# Wold: Basic Geriatric Nursing, 5th Edition

## **Chapter 03: Physiologic Changes**

### **Test Bank**

## MULTIPLE CHOICE

- 1. The nurse keeps the environment warmer for older adults because they are more sensitive to cold because of the age-related changes in their:
- a. metabolism rate.
- b. subcutaneous tissue.
- c. musculoskeletal system.
- d. peripheral vascular system.

ANS: B

The reduction of subcutaneous tissue as an age-related change causes sensitivity to cold because it is the main insulator of the body.

DIF: Cognitive Level: Application REF: 36 OBJ: 1

TOP: Sensitivity to Cold KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 2. The nurse reassures the distressed 75-year-old male that the wartlike dark macules with distinct borders are not melanomas, but the skin lesions of:
- a. senile lentigo.
- b. cutaneous papillomas.
- c. seborrheic keratoses.
- d. xerosis.

ANS: C

Dark, slightly raised macules are seborrheic keratoses, which may be mistaken for melanomas.

DIF: Cognitive Level: Comprehension REF: 33 OBJ: 1

TOP: Seborrheic Keratosis KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 3. The nurse is accompanying a group of older adults on a July 4th outing to monitor heat prostration. Older adults are intolerant of heat because of an age-related reduction of:
- a. melanin.
- b. perspiration.
- c. body temperature.
- d. capillary fragility.

ANS: B

Reduction in perspiration related to reduced sweat gland function results in possible heat intolerance from an inability to cool the body by evaporation.

DIF: Cognitive Level: Analysis REF: 34 OBJ: 2

TOP: Heat Intolerance KEY: Nursing Process Step: Assessment

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 4. The nurse cautions the CNAs to use care when transferring or handling older adults because their vascular fragility will cause:
- a. altered blood pressure.
- b. pressure ulcers.
- c. pruritus.
- d. senile purpura.

ANS: D

Increased capillary fragility results in subcutaneous hemorrhage or senile purpura from incautious handling by caregivers.

DIF: Cognitive Level: Comprehension REF: 34-35 OBJ: 7

TOP: Senile Purpura KEY: Nursing Process Step: Planning

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 5. The nurse assesses a stage I pressure ulcer on an older adult's coccyx by the appearance of a:
- a. clear blister.
- b. nonblanchable area of erythema.
- c. scaly abraded area.
- d. painful reddened area.

ANS: B

A red nonblanchable area is indicative of a stage I pressure ulcer.

DIF: Cognitive Level: Analysis REF: 35 OBJ: 5

TOP: Pressure Ulcer KEY: Nursing Process Step: Assessment

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 6. The CNA caring for an older adult asks if the yellow, waxy, crusty lesions on the patient's axilla and groin are contagious. The nurse's most helpful response is:
- a. "Yes. It is cellulitis caused by bacteria."
- b. "No. It is seborrheic dermatitis caused by excessive sebum."
- c. "Yes. It is an indication of scabies."
- d. "No. It is the lesion seen with basal cell carcinoma."

ANS: B

Seborrheic dermatitis is a bothersome skin condition resulting from an excess of sebum.

DIF: Cognitive Level: Application REF: 36 OBJ: 5

TOP: Seborrheic Dermatitis KEY: Nursing Process Step: Implementation

7. The nurse leads a group of postmenopausal older women on a daily 15-minute "walking tour" through the long-term care facility to:

- a. improve bone strength.
- b. orient them to their surroundings.
- c. improve their socialization.
- d. increase their appetite.

ANS: A

Stress to long bones by weight-bearing and walking will increase bone strength.

DIF: Cognitive Level: Analysis REF: 36 OBJ: 7

TOP: Bone Strength KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 8. When the perplexed 70-year-old woman asks, "How in the world can my bones be brittle when I eat all the right foods?" the nurse's most informative reply is:
- a. "Calcium loss is expected in the older adult."
- b. "Calcium is continuously withdrawn from bone for nerve and muscle function."
- c. "Smoking and alcohol consumption speed calcium loss from the bones."
- d. "Walking and standing increase calcium loss from the bone."

ANS: B

Calcium is constantly withdrawn from the bone for nerve and muscle function and clotting needs.

DIF: Cognitive Level: Comprehension REF: 36-37 OBJ: 3

TOP: Calcium Loss KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 9. When the 70-year-old woman complains, "I weigh exactly the same as I did when I wore a size 10 and now I can barely squeeze into a size 16," the nurse explains:
- a. "Metabolism in the older adult creates increased adipose tissue."
- b. "Postmenopausal women gain adipose tissue related to loss of calcium."
- c. "Decrease in muscle mass is replaced with adipose tissue."
- d. "Kyphosis causes a redistribution of weight."

