

Fold each printed sheet in half lengthwise. The left side of the document will list the term and the right side will list the definition. Tape or staple the open edges of your flashcards. Cut out your flashcards on the solid lines indicated and fold them on the dotted lines.

**Module 4**  
*Section A: Basics of Surveillance and Surveillance Design*

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**Term**  
Active surveillance

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Surveillance that involves trained individuals (such as IPs) actively looking for healthcare-associated infections using standardized definitions and protocols.

**Module 4**  
*Section A: Basics of Surveillance and Surveillance Design*

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**Term**  
Passive surveillance

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Surveillance that relies on others (e.g., physicians, nurses, or the microbiology laboratory) who are not trained on surveillance methods or primarily responsible for surveillance activities to report healthcare-associated infections.

**Module 4**  
*Section A: Basics of Surveillance and Surveillance Design*

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**Term**  
Surveillance

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A system for routine, ongoing, and systematic collection, analysis, interpretation, and dissemination of surveillance data to identify infections (i.e., HAI and community-acquired), infection risks, communicable disease outbreaks, and to maintain or improve resident health status.

**Module 4**  
*Section A: Basics of Surveillance and Surveillance Design*

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**Term**  
Surveillance plan

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The set of protocols and guidelines that will direct surveillance activities

**Module 4**

*Section B: Surveillance Methodologies and Purpose*

**Term**

Concurrent data collection

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Collecting and referencing of data in real time, with a focus on new information as it comes in.

**Module 4**

*Section B: Surveillance Methodologies and Purpose*

**Term**

Retrospective data collection

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Collating of data that has already been collected, with a focus on examining what has already happened.

**Module 4**

*Section B: Surveillance Methodologies and Purpose*

**Term**

Targeted surveillance

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Focuses on a narrow selection of infections and pathogens; also known as "priority-directed" surveillance.

**Module 4**

*Section B: Surveillance Methodologies and Purpose*

**Term**

Total surveillance

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Measures and tracks all infections at a facility, across its entire population of residents and staff; also known as "comprehensive" or "whole house" surveillance.

**Module 4**

*Section C: Collection and Compilation of Surveillance Data*

**Term**  
Categorical data

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Data split into mutually exclusive groups.

**Module 4**

*Section C: Collection and Compilation of Surveillance Data*

**Term**  
Continuous data

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Data that can be measured on a continuum or scale.

**Module 4**

*Section C: Collection and Compilation of Surveillance Data*

**Term**  
Demographic data

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Data that is socio-economic in nature (e.g., age, sex, race).

**Module 4**

*Section C: Collection and Compilation of Surveillance Data*

**Term**  
Discrete data

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Data representing whole numbers.

**Module 4**  
*Section C: Collection and Compilation of Surveillance Data*

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**Term**  
Event data

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Data related to high-volume, high-risk events within a facility (e.g., HAIs, immunization rates).

**Module 4**  
*Section C: Collection and Compilation of Surveillance Data*

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**Term**  
Process data

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Data related to facility protocols and practices (e.g., standard precautions, environmental cleaning).

**Module 4**  
*Section C: Collection and Compilation of Surveillance Data*

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**Term**  
Qualitative data

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Data representing qualities or characteristics.

**Module 4**  
*Section C: Collection and Compilation of Surveillance Data*

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**Term**  
Quantitative data

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Data representing counts or values on a numeric scale.

**Module 4**  
*Section C: Collection and Compilation of Surveillance Data*

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**Term**  
Time data

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Data bound by a unit of time (e.g., month, year).

**Module 4**  
*Section D: Outbreak Management*

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**Term**  
Case definition

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A set of uniformly applied criteria for determining whether a person should be identified as having a particular disease, injury, or other health condition; it usually specifies clinical, laboratory, and other diagnostic criteria.

**Module 4**  
*Section D: Outbreak Management*

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**Term**  
Control measures

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Protocols designed to interrupt the transmission of and reduce or eliminate the occurrence of communicable diseases and infections.

**Module 4**  
*Section D: Outbreak Management*

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**Term**  
Line list

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A document that contains information related to patient symptoms (in case there is the possibility that it is a pseudo-outbreak), medications, procedures, consults, patient locations, contact with HCP, and host of other factors that might predispose the patients to the infection under investigation.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
2 by 2 table

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A table with two outcome columns (e.g., disease and no disease) and two exposure rows (e.g., exposed and not exposed).

