Surveillance Implementation Guide Updates
- Community of Practice Updates
 - November [Surveillance CoP](#) Call
 - Disaster Surveillance
 - Natural Disasters: Hurricanes and Wildfires
 - [Register](#) for the call on 11/28/2017@1:00pm-2:30pm
 - **Syndrome Definitions Committee**
 - [Register](#) for the call on 12/06/2017@10AM-11:00AM
 - [Syndrome Definition Library](#) Now Available
 - Check Out AZ Contributions
- ESSENCE Q & A
 - [Register](#) for the call 12/29/2017@11:00am-12:00pm
- Questions and Open Discussion
- Next Meetings



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Syndromic Surveillance Implementation Guides

Release 2.3 of the Implementation Guide is here!

After careful review of the community comments submitted during the previous comment period, **the latest version of the Implementation Guide for Syndromic Surveillance: Emergency Department, Urgent Care, Inpatient, and Ambulatory Care Settings, Release 2.3 is here.**

- [View Release 2.3 of the guide here.](#)
- [View the Print Version here](#)
- Submit your feedback on the guide via the following [webform](#). **The comment period will be open from 11/8/17 through 11/22/17 11:59pm Eastern. Due to the approaching holidays, there will NOT be an extension of the comment period deadline.**
 - Please make sure to include your contact information so that the Message Guide Workgroup can follow up if there are any questions regarding your feedback.
 - If you would like to view feedback that has already been submitted, you can view all submitted feedback [here](#).
 - If you would like to show support for or against feedback that has already been submitted, you can add a “comment” to a feedback item (a row of the spreadsheet). For more information about adding comments, please see the [instructions document here](#).
 - If you are interested in assisting with the review of these comments and the development of the next version of the guide, please join the [Messaging Guide Workgroup](#).

Syndromic Surveillance Implementation Guides

- ADHS Syndromic Surveillance Team
 - Commenting on the 2.3 Release of the Implementation Guide
 - Work underway to update the AZ Syndromic Surveillance Implementation Guide with the PHIN Guide 2.0 and erratum

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 is in the **process of revalidating** the data
 - Impacts both Syndromic Surveillance and ELR

Onboarding Updates

- IASIS Facilities
 - Mountain View Medical Center
 - St. Luke's Medical Center
 - Tempe St. Luke's Hospital
- Transitioning from EHR System on 10/31/2017
 - Change from McKesson to Cerner
 - ADHS will be revalidating the data and facilities have been placed back in the hold queue
 - Impacts Syndromic Surveillance

November NSSP Update

[Download the November issue as a PDF.](#) 

November 2017

OVERALL NSSP UPDATES

Welcome to NSSP Update

NSSP Update is published monthly by the National Syndromic Surveillance Program (NSSP) and brings you the latest news about the BioSense Platform.



To learn more, visit the [NSSP website](#). Link to more resources via the Syndromic Surveillance Community of Practice [Portal](#). 

Update on NSSP Hurricane Response

The NSSP Team continues to support Centers for Disease Control and Prevention Emergency Operations Center (CDC EOC), U.S. Department of Health and Human Services [Office of the Assistant Secretary for Preparedness and Response](#)  (ASPR), and other state partners affected by the hurricanes. Medical data from the Disaster Medical Assistance Teams, or DMATs, in Puerto Rico continue to flow through the BioSense Platform. Additionally, summarized data from the DMATs are provided to the CDC EOC for situational awareness.



IN THIS ISSUE:

- Overall NSSP
- Spotlight on SyS Practice
- Upcoming Events
- Last Month's Technical Assistance
- NSSP Participation
- Onboarding Updates
- NSSP Funding Recipients and Partnerships
- Community of Practice
- Archived *NSSP Update*

November NSSP Update

ESSENCE Update. The NSSP Team is starting to test a new version of ESSENCE (v1.21). This version comes with lots of enhancements—some that aren't so obvious to users, but others that are related to functionality that users have been requesting. As our testing progresses, we'll provide a comprehensive list of changes. For now, here are a few of the enhancements that we hope will simplify your daily surveillance activities:

- New access control system—designed to improve system performance and enable new levels of data sharing among sites and project collaborators;
- Bug fix* in table builder functionality;
- Improved graph overlay functionality;
- Ability to query multiple user-defined text fields when building free-text queries (not just chief complaint, CC/DD, or triage note alone)
- Ability to view data details (line list) of more than 5,000 records (currently, ESSENCE returns *no details*); and
- Overlay graphs in myESSENCE and the Report Manager.

