## Chapter 2 *Epidemiology*

## **Multiple Choice Questions**

- 1. The primary focus of the epidemiologist is on:
  - a. Catastrophic disease outbreaks.
  - b. Societal demographics.
  - c. Health and wellness of children.
  - d. Individual's diseases.
  - e. Health problems of social aggregates.

Answer: E Page: 23

- 2. A scientist who studies the origin and distribution of all types of diseases is best described as a(n):
  - a. Biochemist.
  - b. Social worker.
  - c. Epidemiologist.
  - d. Demographer.
  - e. Sociologist.

Answer: C Page: 23

- 3. In epidemiology, a "case" refers to:
  - a. An investigation into an outbreak of disease or illness.
  - b. The classification of a disorder, illness, or injury.
  - c. A collection of a single type of disorder, illness, or injury.
  - d. A single episode of a disorder, illness, or injury involving an individual.
  - e. There is no such epidemiological term.

Answer: D Page: 24

- 4. A researcher is interested in reporting how many people in a community were diagnosed with HIV during the past month. He/she would measure the:
  - a. Incidence.
  - b. Prevalence.
  - c. Crude rate.
  - d. Cases.
  - e. Age-specific rate.

Answer: A Page: 24

- 5. Which of the following is TRUE about incidence and prevalence?
  - a. Prevalence is used to analyze the rate at which new cases occur.
  - b. Incidence and prevalence are interchangeable terms.

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C	Incidence	10 ret	10 rted 11	raw	numbers	While	prevalence	10 03	nressed	26	a ratio
<b>C</b> .	mendence	10 10	JOI ICG II	1 1 4 77	Hulliocis	WIIIIC	prevalence	10 07	<b>Apresseu</b>	as	a rano.

- d. The incidence for a given disease can be low at the same time that its prevalence is high.
- e. None of the above

Page: 24 Answer: D

- 6. A ratio, such as the crude mortality rate, is expressed as:
  - a. Total number of cases divided by prevalence.
  - b. Total number of cases divided by incidence.
  - c. Total number of cases divided by total population.
  - d. Total number of cases times total population.
  - e. Total number of cases times incidence.

Answer: C Page: 24-25

- has special significance for a society because it is traditionally used as an approximate indicator of a society's standard of living and quality of health care delivery.
  - a. Prevalence of chronic diseases.
  - b. Life expectancy.
  - c. Infant mortality rate.
  - d. Crude birth rate.
  - e. Age adjusted fertility rate.

Answer: C Page: 25

- 8. What is NOT a factor in the increasing emergence of epidemics?
  - a. Increase in international transportation channels.
  - b. Migration from rural areas into urban cities.
  - c. Increase in public sanitation.
  - d. All of the above.
  - e. None of the above.

Answer: C Page: 26

- 9. Whose investigations into cholera outbreaks established the foundation of modern epidemiology?
  - a. Louis Pasteur.
  - b. John Snow.
  - c. Karl Marx.
  - d. Ralph Paffenbarger.
  - e. All these men helped lay the foundation of epidemiology.

Answer: B Page: 27

are the a. b. c. d.	e five agents recognized Biological, social, psy Biological, physical, Biological, physical, Biological, nutritional	nework for understanding the causal agents of disease. What d today? ychological, toxic, and environmental. social, mental, and metaphysical. social, mental, and psychological. l, chemical, mental, and psychological. l, chemical, physical, and social.			
Ar	nswer: E	Page: 28			
what c a. b. c. d.	<ul> <li>11. The science of epidemiology has passed through three eras and is entering a fourth. In what order did it pass through the first three eras?</li> <li>a. Sanitary, Infectious, Chronic.</li> <li>b. Sanitary, Chronic, Infectious.</li> <li>c. Chronic, Sanitary, Infectious.</li> <li>d. Chronic, Infectious, Sanitary.</li> <li>e. Infectious, Sanitary, Chronic.</li> </ul>				
Ar	nswer: A	Page: 28			
seen in a. b. c. d. e.	the health profile of the Leading causes of deadiseases. Leading causes of deadiseases. Leading causes of deadiseases. Infectious diseases are Both infectious and clarences.	ath change from mostly chronic diseases to infectious at the change from mostly infectious diseases to chronic eliminated entirely thronic diseases are reduced to a minimum.			
Ar	nswer: B	Page: 29			
third c a. b. c. d. e.	of all deaths? Diabetes. HIV/AIDS. Stroke. Heart disease. Cancer.	death in the United States, accounting for more than one-			
Ar	nswer: D	Page: 30			