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Action plans

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Detail the steps necessary for reaching the goals and addressing the issues identified during surveillance.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Attack rate

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The proportion of persons at risk who become infected over an entire period of exposure or a measure of the risk or probability of becoming a case.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Bar graph

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Presents data as side-by-side bars for an easy comparison of magnitudes, frequency distributions, and time-series data.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Chart

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A form of visual data presentation used when the magnitudes of different events is important or when one wants to compare parts of the bigger picture.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Correlation

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Calculation of the direction and magnitude of a relationship between two variables.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Deviation

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The difference between an individual value in a data set and the mean value.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Dispersion

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The distribution of data around the mean.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Histogram

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A graphic of frequency distribution that looks much like a bar graph but in which each bar represents a different time interval.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Incidence proportion

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A measure of the number of new cases or events within the population at risk during the identified time period.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Incidence rate

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Represents the proportion of new cases over a particular period of time.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Level of significance

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The probability value arbitrarily chosen by the researcher as the desired level of probability at which one may feel secure in rejecting the null hypothesis; typically set at 0.05 or 0.01.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Line chart

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Chart used to display the same data over time, for example, the rate of ICU CLABSIs over a year; each time point is equidistant from the previous and next time points, with time running along the x axis.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Loeb criteria

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Guide antimicrobial treatment and prescribing decisions for specific patients.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
McGeer criteria

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Standardized definitions that address clinically relevant infections found in LTC settings

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Mean

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The sum of all values divided by the total number of values.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Measures of central tendency

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Describe how observations cluster around a middle value and locate only the center of a distribution measure; include mean, median, and mode.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Median

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The midpoint of a set of observations

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Mode

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The observation that occurs most frequently in a data set.

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*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Mortality rate

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A measure of the frequency of death in a defined population during a specified time (usually a year).

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

National Healthcare Safety Network (NHSN) criteria

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Guide decision-making based on certain conditions being met or signs and symptoms being in evidence.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Negative predictive value (NPV)

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A measure of the proportion of persons without a disease who test negative.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Normal distribution

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A bell-shaped curve on a graph in which the distribution (spread) of the values is even on both sides of the mean (both halves are equal) and the mean, median, and mode are all equal.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Odds ratio (OR)

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The probability of having a particular risk factor if a condition or disease is present divided by the probability of having the risk factor if the disease or condition is not present.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Period prevalence

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Prevalence during a span of time (e.g., over the course of a given month).

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Pie chart

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Shows the proportion that a group represents within the whole population.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Point prevalence

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Prevalence at a specific point in time (e.g., on a given day).

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Population

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The set of all observations of interest to the investigator (the universe).

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Positive predictive value (PPV)

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A measure of the proportion of persons with a positive test who have a disease.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Power

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The ability of a test to detect a specified difference.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Proportion

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A specific kind of ratio that compares a part to the whole.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Range

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The difference between the smallest and largest values in a data set.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Rate

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A specific kind of ratio that includes a unit of time, and provides information about how fast events are occurring.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Ratio

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The comparison of any two quantitative values.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Relative risk (RR)

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The probability of developing a disease if the risk factor is present divided by the probability of developing the disease if the risk factor is not present.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Reliability

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The ability of the indicator to accurately and consistently identify the events it was designed to identify across multiple healthcare settings. (The Joint Commission)

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Sample

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A group of observations selected from a population and chosen to represent the population as a whole.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Sampling distribution

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The distribution of samples taken.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Sensitivity

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A measure of the probability that a test correctly identifies as positive persons who have a disease.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Specificity

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A measure of the probability that a test correctly identifies persons without a disease as negative.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Standard deviation

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A measure that reflects the distribution of values around the mean; it is the average of all deviations in a data set and indicates how spread out the data are around the mean.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Surveillance criteria

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Specific conditions that qualify as infections for the purpose of surveillance data collection; they are also used in the calculation and reporting of infection rates.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Table

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A data set presented in rows and columns.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**

Type I error

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Occurs when the null hypothesis is rejected when it is actually true or when significance is attributed when there actually is none.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Type II error

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Occurs when the null hypothesis is accepted when it is actually false or when significance is not attributed when it actually exists.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
Variance

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The deviation around the mean of a distribution.

**Module 4**

*Section E: Data Management, Analysis, Interpretation, and Reporting*

**Term**  
p value

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The probability of observing a sample in which the test statistic is greater than or equal to the test statistic for the sample that was actually observed.