

Arizona BioSense Workgroup Meeting

**Eli Price, Krystal Collier, Yong Wang
Electronic Disease Surveillance Program
August 13th, 2020**



**ARIZONA DEPARTMENT
OF HEALTH SERVICES**

Health and Wellness for all Arizonans

- Welcome and Attendance
- Updates
 - Facility Onboarding
 - Data Sharing
 - Data Use Agreement with CDC-Executed
 - [ADHS COVID-19 Data Dashboard](#)
 - Hospital COVID-like & Influenza-like Illness Surveillance
 - Reopening Benchmarks and Recommendations for COVID-like Illness (CLI)
 - » [Schools](#)
 - » [Business](#)
 - [CDC COVID Data Tracker: ED Trends](#)
 - CDC OD2A
 - [DOSE System-Nonfatal Drug Overdoses](#)

- Use Cases
 - COVID-19
 - Reopening Benchmarks for COVID-like Illness
 - Tools and Resources
 - Training
 - Approval Process for Sharing CLI data with Partners
- Questions
- Other items

Facility Onboarding Updates

- Facilities in Testing and Validation
 - O.A.S.I.S Hospital
 - Tuba City Corporate Regional Healthcare
 - Summit Healthcare
 - Mt. Graham Regional Medical Center
 - Mayo Clinic Hospital
 - Steward Healthcare
 - Tempe St. Luke's Hospital (revalidation)
 - Mountain Vista Medical Center (revalidation)
 - Florence Hospital

Current Facilities in Production

Apache County

White Mountain Regional Medical Center

Coconino County

Page Hospital

Cochise County

Canyon Vista Medical Center
Copper Queen Community Hospital
Douglas Emergency Department
Northern Cochise Community Hospital

Gila County

Banner Payson Medical Center

La Paz County

La Paz Regional Hospital

Mohave County

Havasupai Regional Medical Center
Kingman Regional Medical Center
Kingman Regional Medical Center - Hualapai Mountain
Campus
Valley View Medical Center
Western Arizona Regional Medical Center

Navajo County

Little Colorado Medical Center

Pima County

Banner University Medical Center South
Banner University Medical Center Tucson
Marana Hospital
Northwest Emergency Center at Marana
Northwest Emergency Center at Vail
Northwest Medical Center
Oro Valley Hospital
St. Joseph's Hospital
St. Mary's Hospital
Tucson Medical Center

Pinal County

Banner Goldfield Medical Center
Banner Ironwood Medical Center
Banner Casa Grande Medical Center
AZ-Dignity Health Urgent Care-Maricopa

Santa Cruz County

Holy Cross Hospital

Yavapai County

Yavapai Regional Medical Center East Campus
Yavapai Regional Medical Center West Campus

Yuma County

Yuma Regional Medical Center

Comprehensive

- Not all hospitals in AZ can or do participate
- Currently have 76 facilities in 13 counties (total is for ED and Inpatient facilities)
 - Represents 89% of all ED visits that occur in AZ
 - Represents 90% of all Inpatient visits that occur in AZ

