

Exploratory Analysis Subgroup/AZ BioSense Opioid Workgroup

May 28, 2020



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans

Agenda

- Welcome and Attendance
- Emergent Conditions
 - Coronavirus Disease 2019 [COVID-19](#)
 - Update for MEDSIS Resources-County-Syndromic Surveillance-COVID19-Detailed ESSENCE Line List
 - NSSP Data Sharing
 - OD2A Tier 1-Line Level Access
 - R Shiny Dashboard Training
 - COVID-19 Exploratory Analysis
 - » Alert Maps
 - » Reports
 - Lab Data in ESSENCE Training
 - Secondary Outcomes related to COVID-19 Pandemic: Mental Health and Overdose Surveillance, Environmental Health

Agenda

- ESSENCE Concepts
 - ADHS dashboards available in myESSENCE Dashboard Library for Download
 - AZ_HEOC_COVID-19
 - Suggestions:
 - Patient Class and C_Death_Indicator
 - Alert List
 - CCDD Spatial
- Discussion/Open Mic
- Upcoming Meetings

NSSP CoP Ad-Hoc Calls Topics of Interest

- What questions does AZ have?

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

- Email alerts API updated to new CCDD Category in NSSP
ESSENCE:
 - CLI CC with CLI DD and Coronavirus DD v1

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

- Intended to an alert
- Not sending too many details
- MEDSIS Resources will have Line List with more information

Emergent Conditions

ADHS MEDSIS Resources Spreadsheet

Secure Messaging Resources

MEDSIS Resources

Search

Drag and drop files anywhere to upload

Home / Pima County / Syndromic Surveillance / COVID-19

File	Created By	Created On
Pima_SS_Case_Finding_Report_for_COVID-19-2019-01.xlsx	Medis Medis	Mar 30 2020 11:30 AM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-03.xlsx	Medis Medis	Apr 23 2020 11:30 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-04.xlsx	Medis Medis	May 07 2020 10:30 AM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-07.xlsx	Medis Medis	Apr 15 2020 10:30 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-08.xlsx	Medis Medis	Apr 04 2020 11:30 AM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-09.xlsx	Medis Medis	Apr 27 2020 02:30 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2019-12.xlsx	Medis Medis	Apr 07 2020 06:30 AM
Pima_SS_Case_Finding_Report_for_COVID-19-2020-01.xlsx	Medis Medis	May 27 2020 04:31 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2020-02.xlsx	Medis Medis	May 27 2020 04:31 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2020-03.xlsx	Medis Medis	May 27 2020 04:31 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2020-04.xlsx	Medis Medis	May 27 2020 04:31 PM
Pima_SS_Case_Finding_Report_for_COVID-19-2020-05.xlsx	Medis Medis	May 28 2020 05:30 AM

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

- Note that the Patient Class and C_Death fields from the ADHS ESSENCE email alerts and MEDSIS Resources Spreadsheet contain these fields as of 5/27/2020.
- Data in the spreadsheet was refreshed with new addition of fields from January 2020 to current date.
- New feature in MEDSIS-"New" tag was added in the last MEDSIS build and intended to let the user know this file was uploaded in MEDSIS in the last 48 hours. The flag will disappear if the file was more than 2 days old.

Emergent Conditions

ADHS MEDSIS Resources Spreadsheet

The screenshot shows a Microsoft Excel spreadsheet titled "Hennepin Case Finding Report for COVID-19_2020-01 - Excel". The ribbon at the top includes tabs for File, Home, Insert, Page Layout, Formulas, Data, Review, View, and Account. The Home tab is active, showing options for Font, Paragraph, Styles, and Editing. The formula bar displays "HasBeerd". The spreadsheet grid shows columns labeled O through AI and rows numbered 1350 through 1389. The data in row 1350 includes "OhselComp Admit_Rea TriageNote ClinicImp Problem_IJ Travel_Hist DischargeD DischargeD DischargeD DischargeD DischargeD CCDCatg Category_F SubCatego", "HasBeerd", "HasBeerd", "C_Death", and "Reported_J_Matched_A MEDSIS_Case".