14. The \_\_\_\_\_\_ study was important for showing that arteriosclerosis does not strike people at random as they age, but that highly susceptible individuals can be identified in

- b. Framingham.
- c. Tuskegee.
- d. Whitehall.
- e. Engels.

Page: 30 Answer: B

- 15. What do studies on diet, exercise, and obesity suggest with respect to heart disease?
  - a. Diet and physical activity have little effect on an individual's likelihood of developing heart disease.
  - b. Changing one's eating habits toward a diet low in saturated fat can reduce the risk of developing heart disease.
  - c. Obesity is the result of individual choices and relates little to the development of heart disease.
  - d. Only lengthy, vigorous physical activity has been shown to provide some protection against heart disease.
  - e. None of the above.

Answer: B Page: 31-35

- 16. At the end of 2007, the majority of AIDS cases in the U.S. were found in:
  - a. Homosexual and bisexual men.
  - b. Homosexual and bisexual women.
  - c. Intravenous drug users.
  - d. Blood transfusion patients.
  - e. Children of a parent with AIDS.

Answer: A Page: 38

- 17. The lowest AIDS mortality rates for American males are found in:
  - a. Native Americans.
  - b. Non-Hispanic whites.
  - c. Hispanics.
  - d. Non-Hispanic African Americans.
  - e. Asians.

Page: 39 Answer: E

- 18. Since 2000, the number of AIDS cases has sharply increased in what region of the U.S.?
  - a. Northwest.
  - b. West.
  - c. Midwest.
  - d. Northeast.
  - e. South.

Page: 40 Answer: E

	<ul> <li>a. Heterosexual con</li> </ul>	tact.						
	b. Homosexual contact.							
		Intravenous drug use.						
		. Blood transfusions.						
	e. Infected mother t							
	Answer: A	Page: 40-41						
20. \	Which of the following p	plays a particularly important role in the transmission of AIDS in						
,	Sub-Saharan Africa?							
	a. Government.							
	b. Health delivery s	ystem.						
	c. Migrant labor for	ce.						
	d. Homosexuals.							
	e. Drug users.							
	Answer: C	Page: 41						
21. 2	AIDS now affects	in Africa more than						
	a. Whites, natives.							
	b. Children, adults.							
	c. Homosexuals, he	terosexuals.						
	d. Men, women.							
	e. Women, men.							
	Answer: E	Page: 41						
22	appears to	be a major channel for AIDS transmission in India.						
	a. Marijuana use.	·						
	b. Mother to child to	ransmission.						
	c. Prostitution.							
	d. Improper sanitati	on.						
	e. Overcrowding.							
	Answer: C	Page: 42						
23. ′	The HIV outbreak in Chi	na initially occurred among in Yunnan Province.						
	a. Bisexuals.							
	b. Homosexuals.							
	c. Intravenous drug	users.						
	d. Blood transfusion	ns recipients.						
	e. Infected mothers	to children.						

19. AIDS is transmitted in Africa and some parts of Asia primarily by:

	Answer: C	Page: 42
24.	People who become infected isolate them socially. This so a. Stigma.  b. Stagflation. c. Disintegration. d. Disentanglement. e. All of the above.	I with HIV may be subjected to discrimination, which can ocial outcome is:
	Answer: A	Page: 42
25.	activity be infection of a large proportion a. Bisexual. b. Heterosexual. c. Intravenous drug use d. Homosexual. e. Illegal.	
	Answer: A	Page: 42
26.	epidemic?  a. Its influence on modition is the pandemic.  c. The social rejection of the desired is the pandemic.  d. Moral and religious of the options.  e. All of the above.	debates over the meaning of the disease and treatment
	Answer: E	Page: 43
27.	comes from one's occupation a. Default status. b. Ordinary status. c. Master status. d. Primary status. e. Main status.	
	Answer: C	Page: 43