This is just a glimpse at what's to come. Our goal is to complete testing this month so that ESSENCE v1.21 can be released later this year. More details to follow.

**We thank the users who brought this to our attention and encourage feedback on the BioSense Platform tools and applications.*

November NSSP Update

SPOTLIGHT ON SYNDROMIC SURVEILLANCE PRACTICE

We continue our series of articles examining literature that advances the practice of syndromic surveillance. This month's article is from a 2007 issue of CDC's Morbidity and Mortality Weekly Report (MMWR). Despite the article's age, it provides a good example of the increase in emergency department and hospital admissions for conditions associated with wildfires.

Monitoring Health Effects of Wildfires Using the BioSense System— San Diego County, California, October 2007¹

Last month, dry conditions led to fast-moving wildfires in California. Not only did the wildfires take lives and destroy infrastructure, the wildfires deteriorated air quality, circulated ash, and increased burns, eye irritation, and respiratory problems. The website for the U.S. Forest Service states “*Wildland fires are a force of nature that can be nearly as impossible to prevent, and as difficult to control, as hurricanes, tornadoes, and floods.*” Syndromic surveillance—a useful tool for situational awareness during natural disasters—is frequently used to monitor the toll taken on healthcare services and on the public during wildfires.

Much of the surveillance process described in the *MMWR* report applies now. In 2007, wildfires forced large-scale evacuations and destroyed thousands of acres. Data were essential for assessing health effects, planning the response, and evaluating whether the response worked.

CDC staff defined a “fire period” and used the nonparametric Kruskal-Wallis test to compare visits with pre-fire counts. Staff monitored data and informed health officials of increases in burns, respiratory disease, gastrointestinal diseases related to boil-water alerts, and cardiac dysrhythmias associated with smoke inhalation. Increases were apparent in visits for respiratory syndrome, asthma, and dyspnea. These data informed measures such as school closures and telephone evacuation orders. Today, however, most people get updates via weather radios, digital signage, sirens and speakers, television, smartphone applications, wireless emergency alerts (via mobile carriers), local emergency notification systems and state [emergency management agencies](#) [↗](#), and social media.

More Information

[Air Quality Index](#) [↗](#)

[When Wildfire Threatens](#)

(Podcast 5:50 minutes)

[Protect yourself from
Wildfire Smoke](#)

November Surveillance CoP Call

Surveillance Community of Practice Call

 Tell a Friend  Events in Series

A newly-formed, 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 this field 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.



11/28/2017

When: Tuesday, February 28, 2017
3:00 PM

Where: Go To Webinar registration: <https://attendee.gotowebinar.com/rt/2168546273482898690>
United States

Contact: Emilie Lamb
elamb@syndromic.org

November Surveillance CoP Call

- Guided Discussion Questions
 - What happens when a natural disaster impacts your community?
 - What tools will you use during your enhanced surveillance?
 - How can I be more prepared when the time comes?
 - What other data would help you have a better situational update of the event as it is occurring?
 - What questions have you been asked in reference to the disaster that you have not been able to answer?

November Surveillance CoP Call

- Behavioral Health
 - Interest in what others have done after a disaster?
 - Partnership or outreach conducted afterwards?

