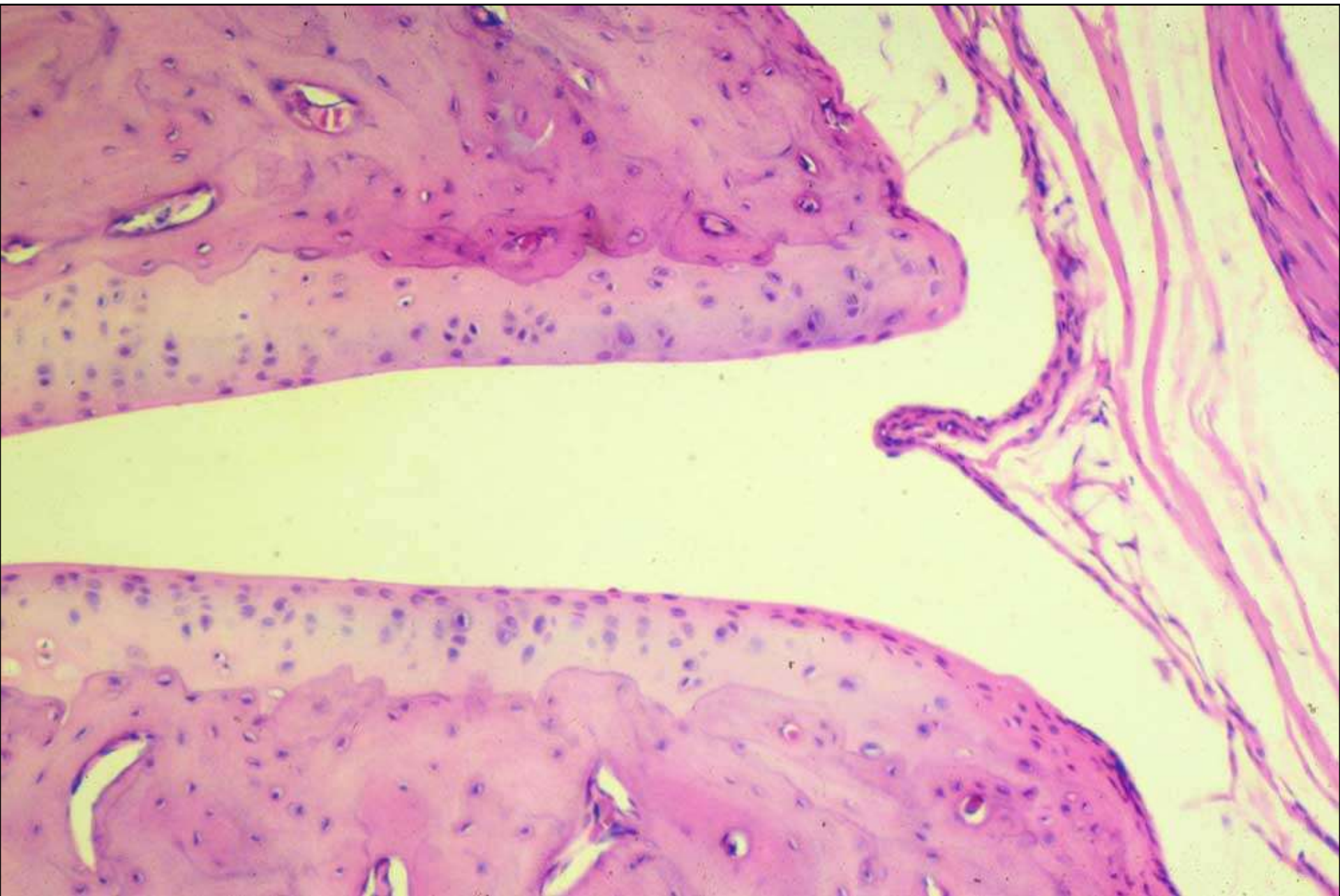
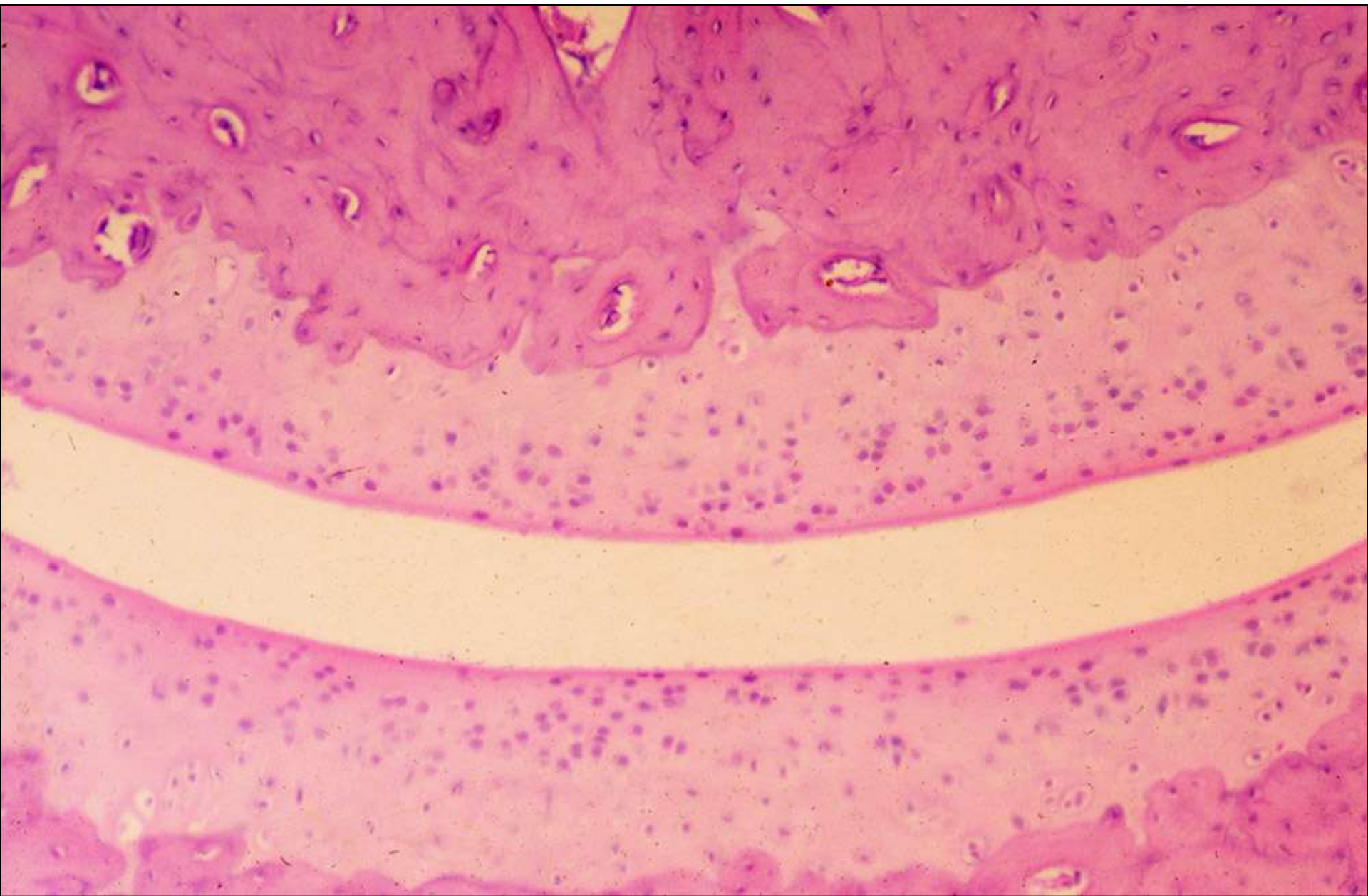


