



- What is public health surveillance?

- It is the ongoing, systemic collection, analysis and interpretation of health-related data essential to planning, implementation and evaluation of public health practice, closely integrated with timely dissemination of these data to those responsible for prevention and control.

- What is the goal of public health surveillance?

- To provide information which can be used for health action by public health personnel, government leaders and the public to guide public health policy and programs.

- What are the uses of public health surveillance?

- Estimate the magnitude and scope of health problems.
- Measure trends and characterize the disease.
- Detect epidemics, health problems and changes in health behaviors.
- Assess effectiveness of programs and control measures.
- Develop hypotheses and stimulate research.

- What are the types of public health surveillance?

Passive Surveillance	Active Surveillance
<ul style="list-style-type: none"> • Diseases are reported by health care providers • Simple and inexpensive • Limited by incompleteness of reporting and variability of quality 	<ul style="list-style-type: none"> • Health agencies contact health providers seeking reports • Ensures more complete reporting of conditions • Used in conjunction with specific epidemiologic investigation

- What is the process of public health surveillance?

- **Data collection → data analysis → data interpretation → data dissemination → link to action.**
- **Keep in mind that before collecting data, you have to decide on the overarching goal of the system:**
 - ✓ What will you monitor?
 - ✓ Who will collect the data and how it will be collected?
 - ✓ Who is the target population.
 - ✓ Will the system be active or passive.
- **Data collection:**
 - ✓ What are the sources of data?
 - ❖ Reported diseases or syndromes.
 - ❖ Electronic health records (e.g. hospital discharge data).
 - ❖ Vital records (e.g. birth and death certificates).
 - ❖ Registries (e.g. cancer).
 - ❖ Surveys.
 - ✓ Internationally notifiable diseases (reporting to WHO is required for cases of):
 - ❖ Smallpox.
 - ❖ Polio (wild type).
 - ❖ Human influenza caused by any new subtype.
 - ❖ Severe Acute Respiratory Syndrome (SARS).
- **Data analysis:**
 - ✓ Who will analyze the data?
 - ✓ How often will they analyze the data?
 - ✓ What methodology will they use?



- **Data dissemination:**
 - ✓ How to distribute information to those who need to know?
 - ❖ Health agency newsletters, bulletins or alerts.
 - ❖ Surveillance summaries and reports.
 - ❖ Medical and epidemiologic journal articles.
 - ❖ Press releases and social media.
 - ✓ Data dissemination target audiences:
 - ❖ Public health practitioners.
 - ❖ Clinicians and other health care providers.
 - ❖ Policy and other decision makers.
 - ❖ Community organizations.
 - ❖ The general public.
- **Link to action (for example: after doing an influenza surveillance, what actions are you going to take to prevent it?):**
 - ✓ The foundation of flu prevention is an annual vaccination.
 - ✓ Make sure to wash your hands regularly and gargle every day.
 - ✓ If you feel even slightly unwell, do not forget to wear a mask.
 - ✓ Other preventive measures include getting adequate sleep and proper nutrition, and generally paying more attention to daily health during the flu season.