

Exploratory Analysis Subgroup/AZ BioSense Opioid Workgroup

June 26, 2020



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Agenda

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- Welcome and Attendance
- Emergent Conditions
 - Coronavirus Disease 2019 [COVID-19](#)
 - Update for MEDSIS Resources-County-Syndromic Surveillance-COVID19-Detailed ESSENCE Line List
 - Hospitalized Field now available
 - Basecamp
 - AZ Shared Collaborative Space
 - OD2A DOSE Workgroup
 - Examples from Ohio and Illinois
 - NSSP Data Sharing
 - RShiny Dashboard Training
 - COVID-19 Exploratory Analysis
 - » Reports
 - Summaries ESSENCE CCDD Categories
 - Lab Data in ESSENCE Training
- ESSENCE Concepts
 - Lab Data in ESSENCE
 - More than COVID-19
 - Opioid, Opioid Overdose Treatment, Opioid Treatment
- Discussion/Open Mic
- Upcoming Meetings

Emergent Conditions

- Coronavirus Disease 2019 [COVID-19](#)

Coronavirus Disease 2019 (COVID-19)

CDC Situation Summary: <https://www.cdc.gov/coronavirus/2019-ncov/cases-updates/summary.html>

ADHS: <https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/index.php#novel-coronavirus-home>

ADHS Data Dashboard: <https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/covid-19/dashboards/index.php>

Emergent Conditions

ADHS MEDSIS Resources Spreadsheet

- Update for MEDSIS Resources-County-Syndromic Surveillance-COVID19-Detailed ESSENCE Line List
 - Hospitalized Field now available

Contact Syndromicsurveillance@azdhs.gov for more information about the survey to sign up for ADHS ESSENCE email alerts for Coronavirus.

Emergent Conditions

ADHS MEDSIS Resources Spreadsheet

The screenshot displays the 'Hospitalized_MEDSIS' spreadsheet in Microsoft Excel. The spreadsheet is organized into columns labeled S through AL and rows numbered 1 through 34. The columns are grouped into sections: 'Problem - Travel', 'Discharge', 'CCDD', 'CCDDCa', 'Category', 'SubCate', 'HasBeer', 'HasBeer', 'C_Death', 'Reporte', 'Matches', 'MEDSIS', and 'Hospitalized_MEDSIS'. The 'Hospitalized_MEDSIS' section is highlighted in yellow. The spreadsheet is open in Microsoft Excel, with the ribbon showing the 'Formulas' tab.

Contact Syndromicsurveillance@azdhs.gov for more information about MEDSIS Resources Spreadsheet

NSSP Updates

NSSP Community of Practice Resources

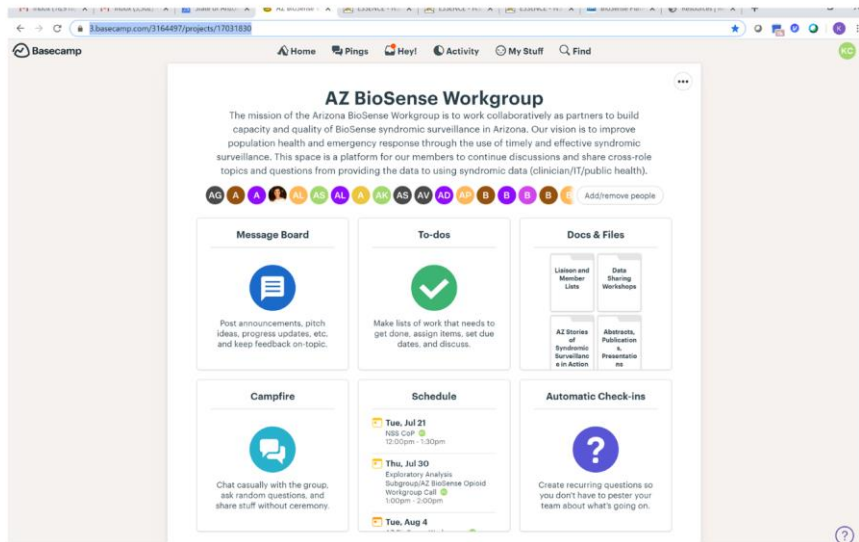
- **Syndrome Definition Subcommittee**
 - May 2020 (*Tips and Tricks in ESSENCE for COVID-19*): [Recording](#)
- **SPHERR Subcommittee**
 - May 1, 2020 (The Give: What Happened to My Denominator? Addressing Changing Numerators and Shrinking Denominators During COVID-19) - [Recording](#)
- **Overdose Surveillance Subcommittee:**
 - May 2020 - (Topic: Secondary Outcomes of COVID-19: Mental Health, Substance Use, and Injury) - [Recording](#), [Slides](#)

NSSP Updates

NSSP Community of Practice Resources

- **R Group for Biosurveillance**
 - **May 2020 Ad Hoc meeting** (Topic: CDC State Indicator Reports - A Hands On Introduction) - [Recording](#)
 - **May 2020 Ad Hoc meeting** (Topic: Analysis of COVID-19 Trends Using R) - [Recording](#), [R code](#)

