

# **NCS D and CDC STI Informatics Webinar**

## **Today's Topic**

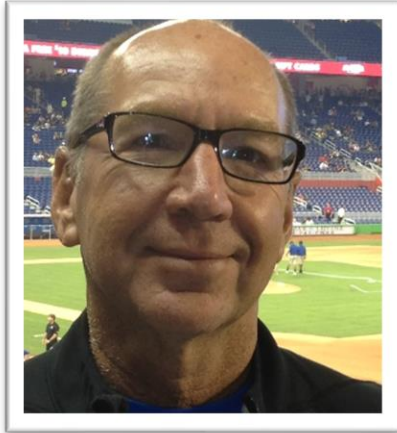
Bringing STI Epidemiology to Life!  
Visualizing Data Trends using Data Dashboards

**August 17, 2023 3:00 – 4:00 PM ET**



# Informatics Webinar Facilitators

---



**Charlie Rabins, MPH**  
Capacity Building Consultant  
National Coalition of STD  
Directors (NCSD)



**Robin Hennessy, MPH**  
Public Health Advisor  
CDC Division of STD Prevention  
Surveillance and Data Science  
Branch

# A Few Housekeeping Items

---

- Use the chat function to talk with or ask for help from facilitators and ask questions for the presenters
- If the facilitators loses web or voice connection during the presentation, please keep your video and audio connections until the facilitator reconnects
- Download today's webinar slides from the chat function
- An audio/video recording and slides of this webinar will be posted on the My NCSD Surveillance Community site in the next week

# John Snow and the Broad Street Pump Dashboard

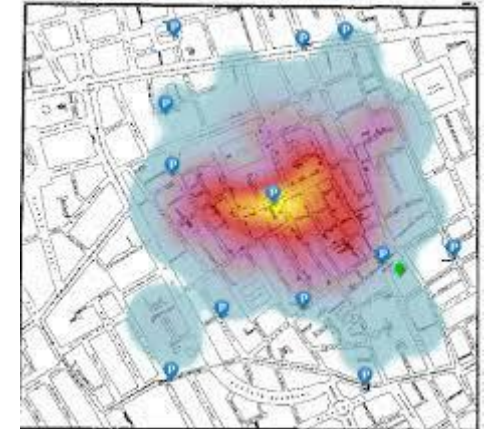


Table 5.1

Deaths From Cholera Epidemic in Districts of London Supplied by Two Water Companies Over 7 Weeks, 1854

Water Supply Company	Number of Houses	Deaths From Cholera	Cholera Deaths per 10,000 Houses
Southwark and Vauxhall	40,046	1,263	315
Lambeth	26,107	98	37
Rest of London	256,423	1,422	59

Source: Snow J. On the mode of transmission of cholera. London: [Open in a separate window](#) John Churchill, 1855, pp. 55–98. Part 3, Table IX, Reprinted by UCLA

Fielding School of Public Health 2001. Available at:  
<http://www.ph.ucla.edu/epi/snow/snowbook3.html> (accessed 26 June 2016).

# **Webinar Agenda**

---

- **NCSD Update – Charlie Rabins**
- **DSTDP SDSB Update - Robin Hennessy & Melissa Pagaoa**
- **Using Dashboards to Prepare for and Respond to Syphilis Outbreaks in Indiana – Jamie Black**
- **Arizona Data Dashboards – Becca Scranton**
- **Webinar Evaluation - Charlie Rabins**

# NCSD Information Sharing and TA/CB Tools

---

- NCSD Website New Highlights
- NCSD Weekly Email Update
- NCSD TA/CB Support
  - NCSD Learning Center
  - MY NCSD: Peer Driven Communications and Resource Sharing Site
    - ❑ STI Surveillance and Informatics Community
    - ❑ DIS Community
    - ❑ Clinic Plus

# DOXY As STI PEP Command Center

---

[Doxy as STI PEP Command Center | NCSD \(ncsddc.org\)](https://ncsddc.org)

**STD RESOURCE**

JULY 14, 2023

## Doxy as STI PEP Command Center

---

Your hub for tools, templates, model policies, and an implementation toolkit to begin offering doxycycline as STI PEP to patients in your community.

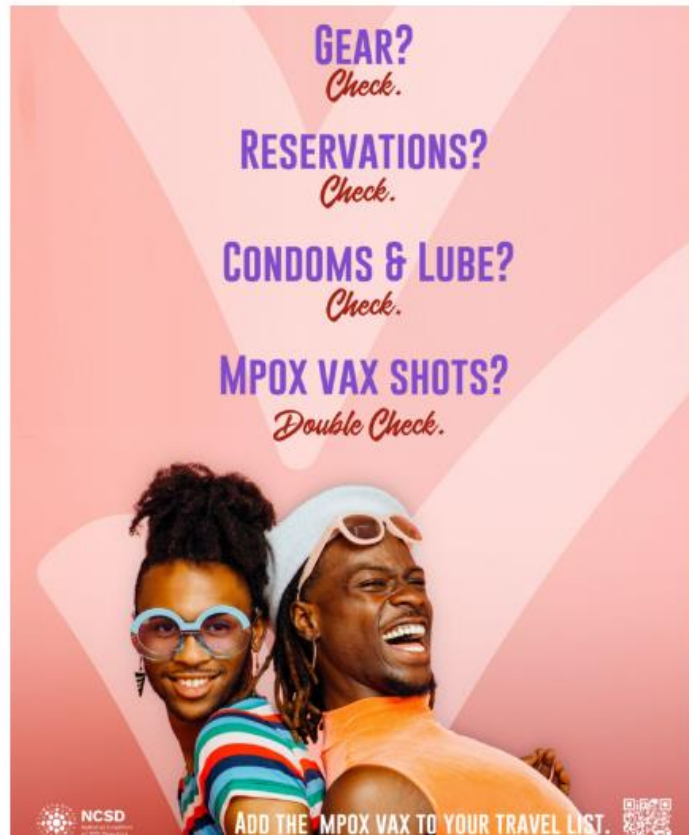
[READ MORE >](#)

**DOXY AS  
STI PEP  
COMMAND  
CENTER**

---

# Mpox Communications Toolkit

[Mpox Communications Toolkit and Creative Assets | NCSDDC \(ncsddc.org\)](https://ncsddc.org)



STD RESOURCE JULY 7, 2023

## Mpox Communications Toolkit and Creative Assets

Use the Mpox Communications Toolkit and Creative Assets to share important information about the mpox vaccine with your community. Use the Communications Toolkit to work with local media to raise awareness about mpox or respond to outbreaks. Use the Creative Assets to remind people that mpox is still around and about the benefits of completing the two-dose mpox vaccine series.

[READ MORE | >](#)



# NCSD Learning Center

[Learning Center | NCSD \(ncsddc.org\)](https://ncsddc.org)



JUNE 26, 2023

## Learning Center

Explore the NCSD Learning Center - your new portal to the most relevant training resources, programs, and networking spaces for STI professionals.

[READ MORE](#) | >



# NCSD Learning Center - 2

---

- The NCSD Learning Center is our new learning management system. We have a variety of self-paced e-Learning courses, blended courses, and live instructor-led trainings on topics ranging from diversity, equity, and inclusion, to leadership skills, to STI/HIV program policy and motivational interviewing available for free. We also offer the opportunity to connect with colleagues through discussion boards, messaging, and profiles or to join fellowships and academies.
- Past informatics, NIPS, and other TA webinars and workshops can also be found on the NCSD Learning Center.
- You can learn more about the NCSD Learning Center and how to register here: <https://www.ncsddc.org/learning-center/>
- Direct Link to Account Sign-Up Page: <https://ncsdlearningcenter.myabsorb.com/#/login>

# NCSD Learning Center - 3

---

- **Number of current courses:** Over 800 courses, including the National Network of Disease Intervention Training Centers (NNDITC) courses.
- **Number of participants:** Over 3,300 participants.
- **Example surveillance related course titles - *learners must join and log in to the Learning Center to directly access these courses using the following links:***
  - [Infection Surveillance](#)
  - [Laboratory Information Systems \(LIS\): Data Management](#)
  - [Manually Entered Results \(Labs without LIS\)](#)
  - [HIPAA: The HITECH Act](#)
  - [Quality Assessment Basics and Performance Improvement in the Lab](#)
  - [Leading Digital Transformation](#)
  - [Agile Project Management Series](#) and [Scrum Series](#)
  - [Introduction to Lean and Six Sigma](#)

# NCSD Weekly Email Update



National Coalition  
of STD Directors

## STD Weekly

December 2, 2022



## NCSD Featured Information

## NCSD Featured Information



### NCSD Statement:

#### Honoring World AIDS Day

Monkeypox and rising sexually transmitted infection rates illuminate unmet needs in the work to end HIV.

[Read the Statement](#)



### NCSD Co-Authors National PrEP Program Letter

More than 6,000 people signed on to a letter this week asking Congress and the Administration to fund a national PrEP program. [Read the Letter](#)

## Upcoming Events

DEC 7

[How CDC's ELC CoAg Supports State and Local STD and Informatics Projects](#)

Everything you wanted to know about the CDC's Epidemiology and Laboratory Capacity Cooperative Agreement (ELC CoAg) - but were afraid to ask!

# NCSD New Communication and Resource Sharing Tool for STI Surveillance and Informatics Practitioners

## What is My NCSD?



**My NCSD**

My NCSD is a new online community exclusively for NCSD members that will connect you with the STD field. It will allow you to:

- CONNECT with peers and colleagues in the STD field**
  - Search for peers around the country via the community directory
  - Network with peers in similar roles (e.g., STD program managers, DIS, STD clinic staff, etc.)
- LEARN from the expertise of others in the community**
  - Get feedback and answers from others via discussion boards
  - View and download items from resource libraries
- SHARE your expertise with others in the community**
  - Offer knowledge, experiences, and resources to help others resolve challenges
  - Earn recognition for contributions you make to the community

# How to Access the My NCSD Surveillance Community

<https://www.ncsddc.org/get-involved/ncsd-membership/>

**Become an NCSD Member!**

Associate membership gives you access to the information and resources you need to advance effective STD prevention and promote sexual health.

[SIGN UP HERE | >](#)

**Join Us!**

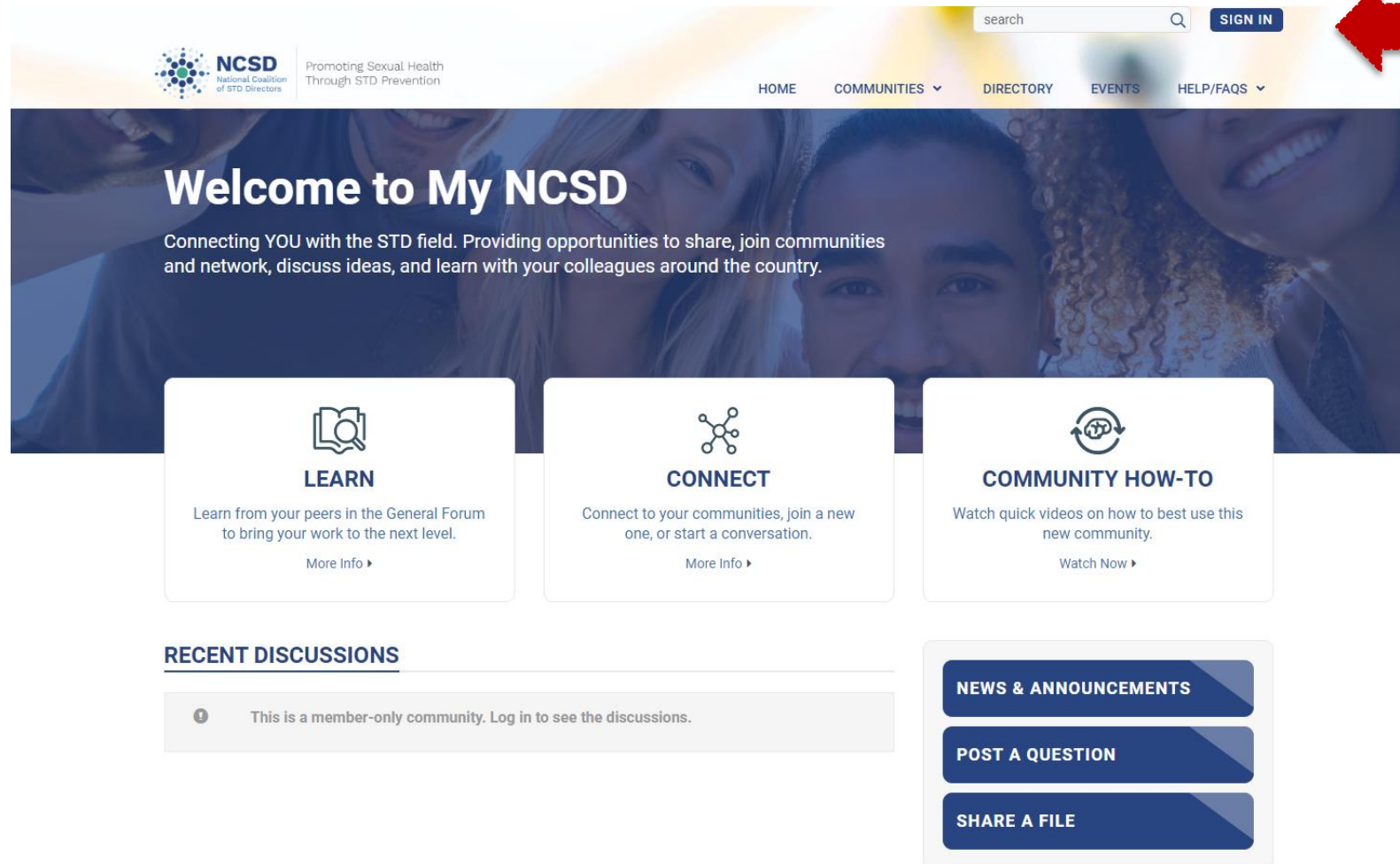
**Learn More**

**Membership Information**

Learn more about being an associate member!

