Кісткова тканина

1. A 14-year-old girl presents to the emergency department for evaluation of an “infected leg”. She states there is no history of trauma but mentions had a history of sickle cell disease. On physical examination, her upper part of right shin is very painful, red, swollen and hot. Her temperature is 39,2^{0}C. An X-ray shows focal bony lysis and loss of trabecular architecture in the metaphysis of right tibia. Increased activity of which of the following cells is the most likely cause of bone reabsorption in this patient?

A. Chondrocytes

B. Osteoblasts

C. Osteocyres

D. Osteoclasts

E. Chondroblasts

2. X-ray examination of a 57-year-old man indicates local areas of compact bone tissue resorption in some of the patient’s bones. These changes can be associated with increased activity of:

A. Osteoclasts

B. Chondroblasts

C. Osteocytes

D. Osteoblasts

E. Chondrocytes

3. In course of indirect histogenesis of tubular bone tissue a plate is formed between epiphyseal and diaphyseal ossificcation centres that provides further lengthwise growth of bones. What structure is it?

A. Metaphyseal plate
B. Osseous plate
C. Osteon
D. Osseous cuff
E. Layer of interior general plates

4. During the hystological study of cortical sheath, basophilic cells with developed synthesis organelles can be seen on the bone surface under the layer of fibers. These cells take part in bone tissue regeneration. What shaft layer are they located in?

A. Periosteum
B. Bone
C. Osteon layer
D. Outer lamellae of compact bone tissue
E. Inner lamellae of compact bone tissue