Normal Articular Cartilage





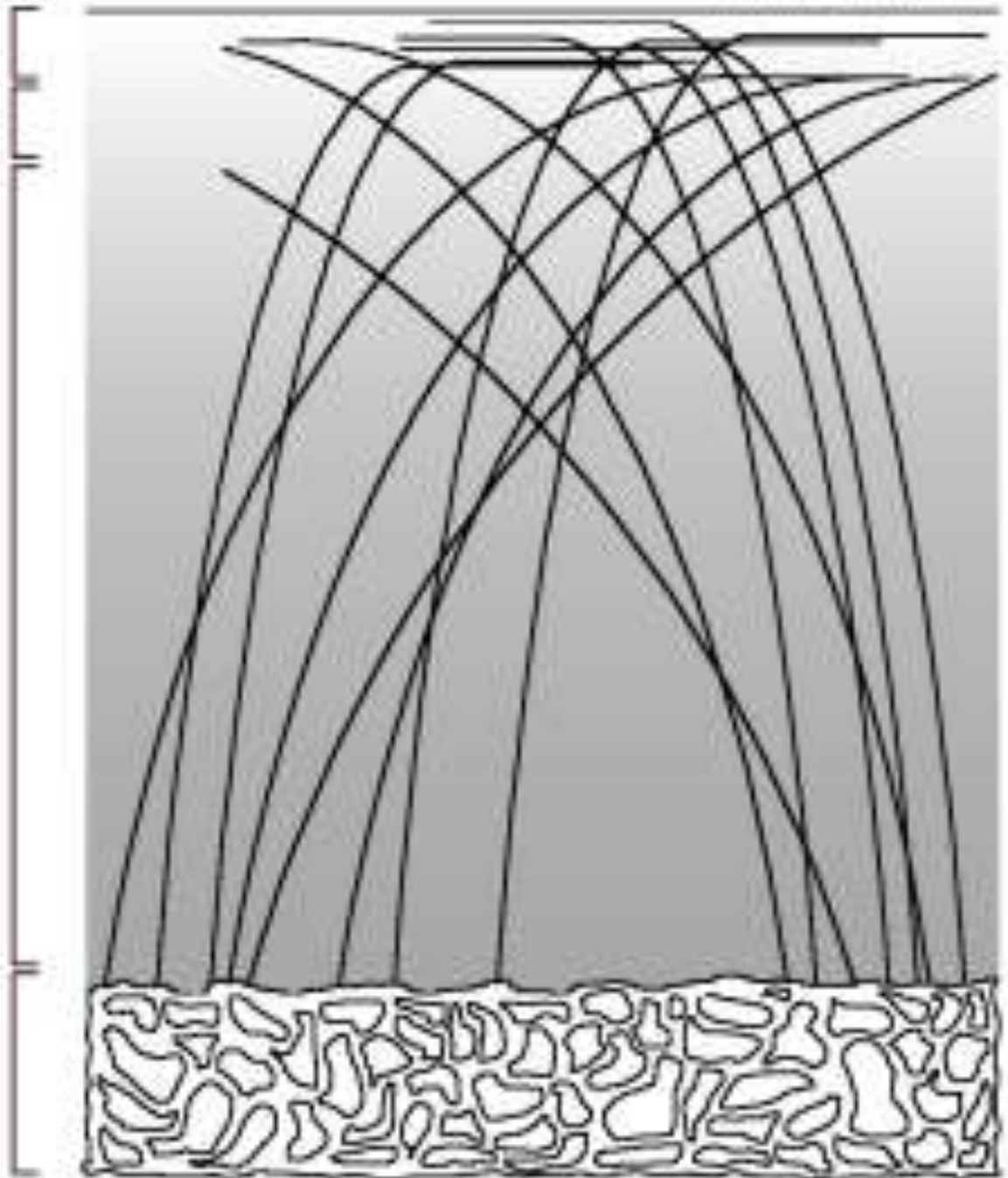
articular surface

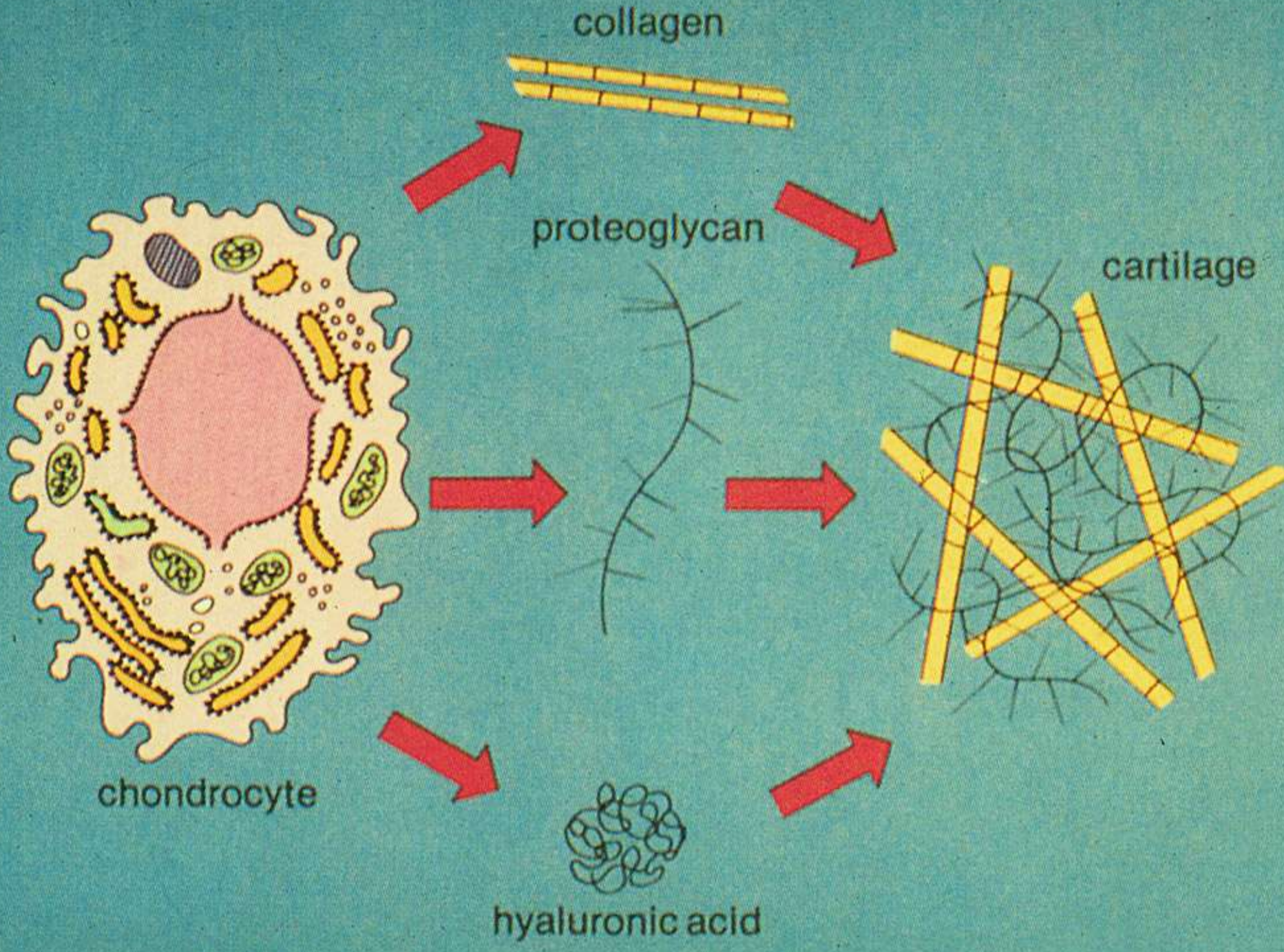
tangential zone

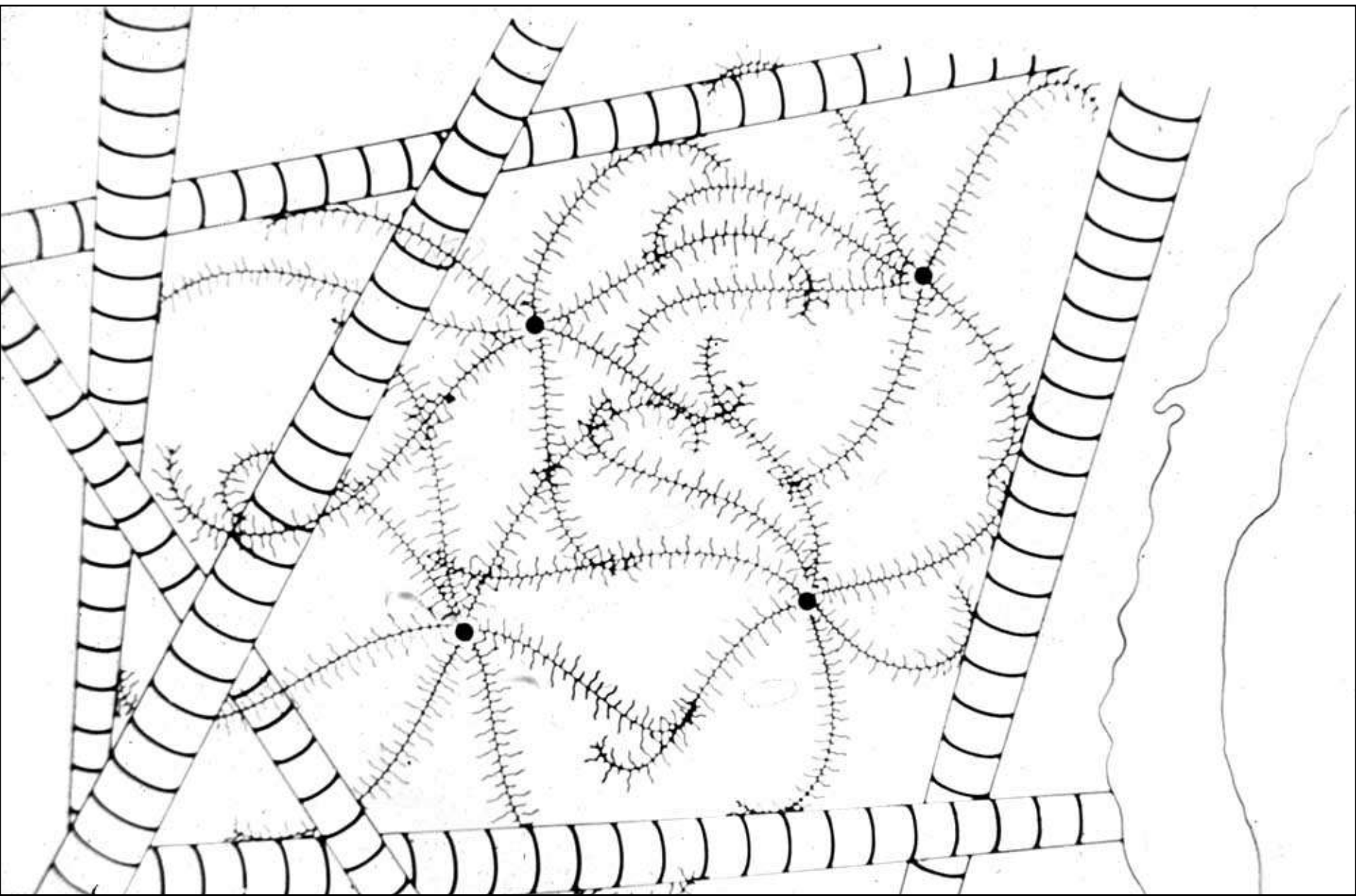