Current Facilities in Production

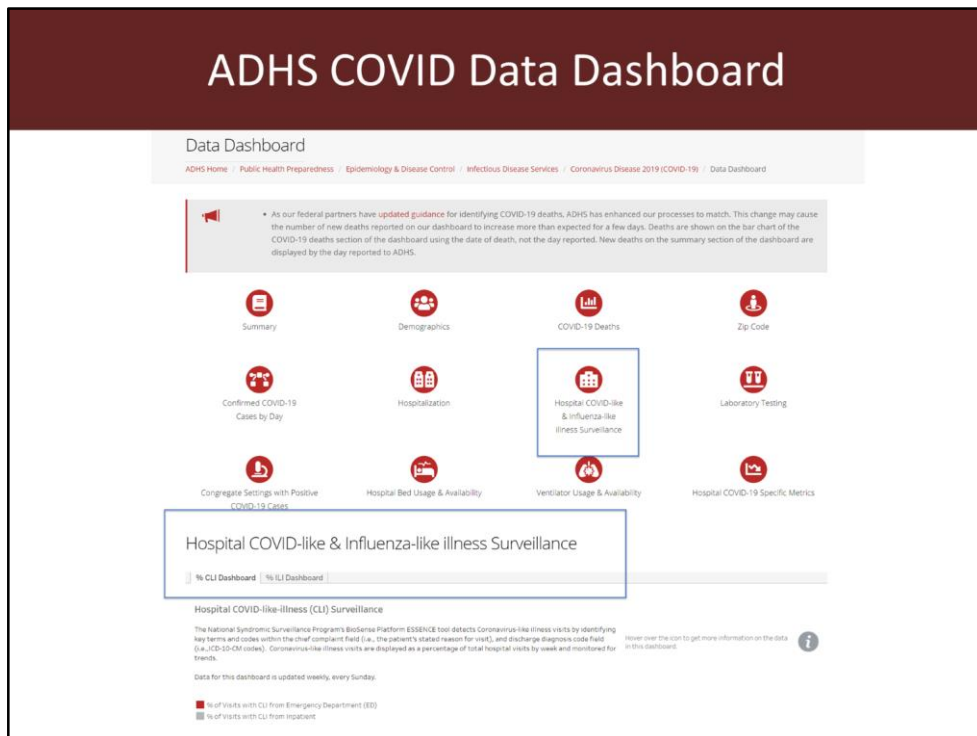
Maricopa County

Abrazo Arizona Heart Hospital
 Abrazo Arrowhead Campus
 Abrazo Buckeye Emergency Center
 Abrazo Cave Creek Hospital
 Abrazo Central Campus
 Abrazo Mesa Hospital
 Abrazo Peoria Emergency Center
 Abrazo Scottsdale Campus
 Abrazo Surprise Hospital
 Abrazo West Campus
 Arizona General Hospital - Ahwatukee Emergency Room
 Arizona General Hospital - Chandler Emergency Room
 Arizona General Hospital - Chandler McQueen Emergency Room
 Arizona General Hospital - Glendale Emergency Room
 Arizona General Hospital - Glendale Camelback Emergency Room
 Arizona General Hospital - Gilbert Emergency Room
 Arizona General Hospital - Goodyear Emergency Room
 Arizona General Hospital - Laveen
 Arizona General Hospital - Mesa
 Arizona General Hospital - Mesa-Baseline Emergency Room
 Arizona General Hospital - Mesa Emergency Room
 Arizona General Hospital - San Tan Valley Emergency Room
 Arizona General Hospital - Surprise Emergency Room
 Arizona General Hospital - Tempe Emergency Room
 AZ-Dignity Health Urgent Care – Ahwatukee

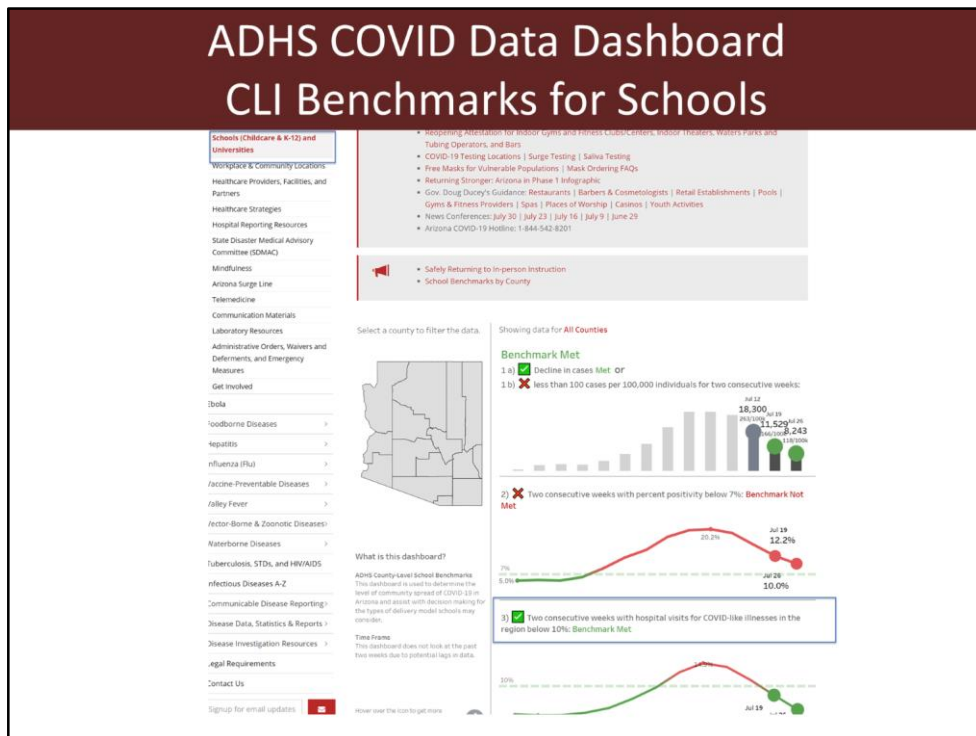
AZ-Dignity Health Urgent Care – Gilbert
 AZ-Dignity Health Urgent Care - Queen Creek
 AZ-Dignity Health Urgent Care - Maricopa
 Banner Baywood Medical Center
 Banner Boswell Medical Center
 Banner Del E. Webb Medical Center
 Banner Desert Medical Center
 Banner Estrella Medical Center
 Banner Gateway Medical Center
 Banner Heart Hospital
 Banner Thunderbird Medical Center
 Banner University Medical Center Phoenix
 Chandler Regional Medical Center
 Deer Valley Medical Center
 John C. Lincoln Medical Center
 Maryvale Emergency Center
 Mercy Gilbert Medical Center
 Mountain Vista Medical Center
 Scottsdale Osborn Medical Center
 Scottsdale Shea Medical Center
 Scottsdale Thompson Peak Medical Center
 Sonoran Health and Emergency Center
 St. Joseph's Hospital and Medical Center
 St. Joseph's Westgate Medical Center
 Tempe St. Luke's Medical Center
 Valleywise Health Medical Center

