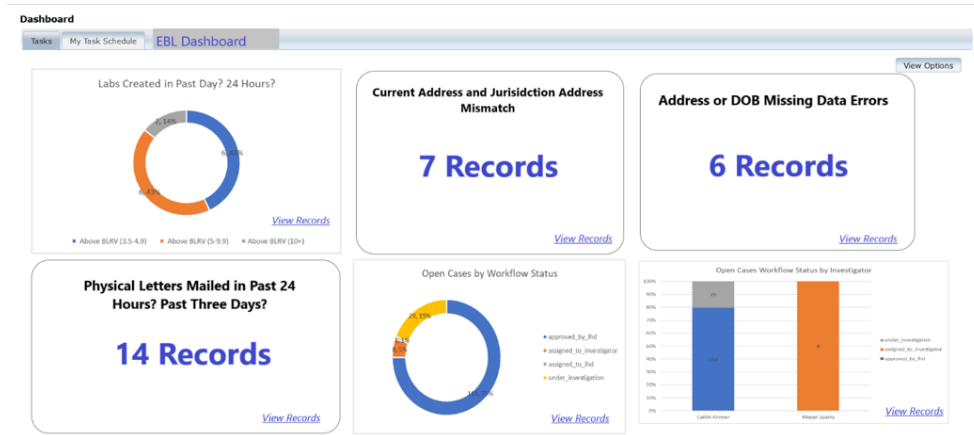




Apache Superset: General User Guide

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ABOUT APACHE SUPERSET

Apache Superset™ is an open-source modern data exploration and visualization platform. Superset is fast, lightweight, intuitive, and loaded with options that make it easy for users of all skill sets to explore and visualize their data, from simple line charts to highly detailed geospatial charts.

Superset is an open-source project maintained by the Apache Software Foundation.

Deloitte is responsible for packaging, deployment, environment configuration, monitoring, patching/version management, and integration with the EpiTrax application. This integration includes connecting Superset with the EpiTrax read-only PostgreSQL database and creating custom datasets that can be utilized in data visualizations.

IMPORTANCE OF DASHBOARDS

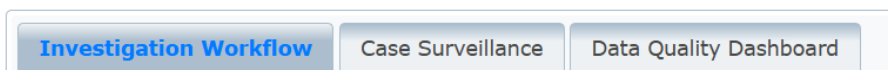
Dashboards play a crucial role in public health disease surveillance, providing a visual representation of data to help users monitor, analyze, and make informed decisions.

- Data Visualization
- Real-time Monitoring
- Decision Making
- Efficiency and Productivity
- Customization
- Early Detection of Issues

EPITRAX PRECONFIGURED DASHBOARDS

The Office of State Epidemiology has configured three (3) dashboards to reflect some of the more common data used for supporting public health disease surveillance.