[LEARN MORE | >](#)

# My NCSD Landing Page



The screenshot shows the My NCSD landing page. At the top left is the NCSD logo (National Coalition of STD Directors) with the tagline "Promoting Sexual Health Through STD Prevention". To the right is a search bar and a "SIGN IN" button, which is highlighted by a red arrow. Below the navigation bar are links for HOME, COMMUNITIES, DIRECTORY, EVENTS, and HELP/FAQS. The main content area features a large banner with the text "Welcome to My NCSD" and a sub-headline: "Connecting YOU with the STD field. Providing opportunities to share, join communities and network, discuss ideas, and learn with your colleagues around the country." Below the banner are three white boxes with icons and text: "LEARN" (Learn from your peers in the General Forum to bring your work to the next level. More Info), "CONNECT" (Connect to your communities, join a new one, or start a conversation. More Info), and "COMMUNITY HOW-TO" (Watch quick videos on how to best use this new community. Watch Now). At the bottom left, there is a "RECENT DISCUSSIONS" section with a message: "This is a member-only community. Log in to see the discussions." At the bottom right, there are three blue buttons: "NEWS & ANNOUNCEMENTS", "POST A QUESTION", and "SHARE A FILE".

**NCSD**  
National Coalition  
of STD Directors


Promoting Sexual Health  
Through STD Prevention

search

HOME COMMUNITIES DIRECTORY EVENTS HELP/FAQS

## Welcome to My NCSD


Connecting YOU with the STD field. Providing opportunities to share, join communities and network, discuss ideas, and learn with your colleagues around the country.



### LEARN

Learn from your peers in the General Forum to bring your work to the next level.


[More Info](#)



### CONNECT

Connect to your communities, join a new one, or start a conversation.

[More Info](#)



### COMMUNITY HOW-TO

Watch quick videos on how to best use this new community.

[Watch Now](#)

### RECENT DISCUSSIONS

**i** This is a member-only community. Log in to see the discussions.

[NEWS & ANNOUNCEMENTS](#)

[POST A QUESTION](#)

[SHARE A FILE](#)

# My NCSD Communities

All Community Types ▾ All Communities ▾ Alphabetical ▾ 20 per page ▾

## Clinic+ Community

member

*last person joined 3 days ago*

Use this community for all discussions related to Clinic+ and to find resources related to Clinic+.

Discussions 39

Members 1.2K

## DIS Community

member

*last person joined 6 days ago*

Use this community for all discussions related to DIS and to find resources related to DIS.

Discussions 138

Members 1.6K

## General Forum

admin

*last person joined yesterday*

Use this space to connect with all NCSD members on general sexual health related topics.

Discussions 518

Members 5.5K

## Staff Test Community

member

*last person joined 26 days ago*

This community is visible only to admin and staff of NCSD - not visible to regular members. Use this space for testing or to house resources for admins.

Discussions 28

Members 34

## STD Surveillance and Informatics

admin

*last person joined 6 days ago*

The STD Surveillance and Informatics community is a place to connect with your fellow STD surveillance and informatics colleagues from around the country and to ask questions about best practices, learn about innovative systems, applications, procedures, reports, etc., and request peer to peer technical assistance.

Discussions 11

Members 284





# My NCSD Surveillance Community Landing Page

COMMUNITY HOME DISCUSSION 0 LIBRARY 4 EVENTS 0 MEMBERS 4

## LATEST DISCUSSIONS

**Post to this Discussion** This Discussion has no recent posts. Your new post to this Discussion will display here and be sent via email to subscribed Community members.

POST TO THIS DISCUSSION

## ANNOUNCEMENTS ADD

### Welcome to the STD Surveillance and Informatics Community of My NCSD!



By: [Charlie Rabins](#), one month ago

The STD Surveillance and Informatics Community on My NCSD is a place to connect with your fellow STD surveillance and informatics colleagues from around the country and to ask questions about best practices, learn about innovative systems, applications, procedures, reports, etc., and request peer to peer technical assistance. We will also make announcements and reminders about upcoming webinars and trainings that may be of interest in the Events section.

Once again, welcome – we look forward to connecting with you as we support and enhance STD surveillance and informatics and together reimagine their future and elevate their role as critical components of public health infrastructure.

[See more](#) ▶

## LATEST SHARED FILES



### Informatics Webinar: Should Your Jurisdiction Automate ...

By: [Charlie Rabins](#) 26 days ago

A link to the recording and download of presentation slides from the STD Informatics Webinar conducted ...

# My NCSD Example Resource and Question Post

The screenshot shows a web browser window with several tabs open. The active tab is titled "Monkeypox - Resources, Sharing, and Connecting". The browser's address bar shows the URL: <https://my.ncsddc.org/discussion/monkeypox-resources-sharing-and-connecting?ReturnUrl=%2fcommunities%2fcommunity-home%2fdigestviewer%3fcommunitykey%3d8ad9...>

The website header includes the NCSD logo (National Coalition of STD Directors) and the tagline "Promoting Sexual Health Through STD Prevention". Navigation links for HOME, COMMUNITIES, DIRECTORY, EVENTS, and HELP/FAQS are visible.

The main content area displays a discussion thread with two posts:

- Post 1:** Posted 06-07-2022 17:02. From **NCSF Staff** (Elizabeth Finley, Communications Director, NCSD, Durham, NC). The post text reads: "FYI - The CDC has released a new fact sheet that covers social gatherings, safer sex, and monkeypox: [https://www.cdc.gov/poxvirus/monkeypox/pdf/MPX\\_Social\\_Gatherings\\_Safer\\_Sex-508.pdf](https://www.cdc.gov/poxvirus/monkeypox/pdf/MPX_Social_Gatherings_Safer_Sex-508.pdf)".
- Post 2:** Titled "8. RE: MONKEYPOX - RESOURCES, SHARING, AND CONNECTING". Posted 9 days ago. From **David Cuevas** (Clinic+ Member, Disease Intervention Specialist Program Supervisor, Multnomah County Health Department, Portland, OR). The post text reads: "Any STD Clinic or Clinical Partner in the community could share slides for a Orthopox - hMPXV- JYNNEOS workflow, training. We are looking for a quick presentation to train STD staff about storage / vaccine workflows. Thank you!".

The Windows taskbar at the bottom shows the system tray with a temperature of 83°F, weather "Rain off and on", and the date/time "8:19 AM 8/4/2022".

**CDC DSTDP**

**Surveillance and Data Science Branch Update**

---

Robin Hennessy and Melissa Pagaoa

# 2022 NNDSS Reconciliation Timeline

- **August 18, 2023:**
  - Jurisdictions' STD Managers (as listed in the MVPS Portal) to verify and tentatively approve final STD case data within the MVPS Portal
  - DSTDP to e-mail sign-off letters with final CS case data to all jurisdictions (i.e., outside of the MVPS Portal)
- **August 25, 2023: State/Territorial Epidemiologists complete sign-off to officially approve final 2022 STD and CS case counts**
  - Sign-off for final STD case data will be completed within the MVPS Portal
  - Sign-off for final CS case data will be completed via letter, e-mailed from DSTDP on August 18

# Retirement of Original “Congenital Syphilis Data Collection” Form on December 31, 2023

- Original “Congenital Syphilis Data Collection” form should only be used to **update previously entered CS cases**
- Currently, the “Congenital Syphilis Data Collection - MMG Version” form only accepts CS cases with a birth year of 2023
  - On August 26, 2023, the birth year restriction will be removed, and jurisdictions should enter all new CS cases regardless of birth year in the “Congenital Syphilis Data Collection - MMG Version” form
- If a jurisdiction discovers a new CS case with a birth year of 2022 or earlier between today and August 25, 2023, wait until August 26, 2023 to enter the new CS case in the “Congenital Syphilis Data Collection - MMG Version” form
- Starting on January 1, 2024, jurisdictions will be able to enter and update CS cases in the “Congenital Syphilis Data Collection - MMG Version” form only

# Retirement of Original “Congenital Syphilis Data Collection” Form on December 31, 2023

Timeline	REDCap Form	
	Congenital Syphilis Data Collection (“Original”)	Congenital Syphilis Data Collection - MMG Version
Today – August 25, 2023	Update CS cases with birth year ≤ 2022	Enter & update CS cases with birth year = 2023
August 26, 2023		Enter & update CS cases, regardless of birth year
December 31, 2023	Form retired	
January 1, 2024 – Future		

# CSTE Data Standardization Workgroup (DSWG)

- DSWG is part of the CSTE Surveillance Practice and Implementation Subcommittee
  - Activities include identifying core data elements for surveillance for transmission to CDC
- Upcoming topics that may be of particular interest to STD surveillance colleagues
  - Pregnancy status: will be discussed on [August 25, 2023 meeting](#), from 1-2pm Eastern Time
  - Sexual orientation and gender identity: October 2023, date TBD
- Visit the [CSTE Surveillance Practice and Implementation Subcommittee webpage](#) to learn more about their workgroups and how CSTE members can get involved

# Responses to Today's Data Dashboards

## Informatics Webinar Registration Questions

---

- Does your STI Program or agency have a web-based dashboard for displaying STI surveillance data and trends? N=252
  - Yes: 53%
  - No: 47%
- Who is the intended audience for your data dashboard? N=260
  - Both Agency Staff and the Public: 62%
  - Program Staff and Agency Leadership: 20%
  - The General Public: 18%
- What type of dashboard software does your STD Program use? N=174
  - Tableau: 66%
  - Microsoft Power BI: 18%
  - Other: 16%





**Indiana**  
**Department**  
**of**  
**Health**

**Bringing STI Epidemiology to Life! Visualizing Data Trends using Data Dashboards:**

**Using Dashboard to Prepare for and Respond to Syphilis Outbreaks in Indiana**

**Jamie Black, MPH**

Division of HIV/STD/Viral Hepatitis  
Indiana Department of Health

August 17, 2023

# Topics to Cover

---

Before You  
Begin...

Outbreak  
Preparedness &  
Monitoring

Data-Driven  
Outbreak  
Responses

Sharing &  
Maintaining  
Dashboards



**Getting Ready to Create!**



**Indiana  
Department  
of  
Health**

# Best Practices in Creating Dashboards



**Understand your surveillance system and its data**



**Know your stakeholders and their wants/needs**



**Research limitations of your website/servers**



**Look into visualization best practices, especially for accessibility**



# Tableau Learning

<https://elearning.tableau.com/>

Courses grouped by learning tracks now! Ranging from easy to more complex.

Sometimes agencies can acquire group learning codes at discounted rates.

Self-paced learning and searching questions in the community [forum](#) is how I trained myself.



The screenshot shows the Tableau eLearning for Creator website. At the top, there are navigation buttons for 'ALL CONTENT', 'LEARNING PATHS', and 'COURSES'. Below this, there are three featured cards: 'Customer Satisfaction Survey' with a 'TAKE SURVEY' button, 'Check Out What's New' with a 'LEARN MORE' button, and 'Tableau Training Pass' with a 'GET YOUR PASS' button. The main content area displays six learning tracks, each with a Tableau logo icon, a title, a description, and a 'MORE' button. The tracks are: Consumer, Author, Designer, Analyst (marked 'In Progress'), Data Scientist, and Developer.