Basecamp



Basecamp: <https://3.basecamp.com/3164497/projects/17031830>

OD2A DOSE Workgroup

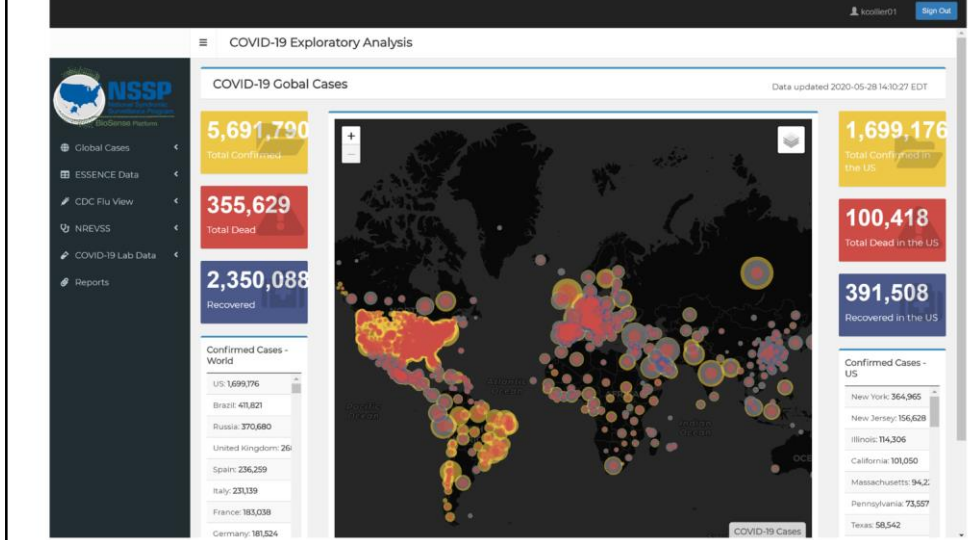
- May 2020 Call
- Presentations from Ohio and Illinois
- Slide Deck in Basecamp

NSSP CoP Calls Topics of Interest

- What questions does AZ have?
- ESSENCE Q & A
 - Lab data in ESSENCE
 - JIRA Ticket Submitted
 - Request being worked on
 - Data Dictionary coming!

Emergent Conditions

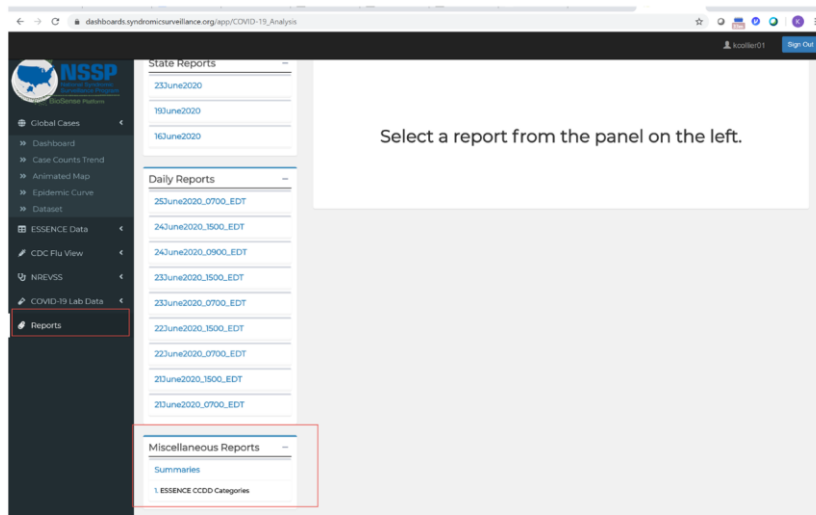
NSSP Data Sharing



Contact Syndromicsurveillance@azdhs.gov for more information about NSSP Data Sharing and access to the R Shiny dashboard, COVID-19 Exploratory Analysis, Lab Data in ESSENCE

Emergent Conditions

NSSP Data Sharing



Contact Syndromicsurveillance@azdhs.gov for more information about NSSP Data Sharing and access to the R Shiny dashboard, COVID-19 Exploratory Analysis

Emergent Conditions NSSP Data Sharing

The screenshot displays the NSSP Data Sharing dashboard. The left sidebar contains navigation links: Global Cases, Dashboard, Case Counts Trend, Animated Map, Epidemic Curve, Dataset, ESSENCE Data, CDC Flu View, NREVS, COVID-19 Lab Data, and Reports. The main content area is divided into three sections: State Reports (listing dates from 23June2020 to 16June2020), Daily Reports (listing specific times like 25June2020_0700_EDT), and Miscellaneous Reports (including Summaries and ESSENCE CCDD Categories). The right section, titled 'ESSENCE CCDD Categories_Summaries', shows a report titled 'ESSENCE Chief Complaint and Discharge Diagnosis Categories, 2019 to 2020' with a production date of 06/24/2020. Below the title is a detailed table of contents listing various categories and their corresponding page numbers.

