Section C: Surveillance Methodologies

Term

Syndromic surveillance

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Module 2

Section C: Surveillance Methodologies

Term

Targeted surveillance

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Section C: Surveillance Methodologies

Term

Total surveillance

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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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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.
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.	Measures and tracks all infections at a facility, across its entire population of residents and staff; also known as "comprehensive" or "whole house" surveillance.
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.	A systematic error in study design, subject recruitment, data collection, or analysis that results in a mistaken estimate of the true population parameter. (NIH)
A measure of the number of new cases or events within the population at risk during the identified time period.	Calculation of the direction and magnitude of a relationship between two variables.

	Module 2 Section F: Descriptive Statistics	
	Term Interval scale	
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	Module 2 Section F: Descriptive Statistics	
	Term Nominal scale	
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	Module 2 Section F: Descriptive Statistics	
	Term Period prevalence	
© 2025	APIC a-IPC Learning System	© 2025
	Module 2 Section F: Descriptive Statistics	
	Term Proportion	
	© 2025	Section F: Descriptive Statistics Term Interval scale Module 2 Section F: Descriptive Statistics Term Nominal scale APIC a-IPC Learning System Module 2 Section F: Descriptive Statistics Term Period prevalence APIC a-IPC Learning System Module 2 Section F: Descriptive Statistics Term Period prevalence APIC a-IPC Learning System Module 2 Section F: Descriptive Statistics

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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.	Represents the proportion of new cases over a particular period of time.
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.	A measure of the frequency of death in a defined population during a specified time (usually a year).
Prevalence during a span of time (e.g., over the course of a given month).	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.
A specific kind of ratio that compares a part to the whole.	Prevalence at a specific point in time (e.g., on a given day).

Module 2 Section F: Descriptive Statistics		Module 2 Section F: Descriptive Statistics	
Term Rate		Term Ratio	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section F: Descriptive Statistics		Module 2 Section F: Descriptive Statistics	
Term Ratio scale		Term Regression	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section F: Descriptive Statistics		Module 2 Section F: Descriptive Statistics	
Term Standardization		Term Stratification	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term 2 by 2 table		Term Deviation	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025

The comparison of any two quantitative values.	A specific kind of ratio that includes a unit of time, and provides information about how fast events are occurring.
A way to explain the relationship between a dependent variable (y) and one or more explanatory (or independent) variables (x).	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 process by which the population in a dataset is separated into distinct categories.	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.
The difference between an individual value in a data set and the mean value.	A table with two outcome columns (e.g., disease and no disease) and two exposure rows (e.g., exposed and not exposed).

Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Dispersion		Term Level of significance	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Mean		Term Measures of central tendency	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Median		Term Mode	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Negative predictive value (NPV)		Term Population	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025

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.	The distribution of data around the mean.
Describe how observations cluster around a middle value and locate only the center of a distribution measure; include mean, median, and mode.	The sum of all values divided by the total number of values.
The observation that occurs most frequently in a data set.	The midpoint of a set of observations
The set of all observations of interest to the investigator (the universe).	A measure of the proportion of persons without a disease who test negative.

Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Positive predictive value (PPV)		Term Power	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Range		Term Reliability	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Sample		Term Sensitivity	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Specificity		Term Standard deviation	
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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.
The ability of the indicator to accurately and consistently identify the events it was designed to identify across multiple healthcare settings. (The Joint Commission)	The difference between the smallest and largest values in a data set.
A measure of the probability that a test correctly identifies as positive persons who have a disease.	A group of observations selected from a population and chosen to represent the population as a whole.
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		Module 2 Section G: Inferential Statistics	
Term Type I error		Term Type II error	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section G: Inferential Statistics		Module 2 Section G: Inferential Statistics	
Term Variance		Term p value	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Agent		Term Airborne spread	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Carrier		Term Causative agent	
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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.
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.

	1	
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology
Term Chronic carriers		Term Cluster
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Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology
Term Community-acquired infection		Term Convalescent carriers
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System © 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology
Term Direct contact		Term Droplet transmission
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System © 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology
Term Endemic		Term Environment
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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.
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.

		-		
Module 2 Section A: Epidemiology			Module 2 Section A: Epidemiology	
Term Epidemic			Term Epidemiology	
APIC a-IPC Learning System	© 2025		APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology			Module 2 Section A: Epidemiology	
Term External vector-borne transmission	1		Term Fomite	
APIC a-IPC Learning System	© 2025		APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology			Module 2 Section A: Epidemiology	
Term Healthcare-associated infection (HA	d)		Term Herd immunity	
APIC a-IPC Learning System	© 2025		APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology			Module 2 Section A: Epidemiology	
Term Host			Term Incidence	
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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.
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.

Module 2 Module 2 Section A: Epidemiology Section A: Epidemiology **Term Term** Indirect contact Infection—apparent, clinical, or symptomatic © 2025 APIC a-IPC Learning System © 2025 APIC a-IPC Learning System Module 2 Module 2 Section A: Epidemiology Section A: Epidemiology Term **Term** Infection—unapparent, asymptomatic, or Intermittent carriers subclinical APIC a-IPC Learning System © 2025 APIC a-IPC Learning System © 2025 Module 2 Module 2 Section A: Epidemiology Section A: Epidemiology **Term Term** Internal vector-borne transmission Mode of transmission APIC a-IPC Learning System © 2025 APIC a-IPC Learning System © 2025 Module 2 Module 2 Section A: Epidemiology Section A: Epidemiology **Term Term**

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Outbreak

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Pandemic

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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.
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.

Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Portal of entry		Term Portal of exit	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Prevalence		Term Reservoir	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Risk		Term Risk factor	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section A: Epidemiology		Module 2 Section A: Epidemiology	
Term Sustained carriers		Term Vector	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025

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.
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.

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Module 2 Section A: Epidemiology			Module 2 Section B: Surveillance Design	
Term Zoonosis			Term Action plans	
APIC a-IPC Learning System	© 2025	A	APIC a-IPC Learning System	© 2025
Module 2 Section B: Surveillance Design			Module 2 Section B: Surveillance Design	
Term Active surveillance			Term Outcome measure	
APIC a-IPC Learning System	© 2025	A	APIC a-IPC Learning System	© 2025
Module 2 Section B: Surveillance Design			Module 2 Section B: Surveillance Design	
Term Passive surveillance			Term Process measure	
APIC a-IPC Learning System	© 2025	A	APIC a-IPC Learning System	© 2025
Module 2 Section B: Surveillance Design			Module 2 Section B: Surveillance Design	
Term Surveillance			Term Surveillance plan	
APIC a-IPC Learning System	© 2025	A	APIC a-IPC Learning System	© 2025

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.
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.

Section D: Data Collection and Management

Term

Concurrent data collection

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Term

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Section D: Data Collection and Management

Demographic data

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Module 2

Section D: Data Collection and Management

Term

Event data

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Section D: Data Collection and Management

Term

Process data

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Section D: Data Collection and Management

Term

Retrospective data collection

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Section D: Data Collection and Management

Term

Surveillance criteria

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Section D: Data Collection and Management

Term

Time data

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Module 2

Section D: Data Collection and Management

Term

Validity

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Data that is socio-economic in nature (e.g., age, sex, race).	Collecting and referencing of data in real time, with a focus on new information as it comes in.
Data related to facility protocols and practices (e.g., standard precautions, environmental cleaning).	Data related to high-volume, high-risk events within a facility (e.g., HAIs, immunization rates).
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.	Collating of data that has already been collected, with a focus on examining what has already happened.
The extent to which a measure accurately reflects the concept or construct that it is intended to measure. (The Joint Commission)	Data bound by a unit of time (e.g., month, year).

Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Association		Term Categorical data	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Continuous data		Term Deviation	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Discrete data		Term Dispersion	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Mean		Term Measures of central tendency	
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Data split into mutually exclusive groups.	The relationship between a risk factor and an outcome, such as a disease.
The difference between an individual value in a data set and the mean value.	Data that can be measured on a continuum or scale.
The distribution of data around the mean.	Data representing whole numbers.
Describe how observations cluster around a middle value and locate only the center of a distribution measure; include mean, median, and mode.	The sum of all values divided by the total number of values.

Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Median		Term Mode	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Odds ratio (OR)		Term Qualitative data	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Quantitative data		Term Range	
APIC a-IPC Learning System	© 2025	APIC a-IPC Learning System	© 2025
Module 2 Section E: Statistics		Module 2 Section E: Statistics	
Term Relative risk (RR)		Term Standard deviation	
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The observation that occurs most frequently in a data set.	The midpoint of a set of observations
Data representing qualities or characteristics.	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 difference between the smallest and largest values in a data set.	Data representing counts or values on a numeric scale.
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.	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.

Section E: Statistics

Term

Variance

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Module 2

Section H: Presenting Surveillance Activity
Results

Term

Area map

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Section H: Presenting Surveillance Activity
Results

Term

Bar graph

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Section H: Presenting Surveillance Activity
Results

Term

Chart

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Section H: Presenting Surveillance Activity
Results

Term

Histogram

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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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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.	The deviation around the mean of a distribution.
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.	Presents data as side-by-side bars for an easy comparison of magnitudes, frequency distributions, and time-series data.
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 graphic of frequency distribution that looks much like a bar graph but in which each bar represents a different time interval.
A tool for illustrating the geographic distribution of cases; uses dots or other symbols to show where each case-patient lives or was exposed.	Shows the proportion that a group represents within the whole population.

Section H: Presenting Surveillance Activity
Results

Term

Statistical process control (SPC)

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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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Section I: Emergency Preparedness

Term

Bioterrorism attack

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Section I: Emergency Preparedness

Term

Incident Command System (ICS)

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Section J: Outbreak Investigations

Term

Case definition

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Section J: Outbreak Investigations

Term

Control measures

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Section J: Outbreak Investigations

Term

Epidemic curve

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A data set presented in rows and columns.	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.
The deliberate release of viruses, bacteria, or other germs (agents) used to cause illness or death in people, animals, or plants. (CDC)	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 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 standardized management tool for meeting the demands of small or large emergency or nonemergency situations. (FEMA)
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.	Protocols designed to interrupt the transmission of and reduce or eliminate the occurrence of communicable diseases and infections.

Section J: Outbreak Investigations

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.