Track	Description	Action
Consumer	In your vital consumer role, learn the skills you need to read and interpret data in order to make better, more informed business decisions.	MORE →
Author	To make data-driven decisions, learn the foundational skills required to build effective visualizations and dashboards.	MORE →
Designer	Use design best practices to inform without misleading, choose correct chart types, colors, and formatting, and deliver dashboard insights.	MORE →
Analyst	Learn to work with complex data sources, use advanced calculations to customize data, and leverage advanced features.	MORE →
Data Scientist	Learn about advanced Tableau features, including built-in statistical capabilities and data science integrations for R, Python, and MATLAB.	MORE →
Developer	Learn how to access resources in the developer community, integrate Tableau into existing technologies, embed visualizations, and more.	MORE →

# Dashboard development time

---

**Set aside 1- to 2-hour blocks of time to brainstorm with your team and stakeholders.**

**Once you know what the finished product needs to achieve, dive into the data. Consider frequency of data updates.**

**Provide drafts and plan on enough time for review and suggestions.**



# Topics to Cover

---

Before You  
Begin...

Outbreak  
Preparedness &  
Monitoring

Data-Driven  
Outbreak  
Responses

Sharing &  
Maintaining  
Dashboards

# Using Syphilis Data to Monitor for Outbreaks



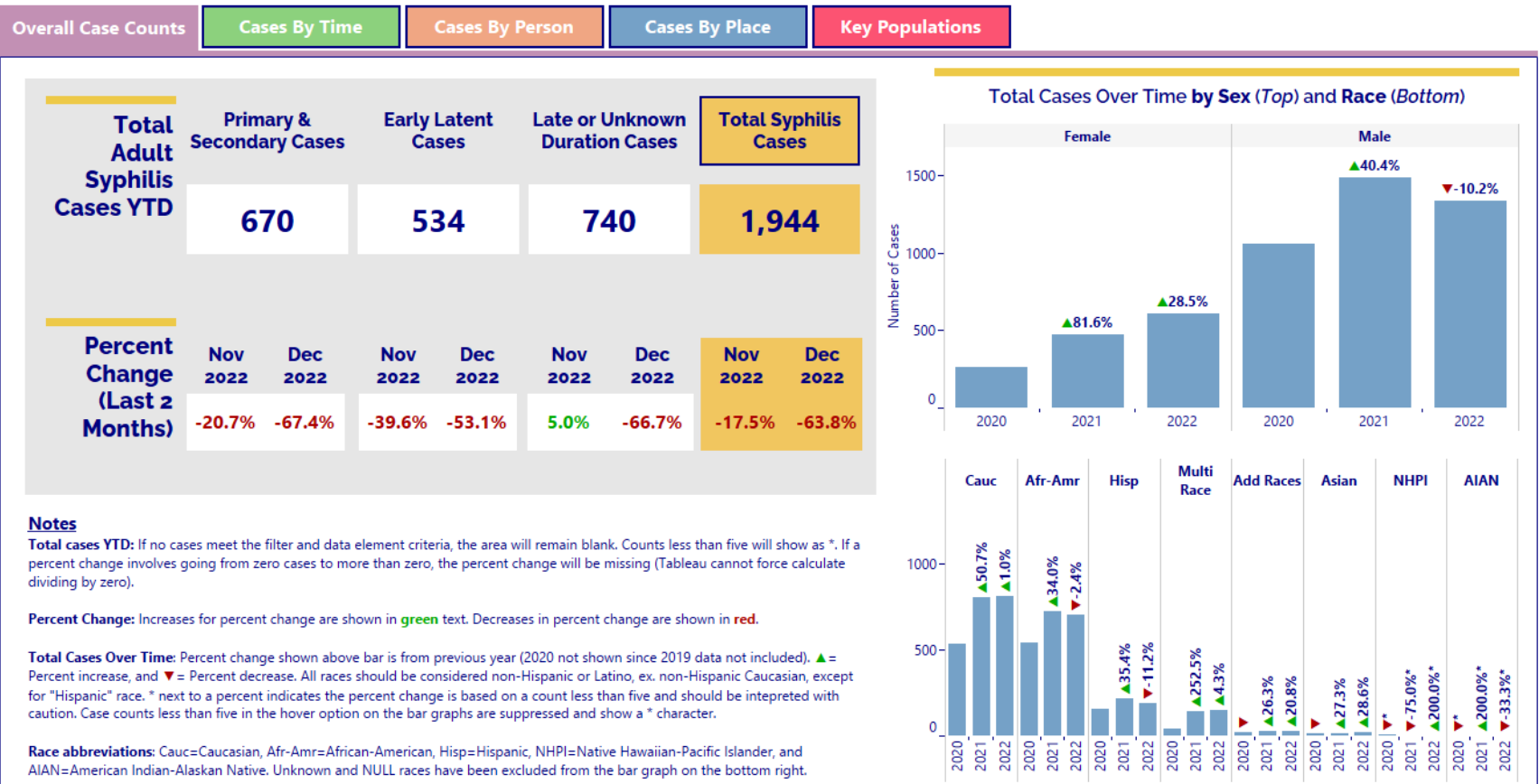
Division of  
HIV/STD &  
Viral Hepatitis

## STD Data Dashboard: Syphilis

Alt+Click Download PDF

Data are updated as of: 4/25/2023

This dashboard is built to assist local STD staff in monitoring the amount of syphilis cases for notable increases that warrant further investigation, based on location and patient characteristics (including demographics, risk factors, and pregnancy status) over time. These views should be used in conjunction with the Prevention program's **Syphilis Increase Monitoring Policy** to conduct more in-depth reviews of case-related information obtained by DIS during interviews with infected patients and their partners in determining the likelihood of an actual syphilis outbreak. Information contained within the different dashboard tabs is updated on a weekly basis. Please note that data for the current year are considered **preliminary** until closeout is completed in the year that follows. Filters apply to individual tabs. *This dashboard may be shared with external partners.*





# Dive even further into casework...



Division of  
HIV/STD &  
Viral Hepatitis

## Syphilis Investigation Dashboard

This dashboard uses case investigation based data (Source: RBD.DBO.DM\_INV\_STD) to examine the amount of casework that is currently open and its status of processing (whether it has a case status or not and whether a referral basis is set), as well as the breakdown of cases that have already been closed. These data include all stages of syphilis, as well syphilis reactors (labs/morbidity reports that come in preliminarily before staff determine if these indicate a new infection).

Select Stage(s)  
(All) ▾

Select STD District  
(All) ▾

Select County  
(All) ▾

Select Month-Year   
August 2023

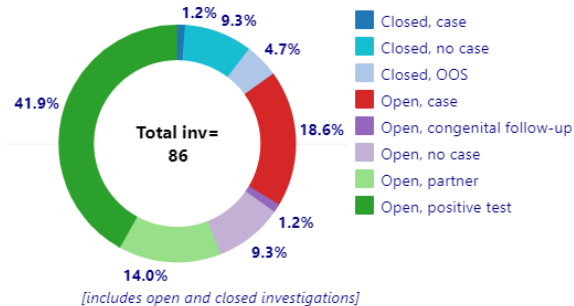
Open Investigations | Cases: Pregnant | Cases: Risk Factors

Open Investigations:  
Selected Month-Year  
**73**

Total Open  
Investigations  
**579**

Time to Investigation Creation (Days):  
Selected Month-Year  
**1.3 days**

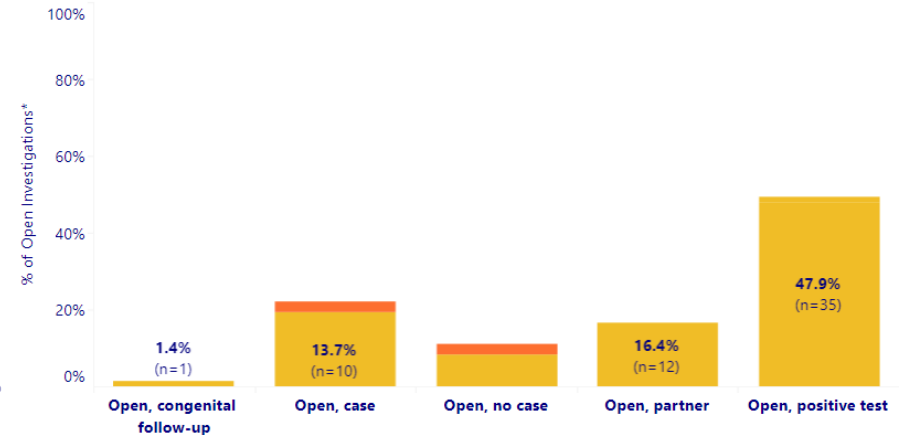
Investigations Created by Selected Month-Year  
Breakdown of status as of current date



Time to Investigation Creation (Days):  
Overall Average from Previous Year

**1.9 days**

### Open Syphilis Investigations



**Open, congenital follow-up**= Investigations where M1-Congenital Infant or M2-Congenital Mother is the referral basis.  
**Case Status known**  
**\*Open, case**= Investigations that meet case definition and are still open. **Open, no case**= Investigations that are still open and are marked as not a case.  
**Case Status not known**  
**Open, no status or referral basis**= Investigations with no case status set yet or no referral basis was noted. **Open, partner**= Investigations opened as a some type of contact/partner where case status is NULL or Unknown. **Open, positive test**= Investigations opened based on a positive lab test or morbidity report where case status is NULL or Unknown.

*This view excludes investigations that are closed.*



# Topics to Cover

---

Before You  
Begin...

Outbreak  
Preparedness &  
Monitoring

Data-Driven  
Outbreak  
Responses

Sharing &  
Maintaining  
Dashboards

# Vanderburgh County Health Department

VANDERBURGH CO.

**MOBILE SYPHILIS UNITS COMING TO EVANSVILLE**

STARTING ON MONDAY

## Syphilis Outbreak in Indiana



**Indiana**  
Department  
of  
**Health**

# Bringing data to life!

## Patient-specific Data

- Diagnosis, staging → **Outbreak case definition: Confirmed or Probable**
- County of residence, address w/zip → **Filled "heat" maps + pin-point outreach maps**
- Testing and treatment dates → **Flag number of patients needing treatment**
- Symptoms
- Patient demographics → **Monitor proportional changes in outbreak case epi profile**
- Risk factors → **Monitor proportional changes across all risk factors**
- Pregnancy and HIV status
- HIV viral suppression
- Hepatitis co-infection (ABC) } → **Monitor number of co-occurrences with syphilis**