ANS: C

Decrease in muscle mass is replaced with adipose tissue, which frequently changes the appearance of the body, but not the weight.

DIF: Cognitive Level: Application REF: 39 OBJ: 4

TOP: Loss of Muscle Mass KEY: Nursing Process Step: Implementation

- 10. When the 70-year-old postmenopausal woman asks whether her hormone replacement therapy (HRT) will prevent bone loss, the nurse's most helpful response is:
- a. "No. HRT is not helpful after the age of 60."
- b. "Yes. HRT will prevent bone loss but can cause a stroke, heart attack, or breast

cancer."

c. "No. HRT is reliant on some natural estrogen production from the ovaries."

d. "Yes. HRT is a widely accepted therapy for prevention of bone loss."

ANS: B

HRT is helpful to prevent bone loss, but the risks of cardiovascular complications and cancer have made the choice of HRT controversial.

DIF: Cognitive Level: Analysis REF: 39 OBJ: 4

TOP: Hormone Replacement Therapy KEY: Nursing Process Step:

Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 11. An 80-year-old-woman who has osteoarthritis complains of how ugly her hands have become since she has developed Heberden nodes, which are:
- a. yellow longitudinal lines in the nails.
- b. thickened discolored fingernails.
- c. darkened areas under the fingernail.
- d. bony enlargements of distal joints of the fingers.

ANS: D

Heberden nodes are bony enlargements of the distal joints of the fingers associated with osteoarthritis.

DIF: Cognitive Level: Knowledge REF: 40 OBJ: 4

TOP: Heberden Nodes KEY: Nursing Process Step: N/A

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 12. The nurse modifies the nursing care plan for a 62-year-old woman in an extended-care facility who is suffering a flare in her rheumatoid arthritis to include interventions to:
- a. increase fluid intake.
- b. schedule several rest periods to balance activity.
- c. reduce salt in the diet.
- d. assist with rigorous finger extension exercises.

ANS: B

Balancing rest and activity allows the resident to remain relatively flexible. Joints may be splinted to reduce contracture.

DIF: Cognitive Level: Application REF: 40 OBJ: 5

TOP: Rheumatoid Arthritis KEY: Nursing Process Step: Planning

- 13. The nurse explains that emphysema is a chronic obstructive pulmonary disease characterized by the pathophysiology of:
- a. constriction of the bronchial tree, excessive mucus, and nonproductive cough.
- b. calcification of the alveoli and a dry cough.
- c. overinflation of the alveoli, making them ineffective for gas exchange.

d. inflammation of the trachea and bronchioles, excessive mucus, and productive cough.

ANS: C

Emphysema causes overinflation of the nonelastic alveoli, which disallows gas exchange in the affected alveoli and results in reduced oxygenation.

DIF: Cognitive Level: Comprehension REF: 42 OBJ: 5 TOP: Emphysema KEY: Nursing Process Step: Implementation MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 14. The nurse explains that the pathophysiology of a myocardial infarct is that:
- a. a portion of the myocardium necroses and scars over.
- b. the coronary vessels are narrowed during the attack.
- c. the ischemic myocardium causes pain during the attack but is able to regenerate.
- d. there is damage to the myocardium but no serious alteration of cardiac output.

ANS: A

The myocardium necroses and scars and does not regenerate. The degree of heart damage is related to the amount of necrosis.

DIF: Cognitive Level: Comprehension REF: 46 OBJ: 6

TOP: Myocardial Infarct KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 15. The nurse is aware that the cardinal signs and symptoms of congestive heart failure are:
- a. dyspnea and edema.
- b. myocardial pain and hypotension.
- c. ventricular arrhythmias and cyanosis.
- d. atrial arrhythmias and polycythemia.

ANS: A

Dyspnea and generalized edema are the cardinal signs and symptoms of congestive heart failure.

DIF: Cognitive Level: Application REF: 47 OBJ: 5

TOP: Congestive Heart Failure KEY: Nursing Process Step: Assessment

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 16. The nurse explains that pernicious anemia is caused by:
- a. an iron deficiency.
- b. a deficiency of vitamin  $B_{12}$ .
- c. inadequate nutrition.
- d. blood loss.