Comprehensive

- Not all hospitals in AZ can or do participate
- Currently have 76 facilities in 13 counties
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<https://www.azdhs.gov/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/covid-19/dashboards/index.php>



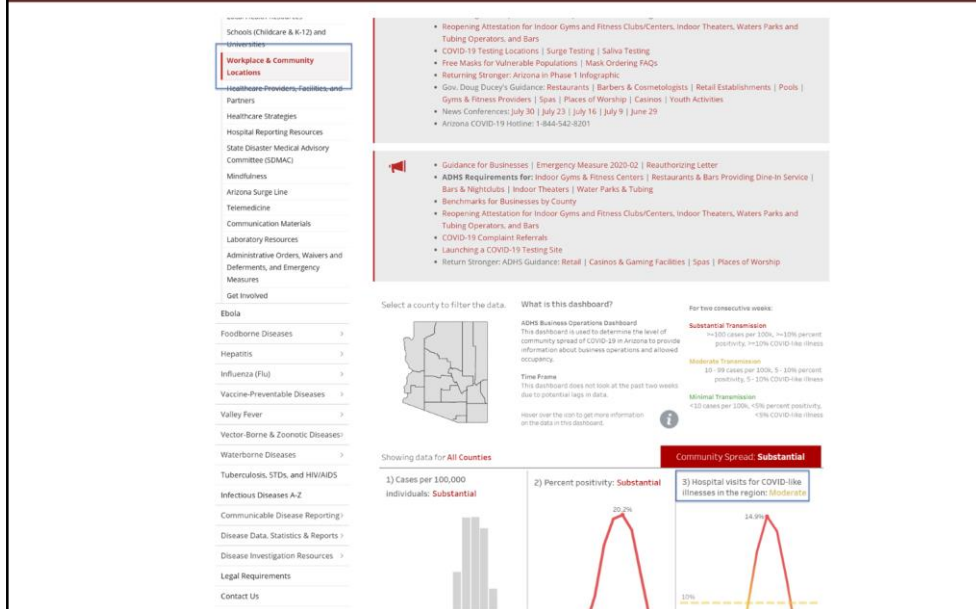
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<https://www.azdhs.gov/documents/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/novel-coronavirus/covid-19-school-benchmarks-county.pdf>

<https://azgovernor.gov/governor/news/2020/08/arizona-department-health-services-releases-school-benchmarks>

ADHS COVID Data Dashboard

CLI Benchmarks for Businesses



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

<https://www.azdhs.gov/documents/preparedness/epidemiology-disease-control/infectious-disease-epidemiology/novel-coronavirus/business-benchmarks.pdf>

<https://azgovernor.gov/governor/news/2020/08/arizona-department-health-services-phased-reopening-plan-paused-industries>

CDC Data Use Agreement

- Executed as of 08/11/2020

CDC OD2A

- [DOSE System-Nonfatal Drug Overdoses](#)
 - Line Level data AZ is sharing with CDC gets posted to this website.
 - Due to COVID-19 there has been a pause in data uploads to this website.

CDC OD2A

CDC - Opioid Overdose - Data - Nonfatal Drug Overdoses



Opioid Overdose

Opioid Basics

Data

Data Analysis and Resources

Drug Overdose Deaths

Nonfatal Drug Overdoses

DOSE System

All Drugs

All Opioids

Heroin

All Stimulants

Prescription Opioids

U.S. Prescribing Rate Maps

Heroin Overdose

Synthetic Opioid Overdose

Fentanyl Encounters Data

Other Drugs

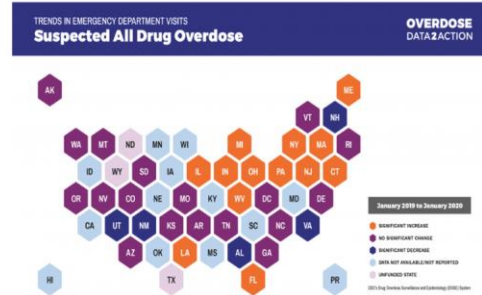
Overdose Prevention

Information for Patients

Nonfatal Overdoses: All Drugs

The drug overdose data presented below come from CDC's Drug Overdose Surveillance and Epidemiology (DOSE) system. CDC has analyzed data from syndromic surveillance of suspected drug overdoses. Data presented here include percent change estimates in rates of suspected drug overdoses per 10,000 ED visits. These suspected all drug overdose percent change estimates may change as CDC receives updated data, so estimates should be interpreted with caution.

