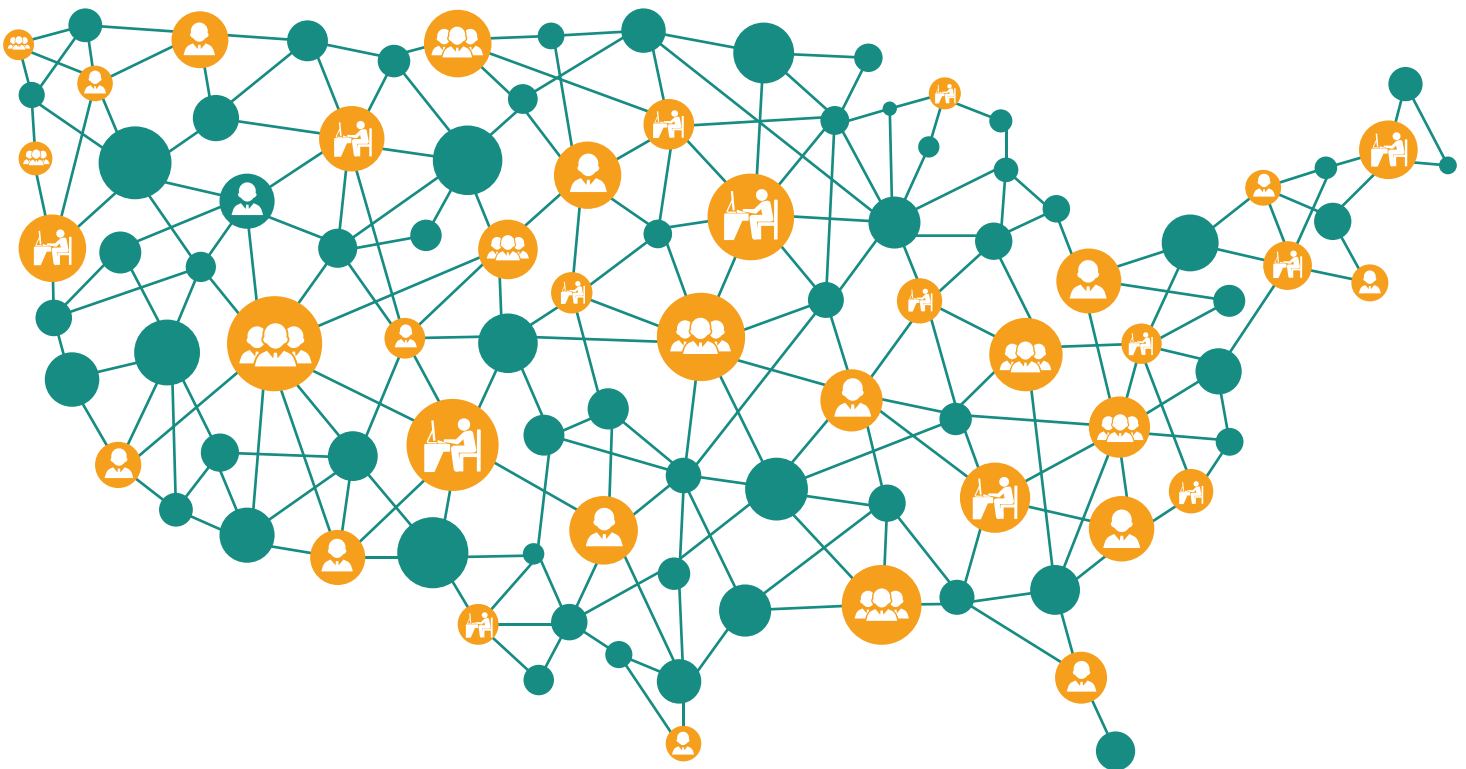


Sharing Data in Real Time to Solve Outbreaks Faster



SEDRIC: System for Enteric Disease Response, Investigation, and Coordination

Rapid, coordinated response to multistate outbreaks of foodborne and animal-related disease can prevent illness and save lives. Such responses require close collaboration, communication, and data sharing among local, state, and federal health and regulatory officials. Since 2011, the Centers for Disease Control and Prevention (CDC) has worked with a private sector partner to develop a commercial, off-the-shelf, web-based system to streamline and coordinate outbreak investigations.



The System for Enteric Disease Response, Investigation, and Coordination, or SEDRIC, lets disease detectives in many different locations work together faster and more effectively when responding to foodborne and animal-related outbreaks. The secure, web-based platform combines epidemiologic, laboratory, and traceback data in real time to make collaboration easier when investigating information from different sources. Detecting and solving outbreaks faster leads to fewer illnesses and deaths.

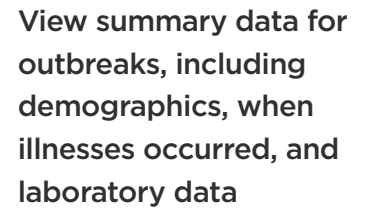


**U.S. Department of
Health and Human Services**
Centers for Disease
Control and Prevention

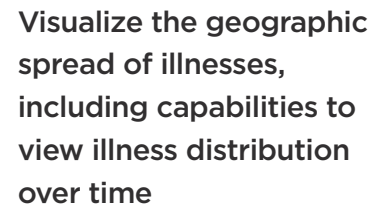
A graphic of four interlocking orange gears of different sizes, arranged in a cluster. The gears are stylized with a solid orange color and white centers. They are arranged in a way that they appear to be meshed together, with one large gear on the left, a medium gear at the bottom, and two smaller gears on the right.

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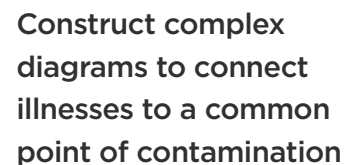
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Create and edit lists of information about each ill person in an outbreak, including relevant demographic, clinical, laboratory, and exposure data

How does SEDRIC support outbreak investigations?

SEDRIC is a web-based software system that can:



Integrate multiple surveillance data sources in real time.

- DNA fingerprints of bacteria from sick people and contaminated food or animals from CDC PulseNet
- Antibiotic resistance data from the National Antimicrobial Resistance Monitoring System



Visualize outbreak data rapidly in one place.

- Listing of ill people who are included in an outbreak investigation
- Epidemic (“epi”) curves showing when people became ill
- Maps showing where and in what sequence people became ill



Provide a secure platform for partner collaboration.

- Sharing documents such as questionnaires, restaurant inspections, and other records
- Sharing food or animal traceback investigation diagrams



Manage a repository of historic surveillance and outbreak data.

- Data on past outbreaks from the National Outbreak Reporting System
- Historical information on bacteria found in foods or animals, on farms, and in production environments

Who uses SEDRIC?

CDC's partners who investigate foodborne and animal-related disease outbreaks have access to SEDRIC. More than 450 people are using SEDRIC, with users in all 50 states and Puerto Rico.



CDC partners using SEDRIC include:



“In California, we’ve been using SEDRIC for several years. With all of the historic data available, SEDRIC answers a lot of questions for us as we start our investigations. How common is the strain in California? Is the strain found more often in certain parts of the state? Who is affected more often, children or adults, females or males? Has this strain been isolated from any foods or animals before? SEDRIC has been an invaluable tool for us. It doesn’t solve our investigations, but it often provides us with key clues.”

Jeff Higa, Epidemiologist

California Department of Public Health

Beyond enteric disease:

The SEDRIC platform is providing a model for data integration systems for other groups at CDC involved in outbreak response.

For more information, visit:

www.cdc.gov/foodsafety/outbreaks/investigating-outbreaks/sedric