18-year-old white male presenting with intermittent bilateral knee pain for the past 5 years, increasing in severity recently.

CT topogram image of both knees, axial and reformatted images are presented.
Which of the following findings are present?

- Joint space irregularity and narrowing
- Subchondral sclerosis
- Subchondral cyst formation
- Periarticular osteopenia
- Epiphyseal overgrowth
- Joint effusion
- Widening notch of the distal femur
- Erosion of joint margins

Considering the patient’s age, race and tomographic findings which is the most likely diagnosis.

A. Degenerative osteoarthritis
B. Hemophilic arthropathy
C. Primary synovial chondromatosis
D. Pigmented villonodular synovitis

Answers on page 39