transitional zone

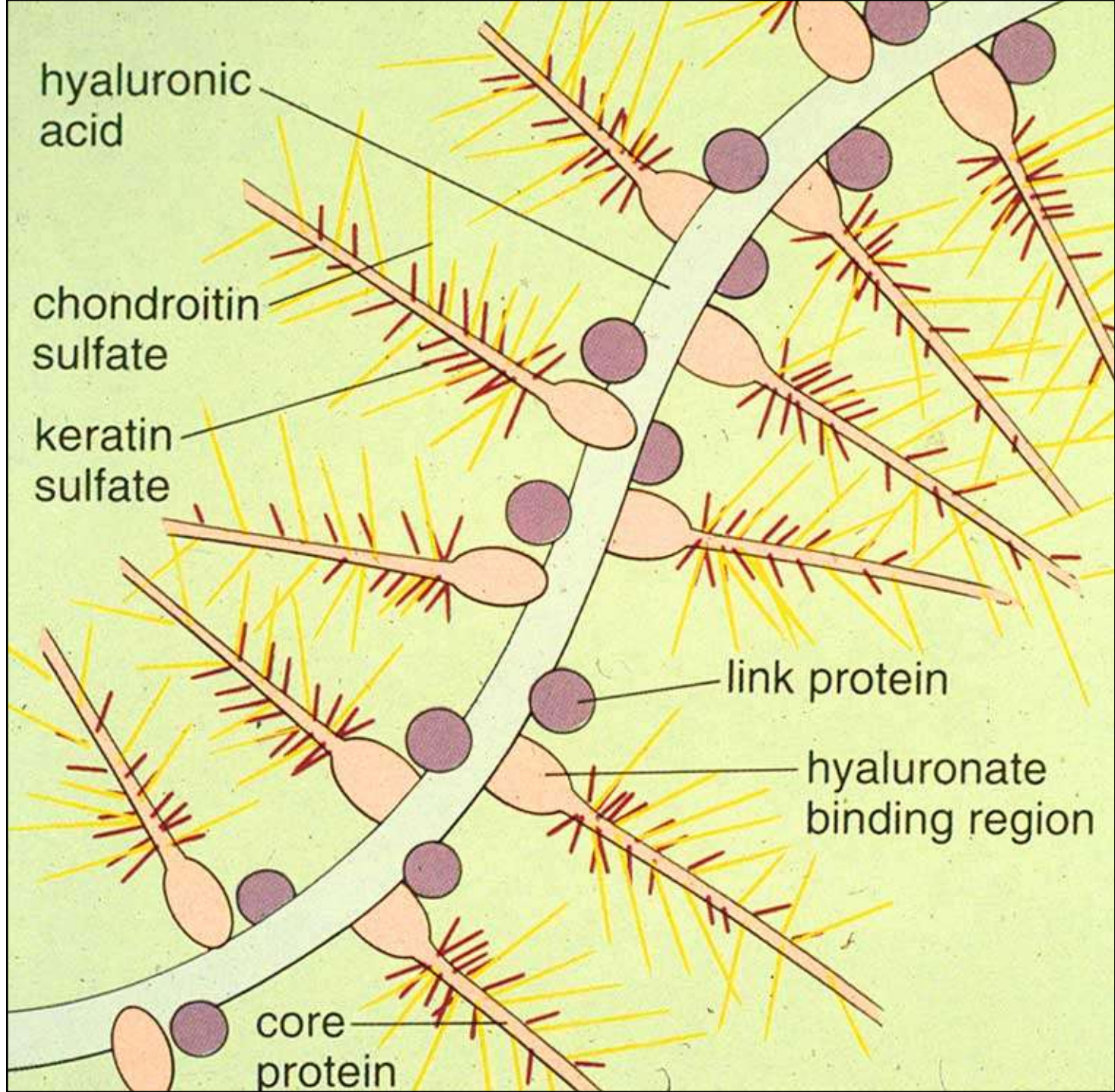
radial zone

subchondral bone









hyaluronic acid

chondroitin sulfate

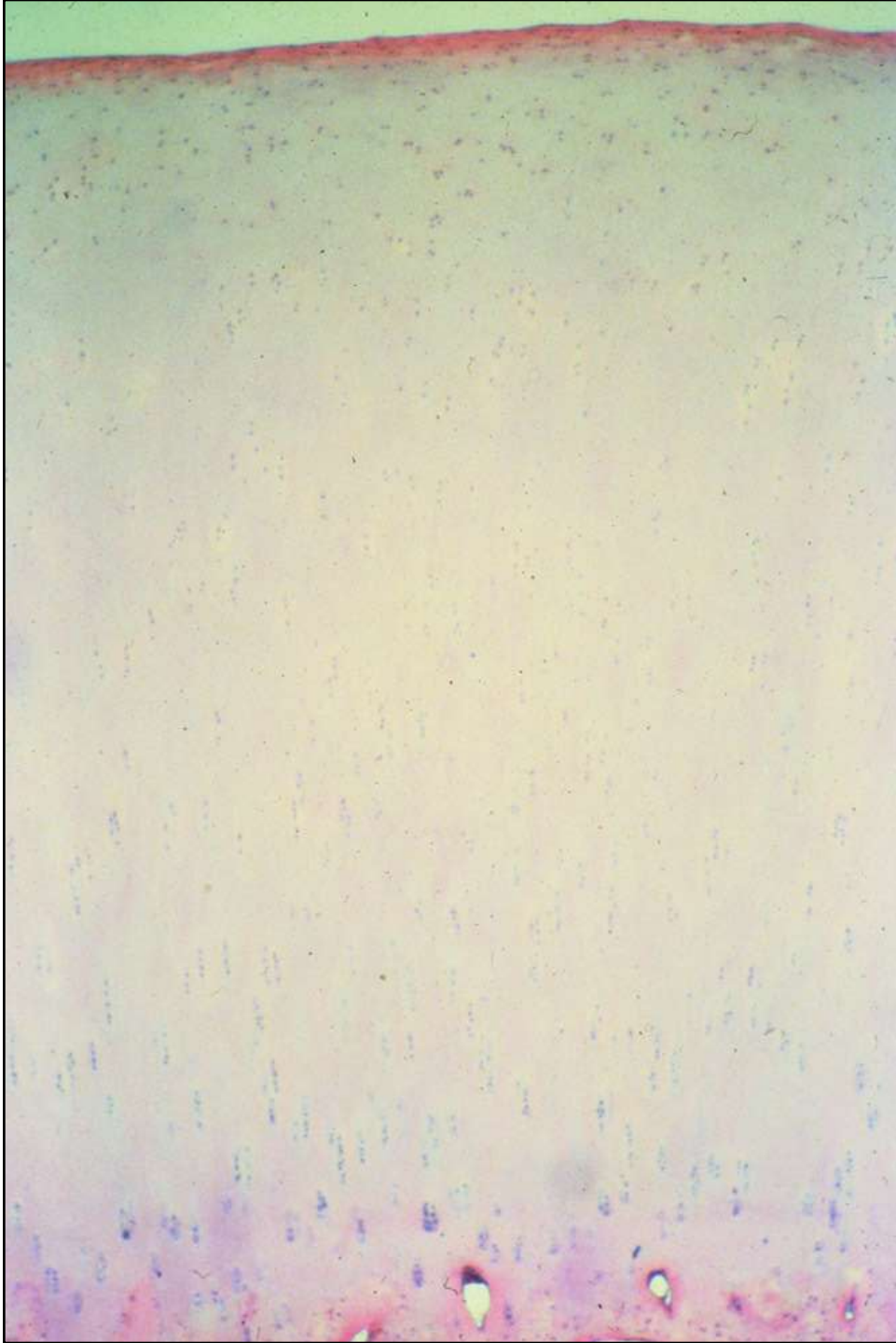
keratin sulfate