# Daily ICS Dashboard For Leaders

**Number of Total Outbreak Cases**  
**122**

**Confirmed Outbreak Case** **105**    **Probable Outbreak Case** **17**

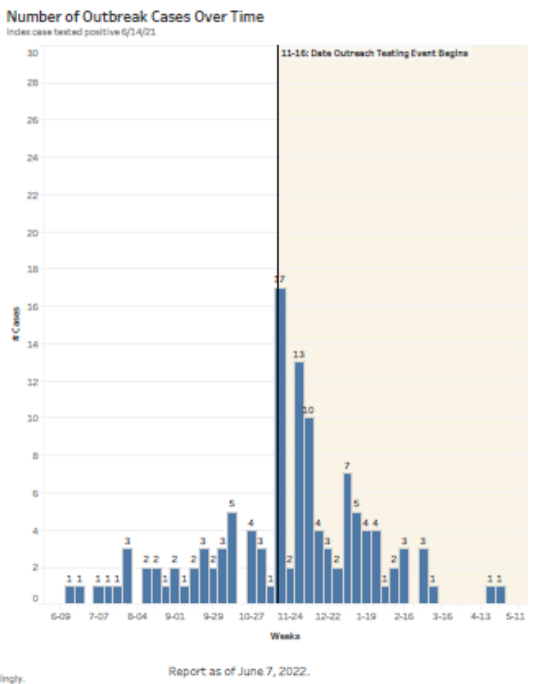
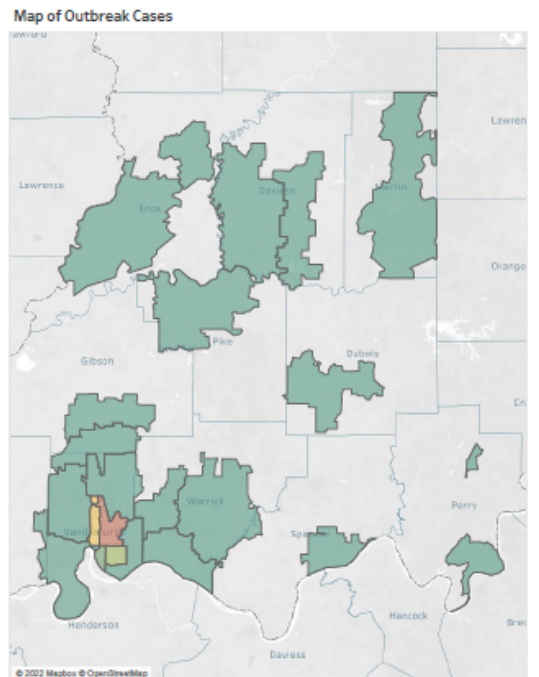
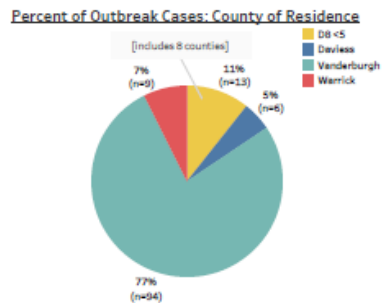
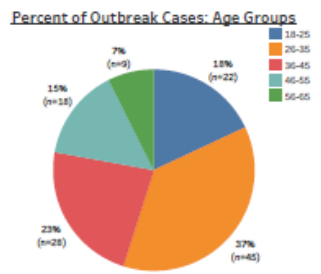
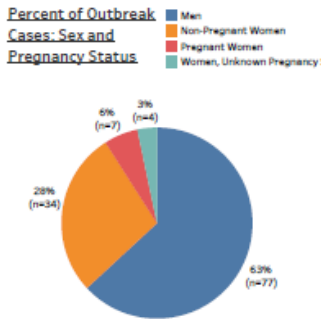
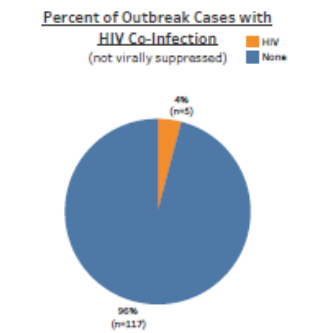
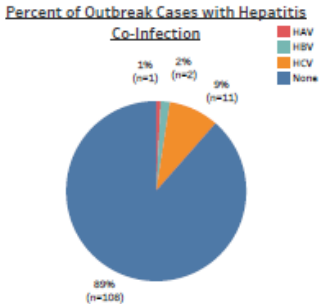
**Open Cases**  
**14**

**Closed Cases**  
**108**

**Cases Treated** **78**    **Partners Prev. Treated** **47**

**Number of Partners Being Pursued**  
**1**

**COVID Vaccines** **3**    **Hep A Vaccines** **1**



# Outbreak response takeaways



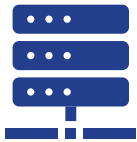
Visualizing disease burden and monitoring increases can help identify outbreaks sooner.



Tracking proportional changes in risk factors will help your understanding of outbreak shifts.



Simple, eye-catching visualizations help communicate data to broad audiences.



Centrally-located data trackers with locked fields can streamline data collection across staff skill ranges.



(Near) Real-time data reports can help inform programmatic decisions about response efforts during an outbreak.

# Topics to Cover

---

Before You  
Begin...

Outbreak  
Preparedness &  
Monitoring

Data-Driven  
Outbreak  
Responses

Sharing &  
Maintaining  
Dashboards

# Dashboard maintenance

---



**Agree upon data pulling standards**



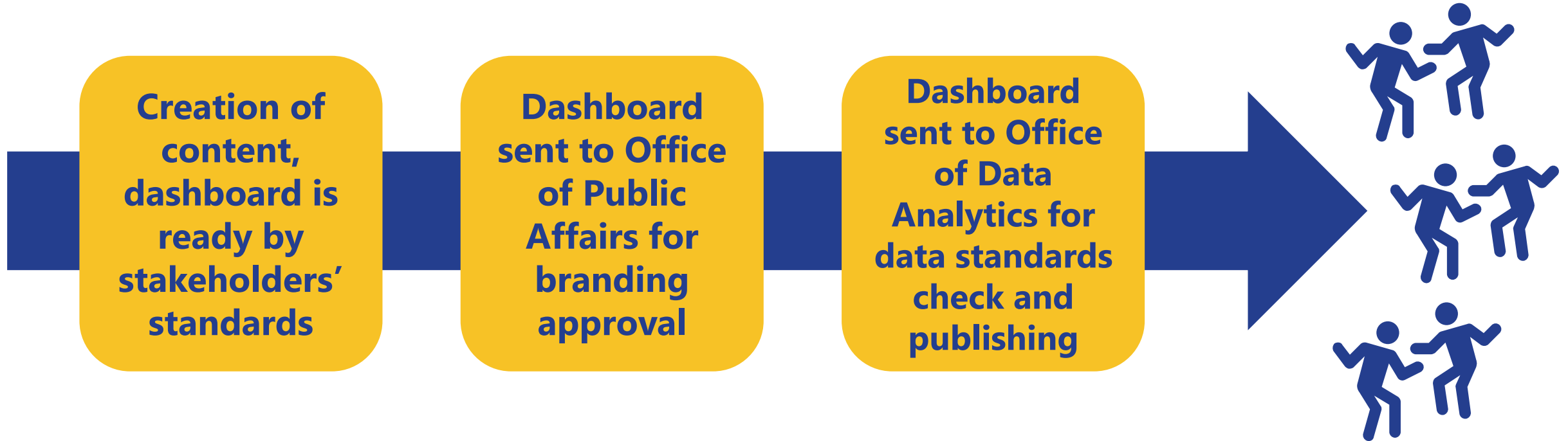
**Tap into analysts' skills for complex joins**



**Rely on SMEs for "larger picture" signoff**



# Dashboard sharing



# Questions?

## CONTACT:

Jamie Black, MPH  
STD Epidemiology  
Projects Supervisor

SURRG & SSuN Grant  
Principal Investigator

[jamblack@isdh.in.gov](mailto:jamblack@isdh.in.gov)

Work: 317-234-8981

[Center of Gonorrhea  
Excellence Website](#)



# Arizona STI Data Dashboards

Becca Scranton



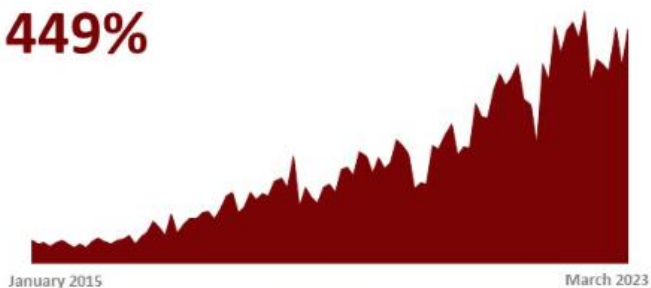
ARIZONA DEPARTMENT  
OF HEALTH SERVICES

# Static Dashboards

## Arizona has an **outbreak of syphilis** among women and babies

Since 2015, the yearly average of **syphilis** cases in women has increased

**449%**



How can you **protect** yourself?



Use condoms when having ANY type of sex

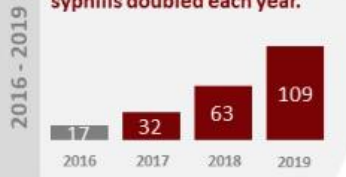


Reduce number of sexual partners



**Get tested** for STDs

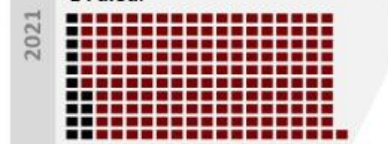
The number of babies born with syphilis doubled each year.



Of the **120 babies born with syphilis** in 2020, **12 died**.



Of the **181 babies born with syphilis** in 2021, **14 died**.



**Syphilis** can lead to problems with the skin, eyes, and brain, **stillbirth**, or **infant death**.

Up to **40%** of untreated syphilitic pregnancies result in **stillbirth** or **newborn death**<sup>1</sup>



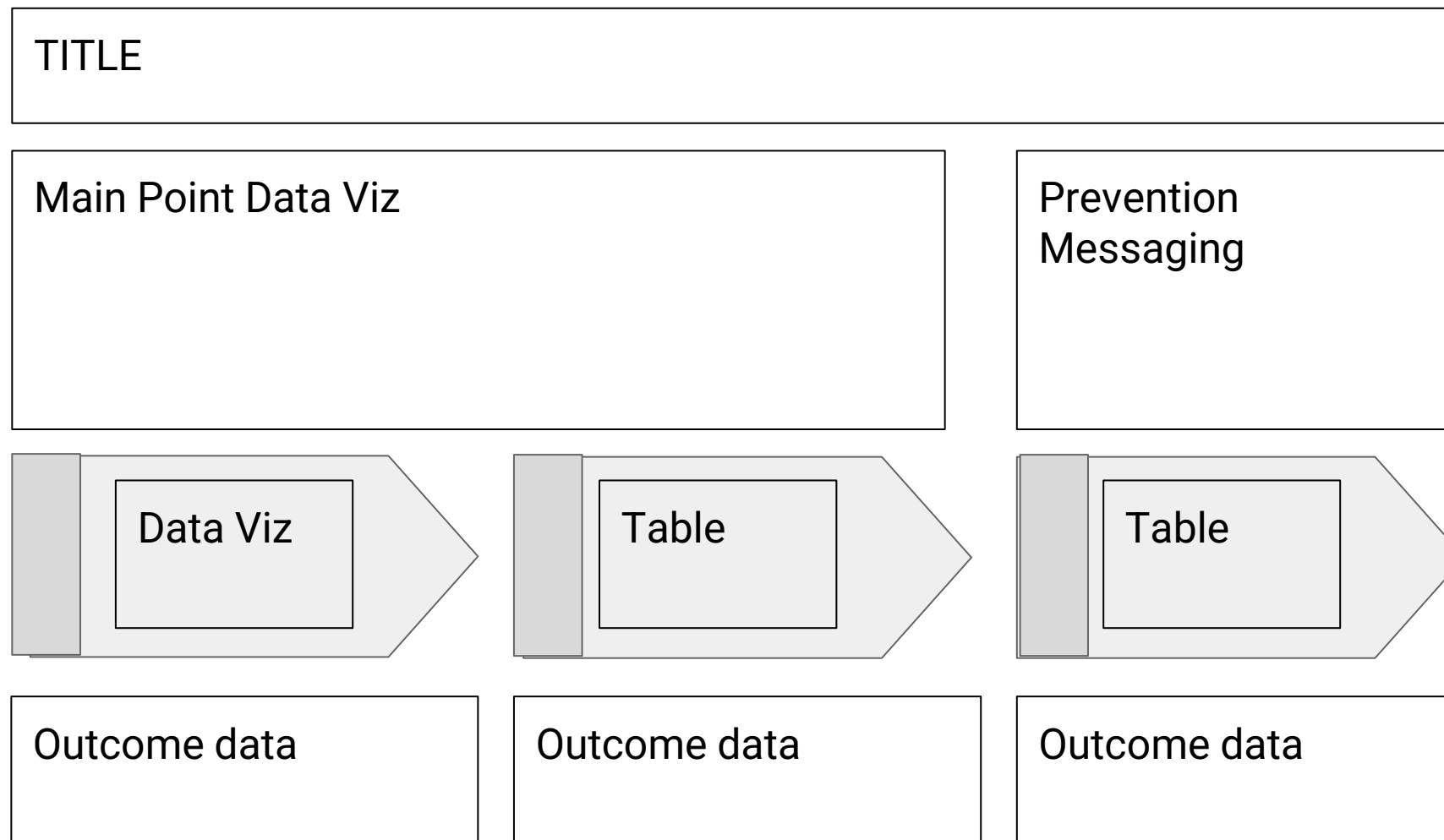
Babies who survive spend about **10 days** in the hospital