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](#)

Emergent Conditions

NSSP Data Sharing

- OD2A Line Level Access
 - Access
 - Given to OD2A User Group per grant as Tier 1 recipient
 - Rule Turned on 5/11/2020

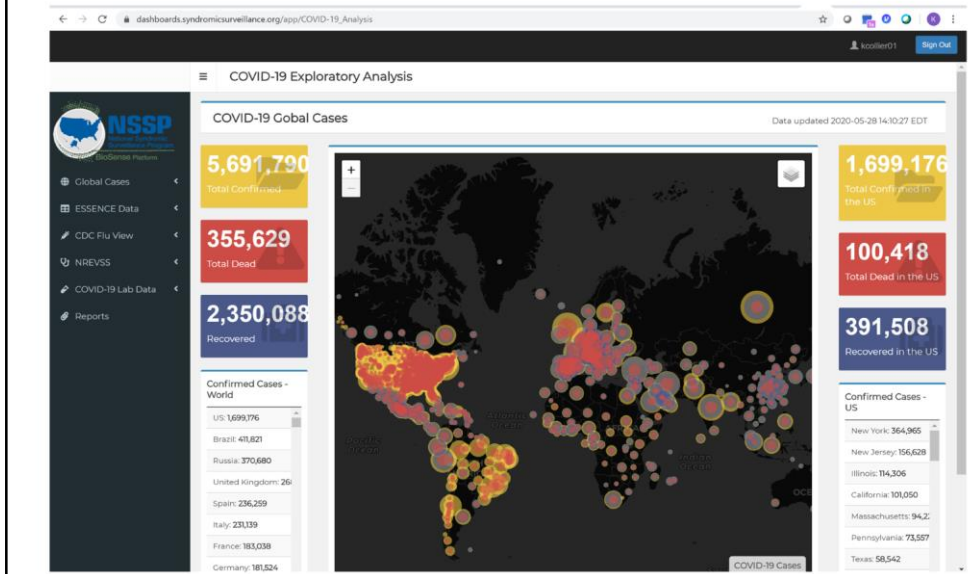
Emergent Conditions NSSP Data Sharing

- R Shiny Dashboard
 - COVID-19 Exploratory Analysis
 - *Special Considerations
 - If local public health jurisdictions would like to discuss accessing this data, contact syndromicsurveillance@azdhs.gov
 - Access requests will need to go through your BioSense Liaison

Contact [Syndromicsurveillance@azdhs.gov](mailto: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, Lab Data in ESSENCE

Emergent Conditions NSSP Data Sharing

- Lab Data in ESSENCE
 - Access given to 7 counties
 - Cochise, Coconino, Maricopa, Mohave, Navajo, Yuma
 - 1 call with NSSP to provide initial feedback on 5/18/2020
- **What are your training needs?**

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

- Lab Data in ESSENCE
 - Currently has commercial lab data available from 6 commercial labs across nation
 - *Special Considerations
 - If local public health jurisdictions would like to discuss accessing this data, contact syndromicsurveillance@azdhs.gov
 - Access requests will need to go through your BioSense Liaison

Contact [Syndromicsurveillance@azdhs.gov](mailto: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

- Secondary Outcomes related to COVID-19 Pandemic:
Mental Health and Overdose Surveillance,
Environmental Health
- **What are your questions?**

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 Secondary Outcomes of COVID-19 Pandemic

- ADHS Syndromic Surveillance Team meeting with other programs to understand concerns about needs during this pandemic
 - What social distancing impacts and stay at home orders are having on data?
 - Are we seeing increases in other areas such as mental health, overdose surveillance, environmental health?
 - What assistance do you need to support these areas within your jurisdiction?
 - How can we look across surveillance systems to understand whole picture?