Dashboard

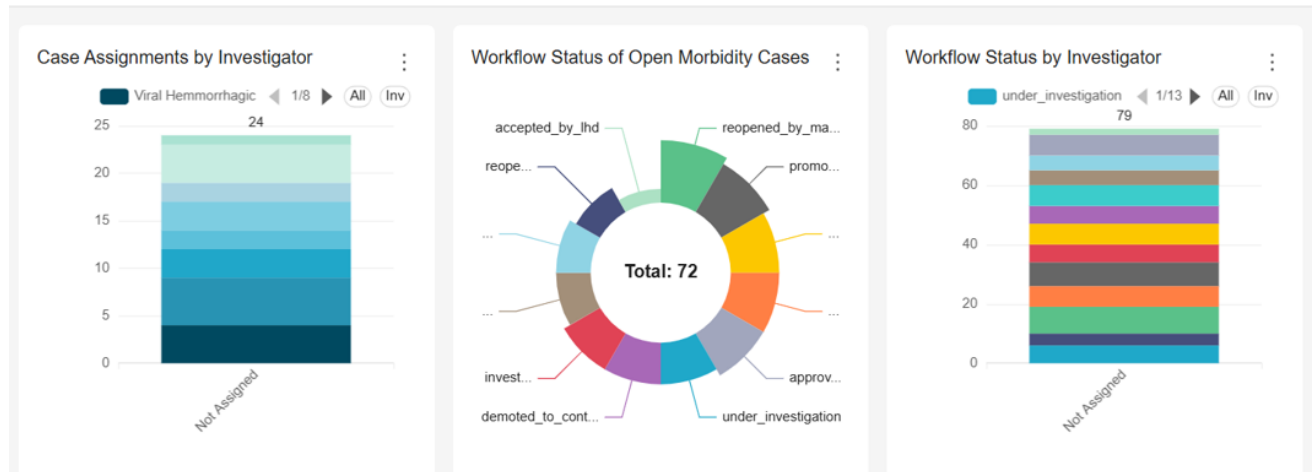


These preconfigured dashboards are Investigation Workflow, Case Surveillance, and Data Quality.

1. Investigation Workflow Dashboard: This dashboard provides a real-time view of case investigations within EpiTrax. It allows users across multiple jurisdictions to monitor their case assignments, track workflow statuses, and ensure efficient distribution of work across investigators. This dashboard has 3 tiles:
 - a. Case Assignments by Investigator - Stacked Bar chart will show cases count of both total and individual cases count by condition for each Investigator. This tile can be filtered by date range, jurisdiction, case type and condition.
 - b. Workflow Status of Open Morbidity Cases - Displays the distribution of workflow statuses
 - c. Workflow Status by Investigator - Displays the workflow status breakdown for each case assigned to an investigator

Investigation Workflow

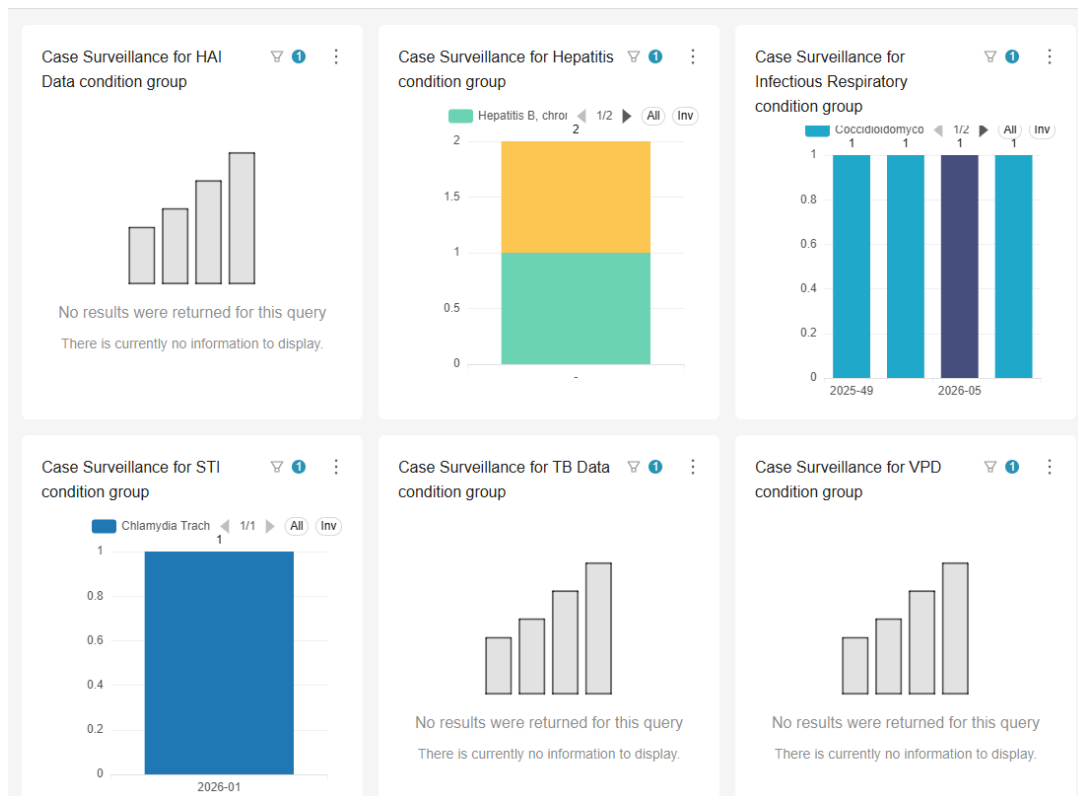
3 months ago



2. **Case Surveillance Dashboard:** This dashboard provides a date-based view of case surveillance across major condition groups. It enables filtering by jurisdiction, case status and condition, and gives program staff and investigators insight into patterns, workload, and case progress by conditions. This dashboard uses different tiles to display case surveillance by individual conditions.