The map below provides annual percent change estimates in rates of all drug overdoses per 10,000 ED visits for the most recent month of data. The "About This Map" section provides the specific data for the map and also all other annual percent change estimates. The other tables provide annual and monthly percent change estimates overall, by state, and by sex and age group.



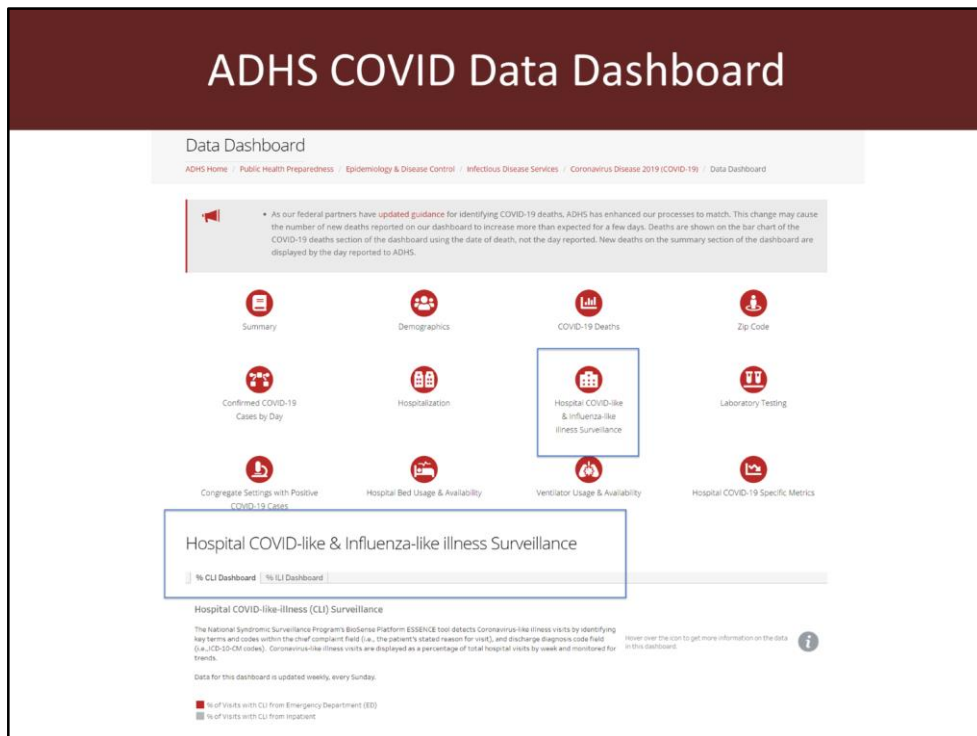
About This Map

Use Case: COVID-19

- Reopening Benchmarks for COVID-like Illness
 - Tools and Resources
 - Training
 - Approval Process for Sharing CLI data with Partners

Use Case: COVID-19

- Reopening Benchmarks for COVID-like Illness
 - Tools and Resources
 - ADHS Data Dashboard



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

ADHS COVID Data Dashboard

Hospital COVID-like & Influenza-like illness Surveillance

% CU Dashboard | % IU Dashboard

Hospital COVID-like-illness (CU) Surveillance

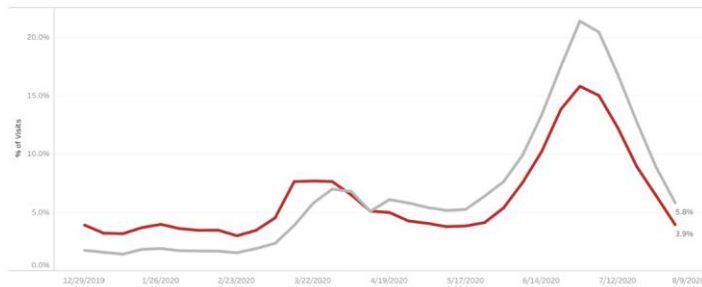
The National Syndromic Surveillance Program's BioSense Platform ESSENCE tool detects Coronavirus-like illness visits by identifying key terms and codes within the chief complaint field (i.e., the patient's stated reason for visit), and discharge diagnosis code field (i.e., ICD-10-CM codes). Coronavirus-like illness visits are displayed as a percentage of total hospital visits by week and monitored for trends.

Hover over the icon to get more information on the data in this dashboard.



Data for this dashboard is updated weekly, every Sunday.

