

DISEASE DETECTIVES PRACTICE TEST

Section	Score
Definitions	/14
Causative Agent	/10
Epidemic Curves	/9
Incubation Period	/6
Types of Studies	/8
Attack Rate and Relative Risk	/4
Hill's Criteria for Causation	/10
10 Steps of an outbreak	/9
Mumps	/8
TOTAL	/78

Directions: Match the word in the left column with the best definition/description in the right hand column. Some definitions/descriptions will not be used. 2 Points Each

1. Prevalence Rate	A. lists the clinical criteria by which public health professionals determine whether a person's illness is included as a case in an outbreak investigation
2. Relative Risk	B. looks backwards and examines exposures to suspected risk or protection factors in relation to an outcome that is established at the start of the study
3. Risk Factor	C. testable statement of a putative relationship between an exposure and disease
4. Case Control Study	D. the continuous, systematic collection, analysis and interpretation of health-related data needed for the planning, implementation, and evaluation of public health practice
5. Retrospective Study	E. the proportion of persons in a population who have a particular disease or attribute at a specified point in time or over a specified period of time
6. Case Definition	F. a type of observational study in which two existing groups differing in outcome are identified and compared on the basis of some supposed causal attribute
7. Hypothesis	G. ratio of the probability of an outcome in an exposed group to the probability of an outcome in an unexposed group
	I. any attribute, characteristic or exposure of an individual that increases the likelihood of developing a disease or injury

Fill-in-the-blank Beside each disease indicate the causative agent (virus, bacterium, protozoan, none of the above) 1 Point Each

