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.

Page: 24 Answer: D

- 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 is	renorted in	raw numbers	While nrev	valence ic e	xpressed as a ra	t ₁
C .	includince is	s reported in	l law mumbers	willie piev	vaiciice is c	apicoscu as a ia	uo.

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

Answer: D Page: 24

- 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 th a. b. c. d.	e five agents re Biological, so Biological, p Biological, p Biological, n	ecognized today? ocial, psychological, to hysical, social, mental, hysical, social, mental,	and psychological. ental, and psychological.
A	nswer: E	Page: 28	
what a. b. c. d.	order did it pas Sanitary, Info Sanitary, Chi Chronic, San Chronic, Info	miology has passed the s through the first thre ectious, Chronic. conic, Infectious. itary, Infectious. ectious, Sanitary. anitary, Chronic.	rough three eras and is entering a fourth. In e eras?
A	nswer: A	Page: 28	
seen i a. b. c. d. e.	n the health pro Leading caus diseases. Leading caus diseases. Infectious dis	ofile of the nation? les of death change fro les of death change fro seases are eliminated e us and chronic disease	cultural to urban-industrial, what changes are m mostly chronic diseases to infectious m mostly infectious diseases to chronic ntirely s are reduced to a minimum.
third of a. b. c. d. e.	of all deaths?	cause of death in the U	nited States, accounting for more than one-
A	iiswei. D	rage: 50	
14. The _ peopl	e at random as		or showing that arteriosclerosis does not strike ly susceptible individuals can be identified in

advance.

a. CVD1960.

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

Answer: B Page: 30

- 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.

Answer: E Page: 39

- 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

19. AI	DS is transmitted in Africa a. Heterosexual contact. b. Homosexual contact. c. Intravenous drug use. d. Blood transfusions. e. Infected mother to ch		
	Answer: A	Page: 40-41	
	a. Government.b. Health delivery systec. Migrant labor force.d. Homosexuals.e. Drug users.		nsmission of AIDS in
	Answer: C	Page: 41	
21. AI	DS now affects a. Whites, natives. b. Children, adults. c. Homosexuals, heteroid. Men, women. e. Women, men. Answer: E	in Africa more thansexuals. Page: 41	<u> </u>
22	appears to be a a. Marijuana use. b. Mother to child transic. c. Prostitution. d. Improper sanitation. e. Overcrowding.	a major channel for AIDS transmission mission.	in India.
	Answer: C	Page: 42	
23. Th	a. Bisexuals. b. Homosexuals. c. Intravenous drug user d. Blood transfusions re e. Infected mothers to c	cipients.	in Yunnan Province.

	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.	with HIV may be subjected to discrimination, which can cial outcome is:
	Answer: A	Page: 42
25.	activity by 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 modi b. How certain social be pandemic. c. The social rejection o 	onstrates the sociological implications of the HIV/AIDS fying social norms, values, and lifestyles. Chaviors lead to the transmission of the disease and result in f AIDS patients. The debates over the meaning of the disease and treatment. Page: 43
27.	Which term describes an indicomes from one's occupation a. Default status. b. Ordinary status. c. Master status. d. Primary status. e. Main status.	ividual's most important position in society and typically n?
	Answer: C	Page: 43

a

28						nsequences, serious versus the welfare
	of	& 1		\mathcal{E}		 ,
	a.	Individuals, g				
	b. Individuals, society.					
	c.	Hospitals, ind	lividuals.			
d. Hospitals, society.						
	e.	Government,	society.			
	Ar	swer: B	Page	e: 43		
29.	. The cu	rrent public po	olicy approacl	n to dealing with	n AIDS is:	
	a.					
	b.	Through man				
		-	•	cted individuals	5.	
		Through safe				
		None of the a				
	Ar	aswer: D	Page	e: 43		
30.	. Which	of the followi	ng best descri	bes influenza pa	andemics?	
			-	the threat to wor		is minimal.
	b.					nt of vaccines such as
	c.	They are easi	ly contained t	o the region of	outbreak.	
	d.	They are unpr	redictable and	l occur at irregu	lar intervals.	
	e.	None of the a	bove.			
	Ar	iswer: D	Page	e: 44		
rue l	False Q	uestions				
1.	Many	sociologists we	orking in the	field of medicin	e are epidemio	logists.
		Answer: TRU	JЕ	Page: 23		
2.			-	rily study epide nents or unhealt		nd give little attention to
		Answer: FAL	SE	Page: 23		
3.				as point prevale ase being measu		evalence, or lifetime
		Answer: FAL	SE	Page: 24		

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.	<u> </u>	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.	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. 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.	13. Pandemics are regional or local outbreaks of a disease and rarely happen.			
	Answer: FALSE	Page: 36		

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.

> Page: 38 Answer: TRUE

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.

> Page: 44 Answer: FALSE

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 four 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.