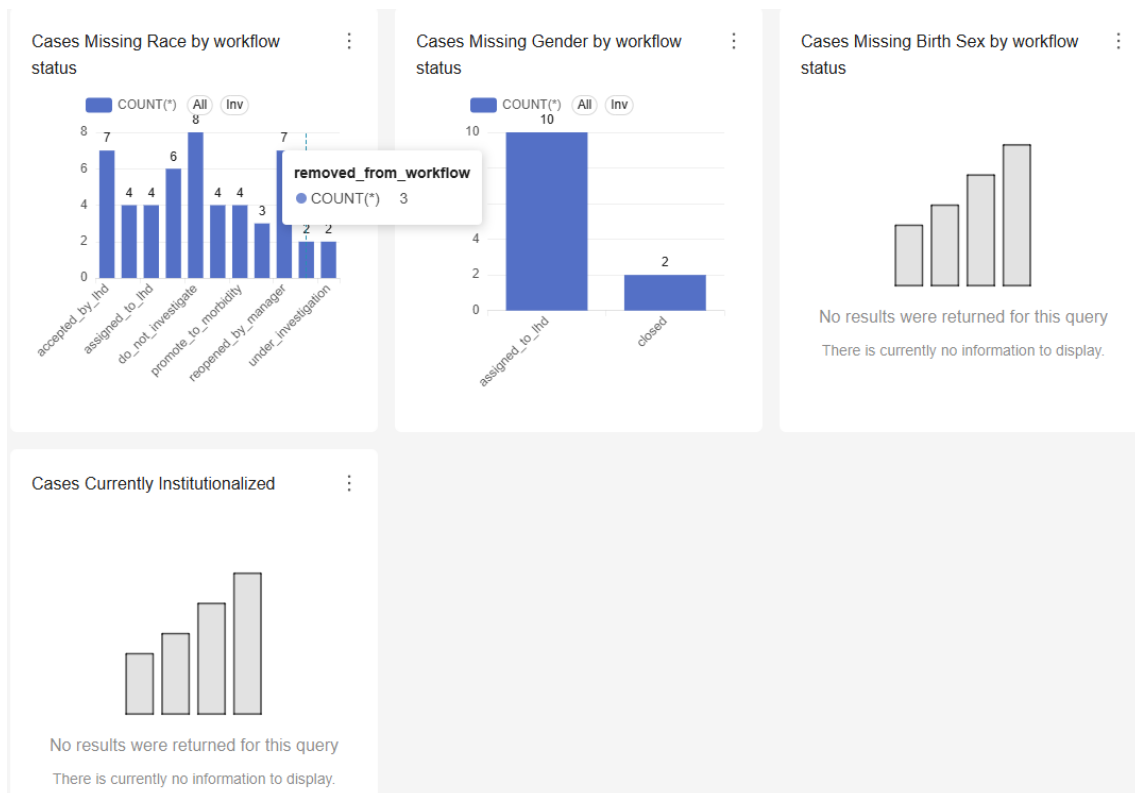
Case Surveillance

3 months ago



3. **Data Quality Dashboard:** This dashboard shows whether cases have ELR data, eCR data, both, or neither. It allows the user to assess reporting completeness, as well as identify where provider-level onboarding gaps exist. It is broken into 4 tiles, each displaying case reports with missing values (race, gender, and birth sex). The final tile shows cases currently institutionalized.

Note: If no results are returned, like some of the example tiles below, that means there is no data to be returned within the parameters of your access. Your Superset access will mimic that of your EpiTrax permissions.