Remember to Register for future SDC Calls

Syndrome Definition Committee Call

[View Registrations](#)[Tell a Friend](#)[Events in Series](#)

12/6/2017

- [RSVP for this event](#)

When: Wednesday, December 6, 2017
1 - 2 PM ET

Where: <https://attendee.gotowebinar.com/rt/6116206436909396738>
United States

Contact: Rasneet Kumar
rasneetkumar@mail.maricopa.gov

[« Go to Upcoming Event List](#)

Registration Link

<https://attendee.gotowebinar.com/rt/6116206436909396738>

Syndrome Definition Library

Now Available

Welcome to the Syndrome Definition Library (Beta)

Click on a topic under the Syndrome Category section in the left column, then select a syndrome from the list of syndromes that appear for that topic. You may also search for specific syndromes by entering one or more keywords in the Search bar. You can filter the search results by Platform or Author Name.

Syndrome Category ▼

- Infectious Disease (5)
- Emergency Preparedness (4)
- Environmental Exposure (4)
- Behavioral Health (2)
- Injury (2)
- Occupational Health (1)

Syntax Platform >

Jurisdiction >

Surveillance System >

Heat-related Illness - CSTE Heat Workgroup

This definition is based the following document created by the CSTE Heat Workgroup: Heat-related Illness Syndrome Query: A guidance Document for Implementing Heat-related Illness Syndromic Surveillance in Public Health Practice (attached). The query is built using chief complaint and discharge... [Read more](#)

Homeless Population - Maricopa County Department of Public Health

This syndrome was created using BioSense 2.0 phpMyAdmin and later transitioned to ESSENCE. The syndrome queries chief complaint and discharge diagnosis fields. The Maricopa County data include emergency room and inpatient visits.

Zika - Arizona

This syndrome was created as a part of the Arizona Arboviral Syndrome Surveillance Project, which includes bi-weekly monitoring of syndromic data to enhance traditional surveillance. The syndrome was initially created using BioSense 2.0 phpMyAdmin and later transitioned to ESSENCE.

Chikungunya and Dengue - Arizona

ESSENCE Query Writer Tool Now Available



Zach Stein

🕒 11/02/2017 at 8:30 am



The ESSENCE Query Writing Tool we talked about on our 11/1/2017 Syndrome Definition Committee call can be found here: http://www.healthsurveillance.org/members/group_content_view.asp?group=190904&id=696728

Please let me know of any comments, question, or bugs you run into while using it at zach.stein@ks.gov

Thanks!

International Society For Disease Surveillance, Inc

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★ Like ➦ Share

★ 4

Using R shiny to Share Surveillance Data R Group for BioSurveillance:

Title:

Using R shiny to Share Surveillance Data

Description:

This presentation will cover how the shiny package can complement traditional surveillance reporting through online, interactive applications. I'll demonstrate a shiny application Cook County is currently using to share influenza data and walk through the steps I took to make the application and lessons learned. I'll review portions of the code available on Github here: https://github.com/kb230557/Flu_Shiny_App.

Presenter:

Kelley Bemis is the Enhanced Surveillance Program Manager in the Communicable Disease Unit at the Cook County Department of Public Health. She maintains a local ESSENCE instance and is responsible for seasonal surveillance of influenza and West Nile Virus. She is a former CDC/CSTE Applied Epidemiology Fellow and received her MPH from the Yale School of Public Health.

From Training Requests to Action

Date and Time:

Wednesday, November 29, 2017

1:00 pm - 2:00 pm EDT

Presenters:

Aaron Kite-Powell, MS, Health Scientist, CDC

Wayne Loschen, MS Computer Science, Johns Hopkins University Applied Physics Laboratory

Description:

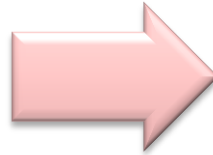
Aaron Kite-Powell, M.S., from CDC and Wayne Loschen, M.S., from JHU-APL are available during this 60-minute session to provide an overview of tips and tricks in ESSENCE to make it more useful for members. Come prepared with questions regarding ESSENCE functions, capabilities and uses to ask the panelists during the call.

Be sure to fill out the "Questions and Comments" section of the registration form to submit your questions ahead of time.

Upcoming Meetings

AZ BioSense Workgroup

- Tues. Dec. 05
from 1:00 – 2:00



Exploratory Analysis Subgroup

- Thurs. Dec. 28
from 1:00 – 2:00



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THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

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