Human Diseases: A Systemic Approach, 8e (Zelman)

Chapter 1 Introduction to Disease

1.1 Multiple-Choice Questions
1) In, the body's organ systems normally maintain temperature, pH, blood composition, and fluid levels within a precise range.
A) disease
B) health
C) homeostasis
D) pathology
Answer: C
Objective 1
2) is a deviation from normal structure or function in the body that interrupts or modifies the performance of vital functions.
A) Disease
B) Health
C) Homeostasis
D) Pathology
Answer: A
Objective 1
3) A disease that causes no signs or symptoms is called an disease.
A) asymptomatic
B) disorder
C) prognosis
D) syndrome
Answer: A
Objective 1

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4) is the process of identifying a disease or disorder.
A) Acute
B) Chronic
C) Diagnosis
D) Prognosis
Answer: C
Objective 1
5) refers to a visual examination of the external surface of the body, its movements, and posture for abnormalities or evidence of disease.
A) Auscultation
B) Inspection
C) Palpation
D) Percussion
Answer: B
Objective 1
6), producing sounds by tapping on specific areas of the body with fingers, hands, or small instruments, allows evaluation of the size, consistency, and borders of the body organs, and the presence or absence of fluid in body areas.
A) Auscultation
B) Inspection
C) Palpation
D) Percussion
Answer: D
Objective 1
7) uses computers and x-rays to create three-dimensional images of internal structures.
A) Computed tomography

B) Nuclear medicine
C) Radiography
D) Ultrasound
Answer: A
Objective 1
8) analyzes the interaction of low-frequency sound waves with tissues to create moving images of internal organs.
A) Computed tomography
B) Nuclear medicine
C) Radiography
D) Ultrasound
Answer: D
Objective 1
9) uses radioactive materials to create contrast in the body and help form images of the structure and function of organs.
A) Computed tomography
B) Nuclear medicine
C) Radiography
D) Ultrasound
Answer: B
Objective 1
10) The predicted course and outcome of the disease is known as the
A) diagnosis
B) exacerbation
C) prognosis
D) relapse

Answer: C
Objective 1
11) A disease that will end in death is called a disease.
A) chronic
B) exacerbation
C) palliative
D) terminal
Answer: D
Objective 1
12) Examples of diseases include heart disease, cancer, stroke, diabetes, and arthritis.
A) acute
B) chronic
C) exacerbation
D) terminal
Answer: B
Objective 1
13) Some diseases enter a period of during which signs and symptoms subside or disappear.
A) exacerbation
B) relapse
C) remission
D) sequela
Answer: C
Objective 1
14) A period of occurs when signs and symptoms grow more severe.
A) complication

B) exacerbation
C) relapse
D) remission
Answer: B
Objective 1
15) An example of a is a person confined to bed with a serious fracture developing pneumonia due to inactivity.
A) complication
B) relapse
C) remission
D) sequela
Answer: A
Objective 1
16) An example of a is rheumatic fever causing permanent damage to the heart.
A) complication
B) relapse
C) remission
D) sequela
Answer: D
Objective 1
17) is the number of deaths that occur among people with a certain disease.
A) Incidence
B) Morbidity
C) Mortality
D) Prevalence
Answer: C

Objective 1
18) is the number of cases of a disease in a population.
A) Incidence
B) Morbidity
C) Mortality
D) Prevalence
Answer: B
Objective 1
19) is the percentage of a population that is affected with a particular disease at a given time.
A) Incidence
B) Morbidity
C) Mortality
D) Prevalence
Answer: D
Objective 1
20) data allows the determination of the impact and significance of a disease for a given population.
A) Incidence
B) Morbidity
C) Mortality
D) Prevalence
Answer: D
Objective 1
21) The is the chief epidemiologic institution in the United States.
A) American Medical Association

B) Centers for Disease Control and Prevention
C) Department of Health and Human Services
D) World Health Organization
Answer: B
Objective 4
22) An important aspect of any disease is its, or cause.
A) etiology
B) idiopathic
C) pathogenesis
D) sequela
Answer: A
Objective 2
23) describes how the cause of a disease leads to anatomical and physiological changes in the body that ultimately result in the disease.
A) Etiology
B) Idiopathic
C) Pathogenesis
D) Sequela
Answer: C
Objective 2
24) Disease caused by an abnormality in an individual's genes or chromosomes.
A) congenital
B) hereditary
C) metabolic
D) nutritional
Answer: B