**77%** of babies were symptomatic in 2019.

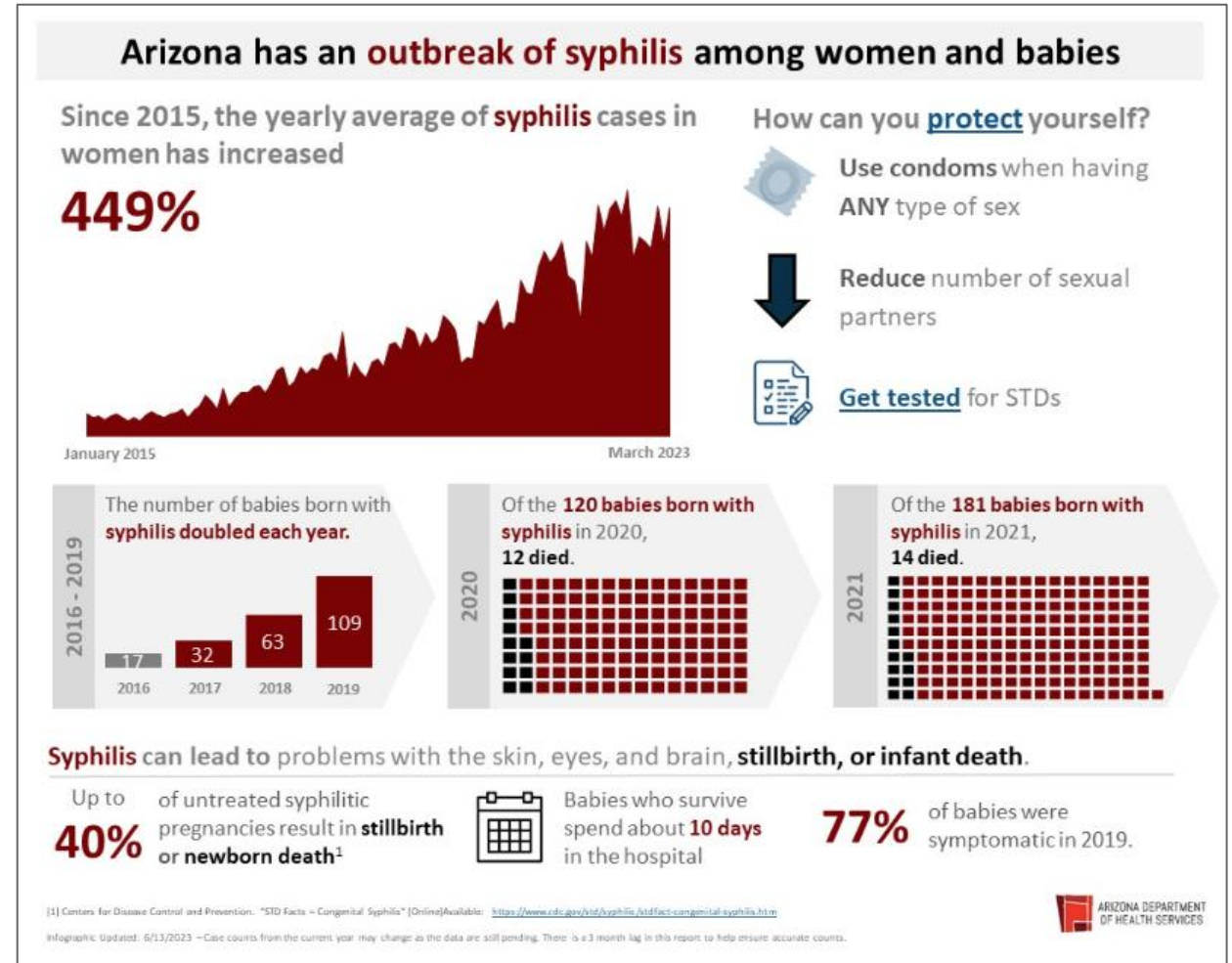
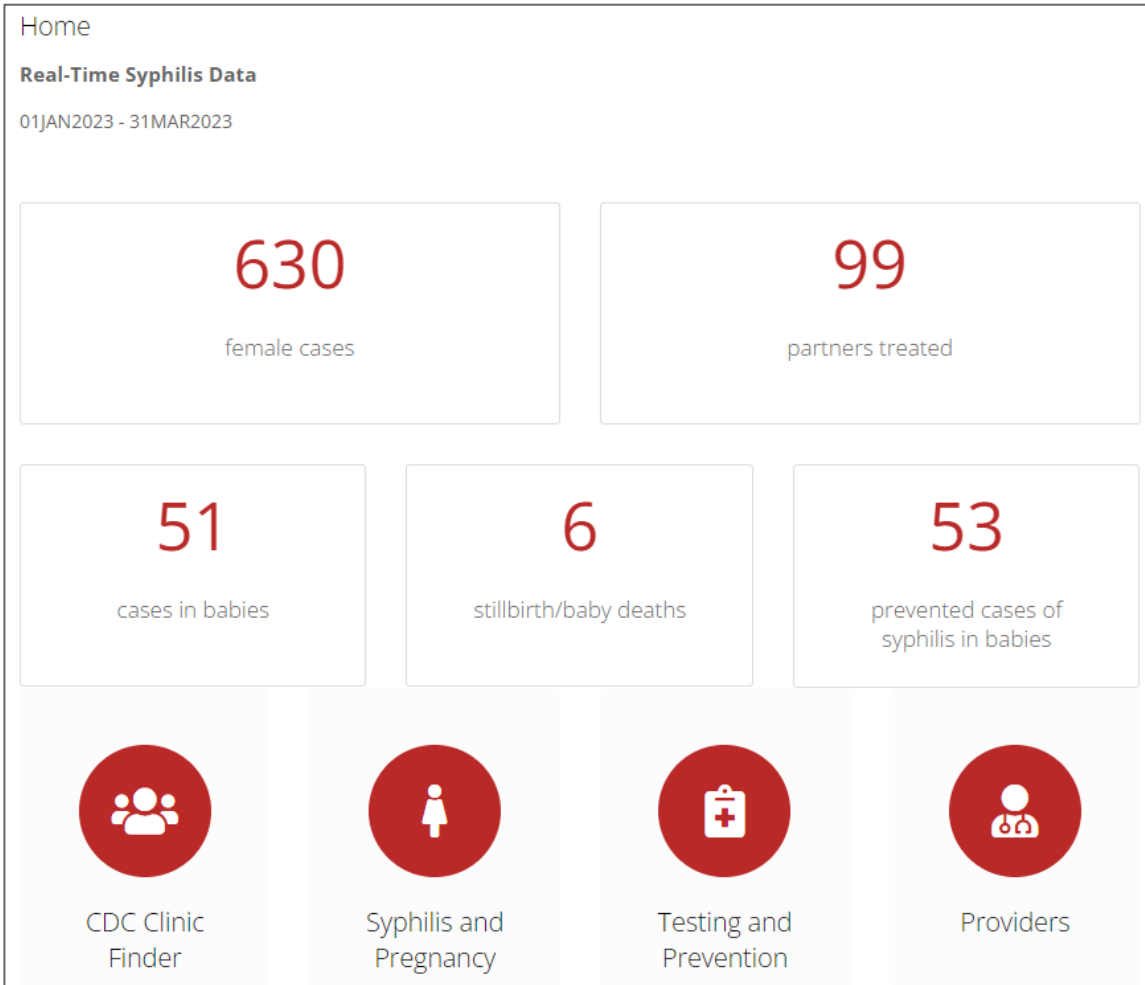
[1] Centers for Disease Control and Prevention. "STD Facts - Congenital Syphilis" [Online] Available: <https://www.cdc.gov/std/syphilis/stdfact-congenital-syphilis.htm>

Infographic Updated: 6/13/2023 - Case counts from the current year may change as the data are still pending. There is a 3 month lag in this report to help ensure accurate counts.

# Behind the Scenes



# Static Dashboards - Maintenance



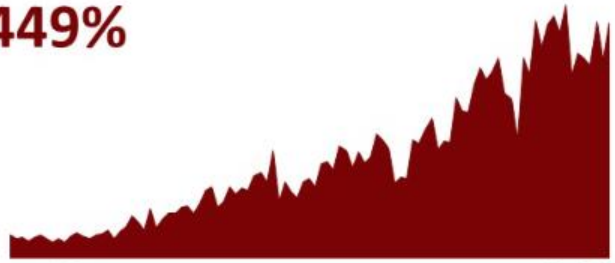
# Static Dashboards

Update monthly →

## Arizona has an **outbreak of syphilis** among women and babies

Since 2015, the yearly average of **syphilis** cases in women has increased

**449%**



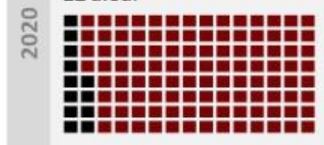
How can you **protect** yourself?

-  Use condoms when having ANY type of sex
-  Reduce number of sexual partners
-  Get tested for STDs

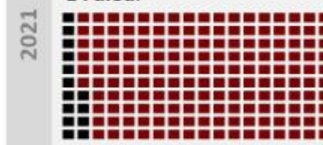
The number of babies born with syphilis **doubled each year.**



Of the **120 babies born with syphilis** in 2020, **12 died.**




Of the **181 babies born with syphilis** in 2021, **14 died.**



Update monthly(ish)

**Syphilis** can lead to problems with the skin, eyes, and brain, **stillbirth, or infant death.**

Up to **40%** of untreated syphilitic pregnancies result in **stillbirth or newborn death**<sup>1</sup>

 Babies who survive spend about **10 days** in the hospital

**77%** of babies were symptomatic in 2019.

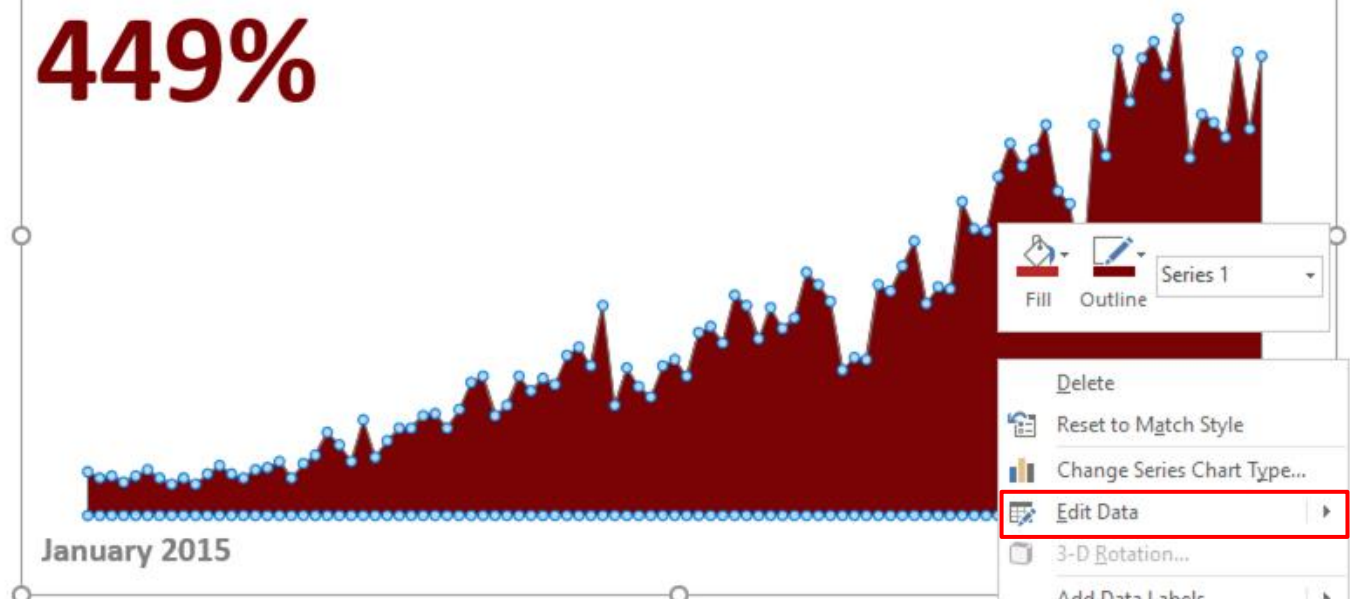
Update monthly →

1. Centers for Disease Control and Prevention. "STD Facts - Congenital Syphilis" [Online] Available: <https://www.cdc.gov/std/syphilis/stdfact-congenital-syphilis.htm>  
Infographic Updated: 6/13/2023 - Case counts from the current year may change as the data are still pending. There is a 3 month lag in this report to help ensure accurate counts.

