

Test bank for L2 pathology

Q1) A 35-year-old man and his 30-year-old wife, both of average height, visit a genetic counselor. They are expecting their first child, and a prenatal ultrasound suggests skeletal abnormalities, including short limb length. Further genetic testing reveals a mutation in the FGFR3 gene. Which of the following is the MOST LIKELY diagnosis for their unborn child?

- A) Marfan syndrome
- B) Achondroplasia
- C) Osteogenesis imperfecta
- D) Ehlers-Danlos syndrome

Q2) A person with achondroplasia is most likely to have which of the following characteristics?

- A) Normal trunk length with disproportionately short limbs
- B) Tall stature with elongated limbs
- C) Severe intellectual disability
- D) Hyperextensibility of joints

Q3) A 5-year-old boy has a history of multiple fractures from minor falls. On examination, he has blue sclerae. What is the most likely diagnosis?

A) Rickets

B) Achondroplasia

C) Osteogenesis Imperfecta

D) Marfan Syndrome

Q4) A 2-year-old boy presents with recurrent fractures, pallor, and frequent infections. Blood tests reveal leukopenia, and X-ray shows dense bones with a “bone-in-bone” appearance. What is the most likely diagnosis?

- A) Osteopetrosis
- B) Osteoporosis
- C) Rickets
- D) Aplastic anemia

Q5) A 68-year-old postmenopausal woman presents to your clinic with a history of recurrent fractures after minor falls. A bone density scan reveals a T-score of -3.0 SD. Based on this information, what is the most likely diagnosis?

A) Normal bone density

B) Osteopenia

C) Osteoporosis

D) Osteomalacia

Q6) Which of the following is a common cause of secondary osteoporosis?

A) Aging

B) Postmenopausal state

C) Hyperthyroidism

D) Increased calcium intake

E) A and B

Q7) Which of the following is a characteristic feature of primary hyperparathyroidism?

- A) Low serum calcium and high serum phosphate
- B) High serum calcium and low/normal serum phosphate
- C) High serum calcium and high serum phosphate
- D) Low serum calcium and low serum phosphate

Q1) B

Q2) A

Q3) C

Q4) A

Q5) C

Q6) C

Q7) B