Objective 2
25) In diseases, the function or structure of the affected tissue or organs progressively deteriorate over time.
A) congenital
B) degenerative
C) inflammatory
D) traumatic
Answer: B
Objective 2
26) diseases are caused by a disruption of the normal processes of converting food to energy on a cellular level.
A) Congenital
B) Degenerative
C) Metabolic
D) Traumatic
Answer: C
Objective 2
27) By eliminating known for a disease, a person may reduce the chance of developing that disease.
A) categories
B) etiology
C) risk factors
D) sequela
Answer: C
Objective 3

28) More than 75% of U.S. healthcare dollars go to treatment of diseases instead of prevention, even though prevention would yield a significant reduction in healthcare costs.
A) acute
B) chronic
C) exacerbation
D) sequela
Answer: B
Objective 4
29) Treatment aims to a disease or reduce the severity of its signs and symptoms.
A) cure
B) exacerbate
C) prevent
D) relapse
Answer: A
Objective 4
30) The goal of treatment is to provide comfort and relieve pain.
A) curative
B) modifiable
C) palliative
D) preventable
Answer: C
Objective 4

1.2 True/False Questions

1) A significant disturbance in the homeostasis of the body leads to disease.
Answer: True
Objective 2
2) The study of disease includes study of its causes, mechanisms, signs and symptoms, treatments, and prevention.
Answer: True
Objective 1
3) A disease can be recognized through its characteristic signs and symptoms.
Answer: True
Objective 2
4) Symptoms are evidence of disease, observed on physical examination.
Answer: False
Objective 2
5) A disorder is an abnormal structure or function characterized by a group of signs and symptoms that usually occur together.
Answer: False
Objective 2
6) Signs and symptoms are measures of various physiological statistics in order to assess the most basic body functions, and vary with age, sex, weight, exercise tolerance, and physical condition.
Answer: False
Objective 3

7) The prognosis may state the chances for complete recovery, predict the permanent loss of function, or give probability of survival.
Answer: True
Objective 1
8) A chronic disease has a sudden onset and short duration.
Answer: False
Objective 1
9) A remission may last days, months, or years, after which the disease can recur.
Answer: True
Objective 1
10) A relapse describes the return of a disease weeks or months after its apparent cure.
Answer: True
Objective 1
11) A complication is a related disease or other abnormal state that develops in a person already suffering from a disease.
Answer: True
Objective 1
12) The Centers for Disease Control and Prevention acts as a coordinating authority on international public health.
Answer: False
Objective 4
13) Congenital diseases can be acquired through heredity or acquired during development in the uterus.
Answer: True
Objective 2

14) Inflammatory, autoimmune, and allergic diseases are the result of abnormal immune function.
Answer: True
Objective 2
15) Equivalent to etiology, risk factors increase a person's chance of developing a disease?
Answer: False
Objective 2

1.3 Short-Answer Questions
1) is the condition in which the human body performs its vital functions normally.
Answer: Health
Objective 1
2) Health depends on the body maintaining, relatively stable internal conditions under fluctuating environmental conditions.
Answer: homeostasis
Objective 1
3) is the study of disease, especially the structural and functional changes associated with disease.
Answer: Pathology
Objective 1
4) A is a physician who studies and interprets the changes caused by disease.
Answer: pathologist
Objective 1
5) are indications of disease reported by the patient, such as pain, dizziness, and itching.
Answer: Symptoms
Objective 1
6) A is a functional abnormality not necessarily linked to a specific cause or physical abnormality
Answer: disorder
Objective 1
7), feeling the body with fingers or hands, allows examination of the size, consistency, texture, location, and tenderness of an organ or body part.

Answer: Palpation
Objective 1
8), listening to the lungs, heart, and intestines, allows evaluation of the frequency, intensity, duration, number, and quality of sounds originating in the body.
Answer: Auscultation
Objective 1
9) An reads the heart's electrical impulses.
Answer: electrocardiography
Objective 1
10) A disease has a slower, less severe onset and a long duration of months or years.
Answer: chronic
Objective 1
11) The aftermath of a particular disease is called the
Answer: sequela
Objective 1
12) is the study of the occurrence, transmission, distribution, and control of disease.
Answer: Epidemiology
Objective 1
13) If the cause of a disease is not known, it is said to be
Answer: idiopathic
Objective 1
14) Infectious diseases are caused by, like bacteria and viruses.