NAVIGATION

Dashboards

Use the Dashboard menu option located in the top EpiTrax ribbon menu.

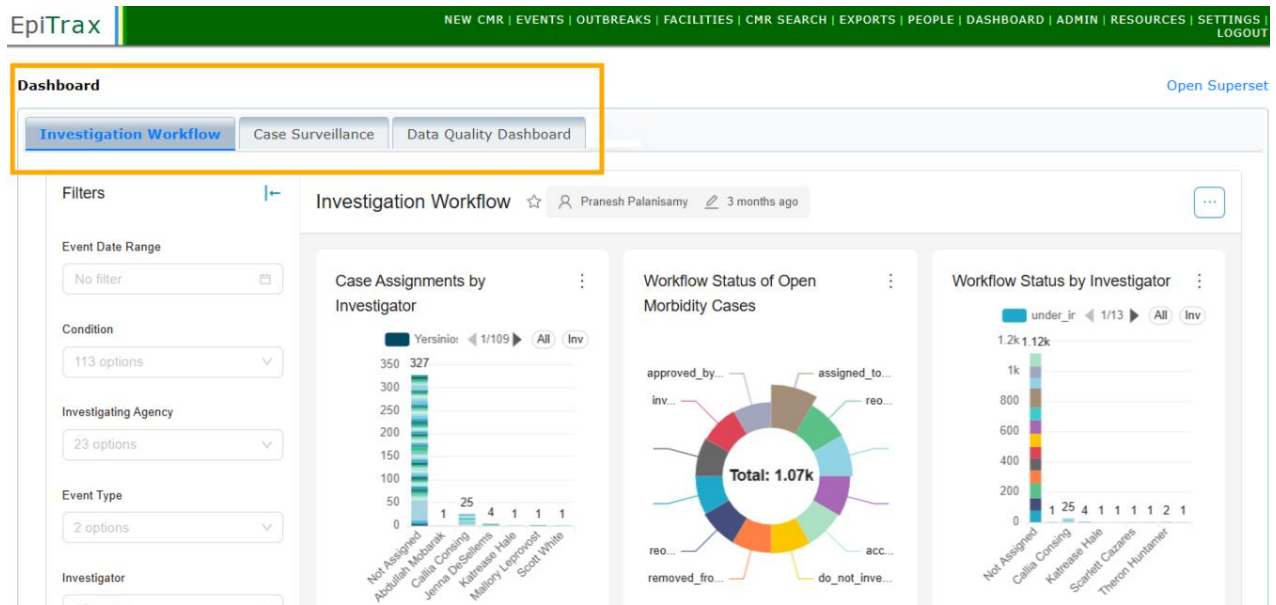


Note: If there are no dashboard tabs visible to the right of the My Task Schedule tab then your administrator has not designated any to show up on this page, and they will only be available from the Dashboard option on the top EpiTrax ribbon menu.

Dashboards can only appear in one place, either My Dashboards or from EpiTrax ribbon menu. Administrators designate where each dashboard appears for users. If you see no Dashboard options, contact your EpiTrax administrator.

Dashboard Components Overview

The Dashboard view displays the pre-configured charts within EpiTrax.



Each chart includes several standard elements that support interpretation and navigation.