ANS: B

Pernicious anemia results from a deficiency of vitamin B<sub>12</sub>. DIF: Cognitive Level: Knowledge REF: 50 OBJ: 2

TOP: Pernicious Anemia KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

17. The nurse alters the nursing care plan for a patient with a hiatal hernia and resultant gastrointestinal reflux to include interventions for:

- a. encouraging the patient to lie down after meals.
- b. drinking two full glasses of liquid after the evening meal.
- c. eating smaller, more frequent meals.
- d. using caffeine drinks to assist with digestion.

ANS: C

Eating smaller and more frequent meals does not enlarge the stomach.

DIF: Cognitive Level: Analysis REF: 53 OBJ: 5

TOP: Hiatal Hernia KEY: Nursing Process Step: Planning

MSC: NCLEX: Physiological Integrity: Reduction of Risk

- 18. The nurse suspects that the pale, edematous, listless diabetic patient who has a blood urea nitrogen (BUN) level of 35 mg/dL and a creatinine level of 4 mg/dL has:
- a. diverticulitis.
- b. congestive heart failure.
- c. chronic renal failure.
- d. benign prostatic hypertrophy.

ANS: C

The increased BUN and creatinine levels indicate renal failure.

DIF: Cognitive Level: Application REF: 56 OBJ: 6

TOP: Renal Failure KEY: Nursing Process Step: Assessment

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 19. The most appropriate intervention added to the nursing care plan for a person with Parkinson disease with a nursing diagnosis of "Nutrition, less than body requirements related to difficulty swallowing," would be to:
- a. feed the patient at each meal.
- b. place the patient in a semi-Fowler position for mealtime.
- c. offer a thick, high-nutrition shake as a snack.
- d. encourage the patient to drink a sip of water after each bite of solid food.

ANS: C

Thick shakes are easier to swallow without aspiration and will also improve nutrition.

DIF: Cognitive Level: Application REF: 58 OBJ: 5

TOP: Parkinson Disease KEY: Nursing Process Step: Planning

MSC: NCLEX: Physiological Integrity: Reduction of Risk

- 20. The nurse would anticipate that a person with a hemorrhagic CVA to the left hemisphere would exhibit:
- a. language disturbances.

- b. poor impulse control.
- c. inappropriate affect.
- d. confabulation.

ANS: A

A left hemisphere CVA would most likely cause language disturbances such as aphasia, agraphia, or alexia.

DIF: Cognitive Level: Analysis REF: 61 OBJ: 5

TOP: Cerebrovascular Accident KEY: Nursing Process Step: Planning

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 21. When giving written discharge instructions to a person with macular degeneration, the nurse should:
- a. write the instructions in bold print.
- b. adjust the table and light to assist the patient to use peripheral vision to read.
- c. place written document directly in front of the patient to read.
- d. read the document to the patient.

ANS: B

Assist the patient to use peripheral vision because central vision is lost in macular degeneration.

DIF: Cognitive Level: Analysis REF: 64 OBJ: 5

TOP: Macular DegenerationKEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

- 22. The nurse becomes aware of inadequate insulin coverage in a patient with diabetes mellitus type 1 when the patient exhibits:
- a. diminished urine output.
- b. ketones in the urine.
- c. shallow and slow respirations.
- d. extreme diaphoresis.

ANS: B

When there is inadequate insulin coverage for the type 1 diabetic, the diabetic lacks the glycogen to use as energy and attempts to use fat, which creates an acid in the form of ketones.

DIF: Cognitive Level: Application REF: 70 OBJ: 5

TOP: Diabetes Mellitus Type 1 KEY: Nursing Process Step: Assessment

- 23. An 80-year-old extended-care resident comes to the nurse asking for a bandage for a bleeding, dark pigmented mole with irregular shape and border. The nurse documents this assessment and reports it as a suspected:
- a. melanoma.
- b. basal cell carcinoma.
- c. cutaneous papilloma.

d. senile lentigo.

ANS: A

Melanomas are dark, irregularly shaped lesions that may cause itching or bleeding. These are potentially deadly and should be reported to obtain quick treatment.