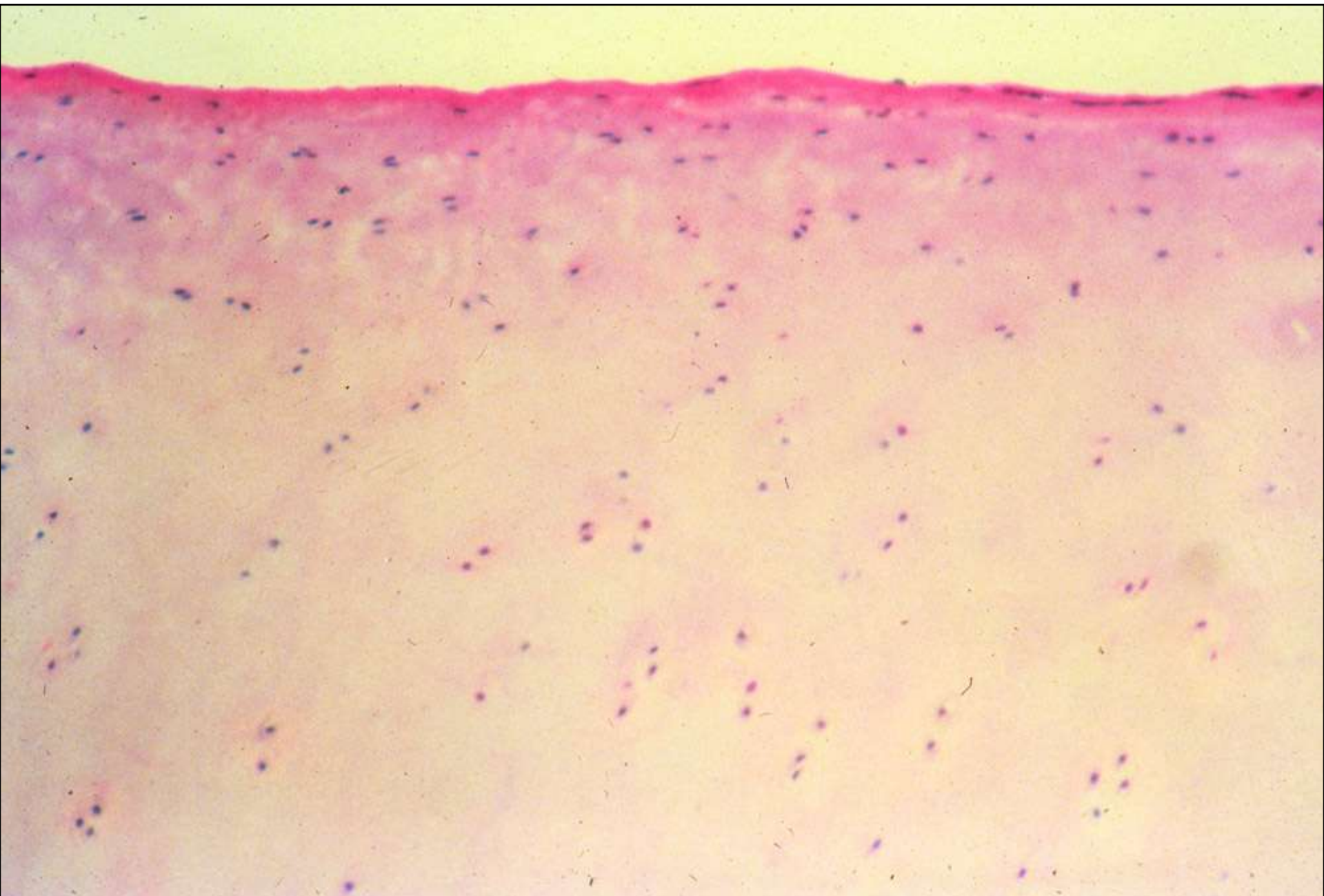
link protein

hyaluronate binding region

core protein

Normal Surface



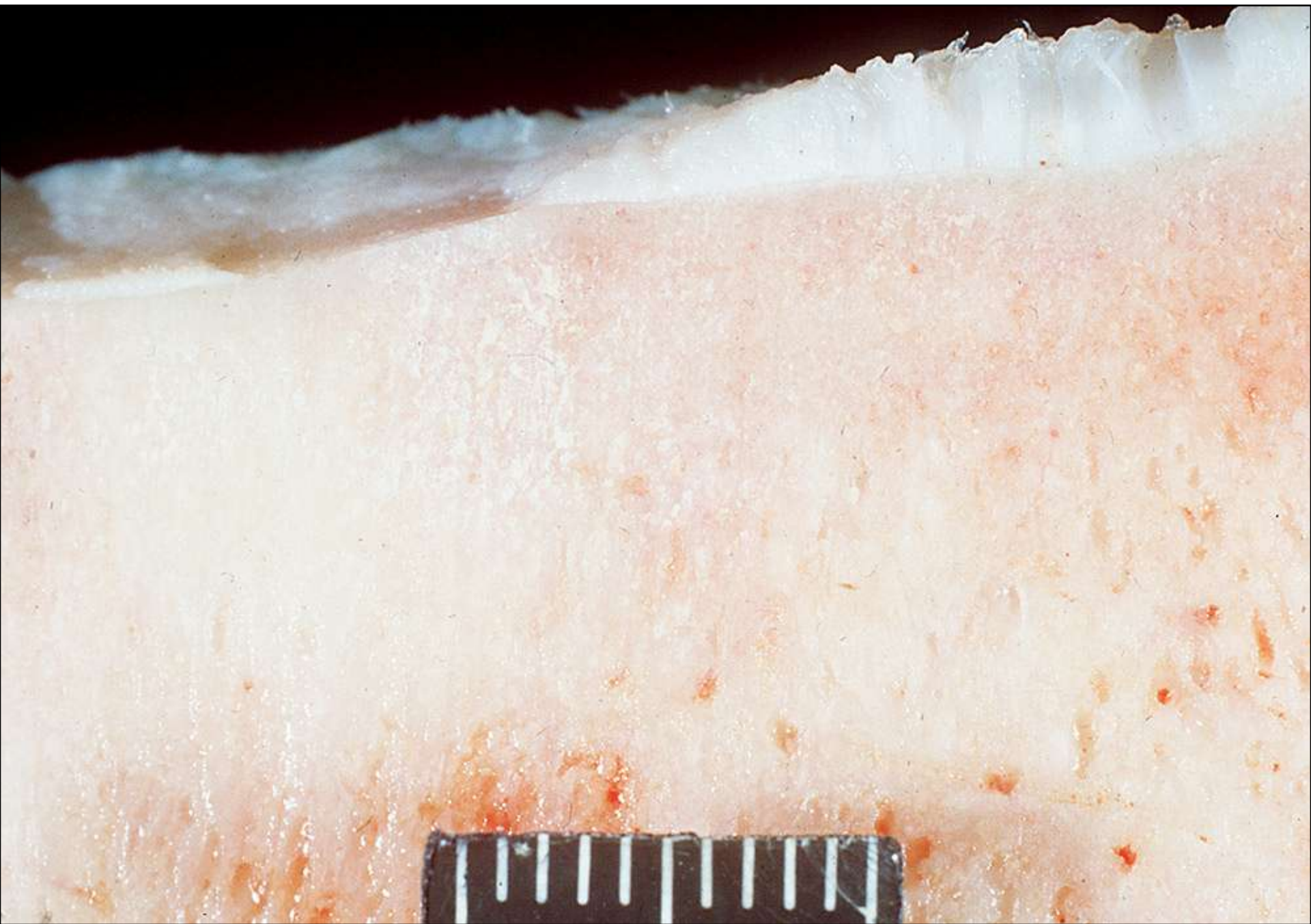


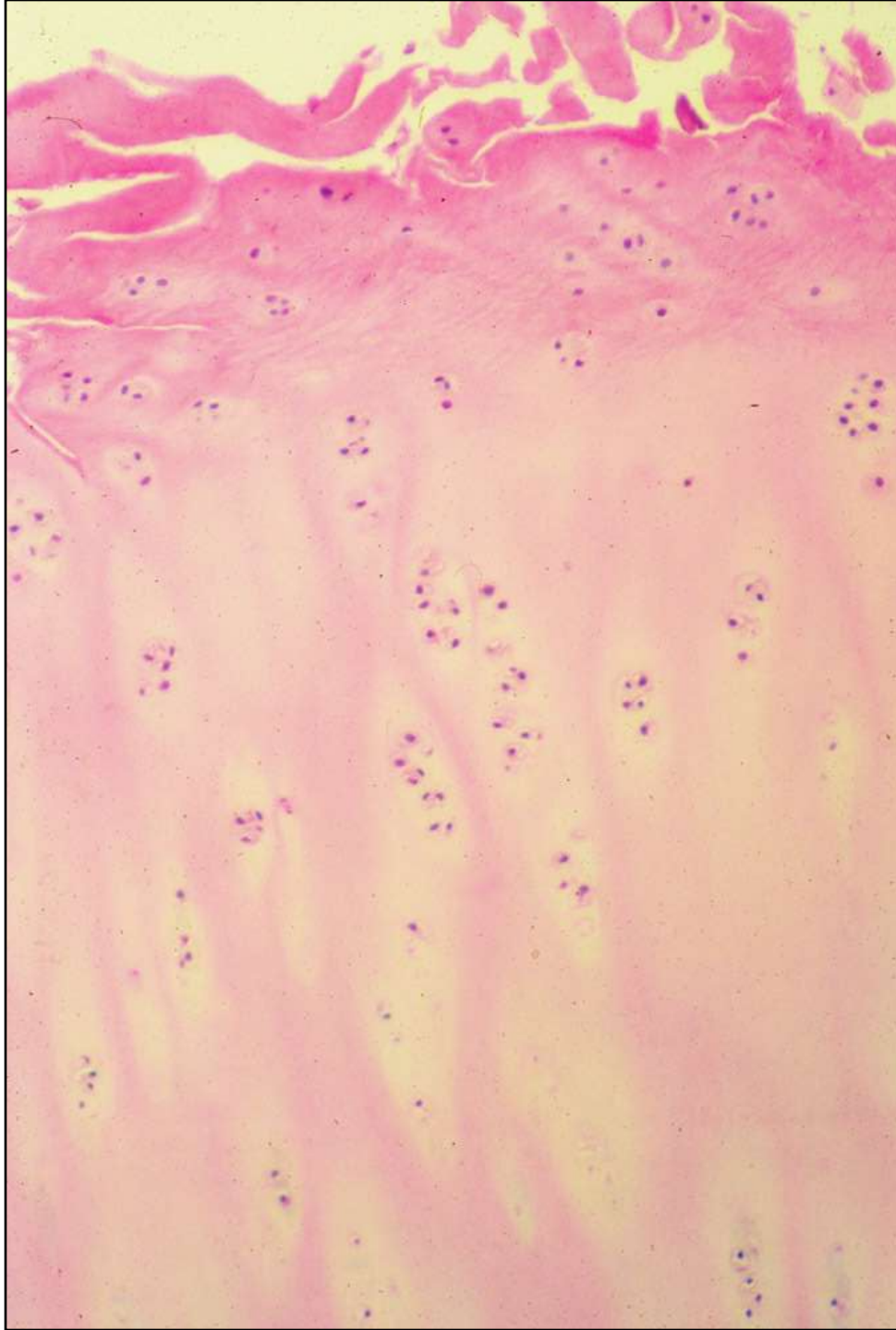