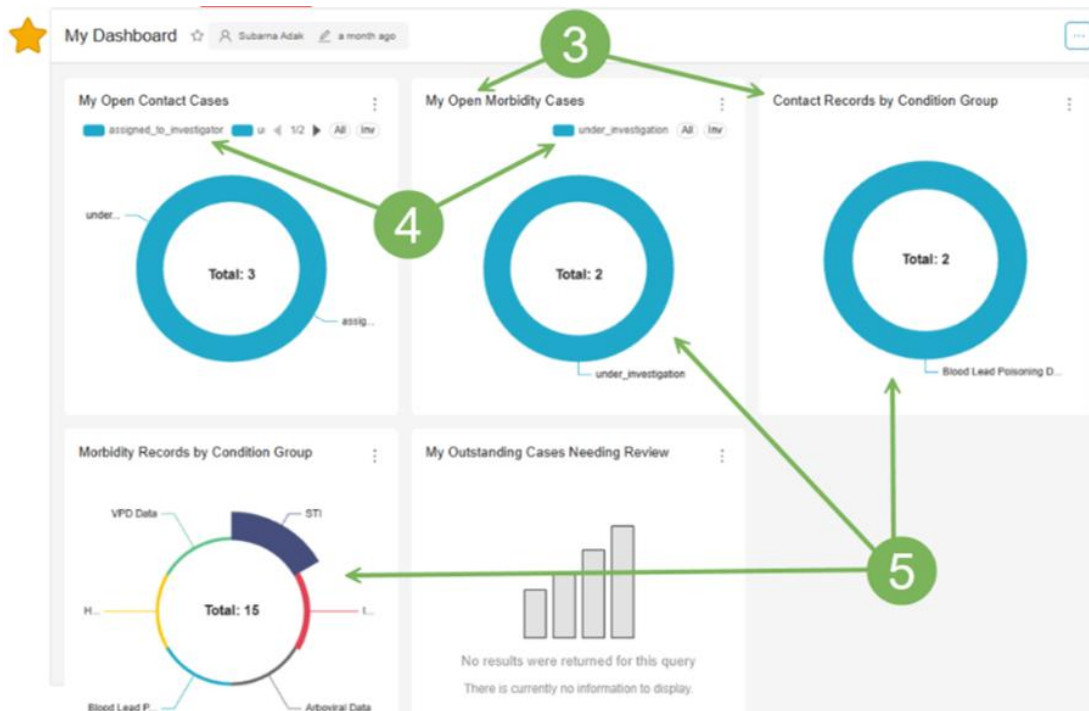


Chart Titles

Each chart includes a title (labeled 3) located at the top left of the chart area. The Chart Title summarizes the type of information being displayed (for example, “My Open Contact Cases” or “My Open Morbidity Cases”). Users can glance at the title to understand the content without needing to review the chart in detail.

Chart Legend

The Chart Legend (labeled 4) identifies the values, groups, or categories represented within the chart. This may include categories such as investigation status, condition group, or other case-related classifications. Colors in the chart match the associated labels in the legend, allowing users to quickly interpret what each segment or bar represents.