8. Cholera _____

9. Ebola _____

10. Aspergillosis _____

11. Giardiasis _____

12. West Nile _____

13. Herpes _____

14. Dermatophytosis _____

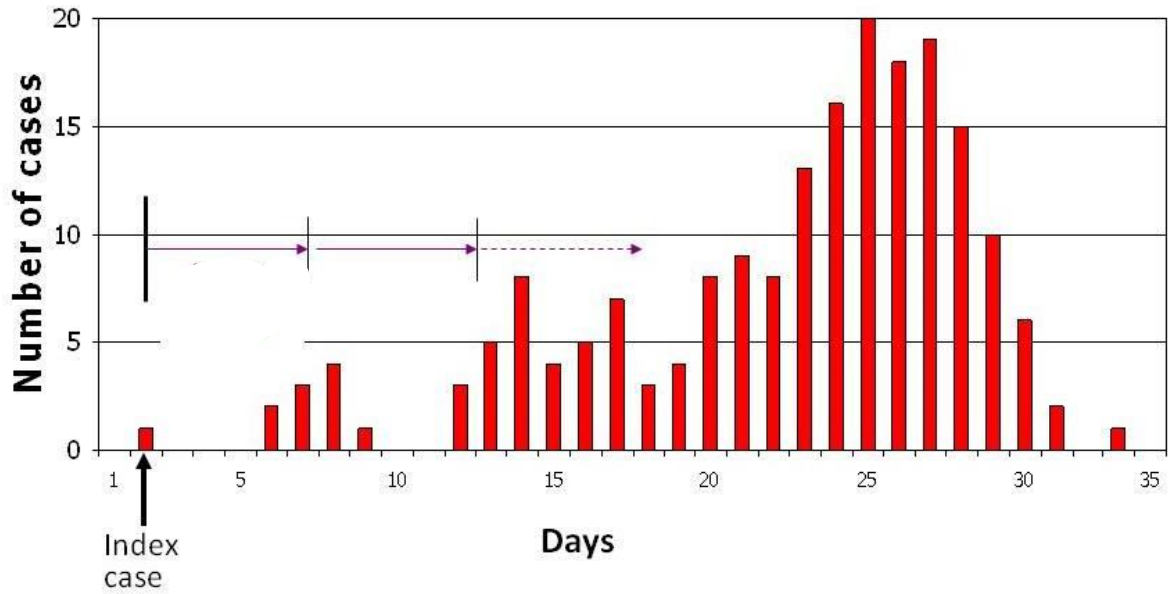
15. Trypanosomiasis _____

16. Rickets _____

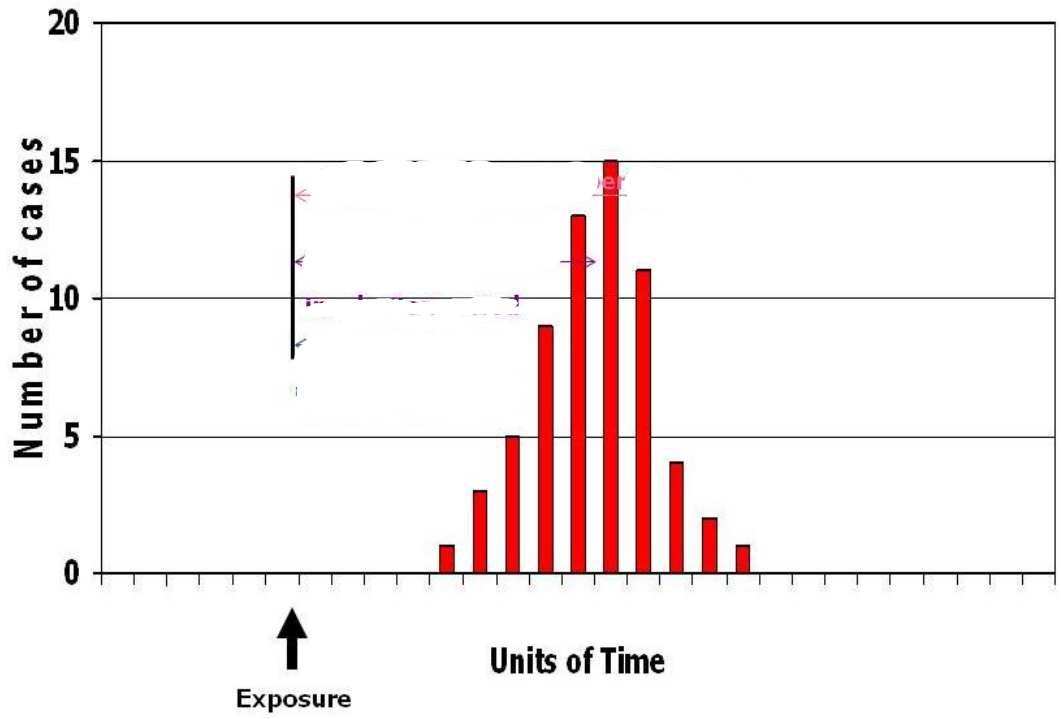
17. Chagas Disease _____

Please identify and label the type epidemic curves below (3 points)