Degenerative Joint Disease

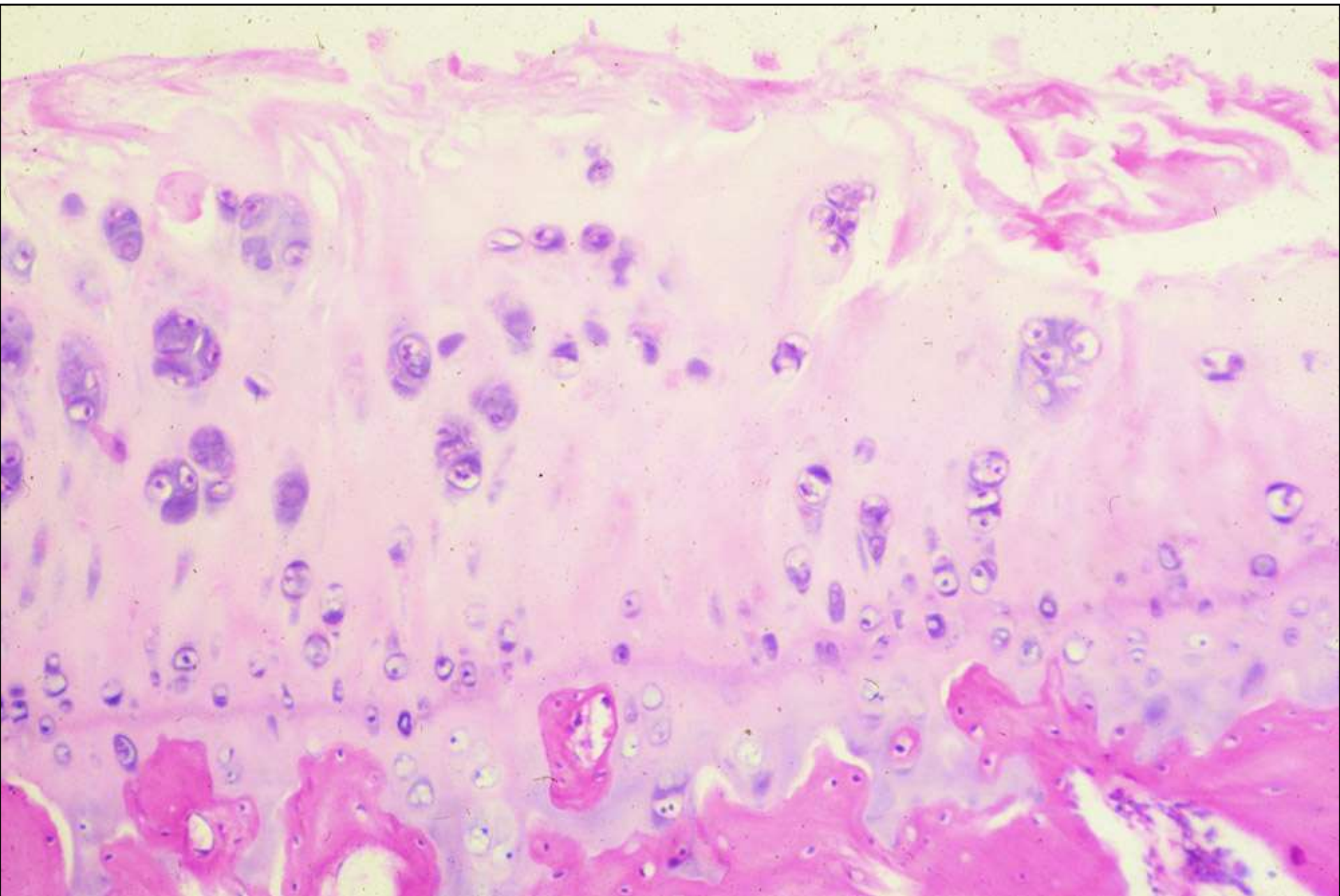


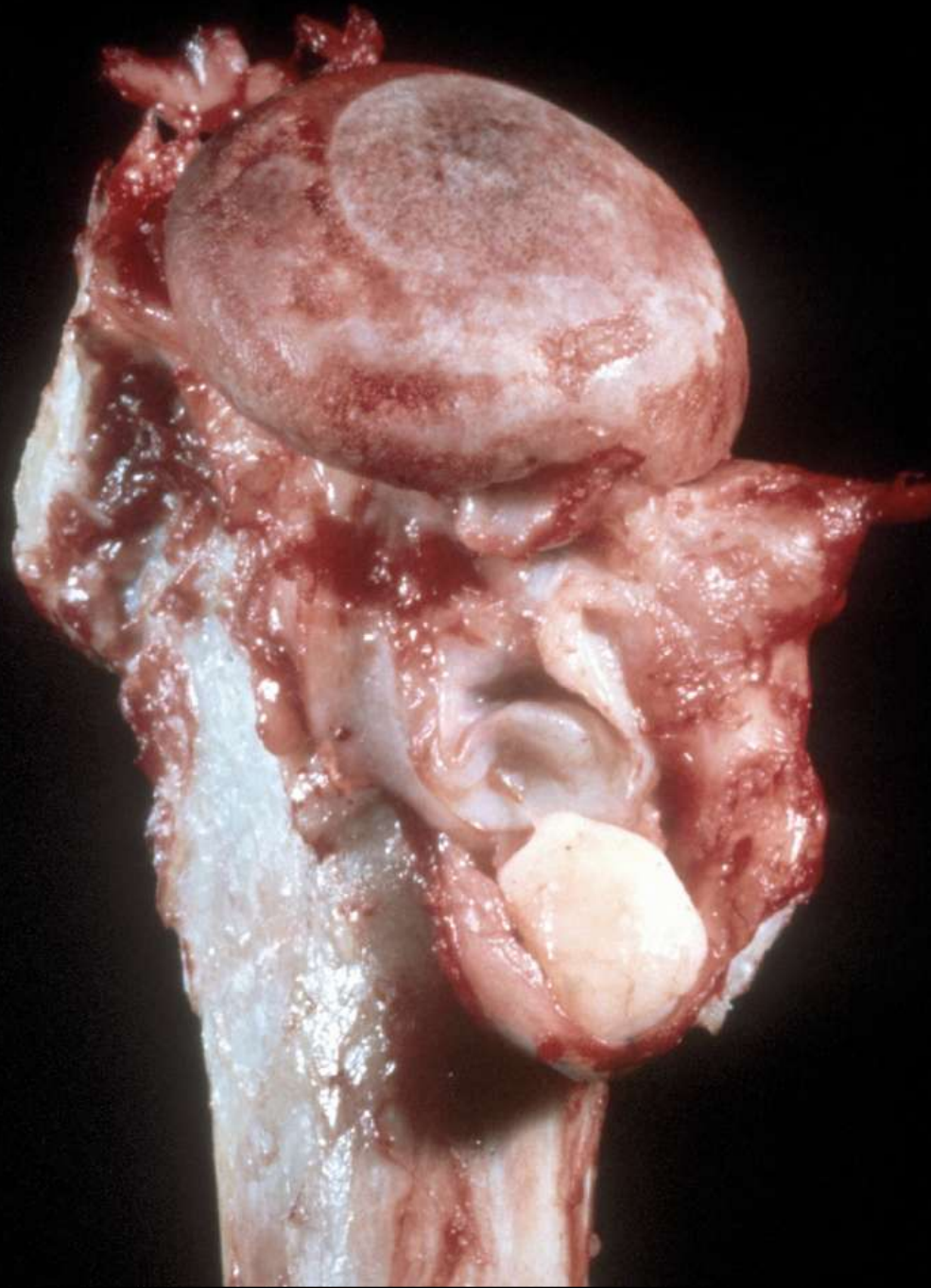


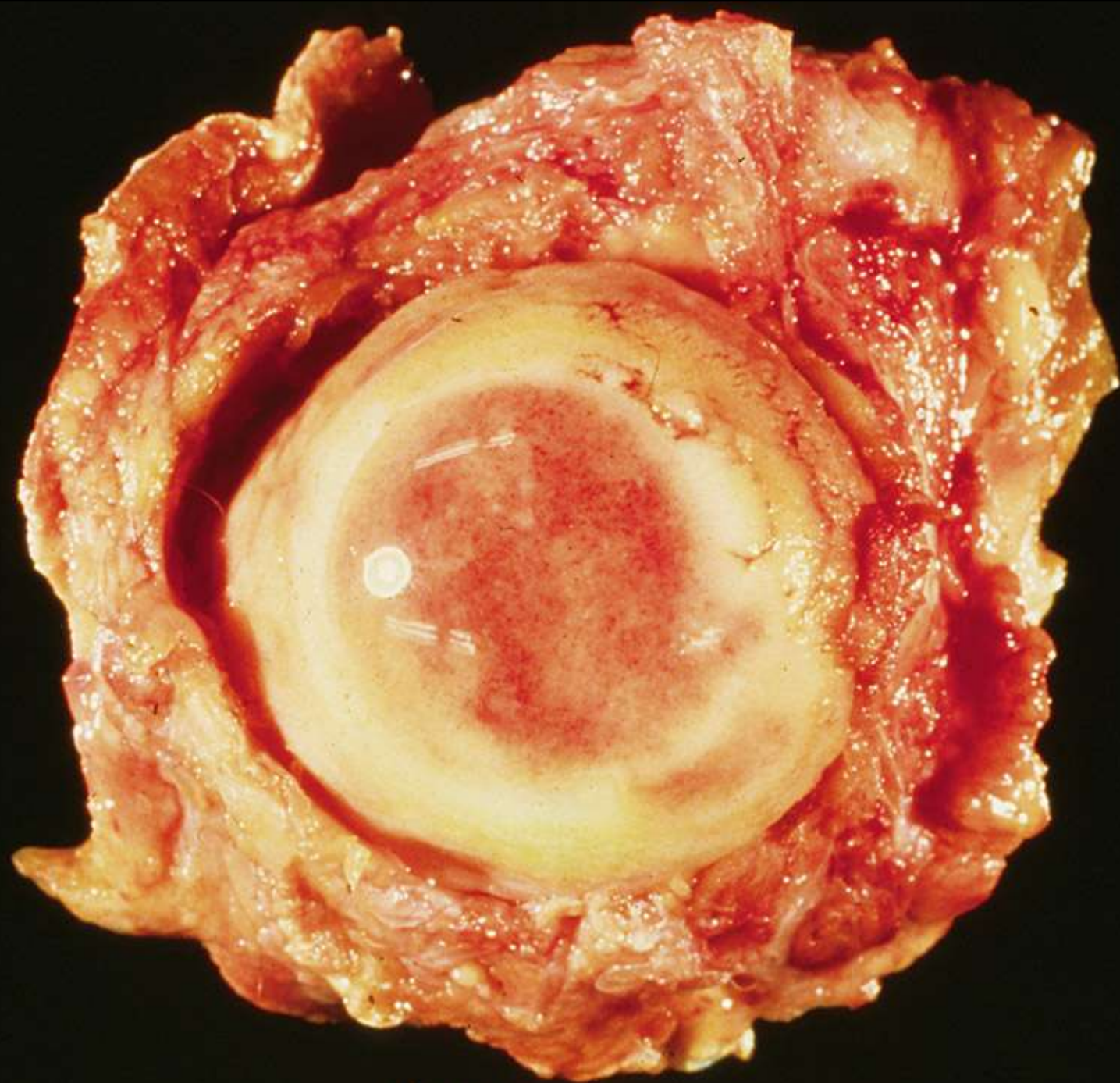


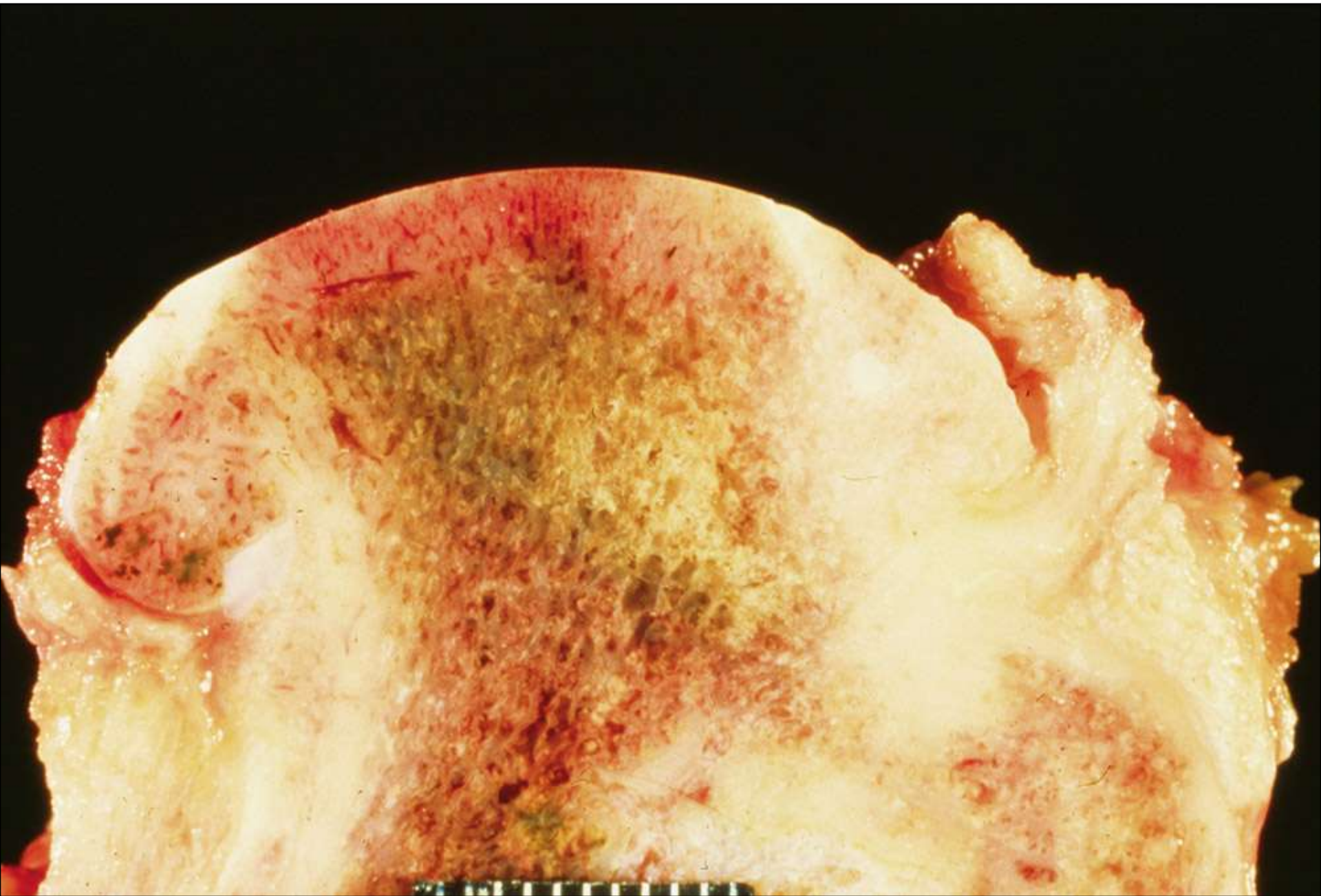