Contents	
1	About
2	Total Emergency Visits
2.1	Total Emergency Room Visits by Year
2.2	Total Emergency Room Visits By Age Group
2.3	Total Emergency Visits by Sex
3	Alcohol and Drug Related Categories
3.1	CDC Alcohol v1
3.2	CDC All Drug v1
3.3	CDC EVALI v1-Mannually limit to ages 11-34
3.4	CDC Heroin Overdose v1
3.5	Marijuana v1
3.6	CDC Medication Refill v1
3.7	CDC Opioid Overdose v2
3.8	CDC Stimulants v1
3.9	CDC Vaping and E Cig Injuries v1
4	Communicable Disease Categories
4.1	CDC Acute Hepatitis C v1
4.2	CDC Chicken Pox v1
4.3	CDC Chronic Hepatitis C v1
4.4	CDC Infectious Mononucleosis v1
4.5	CDC Hand Foot and Mouth v1
4.6	CDC Hepatitis A v1
4.7	CDC Influenza (ID) v1
4.8	ILI (Influenza-like Illness) CCDD v1
4.9	ILI Negative Influenza Monitor v1

Contact Syndromicsurveillance@azdhs.gov for more information about NSSP Data Sharing and access to the R Shiny dashboard, COVID-19 Exploratory Analysis

ESSENCE Concepts

- Lab Data in ESSENCE
 - More than COVID-19
 - Opioid, Opioid Overdose Treatment, Opioid Treatment
 - How could this be helpful for overdose surveillance activities?

ESSENCE Concepts

Query Configuration

The screenshot displays the ESSENCE Query Wizard interface. At the top, there are links for 'Add to myESSENCE', 'Share URL', and 'API URL'. Below this, the 'Query Wizard' section includes several configuration options: 'Datasource' is set to 'Laboratory by AccessionID (Full)' (highlighted with a red box), 'Time Resolution' is 'Daily', 'Detector' is 'Regression/EWMA 1.2', 'As Percent Query' is 'No Percentage Query', 'Start Date' is '25Mar20', and 'End Date' is '23Jun20'. The 'Available Query Fields' list on the left includes 'Laboratory by AccessionID (Full Details)', 'MyFilters', 'Lab Keyword Syndrome', 'Date Type', 'Zipcode', 'Region', 'State', 'HHS Region', 'Healthcare Provider Zipcode', 'Healthcare Provider Region', 'Healthcare Provider State', 'Healthcare Provider HHS Region', 'Healthcare Provider Name - Free Text', and 'ORU Provider ID'. The 'Selected Query Fields' list on the right includes 'Date Type' (Event Date), 'State' (Arizona), and 'Results - Drug Test Result Type - List - Opioid or Cocaine or etc' (highlighted with a red box). The bottom of the wizard features a 'Series Options' section with buttons for 'Table Builder', 'Time Series', 'Data Details', 'Graph Builder', 'Overview', 'Adv. Qry', 'Explain Qry', and 'Reset'. A 'MyFilter:' input field and a 'Create' button are also present.

Contact Syndromicsurveillance@azdhs.gov for more information.

- Request training if you aren't sure how to set up a particular query.
- Set the data source to Laboratory by AccessionID (Full Details)
- Select Results-Drug Test Result Type-List-Opioid or Cocaine or etc
 - Opioid, Opioid Overdose Treatment, Opioid Treatment

ESSENCE Concepts Lab Data in ESSENCE

- ORU_C_Ordered_Test_Combo_flat
- ;071282 Amphetamines Confirmation
Ur;071316 Cannabinoid Confirmation
Ur;700070 Methadone Confirmation
Urine;738660 Fentanyl and Analogues;763910
Benzodiazepines Confirm Urine;

ESSENCE Concepts Lab Data in ESSENCE

- ORU_C_Ordered_Test_Combo_flat
- ;071282 Amphetamines Confirmation Ur;764220 Fentanyl/Norfentanyl Confirm;
- ;071308 Benzodiazepine ConfirmationUr;071316 Cannabinoid Confirmation Ur;071456 Opiate Confirmation Urine;
- ;071308 Benzodiazepine ConfirmationUr;071456 Opiate Confirmation Urine;
- ;071308 Benzodiazepine ConfirmationUr;764220 Fentanyl/Norfentanyl Confirm;

NSSP ESSENCE

Lab data in ESSENCE

- How can this information be useful?
- What do we need to learn about this new data source?
- Who can help us?
 - NSSP
 - Arizona State Public Health Lab
 - Others?

Discussion/Open Mic

- How can we apply the tools and practices developed for COVID-19 to other use cases?
- Would some of this support overdose surveillance activities?
- How can current automated processes reduce burden?

Homework

- What questions do you have about current projects?
- What ideas do you have for future projects?
- What ESSENCE questions or issues have you come across?
- **What other resources can we work on putting together?**

Upcoming AZ Syndromic Meetings

Exploratory Analysis
Subgroup/AZ
BioSense Opioid
Workgroup

Thursday, July
30th from 1:00
– 2:00

AZ BioSense
Workgroup

Thursday,
August 6th from
1:00 – 2:00

THANK YOU

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azhealth.gov

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📘 facebook.com/azdhs



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