

Module 2
Section A: Epidemiology

Term
Agent

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Module 2
Section A: Epidemiology

Term
Airborne spread

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Module 2
Section A: Epidemiology

Term
Carrier

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Module 2
Section A: Epidemiology

Term
Causative agent

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Module 2
Section A: Epidemiology

Term
Chronic carriers

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Module 2
Section A: Epidemiology

Term
Cluster

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Module 2
Section A: Epidemiology

Term
Community-acquired infection

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Module 2
Section A: Epidemiology

Term
Convalescent carriers

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An efficient mode of transmission that may involve varying distances between the source and the host.

A component of the epidemiological triangle; may be a bacteria, virus, fungus, protozoan, helminth, or prion.

A biological, physical, or chemical entity capable of causing disease.

A person who shows no recognizable signs or symptoms of a disease but is capable of spreading the disease to others.

A group of persons with a given disease occurring in the same space and time but not epidemiologically linked. If an epidemiological link is made, may become an outbreak.

Persons who may continue to have organisms present for very long periods of time.

Those who have recovered from a disease but still have organisms present that can be transmitted.

An infection that is present on admission to a healthcare facility and has no association with a recent hospitalization.

Module 2
Section A: Epidemiology

Term
Direct contact

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Module 2
Section A: Epidemiology

Term
Droplet transmission

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Module 2
Section A: Epidemiology

Term
Endemic

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Module 2
Section A: Epidemiology

Term
Environment

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Module 2
Section A: Epidemiology

Term
Epidemic

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Module 2
Section A: Epidemiology

Term
Epidemiology

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Module 2
Section A: Epidemiology

Term
External vector-borne transmission

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Module 2
Section A: Epidemiology

Term
Fomite

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A mode of transmission that occurs when the infectious agent spends only a brief period passing through the air and can be inhaled at that time.

A mode of transmission that features person-to-person spread with actual physical contact occurring between a source and a susceptible host.

A component of the epidemiological triangle; consists of all external factors associated with the host.

The usual incidence of a given disease within a geographical area during a specified time period.

The study of the distribution and determinants of disease and other conditions in human populations.

An excess over the expected incidence of disease within a given geographical area during a specified time period.

An inanimate object on which organisms may exist for some period of time, for example, a contaminated piece of medical equipment.

The mechanical transfer of microorganisms by a vector, such as a fly on food.

Module 2

Section A: Epidemiology

Term

Healthcare-associated infection (HAI)

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Module 2

Section A: Epidemiology

Term

Herd immunity

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Module 2

Section A: Epidemiology

Term

Host

APIC CIC Learning System

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Module 2

Section A: Epidemiology

Term

Incidence

APIC CIC Learning System

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Module 2

Section A: Epidemiology

Term

Indirect contact

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Module 2

Section A: Epidemiology

Term

Infection—apparent, clinical, or symptomatic

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Module 2

Section A: Epidemiology

Term

Infection—unapparent, asymptomatic, or subclinical

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Module 2

Section A: Epidemiology

Term

Intermittent carriers

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The resistance of a group to invasion and spread of an infectious agent, based on the immunity of a high proportion of individual members of the group.

An infection that is not present at the time of admission to a healthcare facility but is temporally associated with admission to or a procedure performed in the facility; may also be related to a recent hospitalization.

The number of new cases of a given disease in a given time period.

A component of the epidemiological triangle; refers to a human or other animal.

An infection that results in clinical signs and symptoms of a recognizable disease process.

A mode of transmission that occurs when a patient comes in contact with a contaminated intermediate object or fomite.

Persons who periodically shed organisms.

An infection that runs a course similar to that of clinical disease but below the threshold of discernible clinical symptoms.

Module 2

Section A: Epidemiology

Term

Internal vector-borne transmission

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Module 2

Section A: Epidemiology

Term

Mode of transmission

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Module 2

Section A: Epidemiology

Term

Outbreak

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Module 2

Section A: Epidemiology

Term

Pandemic

APIC CIC Learning System

© 2025

Module 2

Section A: Epidemiology

Term

Portal of entry

APIC CIC Learning System

© 2025

Module 2

Section A: Epidemiology

Term

Portal of exit

APIC CIC Learning System

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Module 2

Section A: Epidemiology

Term

Prevalence

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Module 2

Section A: Epidemiology

Term

Reservoir

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The method by which an organism reaches a susceptible host.