■ % of Visits with CU from Emergency Department (ED)
■ % of Visits with CU from Inpatient



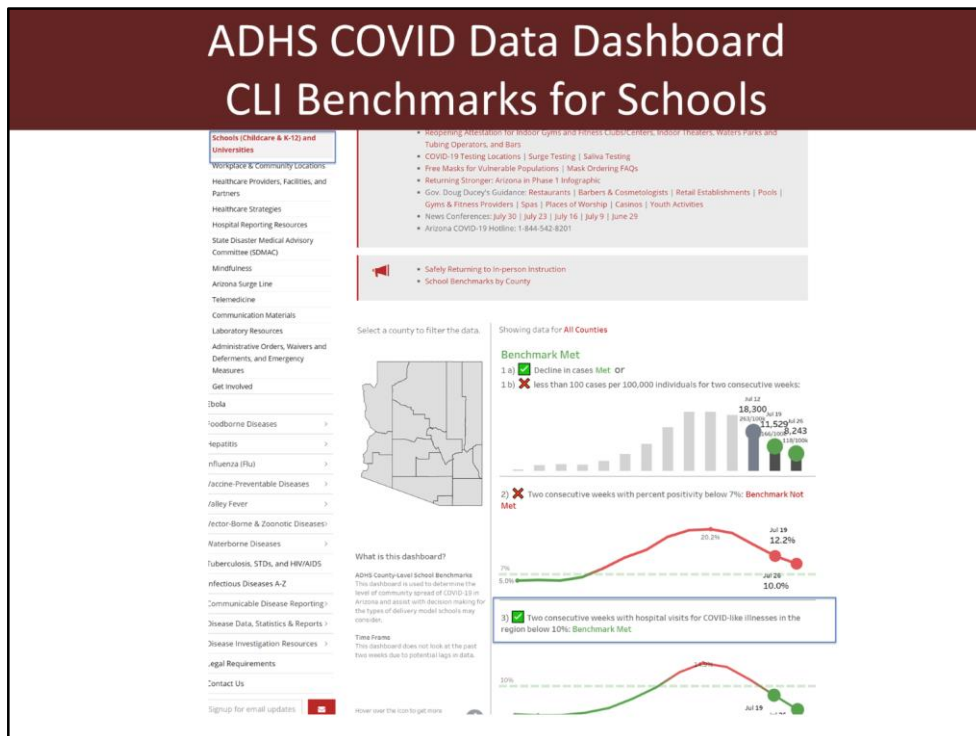
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ADHS COVID Data Dashboard



- Trend on **Dashboard** is separated ED and Inpatient data from NSSP ESSENCE CLI Trend
- ADHS Syndromic Surveillance Program provides a weekly table from **NSSP ESSENCE** to the ADHS HEOC, pulling the ED and Inpatient CLI trends **separately**
- ADHS HEOC has **displays** the ED and Inpatient trends outside of NSSP ESSENCE with **Tableau**

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



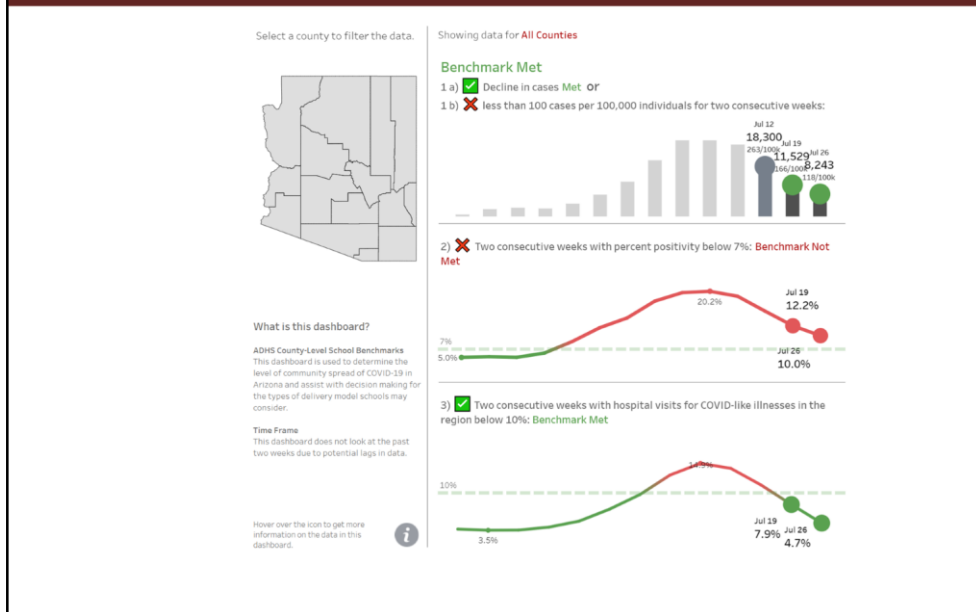
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ADHS COVID Data Dashboard

CLI Benchmarks for Schools



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ADHS COVID Data Dashboard

CLI Benchmarks for Schools

3) ☒ Two consecutive weeks with hospital visits for COVID-like illnesses in the region below 10%: **Benchmark Met**