DIF: Cognitive Level: Comprehension REF: 35 OBJ: 5

TOP: Melanoma KEY: Nursing Process Step: Assessment

MSC: NCLEX: Health Promotion and Maintenance: Prevention and Early Detection of

Disease

MULTIPLE RESPONSE				
<ol> <li>The nurse takes into consideration that the factors influencing the timing and extent of age-related changes include (Select all that apply.)</li> <li>a. health maintenance</li> <li>b. ethnicity</li> </ol>				
c. heredity  1. attitude				
e. environment				
e. environment				
ANS: A, C, E  Heredity, environment, and health maintenance affect the timing and magnitude of agerelated changes.  DIF: Cognitive Level: Comprehension REF: 32 OBJ: 1  TOP: Influences on Age-Related Changes  KEY: Nursing Process Step: Planning  MSC: NCLEX: Physiological Integrity: Physiological Adaptation				
2. The nurse reminds an 82-year-old man with rosacea that he should avoid (Select all that apply.)				
a. stress				
o. dairy products				
c. sun exposure				
d. spicy foods				

ANS: A, C, D, E

e. alcohol consumption

The patient who has rosacea should avoid stress, sun exposure, spicy foods, and alcohol consumption.

DIF: Cognitive Level: Comprehension REF: 35 OBJ: 5 TOP: Rosacea KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Reduction of Risk

- 3. The nurse is aware that in order for a person to support ossification, he or she must have an adequate intake of vitamin(s) \_\_\_\_\_\_. (Select all that apply.)
- a. A

b. B6 c. C d. D e. E ANS: A, C, D Vitamins A, C, and D are necessary for bone matrix formation and replenishment. Cognitive Level: Knowledge REF: 36 OBJ: 7 TOP: Ossification KEY: Nursing Process Step: Planning MSC: NCLEX: Health Promotion and Maintenance: Prevention and Early Detection of Disease 4. The nurse uses a chart to outline the risk factors for osteoporosis, which include . (Select all that apply.) a. menopause b. smoking c. white female d. excessive high-impact exercise e. long-term use of phenytoin (Dilantin) ANS: A, B, C, EMenopausal white women who smoke and have had long-term administration of phenytoin (Dilantin), heparin, or corticosteroids are at risk for osteoporosis. Cognitive Level: Comprehension REF: 39 OBJ: 5 TOP: Risk Factors for Osteoporosis KEY: Nursing Process Step: Implementation MSC: NCLEX: Physiological Integrity: Physiological Adaptation The nurse outlines age-related changes in the respiratory system that put the older adult at risk for infection, which include . (Select all that apply.) a. reduced ciliary movement b. decrease in alveolar elasticity c. pooling of secretions d. flattened diaphragm e. calcification of costal cartilage ANS: A, B, C The flattening of the diaphragm and the calcification of cartilages decrease respiratory

effectiveness but do not support pathogen growth as do ciliary and alveolar changes.

DIF: Cognitive Level: Comprehension REF: 42 OBJ: 1

TOP: Age-Related Changes in the Respiratory System

**KEY:** Nursing Process Step: Implementation

### **COMPLETION**

1.	The nurse is aware that children with	have the treatment and care need
	of persons of advanced age.	

ANS: progeria

A rare condition called progeria causes severe premature aging. When they are only 8 or 9 years of age, children with progeria have the physiology and appearance of 70-year-olds.

DIF: Cognitive Level: Knowledge REF: 32 OBJ: 7
TOP: Progeria KEY: Nursing Process Step: Planning
MSC: NCLEX: Physiological Integrity: Physiological Adaptation

2. The 75-year-old resident in a long-term care facility complains of muscle pain while riding a stationary bicycle. The nurse explains that the discomfort is related to the buildup of \_\_\_\_\_ in the muscle.

ANS: lactic acid

Elevated levels of lactic acid may result in muscle fatigue and soreness.

DIF: Cognitive Level: Comprehension REF: 38 OBJ: 7

TOP: Lactic Acid Buildup KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

3. When a 75-year-old male resident in an extended-care facility tells the nurse he wants to build up the muscles in his arms, the nurse recommends a(n) \_\_\_\_\_\_ exercise program.

ANS: isotonic

Isotonic exercises such as flexing and extending the arms while holding hand weights build tone and muscle mass.

DIF: Cognitive Level: Comprehension REF: 38 OBJ: 4

TOP: Isotonic Exercises KEY: Nursing Process Step: Implementation

MSC: NCLEX: Physiological Integrity: Physiological Adaptation

#### **OTHER**

- 1. Arrange these common diseases of the older adult in order of their mortality rate.
  - a. Cancer
  - b. Pneumonia
  - c. Stroke
  - d. Chronic obstructive pulmonary disease (COPD)
  - e. Heart disease

ANS: E, A, C, B, D

The five leading causes of death in older adults are heart disease, cancer, stroke, pneumonia, and COPD.

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Test Bank 3-11

DIF: Cognitive Level: Comprehension REF: 33 OBJ: 1 TOP: Diseases Rated by Mortality KEY: Nursing Process Step: N/A

MSC: NCLEX: N/A