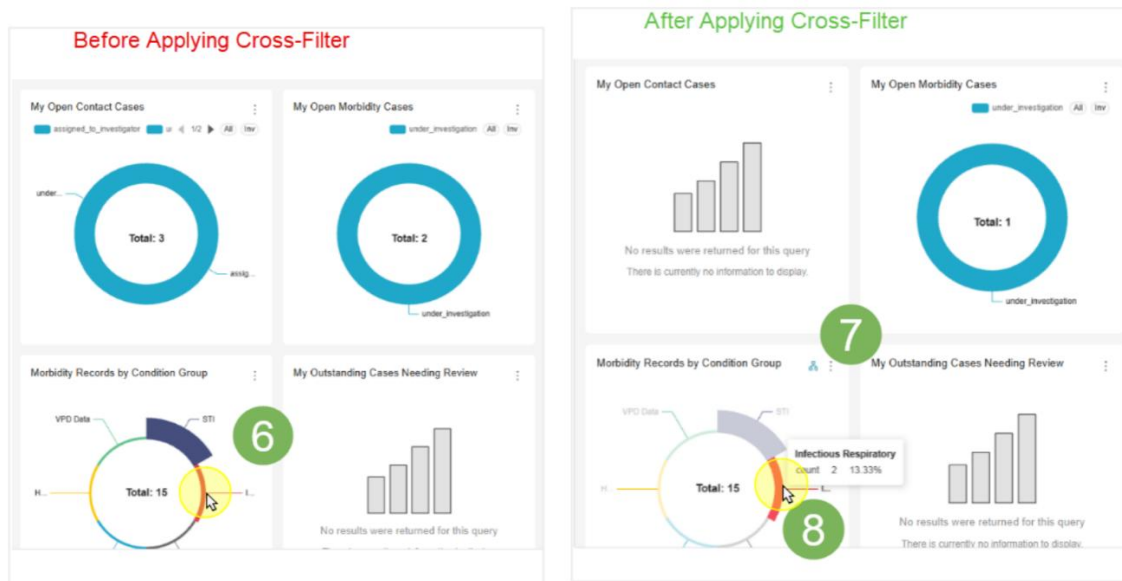
Chart Views

The Chart Views (labeled 5) refers to the visual representation of the data, such as donut charts, bar charts, or line charts. This area displays data values, totals, and distributions. Users can interact with certain charts (for example, hovering or clicking) depending on the dashboard configuration. Some charts may also display messages when no data is available.

Cross Filters

Cross-Filtering allows users to quickly focus on a subset of data, compare trends, and better understand relationships across multiple visualizations. (Labeled 6)

- Clicking on a specific segment, bar, or value within a chart will automatically apply a Cross-Filter to the entire dashboard. This action filters all other charts to show only the data related to the selected category. (labeled 7)



- Click the same single filter used to apply the Cross-Filter to turn it off again
- If filters are applied, the user can see which ones are applied by hovering their mouse over the filter icon (labeled 8 and 9)

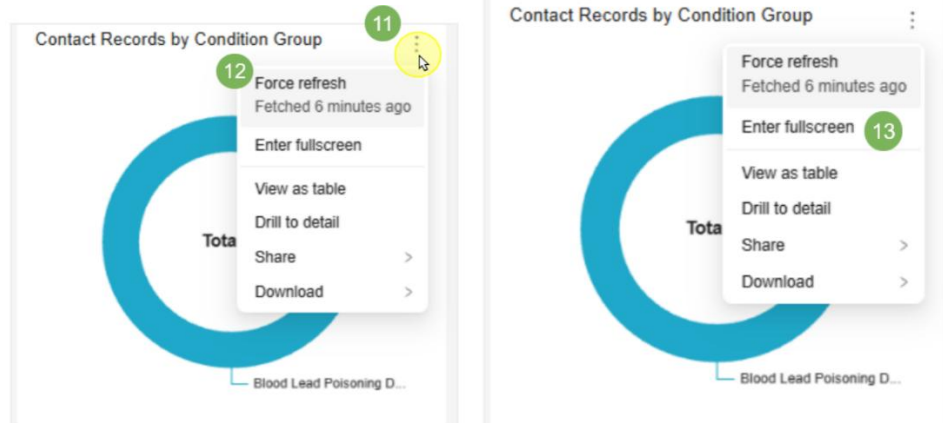


- Clicking the "INV" (Inverse) button will give the user a view of the data opposite/inverse of one or all the filters that had been previously selected (labeled 10)

