

## Syndromic Surveillance (SYS)

### Coordinator:

John Prather, MBA  
 Kentucky Department for Public Health  
 Division of Epidemiology and Health Planning  
 (502) 564-4478 ext. 4264  
[john.prather@ky.gov](mailto:john.prather@ky.gov)

**National Website:** <https://www.cdc.gov/nssp/index.html>

### Why is it used?

- Large event surveillance.
- Population health surveillance.
- Chronic disease surveillance.
- Surveillance of health issues related to the environment.
- Opioid surveillance projects with KIPRC.

### What data is collected?

- Information about the patient including age, address and gender.
- Information about the event including date and time, facility name, chief complaints, triage notes and diagnosis codes and patient and event types.

### How is data collected?

- Data is collected using the personal health information number (PHIN) messaging guide for syndromic surveillance HL7 Version 2.5.1.
- The data is provided through a collaborative working partnership between KDPH, KHIE and the NSSP.
- KDPH also has access to this data utilizing ESSENCE.

### Data Strengths:

- Data and surrounding events are as real-time as possible.

### Data Limitations:

- Lack of data completeness across facilities.
- Data is de-identified, making it hard to cross reference data between applications.
- Sending inconsistencies with facilities, e.g., data feeds can drop off at any time.
- Hospital exit data can take three to six months before it is finalized and released.
- CDC ESSENCE environment is controlled by KHIE.

### How is the system evaluated?

- Evaluated daily utilizing data dashboards looking at facility connectivity and data completeness.



**Data Set Availability:**

- ESSENCE access is available on request and issued by the Kentucky Syndromic Surveillance Administrator, John Prather.

**Contributing Author:**

John Prather, MBA, Kentucky Department for Public Health