

Arizona BioSense Workgroup Meeting

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Sara Chronister

Electronic Disease Surveillance Program
October 2nd, 2018



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

- Welcome and Attendance
- Reminder for BioSense Liaisons
- Charter
 - Year 4 Objectives and Deliverables
- Questions
- Other items



Updates

Electronic Partners Status Update

Hospital Onboarding

Registration of Intent = 69

Hold Queue = 43

Testing = *2

Validation = 2

Production = 24

Data Use Agreements

Hospitals = 66

Local Public Health
Jurisdictions = 15

Reminder for BioSense Liaisons

- Contact List
 - Please review the contact list by COB 10/16/2018 for
 - » Any changes or updates
 - » No changes needed
 - Contact syndromicsurveillance@azdhs.gov for more information.

Charter 2018-2019

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.

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.

2018-2019 Training

- **Data Quality**
- **RStudio Pro**
- **SAS Studio**
- **Train the Trainer Resources?**

**How can
you help us
achieve the
objective?**

- What are your Training Needs?
 - Format
 - Content

NSSP Community of Practice

Committees: Technical Committee

 Group Pages  Directory & Features  Options

 Group Directory

 Calendar

 Forums

Technical Committee

Our goal is to facilitate and improve:

1. Bi-directional communication between the National Syndromic Surveillance Program (NSSP) Community of Practice (CoP) and CDC's NSSP to ensure that syndromic surveillance data management, analysis, visualization and reporting needs are met.
2. Community task prioritization; As planned, this committee would receive and review summary reports from NSSP about pending developments or enhancement, both known to CDC as well as those submitted by users into JIRA. This process will give all users an understanding of how widespread a need is across jurisdictions, a forum to discuss preferred solutions and insight into development timelines for needed functionality.
3. Facilitating user requests that should be directed to other relevant partner group for action.
4. Feedback turn-around to NSSP CoP and ISDS members.

Meeting information will be coming soon.

Information on the group's meeting agendas, meeting notes, and meeting recordings coming soon.

NSSP SAS Studio

Program

UPDATES

Technology Update

ESSENCE V1.21 Release Notes—Notes about the enhancements deployed August 16, 2018, can be found [here](#)  and are posted in the NSSP Resource Center.

The NSSP Team thanks the stakeholders who participated in MFT User Acceptance Testing (UAT) in July. Their suggestions refined the MFT module and improved usability of the associated Quick Start Guide.

SAS—The NSSP team is upgrading the SAS system to provide more memory and CPU for SAS Studio. Also, the team developed the *BioSense Platform Quick Start Guide to Using SAS Studio*, which is scheduled for posting this month in the NSSP Resource Center. We will email you the details soon.

Legacy Data Transition

No change from August 2018. NSSP has converted legacy data into the production environment for 95% of the 43 sites that requested legacy migration. Two sites are being reviewed in the staging environment.

NSSP SAS Studio

Technical Support	• External ◦ N/A • Internal ◦ N/A
Data Analytics	• Legacy ◦ Finalize legacy conversion for two sites (pending site feedback). • Data Quality ◦ Transition routine Data Quality Reporting from ADM to <u>ICF</u>. ◦ Create draft of "at a glance" Operational <u>DQ</u> Dashboard. ◦ Conduct further Cube Requirements sessions. ◦ Provide <u>SSRS</u> and <u>DQ</u> requirements support.
Training and Communication	• Communications ◦ Create quarterly <u>SAS</u> report (Q3). ◦ Create quarterly <u>SAS</u> Report Metrics. ◦ Document system name, access method, and username and password for administrator accounts. ◦ Update <u>biosen.se</u> documentation and transition sites using <u>biosen.se</u> to <u>syndromicsurveillance.org</u> • Training ◦ N/A

Machine Learning ?s

What is machine learning and how can it advance public health surveillance?

Forum Index » Syndromic Surveillance General Discussion » What is machine learning and how can it advance public health surveillance?

Moderator(s): Emilie Lamb, Catherine Tong



Reply



Thread Actions

Search Forums



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9/20/2018 at 8:40:42 PM GMT



E. Lamb
Posts: 12

Permalink Report Quote

What is machine learning and how can it advance public health surveillance?

Hello there! Following the NSSP CoP Call on September 17, 2018, I was just wondering if anyone is aware of any resources that provide a basic overview of machine learning? Following the call, there seemed to be a lot of interest but I don't have any understanding of what is involved.

Also, are there any jurisdictions currently using machine learning for syndromic surveillance? If so, how, and would you be willing to share your experience and how you are using it on an NSSP CoP call?

If you weren't able to join us on the call, you can view a summary of the call and the meeting recording [here](#).

Emilie Lamb
Director of Informatics
ISDS

Syndrome Definition Library

Injuries



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Welcome to the Syndrome Library

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.

[Clear](#)

Syndrome Category ▾

- (-) Injury

Syntax Platform >

Jurisdiction >

Surveillance System >

[Clear Filters](#)

All Traffic Related, Washington State Department of Health, 2018

Objective: Capture all traffic-related injuries presenting to the emergency room regardless of intent or vehicle type to allow monitoring of long-term trends in traffic-related injuries as well as short-term aberrations due to holiday, events, weather.