# Updating the data

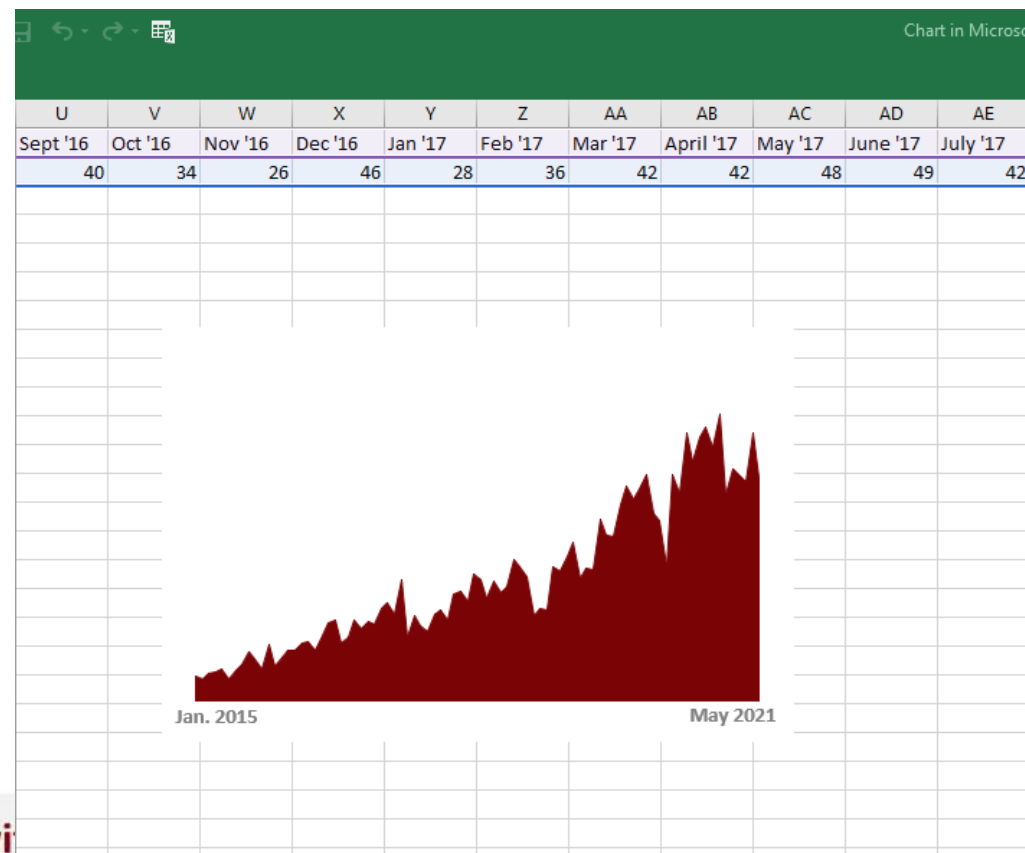
Since 2015, the yearly average of **syphilis** cases in women has increased

**449%**



The number of babies born with **syphilis doubled each year.**

Of the **syph** wi

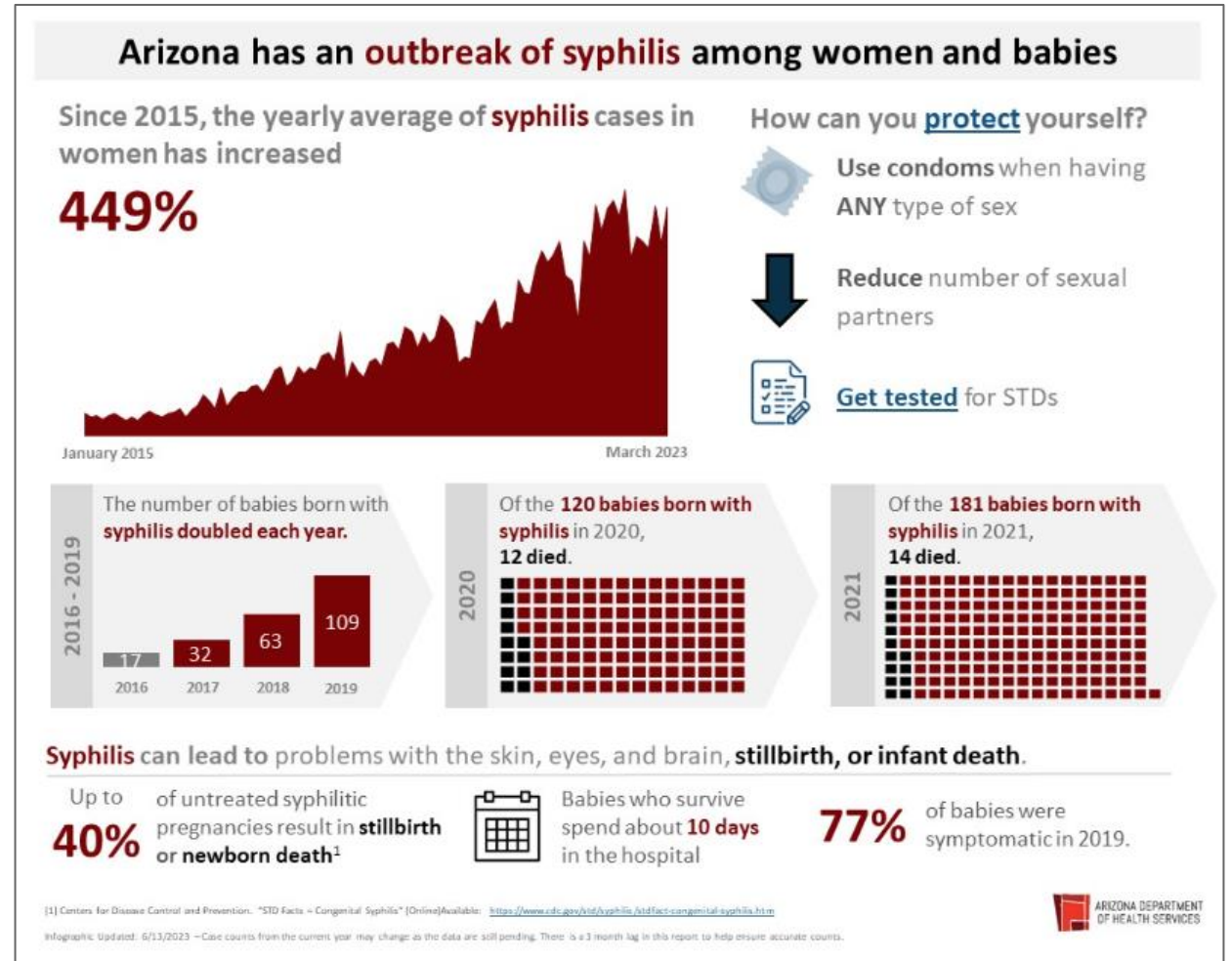




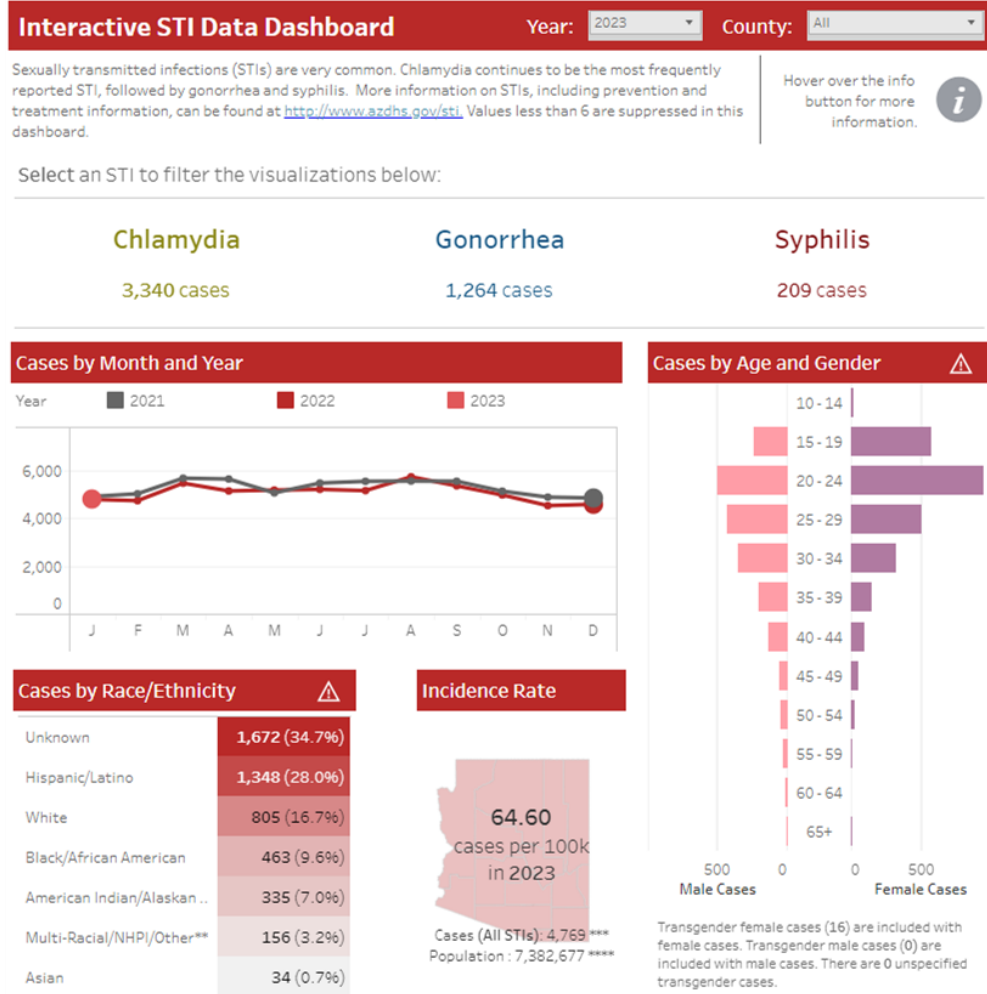


# Static Dashboards Resource Needs

- Staff: 1 epi (build/maintain)
- Dev time: 2-4 weeks
- Maintenance: 30 min/month
- Annual Cost: Varies, usually minimal



# Interactive Dashboards



# Internal Dashboards

## Syphilis Summary Dashboard, 2021

Click arrow for more data



This dashboard displays cases of Syphilis by stage, in Arizona. Data are filterable by age group, county of residence, gender, and provider.

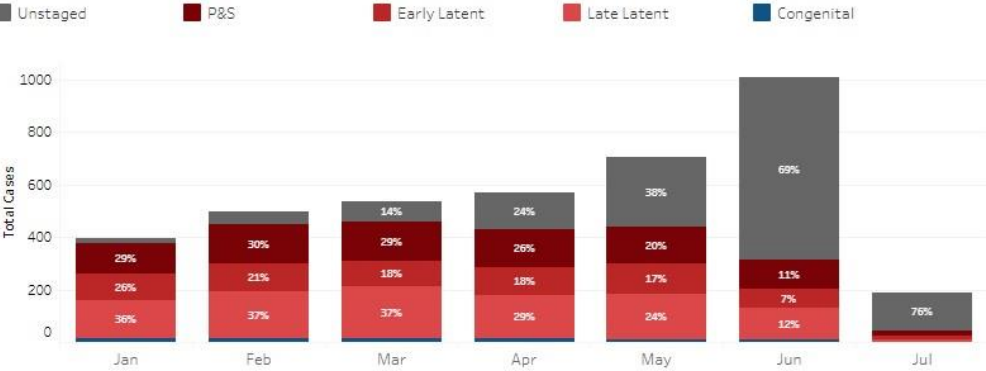
County: (All) | 
 Year: 2021 | 
 Gender: (All) | 
 Age Group: (All) | 
 Tribal Resident?: (All)

<b>Total Cases</b>	3,903 Median titer: 32
<b>Unstaged Cases</b>	1,391 Median titer: 8
<b>Primary and Secondary (P&amp;S) Cases</b>	838 Median titer: 64
<b>Early Latent Cases</b>	610 Median titer: 32
<b>Late Latent Cases</b>	990 Median titer: 32
<b>Congenital Cases</b>	74 Median titer: 8
<a href="#">Click to Navigate to CDC Syphilis Case Definitions</a>	