Answer: pathogens
Objective 1
15) diseases result from abnormal growth that leads to the formation of tumors.
Answer: Neoplastic
Objective 1

1.4 Case Study

- 1) Lind Hunt is a 75-year-old woman who went to see her doctor because she has chest pain, difficulty breathing, a cough, and a fever. The doctor hears crackling sounds in her chest when she breathes and an x-ray reveals that her lungs are filled with fluid. The doctor says that Linda has pneumonia and prescribes antibiotics. After 5 days Linda's chest feels better, her fever subsides, and she can breathe easier.
- 1. Name the symptoms the doctor used to determine a diagnosis.
- 2. Name the signs the doctor used to determine a diagnosis.
- 3. Is this disease hereditary, inflammatory, infectious, or neoplastic?

Answer:

1. Symptoms are subjective manifestations of disease. In this case, the symptoms include chest pain, difficulty breathing, and cough.

Objective 1

2. Signs are objective manifestations of the disease. In this case, signs include the x-ray results, crackling sounds in the lungs, and fever.

Objective 1

3. Pneumonia is an infectious disease often caused by bacteria. If it is determined to be caused by bacteria, then the pneumonia will be treated with antibiotics.

Objective 2

1.5 Discussion Questions

1. Explain the difference between signs and symptoms and give some examples of each.

Answer: Signs are evidence of disease observed on physical examination, such as an abnormal pulse, abnormal respiratory rate, fever, and sweating. Symptoms are indications of disease reported by the patient, such as pain, dizziness, and itching.

2. Explain the difference between syndromes and disorders.

Answer: A syndrome is an abnormal structure or function characterized by a group of signs and symptoms that usually occur together. A disorder is a functional abnormality not necessarily linked to a specific cause or physical abnormality.

3. There are five physical examination procedures. Pick two and describe them.

Answer:

- 1. Inspection refers to a visual examination of the external surface of the body, its movements, and posture for abnormalities or evidence of disease.
- 2. Palpation, feeling the body with fingers or hands, allows examination of the size, consistency, texture, location, and tenderness of an organ or body part.
- 3. Auscultation, listening to the lungs, heart, and intestines, allows evaluation of the frequency, intensity, duration, number, and quality of sounds originating in the body.
- 4. Percussion, producing sounds by tapping on specific areas of the body with fingers, hands, or small instruments, allows evaluation of the size, consistency, and borders of the body organs, and the presence or absence of fluid in the body area.
- 5. Vital signs (pulse, respiratory rate, blood pressure, temperature) are measures of various physiological statistics in order to assess the most basic body functions. Normal vital signs vary with age, sex, weight, exercise tolerance, and physical condition.
- 4. Explain the difference between a CT scan and an MRI.

Answer: Computed tomography (CT scan) uses computers and x-rays to create three-dimensional images of internal structures. Magnetic Resonance Imaging (MRI) analyzes tissue responses to a strong magnetic field to create images of internal structures.

5. Explain the difference between diagnosis and prognosis.

Answer: Diagnosis is the process of identifying a disease or disorder. Prognosis is the predicted outcome of the disease.

6. Explain the difference between mortality and morbidity.

Answer: Morbidity is the number of deaths that occur among people with a certain disease. Morbidity is the number of cases of a disease in a population.

- 7. There are nine chief causes of disease. Describe three giving an example for each. Answer:
 - 1. Hereditary caused by an abnormality in an individual's genes or chromosomes. [Hemophilia, sickle cell anemia, cystic fibrosis]
 - 2. Congenital exists at date of birth, can be acquired through hereditary or acquired during development in the uterus. [Tetralogy of Fallot]
 - 3. Degenerative the function or structure of the affected tissues or organs progressively deteriorates over time. [Arteriosclerosis, osteoarthritis, Alzheimer's]
 - 4. Inflammatory, autoimmune, and allergic result of abnormal immune function. [Asthma, systemic lupus erythematosus, hay fever]
 - 5. Infectious diseases are caused by pathogens like bacteria and viruses. [Tuberculosis, influenza, syphilis]
 - 6. Neoplastic result from abnormal growth that leads to the formation of tumors. [Lung cancer, malignant melanoma, breast cancer]

- 7. Metabolic disruption of normal metabolism, the process of converting food to energy on a cellular level. [Diabetes, hypothyroidism, gigantims]
- 8. Traumatic physical or chemical injury. [Burns, frostbite, bone fractures]
- 9. Nutritional related to overconsumption or underconsumption of nutrients. [Iron-deficiency anemia, scurvy, obesity]

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