Syndromic Surveillance System:... [Read more](#)

CDC Stimulants v1 (CCDD cat)

States currently funded by CDC's Enhanced State Opioid Overdose Surveillance (ESOOS) program have been monitoring opioid overdose trends in their states. Within the last year, they started to notice increases in overdose visits related to stimulant use. Because CDC had worked with these states... [Read more](#)

Syndrome Definition Library

Injuries getting more attention through Nssp Collaborations

Sexual Violence v2 - CDC

The query was updated and developed in collaboration with Nssp & CDC Division of Violence Prevention for a version 2 of the Sexual Violence syndrome. The syndrome is intended for rape prevention coordinators for their surveillance work at local and state health departments. The query has... [Read more](#)

Intimate Partner Violence v1 - CDC

The query was developed by Nssp and CDC Division of Violence Prevention. It was developed to assist rape prevention coordinators and project officers in doing sexual violence and intimate partner violence surveillance using syndromic surveillance. An ESSENCE CCDD category has been created and... [Read more](#)

Gunshot wound syndrome

Committees: [Syndrome Definition Committee Forum Index](#) » [Syndrome Definitions](#) » [Gunshot wound syndrome](#)

Moderator(s):



Reply

Thread Actions

Page 1 of 1

9/25/2018 at 4:16:53 PM GMT



R. Kumar
Posts: 7

Gunshot wound syndrome

Has anyone looked at gun shot related injuries in syndromic data and willing to share a your syndrome definition?

Thanks,
Rasneet



Permalink



Report



Quote

9/25/2018 at 4:25:59 PM GMT



A. Morse
Posts: 4

Hi Rasneet,

Washington has been working on this issue. We received a couple of requests from legislators and responded to them using what was captured by the query below:

```
( ^GSW^,or,^gun  
shot^,or,^gunshot^,or,^firearm^,or,^rifle^,or,^pistol^,or,^revolver^,or,^W33[01]^,or,^W34  
0[09]^,or,^W341[09]^,or,^W32[01]^,or,^X93XX^,or,^X94[0-  
9]^,or,^X95[89]^,or,^X72XX^,or,^X73[0-9]^,or,^X74[89]^,or,^Y22XX^,or,^Y23[0-  
9]^,or,^Y24[89]^ ) andnot ( ^nail gun^ or ^remove gun^ or ^no gun^ or ^paint^ or ^air
```



Permalink



Report



Quote

**How can
you help us
achieve the
objective?**

Do you have projects or interests in area of injuries?

- Provide feedback on
- syndrome definition process
- Questions for upcoming webinars
- Participate in forums

Charter 2018-2019

Objective 3: ADHS and local health department users with BioSense Platform tools, 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.

2018-2019 Use Cases

New Use Cases: 4

ILI

AFM

Varicella

RMSF

Ongoing Use Cases: 4

Arboviral

HRI

Mass Gatherings

Opioid Overdoses

**How can
you help us
achieve the
objective?**

Varicella ESSENCE Workgroup

- Provide feedback on syndrome definition process

NSSP Community of Practice

10/2/2018 at 2:43:38 PM GMT



K. Ciampaglio

Posts: 1

[Permalink](#) [Report](#) [Quote](#)

Hi all - I've recently started working with some folks over here at NSSP on syndrome definition development, specifically with chicken pox. I developed a query using the Chief Complaint Query Validation tool, and wanted to see if y'all had any thoughts on it. For example, if you see any terms or ICD 10 codes in my query that you think are unnecessary/not commonly seen based on your interactions with your state's data, or on the other end of the spectrum, if you think I'm missing a key component - feel free to let me know! Any and all comments are appreciated. Thanks! (Also, this is a draft - not final by any means)

```
(,[^/ ]B019^,or,[^/ ]B01.9^,or,[^/ ]Z20.820^,or,[^/ ]Z20820^),ANDNOT,  
(^vaccin^,or,^inocu^,or,^shingles^,or,^shot^,or,^immunization^,or,^inject^,or,^meningiti  
s^,or,^titer^,or,[^/ ]Z23^,or,[^/ ]Z23.0^,or,[^/ ]Z20.828^,or,[^/ ]Z00129^,or,[^/ ]  
Z00.129^),or,  
(^Chickenpox^,or,^ChickenPox^,or,^Postvaricella^,or,^Varicella^,or,^Pocks^,or,^chik_p  
o^),ANDNOT,  
(^vaccin^,or,^inocu^,or,^shingles^,or,^shot^,or,^immunization^,or,^inject^,or,^meningiti  
s^,or,^titer^,or,[^/ ]Z23^,or,[^/ ]Z23.0^,or,[^/ ]Z00129^,or,[^/ ]Z20.828^,or,[^/ ]  
Z00.129^),),
```

Thanks,

Kaitlyn Ciampaglio

Exploratory Analysis Subgroup Projects

- New Use Cases?
- Any Collaborative Ideas?

Charter 2018-2019

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.

AZ BioSense Opioid Workgroup

- BioSense Liaisons
 - Check your email for survey later today
- Projects

CDC Opioid Crisis Funds

- Enhance the use of syndromic surveillance for the opioid crisis by:
 - Increasing the number of facilities reporting, expand representativeness
 - Increasing the use of syndromic surveillance for opioid-related events at local, state and national levels

County Involvement

- Enhance opioid biosurveillance activities through the use of systems such as MEDSIS, syndromic surveillance, prescription drug monitoring program, death data, hospital discharge data, EMS data, poison control and other data systems. (This is meant to be flexible to allow for county-specific needs.)
- Active participation in the Arizona BioSense Opioid Workgroup, including webinar attendance.

Additional Project

- Compare visits across syndromic surveillance and hospital discharge database – do syndromes look the same?
- Evaluate if HDD can be reported faster by piggy-backing on the syndromic surveillance reporting method
 - Data elements
 - Process and workflow
 - User needs
 - Recommendations



Upcoming Meetings

Exploratory
Analysis
Subgroup

Thursday,
October 26 from
1:00 – 2:00

Exploratory
Analysis
Subgroup

Thursday,
November 20
from 1:00 – 2:00

THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

azhealth.gov

 @azdhs

 facebook.com/azdhs



ARIZONA DEPARTMENT
OF HEALTH SERVICES

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