Involves the transfer of infectious material directly from the vector into the new host, such as occurs with mosquitoes and malaria.

An epidemic spread over a wide geographical area, across countries or continents.

Synonymous with epidemic but often preferred when dealing with the public; in local settings, a group of people with the same disease who are epidemiologically linked.

In the chain of infection, the path by which an infectious agent leaves the reservoir.

In the chain of infection, the means by which an infectious agent enters a susceptible host.

A place in which an infectious agent can survive but may or may not multiply, for example, *Pseudomonas* in nebulizers and hepatitis B on the surface of a hemodialysis machine.

The number of existent cases of a given disease at a given time.

Module 2
Section A: Epidemiology

Term
Risk

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Module 2
Section A: Epidemiology

Term
Risk factor

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Module 2
Section A: Epidemiology

Term
Sustained carriers

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Module 2
Section A: Epidemiology

Term
Vector

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Module 2
Section A: Epidemiology

Term
Zoonosis

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Module 2
Section B: Surveillance Design

Term
Action plans

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Module 2
Section B: Surveillance Design

Term
Active surveillance

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Module 2
Section B: Surveillance Design

Term
Outcome measure

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A characteristic, behavior, or experience that increases the probability of developing a negative health status (e.g., disease, infection).

The probability or likelihood of an event occurring.

In biology, a biting insect, tick, or other organism responsible for transmitting a disease, pathogen, or parasite between persons, animals, or plants.

Persons who may continue to have organisms present for very long periods of time.

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

A disease transmitted from animals to humans (e.g., cat scratch fever, psittacosis).

A measure that indicates the result of the performance (or nonperformance) of functions or processes.

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

<p>Module 2</p> <p><i>Section B: Surveillance Design</i></p>
<p>Term</p> <p>Passive surveillance</p>
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<p>Module 2</p> <p><i>Section B: Surveillance Design</i></p>
<p>Term</p> <p>Process measure</p>
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<p>Module 2</p> <p><i>Section B: Surveillance Design</i></p>
<p>Term</p> <p>Surveillance</p>
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<p>Module 2</p> <p><i>Section B: Surveillance Design</i></p>
<p>Term</p> <p>Surveillance plan</p>
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<p>Module 2</p> <p><i>Section C: Surveillance Methodologies</i></p>
<p>Term</p> <p>Syndromic surveillance</p>
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<p>Module 2</p> <p><i>Section C: Surveillance Methodologies</i></p>
<p>Term</p> <p>Targeted surveillance</p>
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<p>Module 2</p> <p><i>Section C: Surveillance Methodologies</i></p>
<p>Term</p> <p>Total surveillance</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Concurrent data collection</p>
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A measure that focuses on a process or the steps in a process that lead to a specific outcome.

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.

The set of protocols and guidelines that will direct surveillance activities

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.

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

The collection and analysis of pre-diagnostic and nonclinical disease indicators using preexisting electronic data.

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

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

<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Demographic data</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Event data</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Process data</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Retrospective data collection</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Surveillance criteria</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Time data</p>
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<p>Module 2</p> <p><i>Section D: Data Collection and Management</i></p>
<p>Term</p> <p>Validity</p>
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<p>Module 2</p> <p><i>Section E: Statistics</i></p>
<p>Term</p> <p>Association</p>
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Data related to high-volume, high-risk events within a facility (e.g., HAIs, immunization rates).

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

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

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

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

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.

The relationship between a risk factor and an outcome, such as a disease.

The extent to which a measure accurately reflects the concept or construct that it is intended to measure.
(The Joint Commission)

Module 2
Section E: Statistics

Term
Categorical data

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Module 2
Section E: Statistics

Term
Continuous data

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Module 2
Section E: Statistics

Term
Deviation

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Module 2
Section E: Statistics

Term
Discrete data

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Module 2
Section E: Statistics

Term
Dispersion

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Module 2
Section E: Statistics

Term
Mean

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Module 2
Section E: Statistics

Term
Measures of central tendency

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Module 2
Section E: Statistics

Term
Median

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Data that can be measured on a continuum or scale.