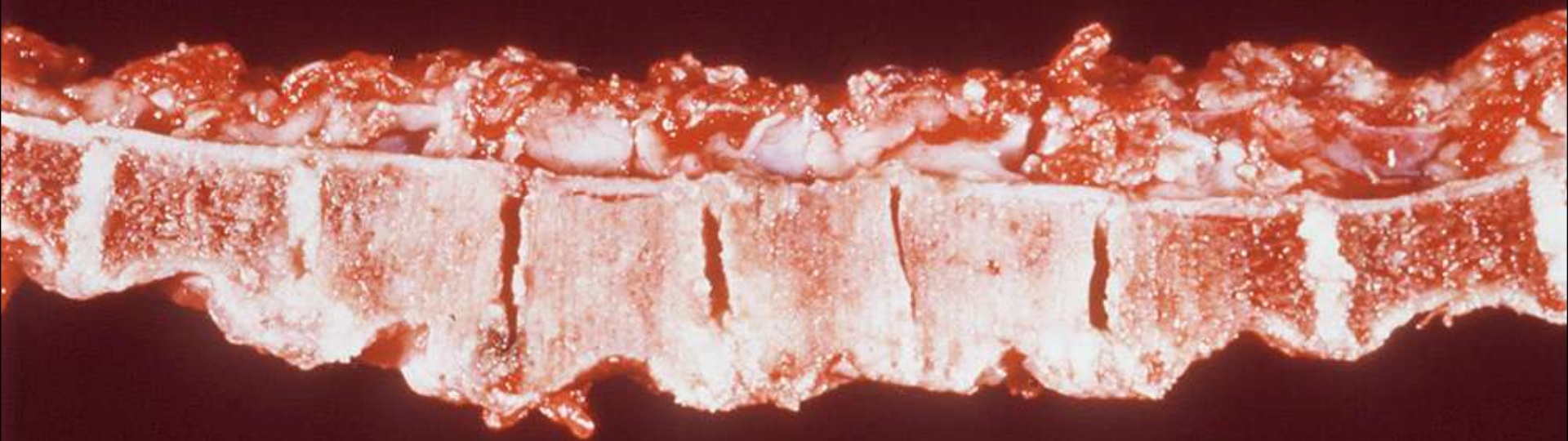


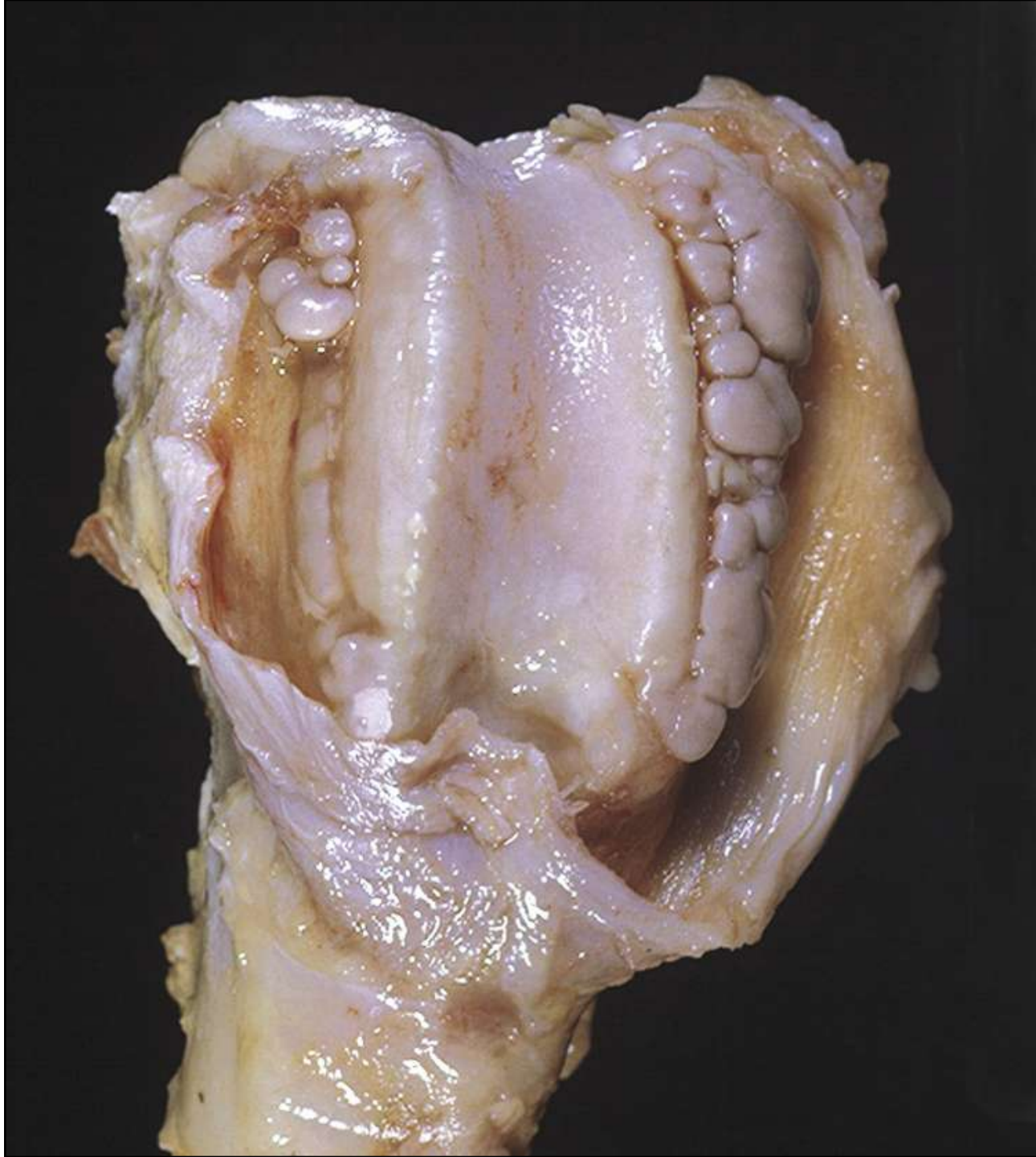






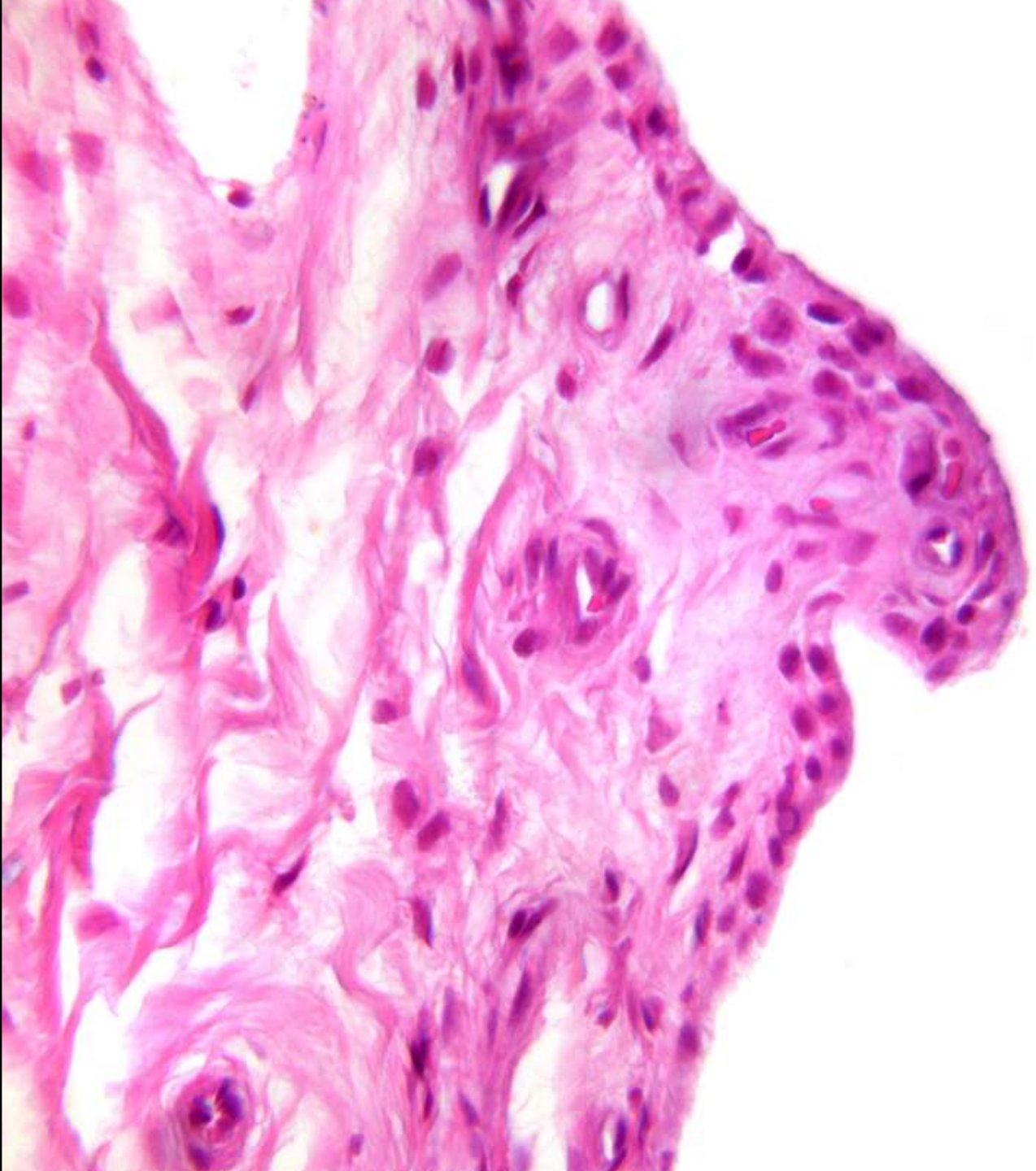




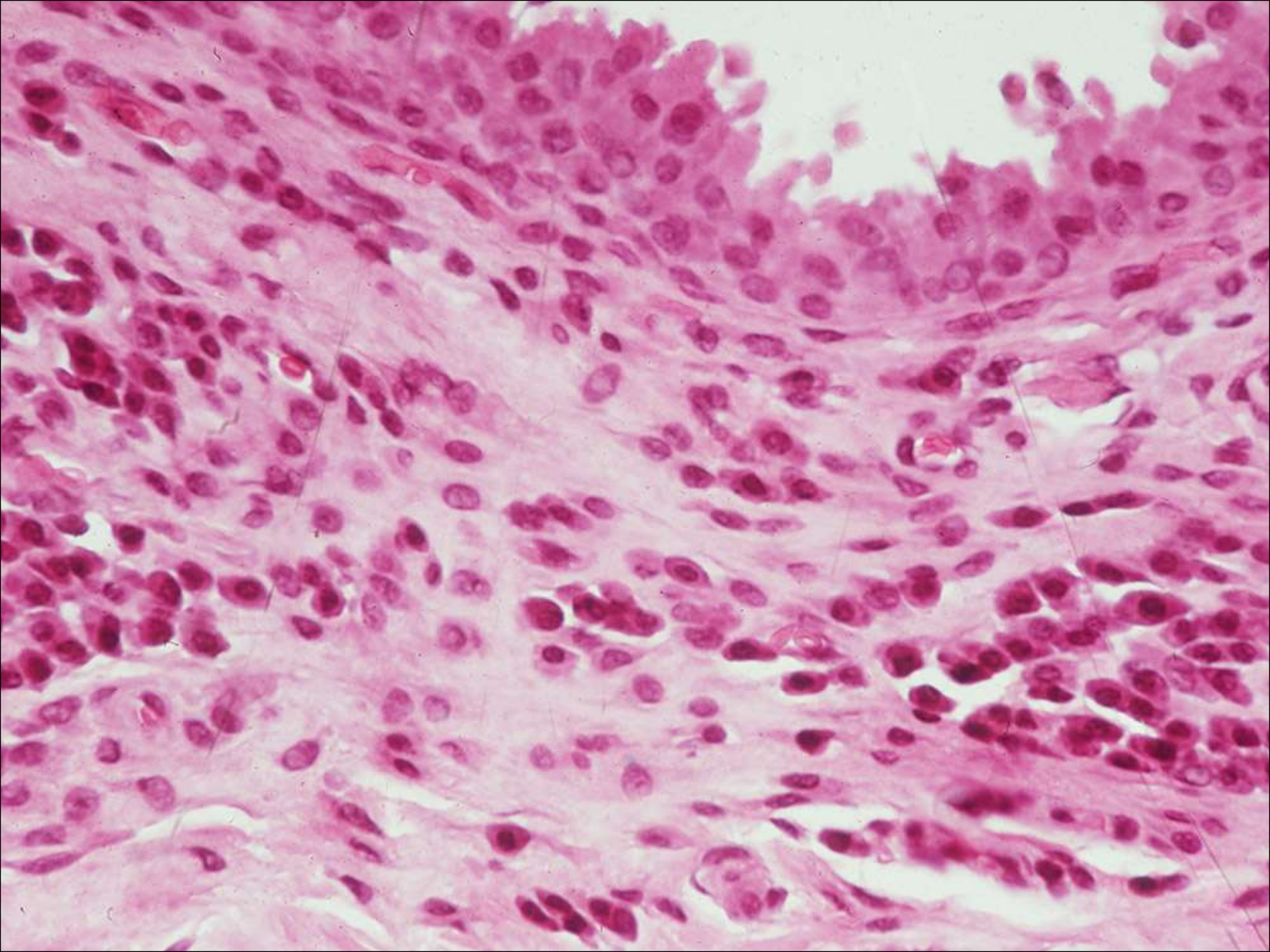




Normal Synovium