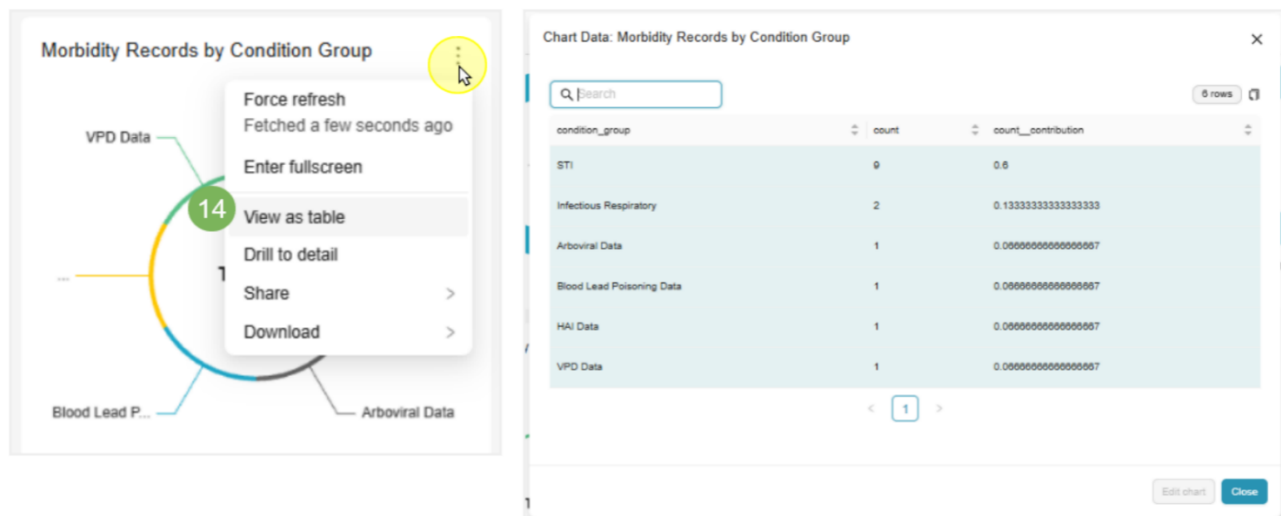
Chart Options Menu

Each individual chart has a menu users can access by clicking the 3 dots in the top right (labeled 11)

- Select Force refresh from the chart options menu to reload the chart with the most recent data available. Use this option when you want to ensure that the visualization reflects the latest updates (labeled 12).



- Choose Enter Fullscreen (labeled 13) to expand the selected chart so it fills your entire screen. This view makes it easier to examine details, present information during meetings, or review data without surrounding dashboard elements.
- Click View as table (labeled 14) to display the chart's underlying data in a tabular format. This option is useful when you need to review individual values, confirm totals, or inspect the dataset used to generate the visualization.