Data split into mutually exclusive groups.

Data representing whole numbers.

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

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

The distribution of data around the mean.

The midpoint of a set of observations

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

Module 2
Section E: Statistics

Term
Mode

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Module 2
Section E: Statistics

Term
Odds ratio (OR)

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Module 2
Section E: Statistics

Term
Qualitative data

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Module 2
Section E: Statistics

Term
Quantitative data

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Module 2
Section E: Statistics

Term
Range

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Module 2
Section E: Statistics

Term
Relative risk (RR)

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Module 2
Section E: Statistics

Term
Standard deviation

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Module 2
Section E: Statistics

Term
Variance

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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.

The observation that occurs most frequently in a data set.

Data representing counts or values on a numeric scale.

Data representing qualities or characteristics.

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.

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

The deviation around the mean of a distribution.

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 2
Section F: Descriptive Statistics

Term
Attack rate

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Module 2
Section F: Descriptive Statistics

Term
Bias

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Module 2
Section F: Descriptive Statistics

Term
Confounder

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Module 2
Section F: Descriptive Statistics

Term
Correlation

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Module 2
Section F: Descriptive Statistics

Term
Incidence proportion

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Module 2
Section F: Descriptive Statistics

Term
Incidence rate

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Module 2
Section F: Descriptive Statistics

Term
Interval scale

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Module 2
Section F: Descriptive Statistics

Term
Mortality rate

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A systematic error in study design, subject recruitment, data collection, or analysis that results in a mistaken estimate of the true population parameter. (NIH)

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.

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

A variable that is an independent cause or predictor of the exposure and the outcome and is not on the path between the exposure and the outcome; also called a confounding variable.

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

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

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

A measurement in descriptive statistics in which the exact distance between any two ordinal scale observations is known and assumed to be equal but attributes measured have no real, rational zero point.

Module 2
Section F: Descriptive Statistics

Term
Nominal scale

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Module 2
Section F: Descriptive Statistics

Term
Ordinal scale

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Module 2
Section F: Descriptive Statistics

Term
Period prevalence

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Module 2
Section F: Descriptive Statistics

Term
Point prevalence

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Module 2
Section F: Descriptive Statistics

Term
Proportion

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Module 2
Section F: Descriptive Statistics

Term
Rate

APIC CIC Learning System

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Module 2
Section F: Descriptive Statistics

Term
Ratio

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Module 2
Section F: Descriptive Statistics

Term
Ratio scale

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A measurement in descriptive statistics that applies ranking to categorical data on a relative scale so that each category is distinct and stands in some definite relationship to each of the other categories but does not indicate how much greater each level is than another.

The crudest level of measurement in descriptive statistics. Creates categorical data in which no order is implied by the classifications. Values cannot be measured mathematically (e.g., cannot be averaged), but frequency or percentage can be applied.

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

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

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

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

The highest level of measurement in descriptive statistics; creates interval scale observations that have an absolute, real zero point, which allows for higher levels of statistical analysis.

The comparison of any two quantitative values.

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Section F: Descriptive Statistics

Term
Regression

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Module 2
Section F: Descriptive Statistics

Term
Standardization

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Module 2
Section F: Descriptive Statistics

Term
Stratification

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Module 2
Section G: Inferential Statistics

Term
2 by 2 table

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Module 2
Section G: Inferential Statistics

Term
Deviation

APIC CIC Learning System

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Module 2
Section G: Inferential Statistics

Term
Dispersion

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Module 2
Section G: Inferential Statistics

Term
Level of significance

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Module 2
Section G: Inferential Statistics

Term
Mean

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Used when one needs to compare the event rates of different groups, for example, if an IP wants to compare catheter-associated urinary tract infection rates for two facilities.

A way to explain the relationship between a dependent variable (y) and one or more explanatory (or independent) variables (x).

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

The process by which the population in a dataset is separated into distinct categories.

The distribution of data around the mean.