Synovial Lesions in Degenerative Joint Disease



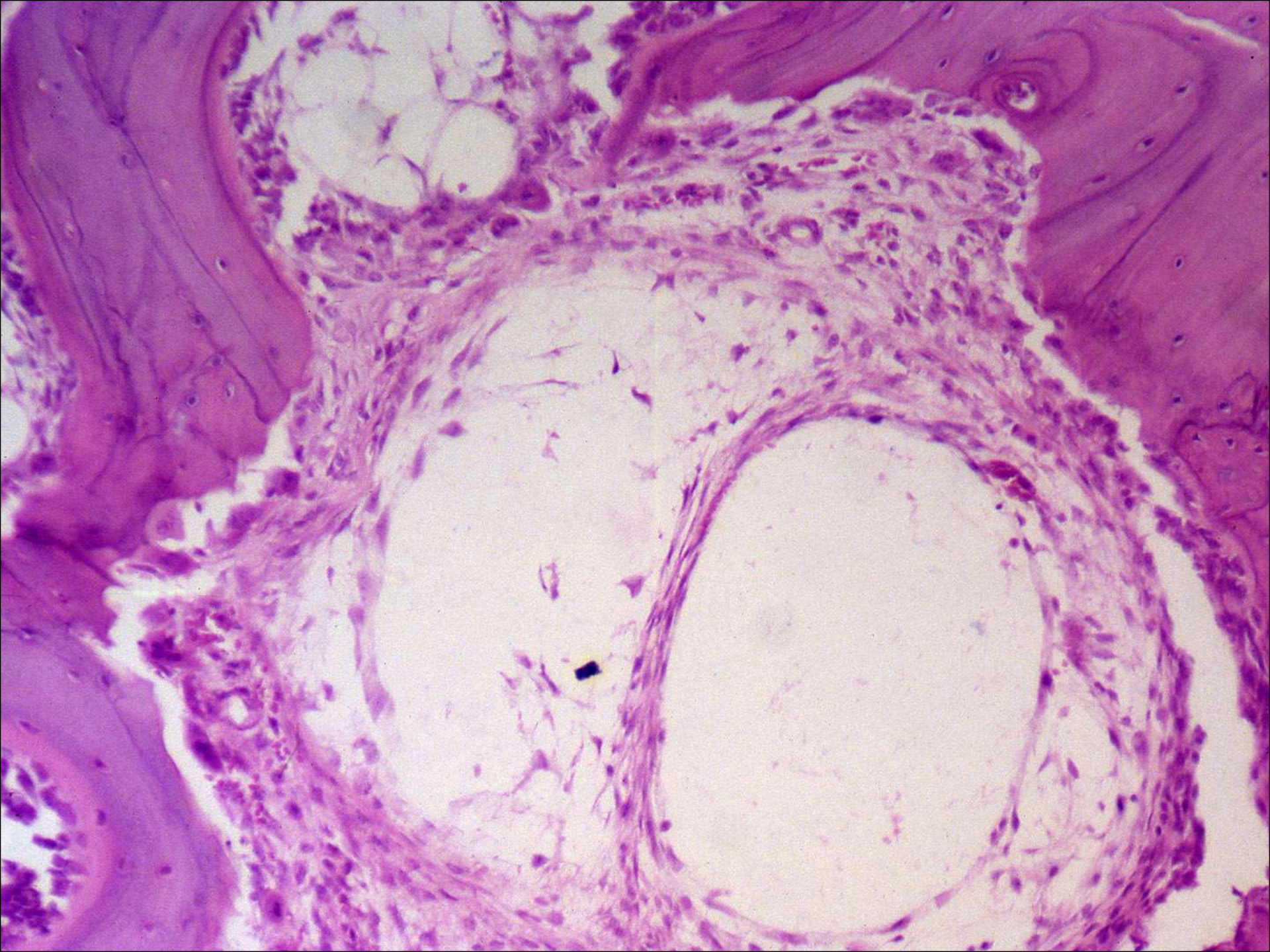
Ankylosis

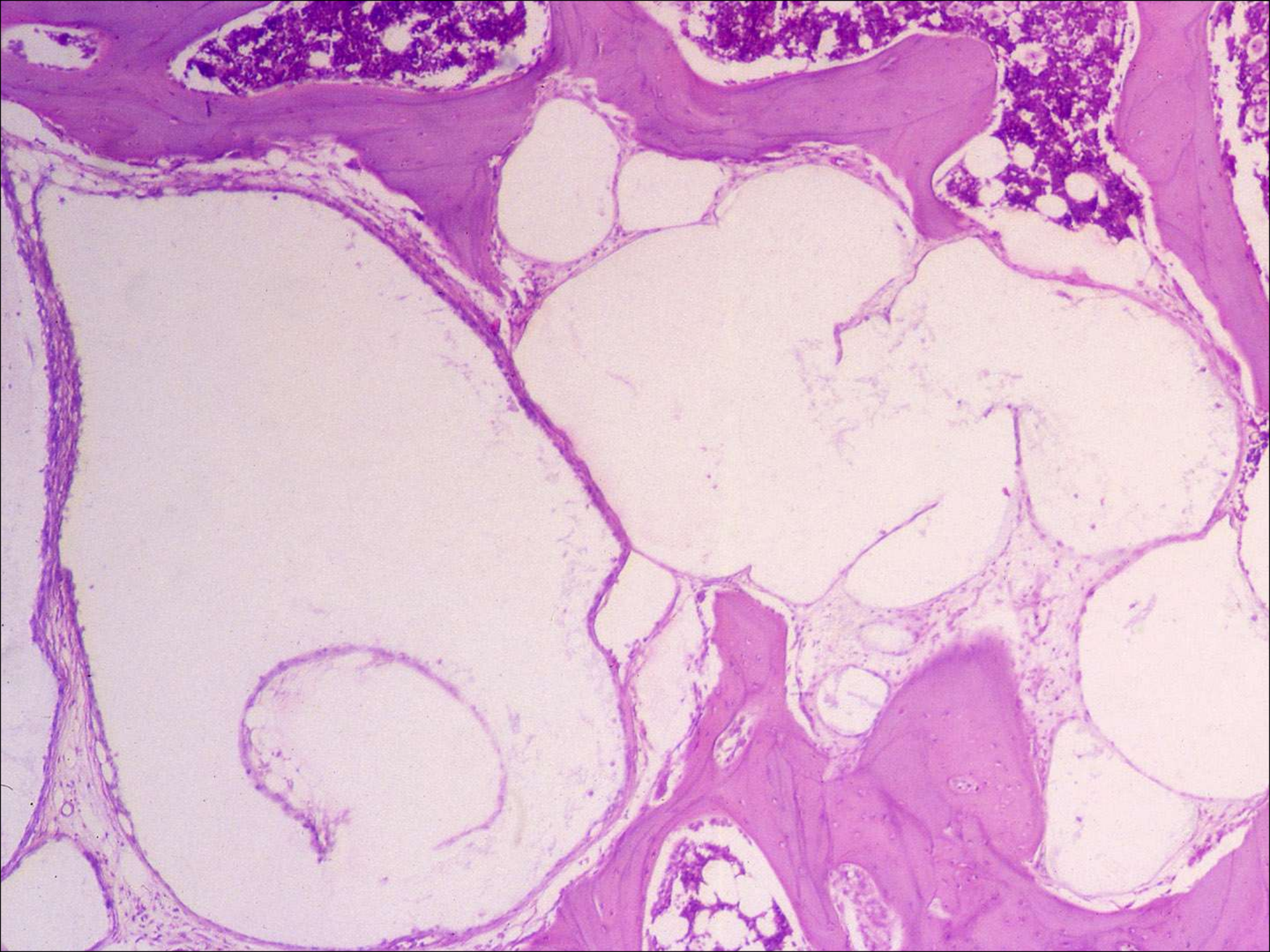


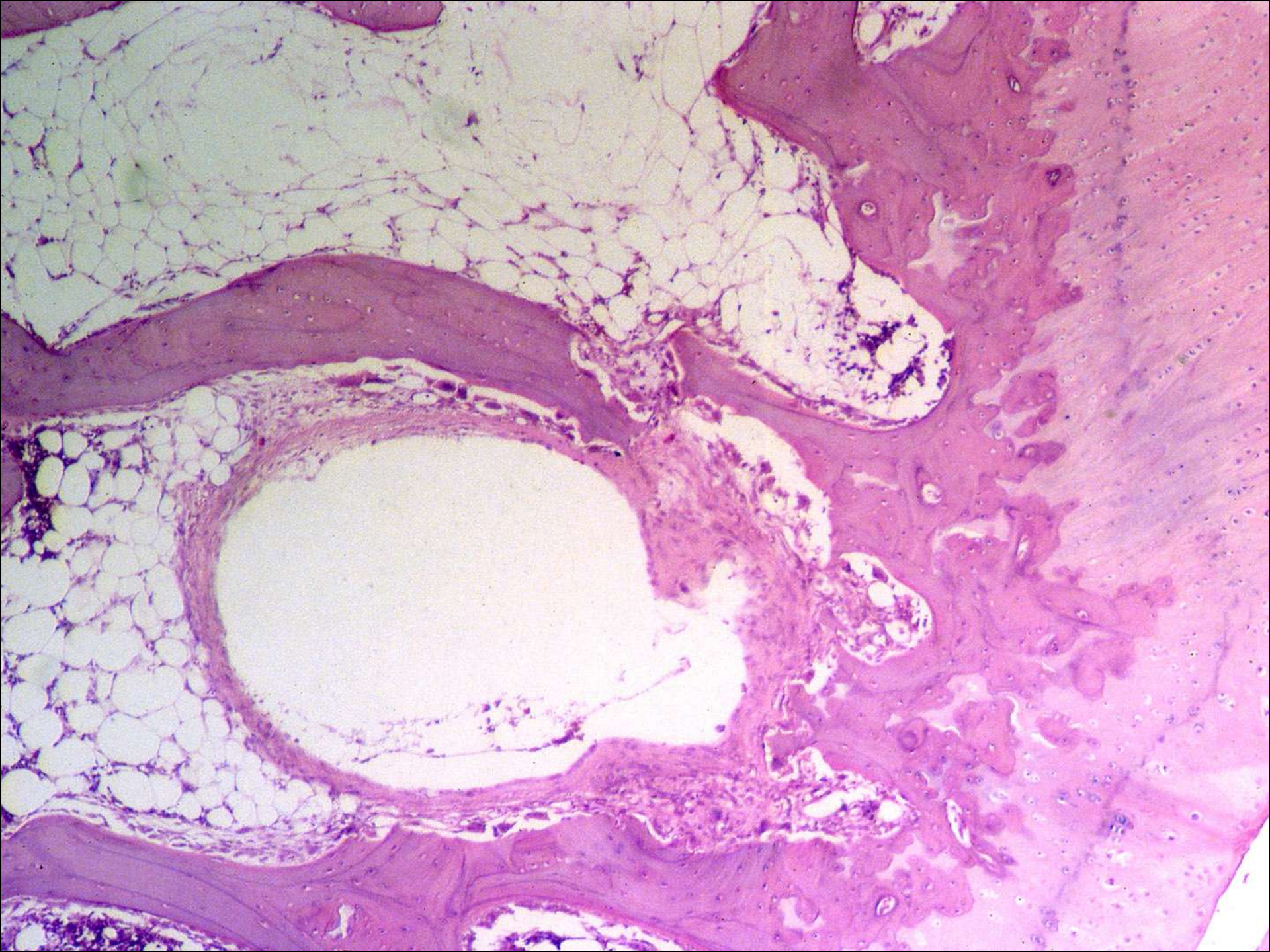