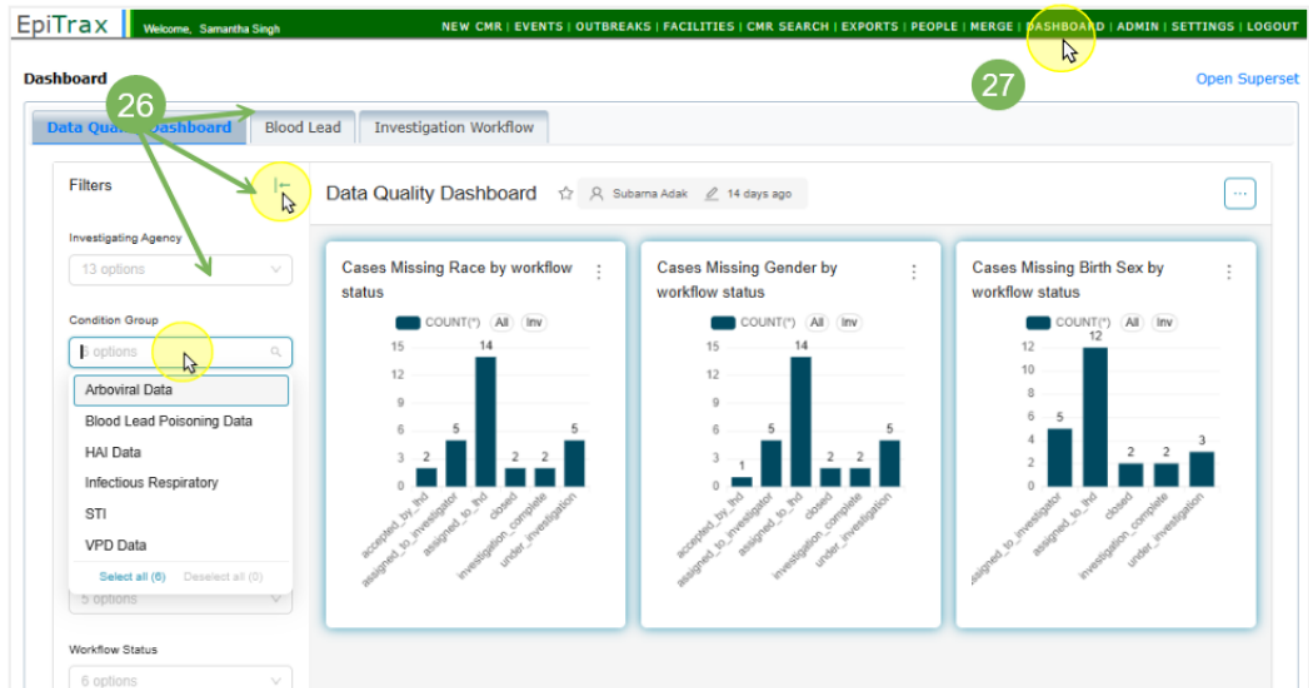


- Select Drill to detail to access the individual record-level information behind the chart
- Use the Share option to generate sharing links or access any available sharing tools. The ability to share may vary depending on user permissions and dashboard settings.
- Choose Download to export chart information. Available formats may include images, CSV files, or other supported output types. This option allows you to save the data for reporting, documentation, or offline use.

Expand or Collapse the Filter Menu

- Select the arrow icon on the left side of the dashboard (labeled 26)

- Clicking this arrow will expand or collapse the filter menu.
- When expanded, the filter panel displays all currently applied filters and provides access to additional filter options through multiple drop-down lists.
- Use these filters to refine the data displayed on the dashboard based on criteria such as condition group, status, or workflow values.



Access Dashboards Using the Ribbon Menu

- Navigate to the top bar and select Dashboards from the ribbon menu (labeled 27)
- Opening this menu displays a list of dashboards available to the user. The list may vary slightly based on user permissions or assigned views
- Selecting a dashboard from the ribbon will load it in the main window.

Q&A

I cannot see any dashboards in EpiTrax; what should I do? Send an email to Informatics@health.nv.gov with the subject line: EpiTrax Permissions

USER ACCESS CONTROLS

Agency Access Restrictions

Dataset queries include a filter to limit the records included in the dataset to those with an investigating agency ("jurisdiction") the user has access to. If a user has a local health role, the records they can access in a dataset and subsequent charts and dashboards are restricted to that specific jurisdiction/agency.

Condition Access Restrictions

Dataset queries include a filter to limit the records included in the dataset to those with a condition the user has access to. If a user has been granted access to a condition in EpiTrax they are able to see those records in the dataset. If a user does not have access to a specific condition, those records are filtered from the dataset and subsequent charts and dashboards.

SUPPORTING RESOURCES

Each jurisdiction has identified at least one resource to support them. For permission support, please reach out to informatics@nv.health.gov.

Nevada Superset System Administrators

Name	Email	Jurisdiction
Elizabeth Kessler	ekessler@health.nv.gov	DPBH
Shawn A. Thomas	sathomas@health.nv.gov	DPBH
Victoria Sepcic	victoria.sepcic@centralnevadahd.org	CNHD
Raechel Freshman	rfreshman@carsoncity.gov	CCHHS
Kellie Watkins	KWatkins@nnph.org	NNPH
Preston Tang	ptang@health.nv.gov	Rurals

GLOSSARY

Term	Abbr.	Definition
Embedded dashboards		Embedded dashboards are Superset dashboards displayed inside EpiTrax, so that EpiTrax users see analytics without going into separate Superset application.
EpiTrax		EpiTrax is our integrated disease surveillance system. This robust user interface is used for case management and investigation by epidemiologists. Data is received directly from EMSA and is used in this person-centric platform for whole person case investigation. This platform is highly customizable. The forms used in this platform are customizable to the needs of each program and their unique population and workflows. In addition, each user can customize their own view and tasks while still maintaining the integrity of the jurisdictions workflows and policies.
Non-embedded dashboards		Dashboards inside Apache Superset, accessed directly through the Superset interface for analysts, epidemiologists, and admins who need full access
Office of State Epidemiology	OSE	The main goal of the Office of State Epidemiology is to prevent and respond to a variety of public health issues through disease surveillance, standardized data collection, meaningful

		interpretation, statewide standards, and centralized guidance to improve health outcomes for our communities.
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DOCUMENT VERSION HISTORY

Version	Date	Author(s)	Changes Made
0	04/9/26	Deloitte	Document created
0.1	05/5/26	Tiffany Smith	Reformatted, added missing content
1.0	5/12/26	Tiffany Smith	Additional content added, fixed dashboard section, changed images
1.0	6/12/26	Kelly Sonnemann	Final edits based on LHA feedback