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

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

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 2
Section G: Inferential Statistics

Term
Measures of central tendency

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Module 2
Section G: Inferential Statistics

Term
Median

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Module 2
Section G: Inferential Statistics

Term
Mode

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Module 2
Section G: Inferential Statistics

Term
Negative predictive value (NPV)

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Module 2
Section G: Inferential Statistics

Term
Normal distribution

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Module 2
Section G: Inferential Statistics

Term
Population

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Module 2
Section G: Inferential Statistics

Term
Positive predictive value (PPV)

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Module 2
Section G: Inferential Statistics

Term
Power

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The midpoint of a set of observations

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

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

The observation that occurs most frequently in a data set.

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

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.

The ability of a test to detect a specified difference.

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

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Section G: Inferential Statistics

Term
Range

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Module 2
Section G: Inferential Statistics

Term
Rejection region

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Module 2
Section G: Inferential Statistics

Term
Reliability

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Module 2
Section G: Inferential Statistics

Term
Sample

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Module 2
Section G: Inferential Statistics

Term
Sampling distribution

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Section G: Inferential Statistics

Term
Sensitivity

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Module 2
Section G: Inferential Statistics

Term
Specificity

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Module 2
Section G: Inferential Statistics

Term
Standard deviation

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The cutoff point for accepting or rejecting the null hypothesis. In a one-tailed test, this occupies just one end of the distribution (bell curve), but, in a two-tailed test, it takes up both ends of the distribution.

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

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

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

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

The distribution of samples taken.

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.

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

Module 2
Section G: Inferential Statistics

Term
Type I error

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Module 2
Section G: Inferential Statistics

Term
Type II error

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Module 2
Section G: Inferential Statistics

Term
Variance

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Module 2
Section G: Inferential Statistics

Term
p value

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Module 2
Section H: Presenting Surveillance Activity Results

Term
Area map

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Module 2
Section H: Presenting Surveillance Activity Results

Term
Bar graph

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Module 2
Section H: Presenting Surveillance Activity Results

Term
Chart

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Module 2
Section H: Presenting Surveillance Activity Results

Term
Histogram

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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.

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

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.

The deviation around the mean of a distribution.

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

Map that uses different shades of chosen colors to indicate different rates of infection (or other disease/health condition), with the darker shades indicating higher rates or an increasing disease burden.

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

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 2

Section H: Presenting Surveillance Activity Results

Term
Line chart

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Module 2

Section H: Presenting Surveillance Activity Results

Term
Pie chart

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Module 2

Section H: Presenting Surveillance Activity Results

Term
Spot map

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Module 2

Section H: Presenting Surveillance Activity Results

Term
Statistical process control (SPC)

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Module 2

Section H: Presenting Surveillance Activity Results

Term
Table

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Module 2

Section I: Emergency Preparedness

Term
All-hazards approach

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Module 2

Section I: Emergency Preparedness

Term
Bioterrorism attack

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Module 2

Section I: Emergency Preparedness

Term
Incident Command System (ICS)

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

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.

A set of methods for improving systems, processes, and outcomes; the primary goal is to recognize and understand common and special cause variations that affect a process.

A tool for illustrating the geographic distribution of cases; uses dots or other symbols to show where each case-patient lives or was exposed.

An integrated approach to emergency preparedness planning that focuses on capacities and capabilities that are critical to preparedness for a full spectrum of emergencies or disasters; the approach is specific to the location of the provider or supplier and considers the particular types of hazards most likely to occur in their areas. (Federal Register)

A data set presented in rows and columns.

A standardized management tool for meeting the demands of small or large emergency or nonemergency situations. (FEMA)

The deliberate release of viruses, bacteria, or other germs (agents) used to cause illness or death in people, animals, or plants. (CDC)

Module 2

Section J: Outbreak Investigations

Term

Case definition

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Module 2

Section J: Outbreak Investigations

Term

Control measures

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Module 2

Section J: Outbreak Investigations

Term

Epidemic curve

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Module 2

Section J: Outbreak Investigations

Term

Line list

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

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.

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.

A graph in which the cases of a disease that occur during an epidemic (outbreak) are plotted according to the time of onset of illness.