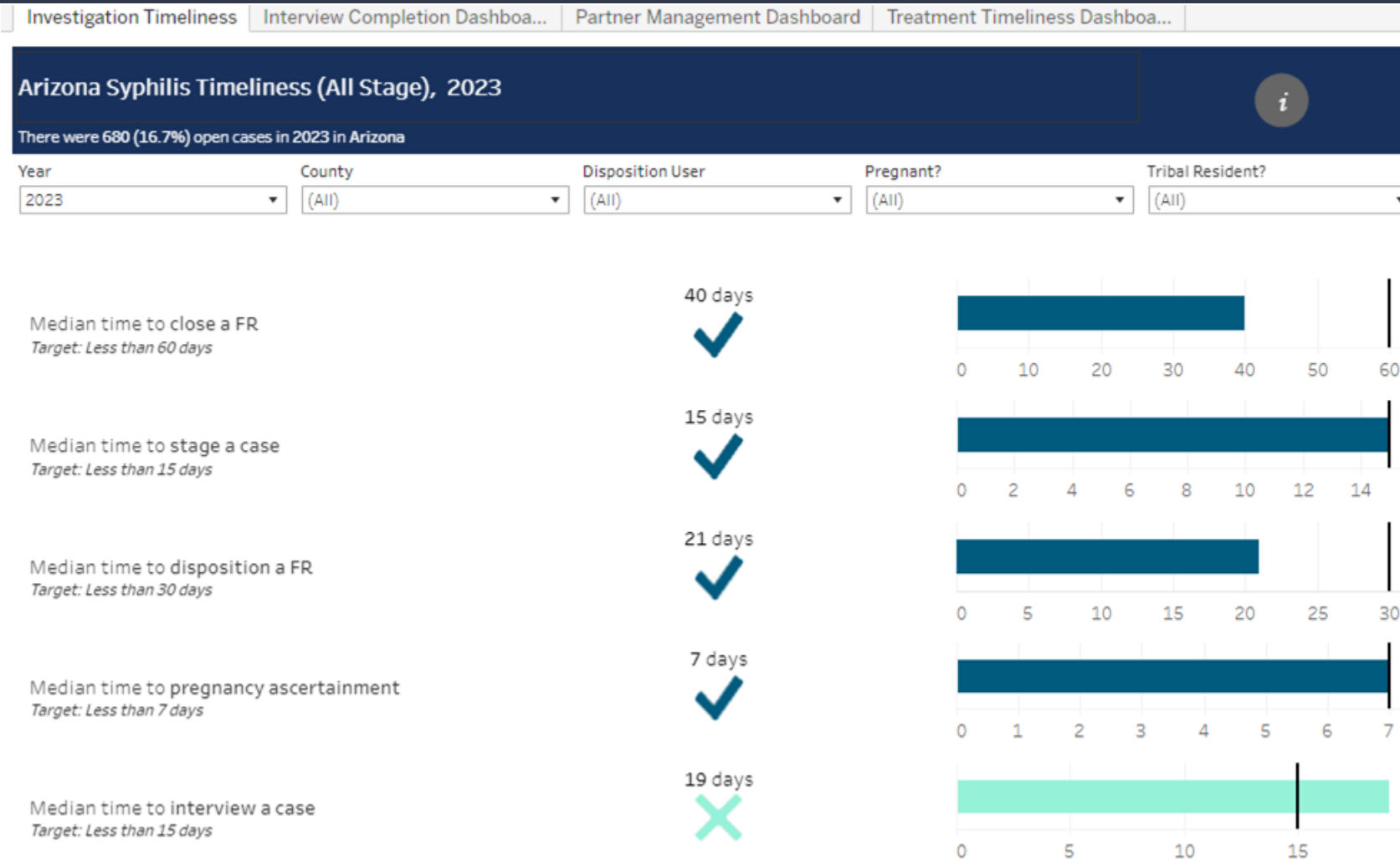
### Syphilis Cases by Diagnosing Provider, 2021



### Syphilis Cases by Month of Report and Stage, 2021



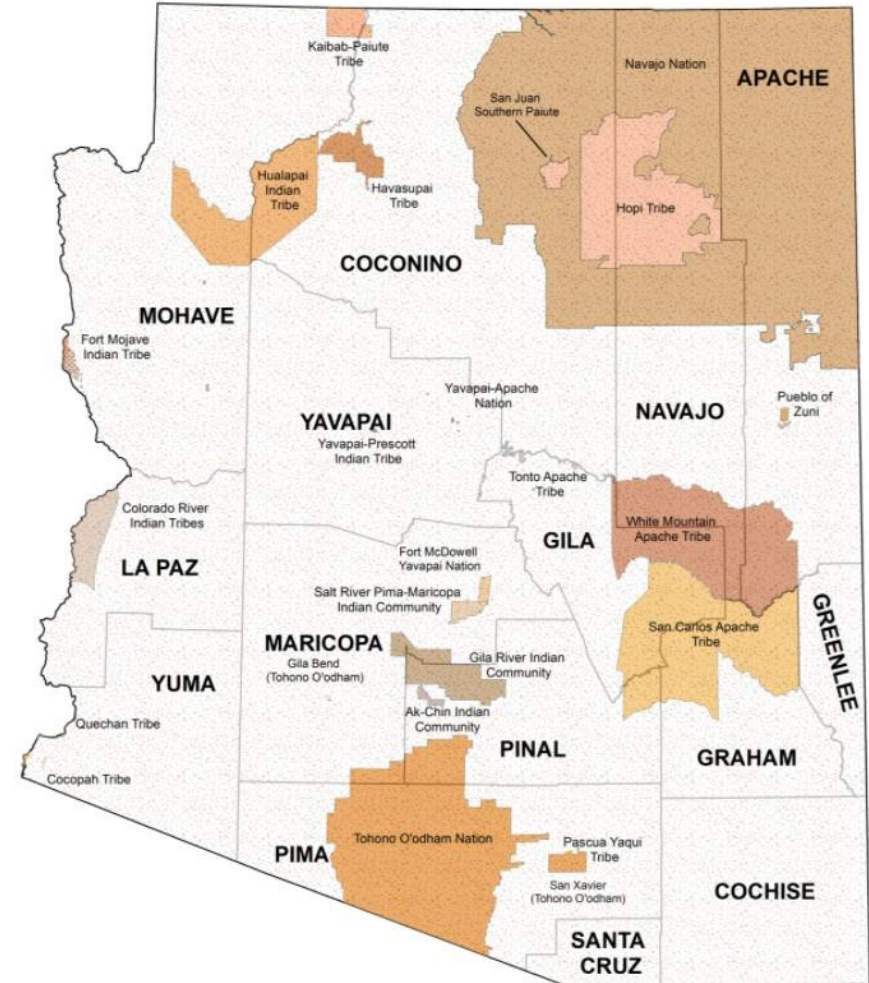
# Internal Dashboards



# Row Level Security

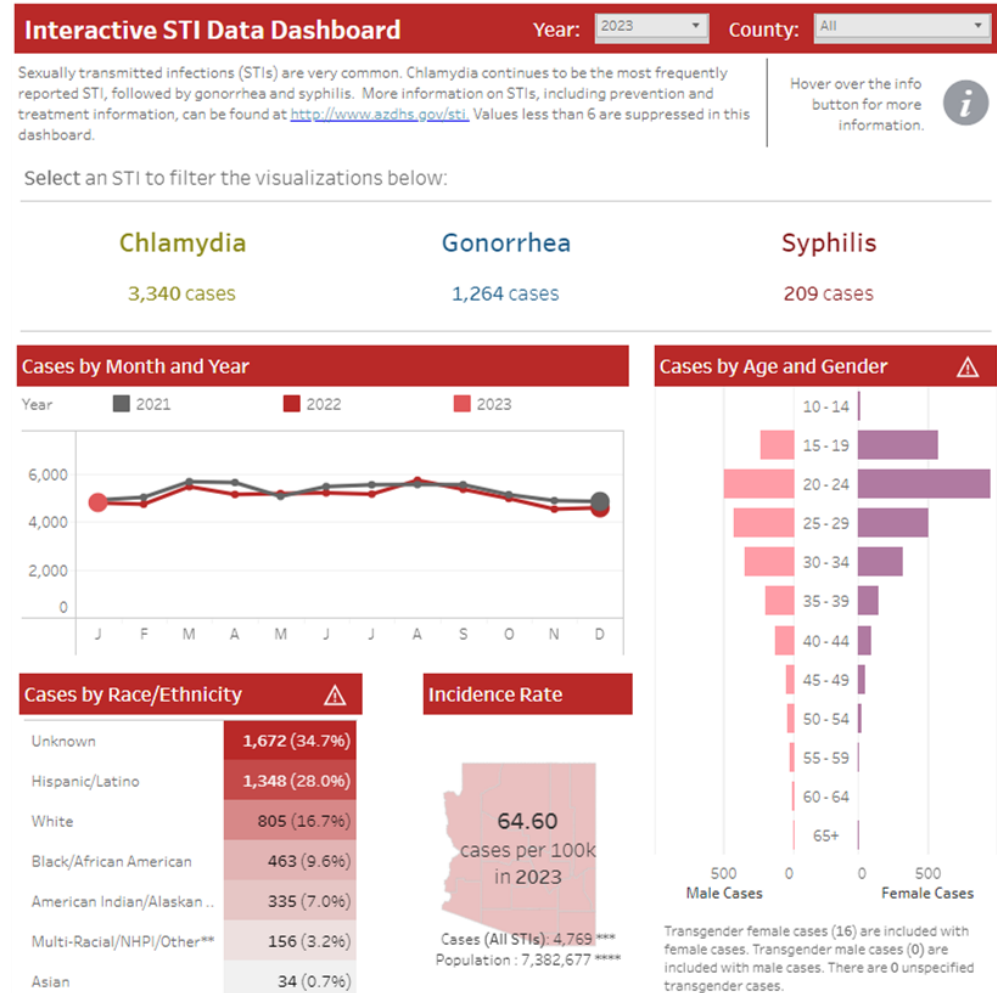
**Counties** see everything in their county, including tribal cases.

**Tribes** see everything in their jurisdiction, even across counties



# Interactive Dashboard Resource Needs

- **Staff: 2 epi, build 1 epi maintain**
- **Dev time: ~6 months**
- **Maintenance: minimal, recommend annual review**
- **Annual Cost: \$840 minimum**