Coronavirus Disease 2019 (COVID-19)

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

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Emergent Conditions

MEDSIS Resources ESSENCE Line Lists

- Feedback Requested for:
 - How to improve Line Lists?
 - Do these meet your needs?
 - Have the Line Lists prompted any public health actions?

Contact Syndromicsurveillance@azdhs.gov for more information about the survey to sign up for ADHS MEDSIS Resources for ESSENCE Line Lists for Coronavirus

Emergent Conditions

MEDSIS Resources ESSENCE Line Lists

- Feedback Requested
- How to improve Line Lists?
 - Patient Class Added
 - C_Death

Contact Syndromicsurveillance@azdhs.gov for more information about the survey to sign up for ADHS MEDSIS Resources for ESSENCE Line Lists for Coronavirus

ESSENCE Concepts

- ADHS dashboards available in myESSENCE Dashboard Library for Download
 - AZ_HEOC_COVID-19
- Suggestions:
 - Patient Class and C_Death_Indicator
- Alert List
 - CCDD Spatial

ESSENCE Concepts

- AZ_HEOC_COVID-19 available
- Request training if you have questions
 - Example: I want to recreate the trends on ADHS website, how do I do this?

ESSENCE Concepts

Query Configuration

The screenshot displays the ESSENCE Query Configuration interface. At the top, there is a navigation bar with links like Home, Alert List, myAlerts, myESSENCE, Event List, Overview Portal, Query Portal, Stat Table, Map Portal, Bookmarks, Query Manager, Data Quality, Report Manager, and More. Below this, the 'Query Wizard' dialog box is open. It contains several sections: 'Query Options' with a 'Query name' field and buttons for 'Save Query', 'Create myAlert', 'Save Report Query', and 'Add to myESSENCE'; 'Configuration Options' with fields for 'Data source', 'Time Resolution', 'Detector', 'As Percent Query', 'Start Date', and 'End Date'; 'Available Query Fields' on the left, which lists various data sources and categories; and 'Selected Query Fields' on the right, which lists the fields chosen for the query. The 'Selected Query Fields' list includes 'Geography System', 'Hospital Region', 'Medical Grouping System', 'CC and DD Category', 'Facility Type', 'Has Been Emergency', 'Has Been Inpatient', and 'C_Death'. At the bottom of the dialog, there are buttons for 'Table Builder', 'Time Series', 'Data Details', 'Text Analysis', 'Graph Builder', 'Overview', 'Add Qry', 'Explain Qry', and 'Reset'. A 'MyFilter' field and a 'Create' button are also present at the bottom right.

Contact Syndromicsurveillance@azdhs.gov for more information.

- Request training if you aren't sure how to set up a particular query as Pima County has been doing.
- Patient Class and C_Death fields are now present in MEDSIS Resources Spreadsheet.

ADHS MEDSIS Resources Spreadsheet

The screenshot shows the Microsoft Excel application window. The title bar reads "Pine331.Case_Finding_Report_for_COVID-19_2020-01 - Excel". The "Formulas" tab is active on the ribbon, showing options like "AutoSum", "Fill", "Sort & Find & Filter", and "Share". The spreadsheet grid shows columns labeled AD through AI. The first row of data contains the following text: "ChiefCompt Admit_Res TriageNote ClinicalImp Problem_U Travel_Hist DischargeD DischargeD DischargeD DischargeD CCDD CCDD Categ Category_F SubCategory HasBeenE HasBeenE C_Death Reported_U Matched_A MED550_Case". The status bar at the bottom indicates "CUI Visits in ESSENCE".