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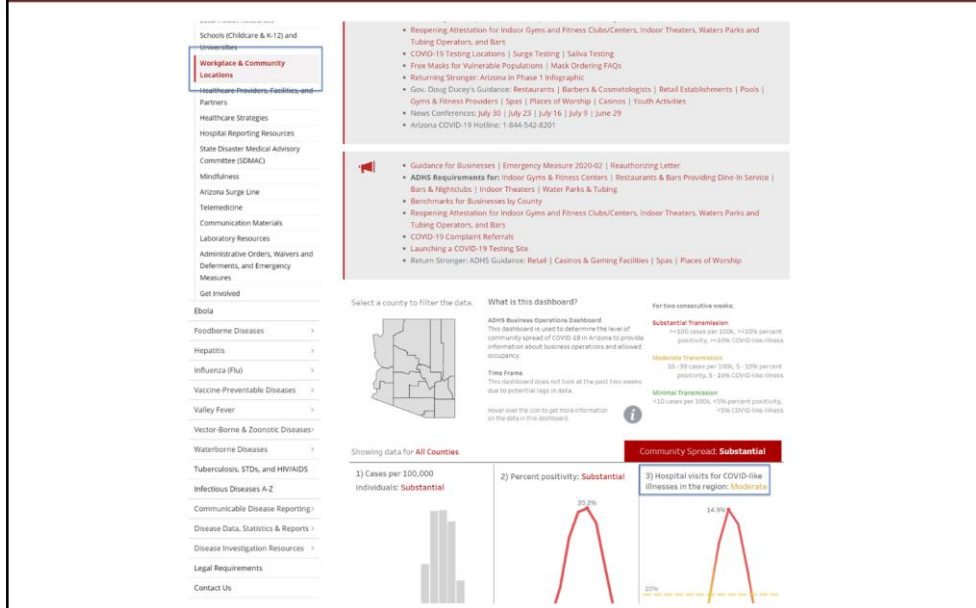
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ADHS COVID Data Dashboard

CLI Benchmarks for Businesses



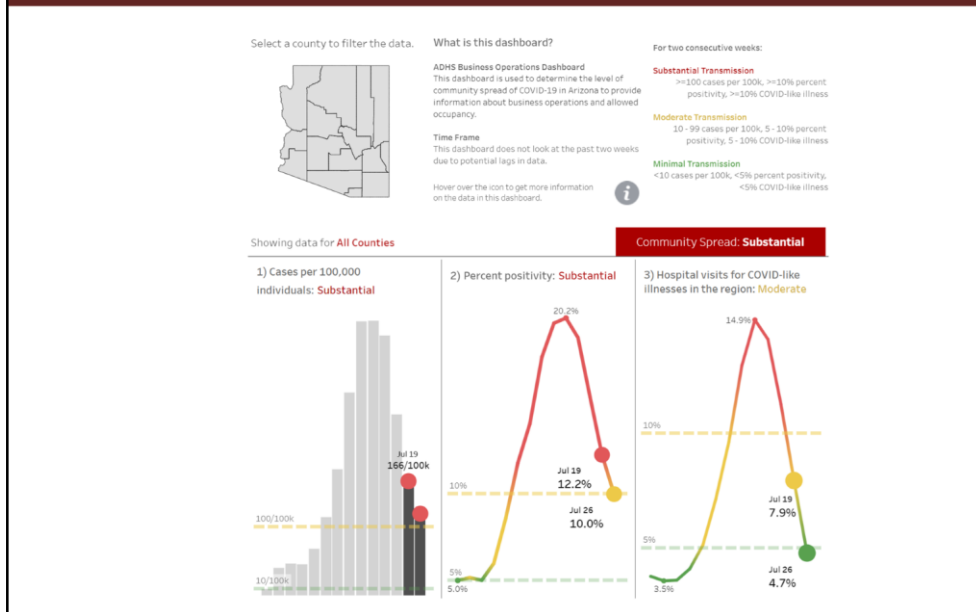
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ADHS COVID Data Dashboard

CLI Benchmarks for Businesses



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ADHS COVID Data Dashboard

CLI Benchmarks for Businesses

For two consecutive weeks:

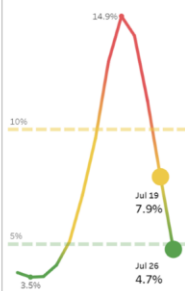
Substantial Transmission
 ≥100 cases per 100k, ≥10% percent positivity, ≥10% COVID-like illness

Moderate Transmission
 10-99 cases per 100k, 5-10% percent positivity, 5-10% COVID-like illness

Minimal Transmission
 <10 cases per 100k, <5% percent positivity, <5% COVID-like illness

Community Spread: **Substantial**

3) Hospital visits for COVID-like illnesses in the region: **Moderate**



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Use Case: COVID-19

- Tools and Resources
 - NSSP is assisting our team in trying to produce the [_AZ NSSP CLI County Indicators Report](#).
 - The [AZ_CLI_Weekly_Report_v1](#) was provided by Washington Department of Health and our team has been adopting for AZ.
 - The [AZ-COVID-County-Report_2020-08-11](#) (also called State Indicators report) is already produced by NSSP and made available for download for those who have access to the [NSSP Coronavirus Exploratory Analysis Dashboard](#).

