

OBJECTIVES

For the classifier you evaluated in Activity 1, create and share surveillance products using BioSense ESSENCE on the BioSense Platform by completing the following tasks. By the end of this activity, each participant should be able to...

1. *utilize a shared data set for syndromic surveillance analysis;*
2. *create, save, and share timeseries dashboards,*
3. *create, save, and share geospatial dashboards, and*
4. *create, save, and share myAlerts in the BioSense ESSENCE environment.*

TASKS

Review the instructions. This activity is designed to create ESSENCE products that query the shared workshop dataset and are then shared with all team members. Be sure you understand what needs to be accomplished before proceeding.

1. Assign the following team roles.
 - a. *Operator* – responsible for projecting their desktop and running ESSENCE or other BioSense Platform application(s) for your team throughout the activity
 - b. *Recorder* – responsible for keeping notes on your team's discussions and help share the team's work with the other teams
 - c. *Reporter* – responsible for presenting your team's findings to the other teams at the end of the activity
 - d. *Time keeper* – responsible for ensuring that the team is aware of the activity's elapsed and remaining time
2. Confirm with each team member the data they are sharing for the workshop to help facilitate interpretation of results: e.g., facility location and/or patient location and level of granularity.
3. Define the question(s) you want to answer, and for what audience, with the surveillance products (e.g. analysis and visualizations) you'll make during this activity.

4. Apply the assigned classifier to the shared data set and describe the results, answering the following questions:
 - a. Stratify the results by geography, age group, gender, and race/ethnicity (if available). What segment of the population is most affected?
 - b. What additional data granularity or information do you need to further explain your surveillance and the population?
5. Create a time series and geospatial dashboard to describe the population health trends; share it with your team members through BioSense ESSENCE.
 - a. Describe any trends, clustering, alerts, or anomalies.
 - b. Are any known events from your community or surveillance notable?
6. Create a myAlert in BioSense ESSENCE based on your surveillance; share it with your team members.
 - a. What alert thresholds were chosen for the surveillance?
 - b. Identify any signals in the shared data that are *not* identified in individual data sets.
7. Discuss the interpretation of your analysis with the team and consider the following additional points:
 - a. Use the list of HIDTA counties to evaluate if there is a correlation between increased visits and HIDTA-designated counties.
 - b. Describe any data quality, including representativeness and completeness of the data, that affects your team's interpretation.
 - c. Describe any concerns arising from analyzing the shared data.
 - d. Develop at least three executive-level (state epi or higher) talking points that conclude the surveillance.

8. Prepare a 5-minute report-out to share your team's key findings with the other teams. Prepare the team reporter to display and explain your surveillance products.
 - a. What question(s), and for whom, is your product designed to answer?
 - b. What is your answer to the question(s) given the insights gained?
 - c. What could your audience do with the insights informed by your surveillance?
 - d. What were the major challenges identified that would prevent you from using the shared data or analysis?