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

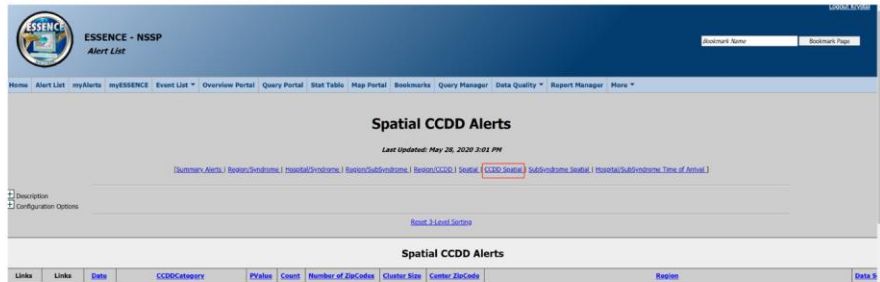
- Note that the Patient Class and C_Death fields from the ADHS ESSENCE email alerts and MEDSIS Resources Spreadsheet contain these fields as of 5/27/2020.

NSSP ESSENCE Alert List

- Check Alert List Tab for recent CCDD Category spatial alerts
- Alert Map in Coronavirus Exploratory Analysis Dashboard connects to these alerts

ESSENCE Concepts

Alert List



The screenshot displays the ESSENCE - NSSP Alert List interface. The header includes the ESSENCE logo and navigation links such as Home, Alert List, myAlerts, myESSENCE, Event List, Overview Portal, Query Portal, Stat Table, Map Portal, Bookmarks, Query Manager, Data Quality, Report Manager, and More. The main content area is titled "Spatial CCDD Alerts" and shows a breadcrumb trail: (Summary/Alerts / Review/Syndromics / Hsspatial/Syndromics / Review/Syndromics / Review/CCDD / Spatial / CCDD Spatial / Subsyndromics/Spatial / Hsspatial/Syndromics/Time of Arrival). A "Last Updated: May 26, 2020 2:01 PM" timestamp is present. Below the breadcrumb trail, there are links for "Description" and "Configuration Options". A "Reset & Load Section" button is also visible. The table below has columns: Links, Links, Date, CCDDCategory, PValues, Count, Number of ZipCodes, Cluster Size, Center ZipCode, Region, and Data 3.

Links	Links	Date	CCDDCategory	PValues	Count	Number of ZipCodes	Cluster Size	Center ZipCode	Region	Data 3
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Contact Syndromicsurveillance@azdhs.gov for more information.

- Open NSSP ESSENCE and the Alert List tab.
- Click on CCDD Spatial

ESSENCE Concepts

Alert List

The screenshot shows the ESSENCE - NSSP Alert List interface. The header includes the ESSENCE logo and navigation links: Home, Alert List, myAlerts, myESSENCE, Event List, Overview Portal, Query Portal, Stat Table, Map Portal, Bookmarks, Query Manager, Data Quality, Report Manager, and More. The main content area is titled "Spatial CCDD Alerts" and shows a "Last updated: May 26, 2020 3:02 PM" timestamp. Below this, there are links for Summary Alerts, Review Syndromes, Hospital Syndromes, Review Sub-Syndromes, Review CCDD, Search, CCDD Search, Sub-Syndromes Search, Hospital Sub-Syndromes Time of Arrival, and a Description link. A "Configuration Options" link is highlighted. The configuration form includes a "Data Configuration" section with a "CCDD Category" dropdown menu (showing "CDC Chronic Overdose v1") and "Start Date" and "End Date" fields (both set to "20 May"). A "Change Configuration" button is visible. Below the configuration form, there is a table titled "Spatial CCDD Alerts" with columns: Links, Date, CCDDCategory, Priority, Count, Number of ZieCode, Cluster Size, Center ZieCode, Region, and Data. The table is currently empty.

Contact Syndromicsurveillance@azdhs.gov for more information.

- Click on Configuration Options
- Click on CCDD Category and Start and End date
- Click on Change Configuration
- Review yellow and red alerts by region (county)

Discussion/Open Mic

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

AZ BioSense
Workgroup

Thursday, June
4th from 1:00
– 2:00

Exploratory Analysis
Subgroup/AZ
BioSense Opioid
Workgroup

Thursday, June
25th from
1:00 – 2:00

THANK YOU

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ARIZONA DEPARTMENT
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