Use Case: COVID-19

The screenshot displays the 'COVID-19 Exploratory Analysis' web application. The interface includes a top navigation bar with a user profile and a 'Sign Out' button. A left sidebar contains a menu with options like 'Global Cases', 'ESSENCE Data', 'Coronavirus Dx', 'Trend Builder', 'CLI vs ILI', 'Alert Map', 'Alert Trends', 'CDC Flu View', 'NREVSS', and 'Reports'. The main content area is titled 'COVID-19 Exploratory Analysis' and features a 'State Reports' dropdown menu set to '2020-08-11'. Below this, a list of 36 states is shown, with 'Arizona (AZ)' selected. The right panel displays the 'AZ-COVID-County-Report_2020-08-11' with a 'download' button. The report title is 'COVID-19 State Indicator Report (beta) Arizona'. It includes a sub-header 'Developed by the Case Surveillance Task Force in collaboration with the National Syndromic Surveillance Program, National Healthcare Safety Network (NHSN), COVID-19 Response, Centers for Disease Control and Prevention'. The report covers cases from August 09, 2020, through August 09, 2020, and Emergency Department data through August 07, 2020. The 'Introduction' section, dated August 11, 2020, addresses 'Dear Partners' and explains the report's purpose in assisting state and local health jurisdictions with COVID-19 reopening decisions. It lists three data sources: 'Downward trajectory in COVID-like illness (CLI) emergency department visit data', 'Downward trajectory in case reports', and 'Downward trajectory in positive tests as a percent of total tests'. An 'Updates to the report since July 31, 2020' section notes a survey conducted on July 27, 2020, to assess the report's usefulness.

COVID-19 Exploratory Analysis

State Reports

2020-08-11

INTRODUCTION LETTER

1. Alaska (AK)
2. Alabama (AL)
3. Arkansas (AR)
4. American Samoa (AS)
5. Arizona (AZ)
6. California (CA)
7. Colorado (CO)
8. Connecticut (CT)
9. District of Columbia (DC)
10. Delaware (DE)
11. Florida (FL)
12. Federated States of Micronesia (FSM)
13. Georgia (GA)
14. Guam (GU)
15. Hawaii (HI)
16. Iowa (IA)
17. Idaho (ID)
18. Illinois (IL)
19. Indiana (IN)
20. Kansas (KS)
21. Kentucky (KY)
22. Louisiana (LA)
23. Massachusetts (MA)
24. Maryland (MD)
25. Maine (ME)
26. Michigan (MI)
27. Minnesota (MN)
28. Missouri (MO)
29. Northern Mariana Islands (MP)
30. Mississippi (MS)
31. Montana (MT)
32. North Carolina (NC)
33. North Dakota (ND)
34. Nebraska (NE)
35. New Hampshire (NH)
36. New Jersey (NJ)

AZ-COVID-County-Report_2020-08-11

download

COVID-19 State Indicator Report (beta)

Arizona

Developed by the Case Surveillance Task Force in collaboration with the National Syndromic Surveillance Program, National Healthcare Safety Network (NHSN), COVID-19 Response, Centers for Disease Control and Prevention

Includes cases reported through August 09, 2020, mortality through August 09, 2020, and Emergency Department data through August 07, 2020.

Introduction

August 11, 2020

Dear Partners,

In order to assist state and local health jurisdictions with COVID-19 reopening decisions and policy making, CDC has developed a set of state-specific indicator reports that include data summaries and visualizations that correspond with the criteria described in the [Reopening America Guidelines](#).

These State Indicator Reports currently contain data visualizations and summaries that address 3 of the 6 indicators included in the [Reopening America Guidelines](#), reported at state and select jurisdictional levels:

- **Downward trajectory in COVID-like illness (CLI) emergency department visit data:** sourced from Biosense syndromic surveillance system data
- **Downward trajectory in case reports:** sourced from state-verified case report data at the state level, and USAFacts case report data at the county level
- **Downward trajectory in positive tests as a percent of total tests, while total test volume is flat or increasing:** sourced from HHS Protect laboratory results data

Updates to the report since July 31, 2020:

- On July 27, the Case Surveillance Section of the COVID-19 Response launched a brief on-line survey to assess the usefulness of the State Indicator Reports and to identify areas for potential improvement to inform efforts to enhance the reports to better inform COVID-19 decision-making. We're about the enter the national re-opening search to follow reports. you'll share a

Use Case: COVID-19

- **Goals of Reports:**

- Reports can be uploaded by ADHS Syndromic Surveillance Program to MEDSIS Resources County folders through an automated process.
- Have reports for all counties that follow current data sharing practices in the NSSP Coronavirus Exploratory Analysis Dashboard and ADHS Data Dashboard examples.
- Report Templates can be adopted for other uses cases such as opioid overdoses.
- All R Code will be shared once report templates are finalized.