a

OI			about the rights of	versus the welfare	
	of a. Individuals, government.				
	b. Individuals, society.				
	c. Hospitals, in				
	d. Hospitals, society.				
	e. Government	, society.			
	Answer: B	Page:	43		
29. Th	e current public p	olicy approach t	to dealing with AIDS is:		
	a. Through ban				
	b. Through man				
	c. Through qua				
	d. Through safe				
	e. None of the	above.			
	Answer: D	Page:	43		
30. W		•	es influenza pandemics?		
			e threat to worldwide he		
	<u>-</u>	een mostly elimi	inated due to the develop	pment of vaccines such as	
	Tamiflu.				
			the region of outbreak.		
	e. None of the		occur at irregular interva	Is.	
	Answer: D	Page:	44		
rue Fals	se Questions				
1. Ma	any sociologists w	orking in the fie	eld of medicine are epide	emiologists.	
	Answer: TR	UE	Page: 23		
	• •		lly study epidemic diseasents or unhealthy behavio	ses and give little attention to ors.	
	Answer: FA	LSE	Page: 23		
	1 1110 // 411 1 1 1				
	evalence rates, wh		point prevalence, periodse being measured.	d prevalence, or lifetime	

4.	The simplest ratio computed by the epidemiologist is called the crude rate.				
	Answer: TRUE	Page: 24			
5.	Crude death and birth rates are too gross a measure to be meaningful for most sociological purposes				
	Answer: TRUE	Page: 25			
6.		dic humans, with close proximity to others and as favorable to widespread and frequent epidemics.			
	Answer: FALSE	Page: 26			
7.	The bubonic plague was ended in 17	750 with the development of penicillin.			
	Answer: FALSE	Page: 27			
8.	. What a person does, who a person is, and where a person lives can specify what health hazards are most likely to exist in that individual's life.				
	Answer: TRUE	Page: 28			
9.	. The social environment, referring not only to living conditions but also norms and values can cause sickness.				
	Answer: TRUE	Page: 28			
10	10. Developing nations are typically characterized by a high birth rate and a high death rate, with a relatively young population.				
	Answer: TRUE	Page: 29			
11. About twice as many males die from heart disease as females, and men are more likely than women to have a worse prognosis if they survive the first serious heart attack.					
	Answer: FALSE	Page: 30			
12.	12. Smoking is the leading cause of sudden cardiac death in the United States and quitting smoking nearly eliminates this risk after a year or two.				
	Answer: TRUE	Page: 31			
13.	. Pandemics are regional or local outb	oreaks of a disease and rarely happen.			
	Answer: FALSE	Page: 36			

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14. HIV/AIDS first appeared in intravenous drug users in New York and San Francisco.

Answer: FALSE Page: 37

15. AIDS potentially entered the U.S. through Haiti.

Answer: TRUE Page: 38

16. Much of the fear about AIDS arises from the fact that many people who carry the virus are not aware of it.

Answer: TRUE Page: 38

17. People most at risk for developing AIDS are those who have had multiple sex partners and know little about their partners' past sexual behavior.

Answer: TRUE Page: 38

18. In states like Mississippi and North Carolina, more black women than white men have contracted HIV.

Answer: TRUE Page: 40

19. Estimating the number of individual flu cases in an outbreak is an easy task, since almost everyone who becomes sick with the flu requires medical care.

Answer: FALSE Page: 44

## **Essay Questions**

- 1. Define *incidence* and *prevalence*. Explain the relationship between the two, and identify which issues with each pertain when examining chronic and acute illnesses.
- 2. Recognition that germs were causal agents of disease served as a precursor to scientific findings that people come into contact with a variety of causal agents. Define all five agents, and provide examples of each type.
- 3. Describe the <u>four</u> eras of epidemiology.
- 4. Modification in what four lifestyle areas significantly reduce the risk of heart disease? Discuss how and why these modifications affect the risk of developing heart disease.
- 5. Developing and developed nations have a different pattern of disease and illness. List the most prevalent diseases in both nation types, and discuss why these differences exist.