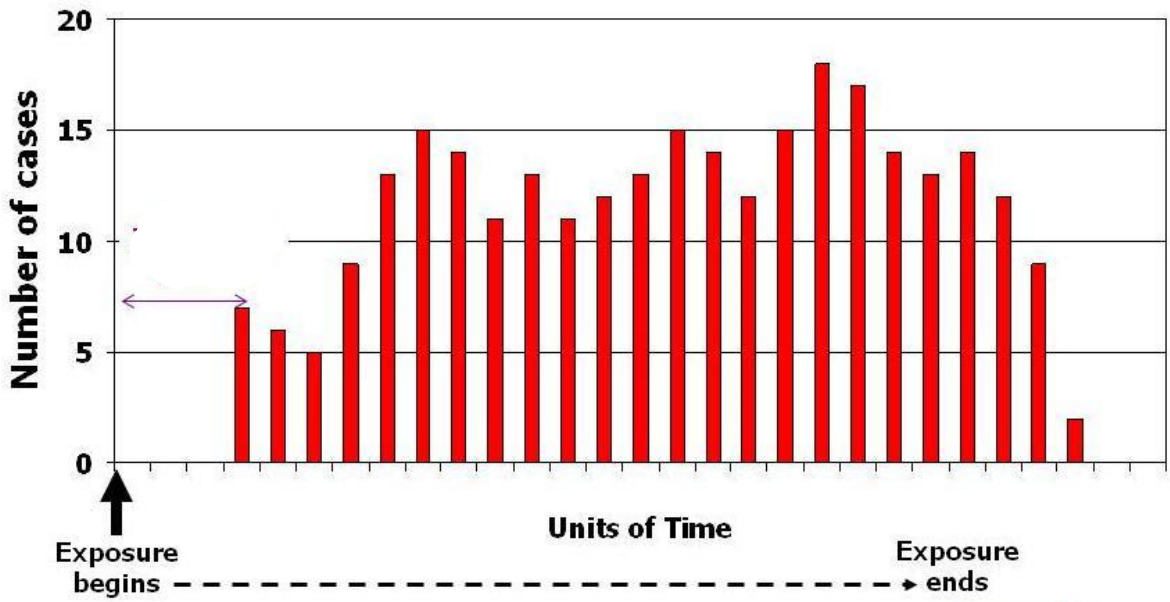
18. _____



19. _____

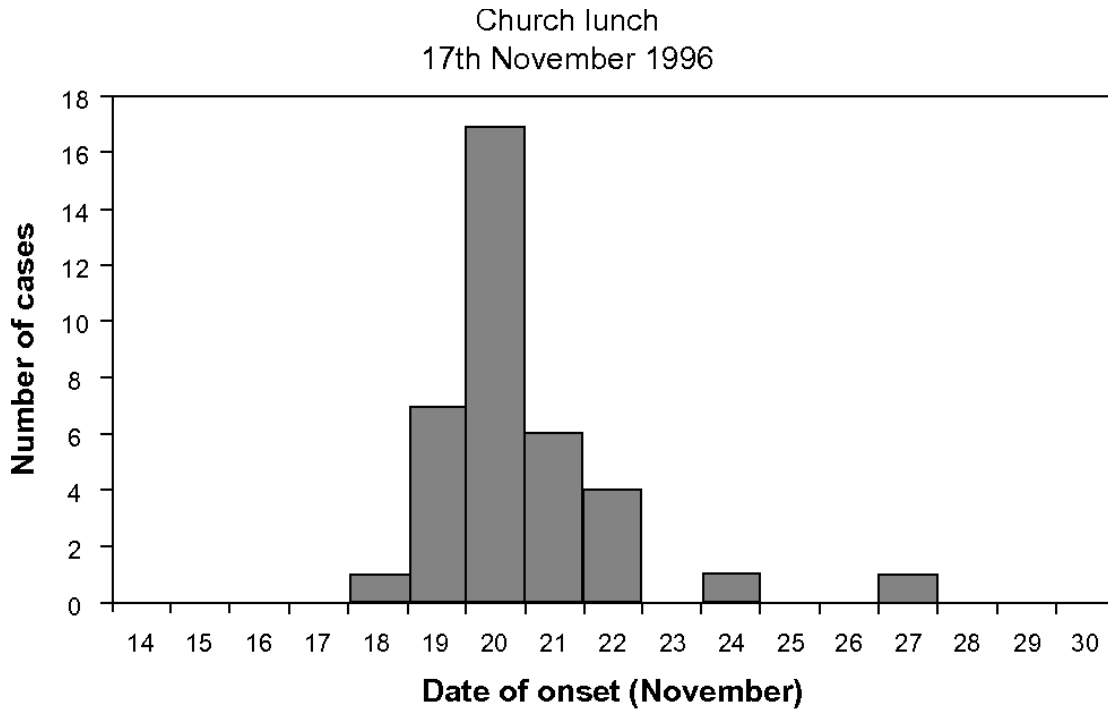


20. _____



The graph below was calculated from data after reports of E.coli at a local middle school. On the graph, label the minimum, maximum, and average incubation period. (6 points)

21.



22. On the table below, fill in 2 advantages and disadvantages for each type of study design. (8 points)

Study Design	Advantage	Disadvantage
Trial	1. 2.	1. 2.
Cohort Study	1. 2.	1. 2.
Case-control Study	1. 2.	1. 2.
Cross-sectional Study	1. 2.	1. 2.

23. The FDA, CDC, along with state and local officials investigated a local outbreak of cyclosporiasis illnesses likely linked to salads from McDonald's restaurants. From the data, they filled out this table below.

	Disease (YES)	Disease (NO)
Exposed (Ate Salad)	150	30
Unexposed (No Salad)	50	170

- a. Calculate the attack rate for the exposed and unexposed (2 points)

- b. Calculate the relative risk and state the conclusion based on that value. (2 points)

24. List the 10 steps of an outbreak investigation (10 points)

- 1.

- 2.

- 3.

- 4.

- 5.

- 6.