Use Case: COVID-19

- **Review of Reports: Feedback request by COB 08/21/2020**
 - DRAFT VERSION FOR REVIEW ONLY_AZ NSSP CLI County Indicators Report and _DRAFT VERSION FOR REVIEW ONLY AZ_CLI_Weekly_Report_v1
 - How often do you want the reports to be available in MEDSIS Resources?
 - once a day
 - once a week
 - twice a week
 - What do you want to keep that is helpful for surveillance in each report template?
 - _DRAFT VERSION FOR REVIEW ONLY AZ_CLI_Weekly_Report_v1
 - Do you want to see CLI trends by age groups? Do you want to use NCHS Age Group or Age Groups?

Use Case: COVID-19

- Training
 - Ad-hoc training contact
syndromicsurveillance@azdhs.gov
 - Exploratory Analysis Subgroup Monthly calls

Use Case: COVID-19

- Approval Process for Sharing CLI data with Partners
 - Can share the regional CLI trends from ADHS COVID-19 Data Dashboard (public)
 - Contact syndromicsurveillance@azdhs.gov prior to sharing data pulled from NSSP ESSENCE
 - ADHS Approval Required per DUA with LPHJs
 - LPHJ BioSense Liaison should be a part of approval process for data shared with partners
 - Can expedite process with your help
 - Data Quality and Caveat/Limitation Discussion
 - Need to document decisions made from data for grant deliverables

AZ Shared Collaborative Space: Hospital COVID-like Illness

The screenshot shows a Basecamp workspace for the "AZ BioSense Workgroup". The URL in the browser is 3.basecamp.com/3164497/projects/17031830. The workspace includes a mission statement, a list of members (AG, A, A, AL, AS, AL, A, AS, AV, AD, AP, B, B, B, B), and four main sections: Message Board, To-dos, Docs & Files, and Campfire. The Message Board section has a blue speech bubble icon and text: "Post announcements, pitch ideas, progress updates, etc. and keep feedback on-topic." The To-dos section has a green checkmark icon and text: "Make lists of work that needs to get done, assign items, set due dates, and discuss." The Docs & Files section shows two document thumbnails: "AZ BioSense Opioid Subgroup" and "Exploratory Analysis Subgroup". The Campfire section has a blue speech bubble icon and text: "Chat casually with the group, ask random questions, and share stuff without ceremony." The Schedule section lists three events: "Thu, Jun 4 AZ BioSense Workgroup 1:00pm - 2:00pm", "Tue, Jun 16 NBS CoP 12:00pm - 1:30pm", and "Thu, Jul 30 Exploratory Analysis Subgroup/AZ BioSense Opioid".

AZ BioSense Workgroup

The mission of the Arizona BioSense Workgroup is to work collaboratively as partners to build capacity and quality of BioSense syndromic surveillance in Arizona. Our vision is to improve population health and emergency response through the use of timely and effective syndromic surveillance. This space is a platform for our members to continue discussions and share cross-role topics and questions from providing the data to using syndromic data (clinician/T/public health).

AG A A AL AS AL A AS AV AD AP B B B B Add/remove people

Message Board

Post announcements, pitch ideas, progress updates, etc. and keep feedback on-topic.

To-dos

Make lists of work that needs to get done, assign items, set due dates, and discuss.

Docs & Files

AZ BioSense Opioid Subgroup
Exploratory Analysis Subgroup
AZ BioSense Workgroup

Campfire

Chat casually with the group, ask random questions, and share stuff without ceremony.

Schedule

- Thu, Jun 4
AZ BioSense Workgroup
1:00pm - 2:00pm
- Tue, Jun 16
NBS CoP
12:00pm - 1:30pm
- Thu, Jul 30
Exploratory Analysis Subgroup/AZ BioSense Opioid

NSSP Community of Practice

- To be added to the NSSP CoP listservs moving forward
 - CSTE has created a new email that can be used moving forward

syndromic@cste.org

Upcoming Meetings

Exploratory Analysis
Subgroup/Arizona
BioSense Opioid
Workgroup

Thursday,
August 27 from
1:00 – 2:00

Exploratory Analysis
Subgroup/Arizona
BioSense Opioid
Workgroup

Thursday,
September 24
from 1:00 – 2:00



THANK YOU

syndromicsurveillance@azdhs.gov | 602-542-6002

azhealth.gov

 @azdhs

 facebook.com/azdhs



ARIZONA DEPARTMENT
OF HEALTH SERVICES

Health and Wellness for all Arizonans