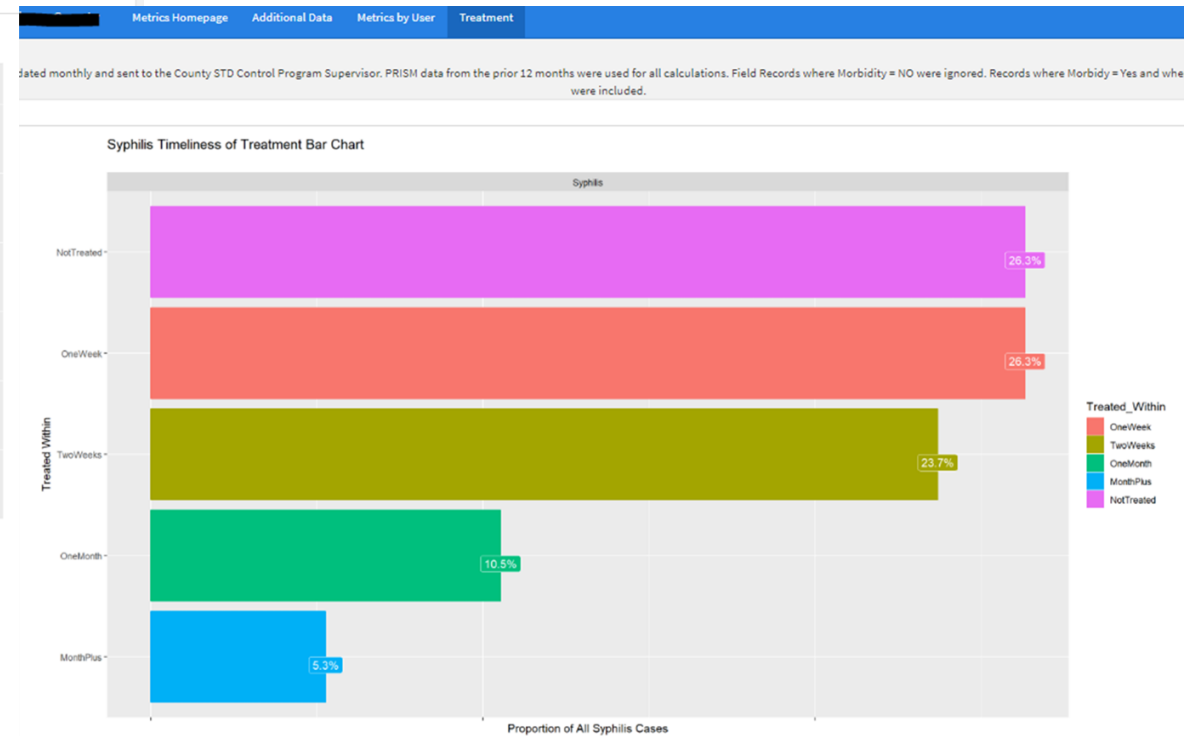
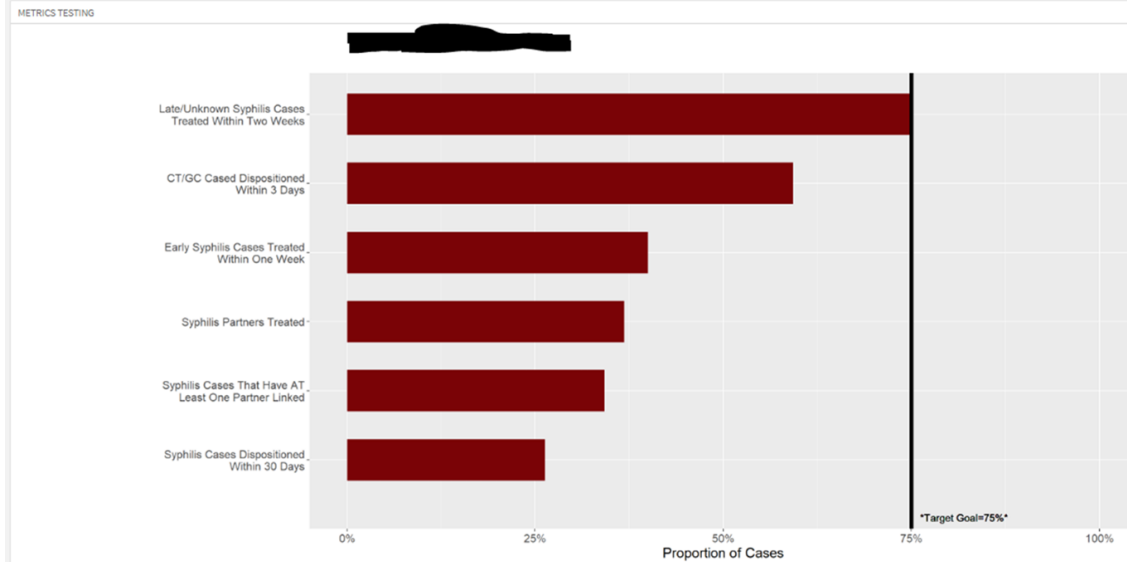
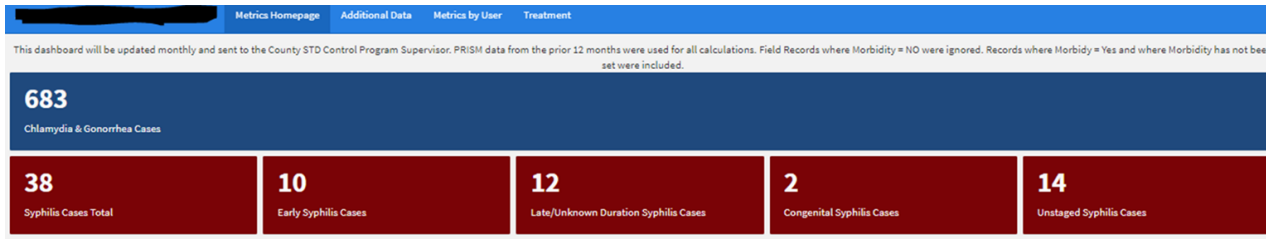


# Annual Tableau Cost (\$840+)

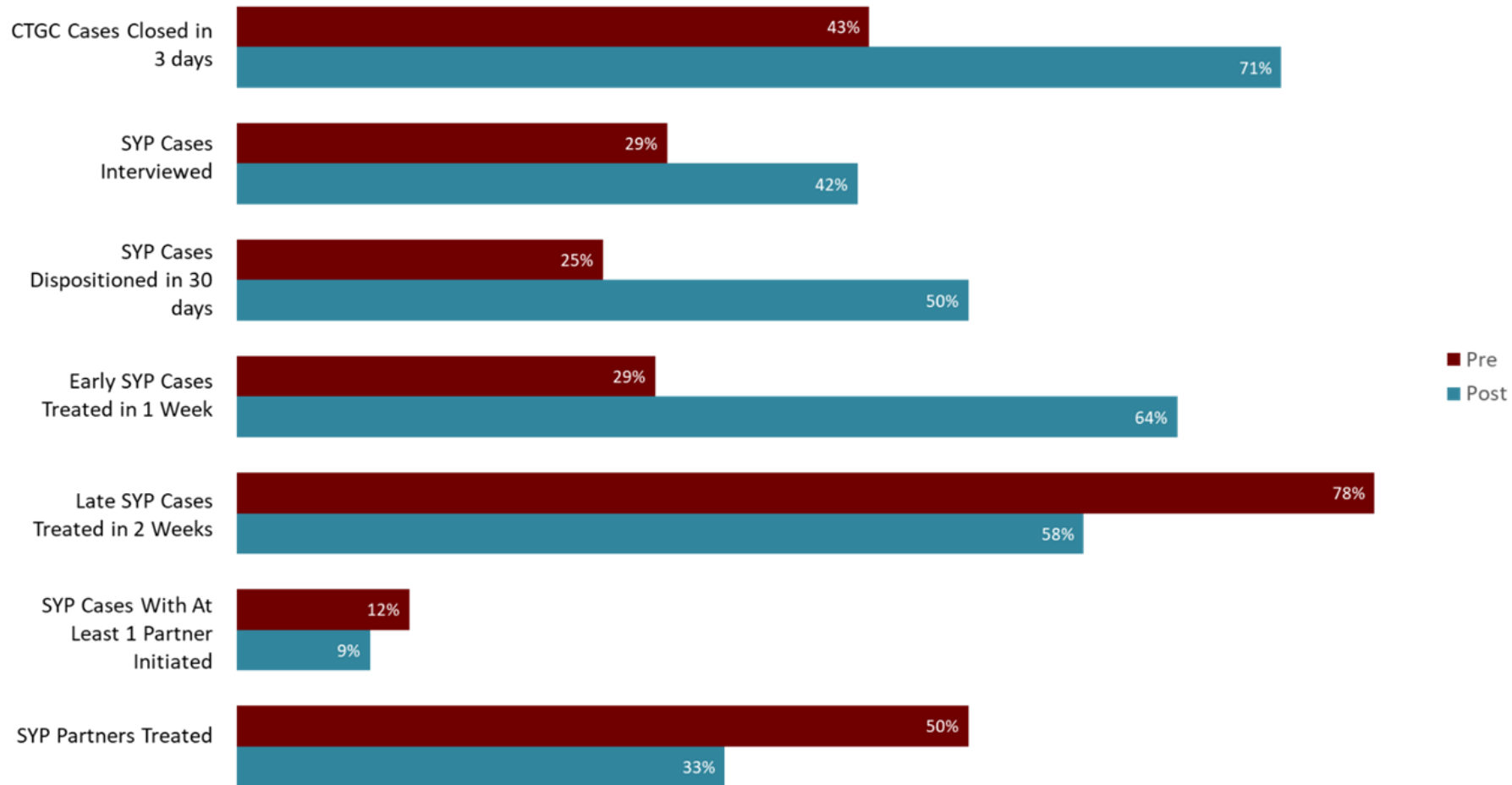
- **Public Facing Dashboard**
  - **\$840 per Creator license (need at least 1-2 to build/maintain)**
- **Additional cost for Internal Dashboards**
  - **\$180/user/year**
    - **Example: \$6,660 for 37 viewers (1 account per jurisdiction, 15 Counties, 22 tribes)**



# Try R dashboards for a lower cost option!

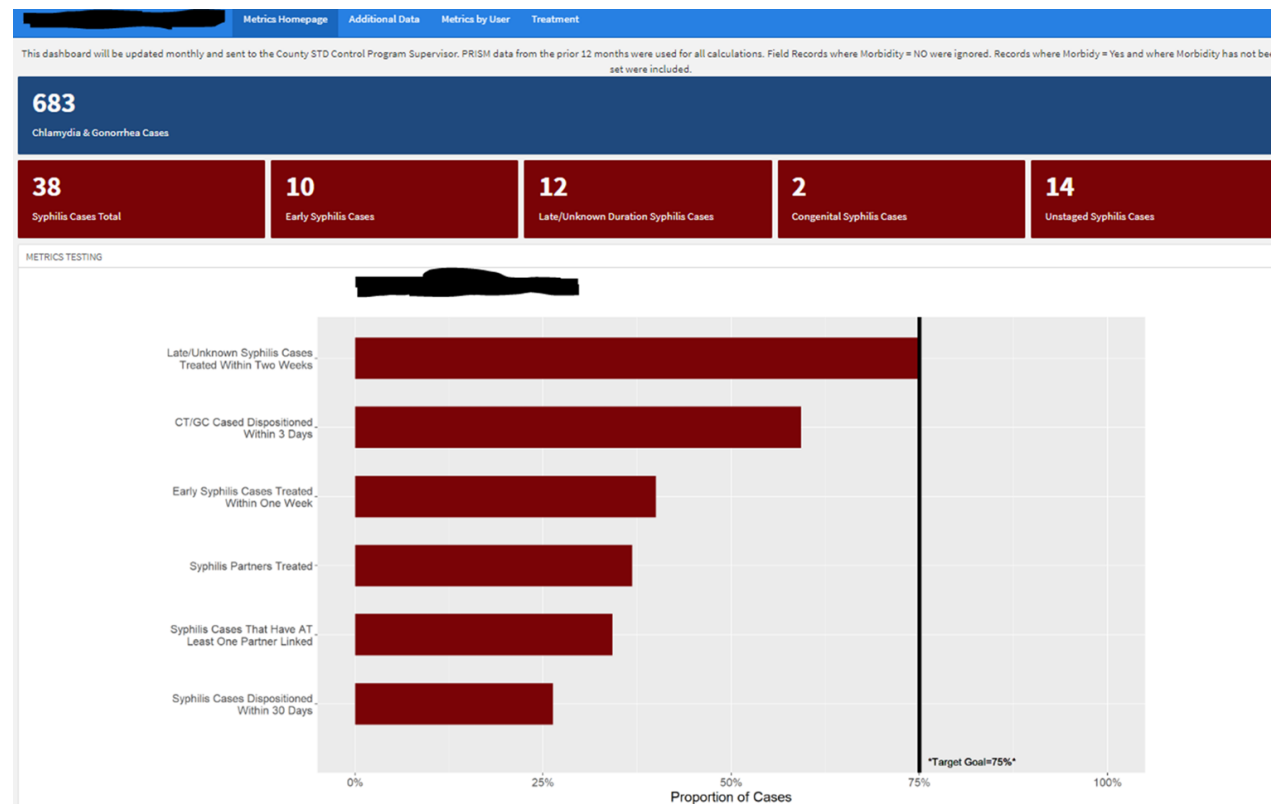


# Outcome data from dashboard project



# R Dashboard Resource Needs

- **Staff: 1 epi (build/maintain)**
- **Dev time: 2-4 weeks**
- **Maintenance: minimal**
- **Annual Cost: minimal**



# Dashboard Options



- Static Dashboards
- Interactive Dashboards
- Internal Dashboards
- R Dashboards

# Additional Resources

[NY Dashboard Article](#)

[Evergreen Data Viz](#)

[ASTHO AZ STI Dashboard Tool](#)

AZ STI Data: [azdhs.gov/sti](https://azdhs.gov/sti)

AZ Syphilis Data: [azdhs.gov/syphilis](https://azdhs.gov/syphilis)

# Want to keep chatting about dashboards?

[Rebecca.Scranton@azdhs.gov](mailto:Rebecca.Scranton@azdhs.gov)

[sti@azdhs.gov](mailto:sti@azdhs.gov)

Thank you to Keivon Hobeheidar  
for helping to develop these slides  
and our Tableau dashboards!

# **Webinar Evaluation Poll Question**

---

**Q1:Webinar Usefulness**

# **Webinar Evaluation Poll Question**

---

**Q2: Program Improvement**



# Thanks for Participating

---

- We hope you found this webinar worthwhile and informative.
- If you have topic suggestions for future Informatics Webinars, please email us:
  - Charlie Rabins [crabins@ncsddc.org](mailto:crabins@ncsddc.org)
  - Robin Hennessy [btj2@cdc.gov](mailto:btj2@cdc.gov)