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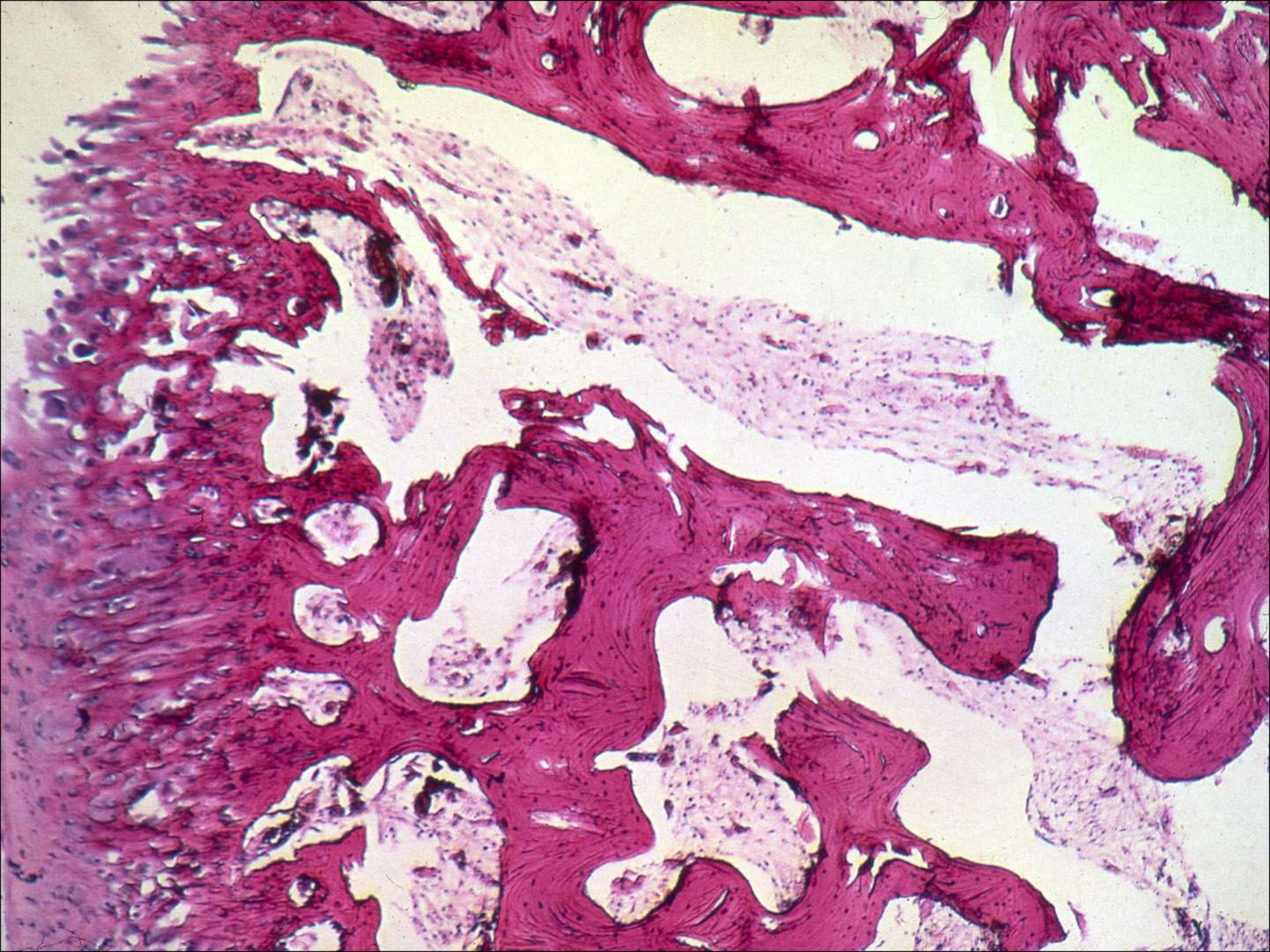
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Subchondral Cyst Formation in Degenerative Joint Disease



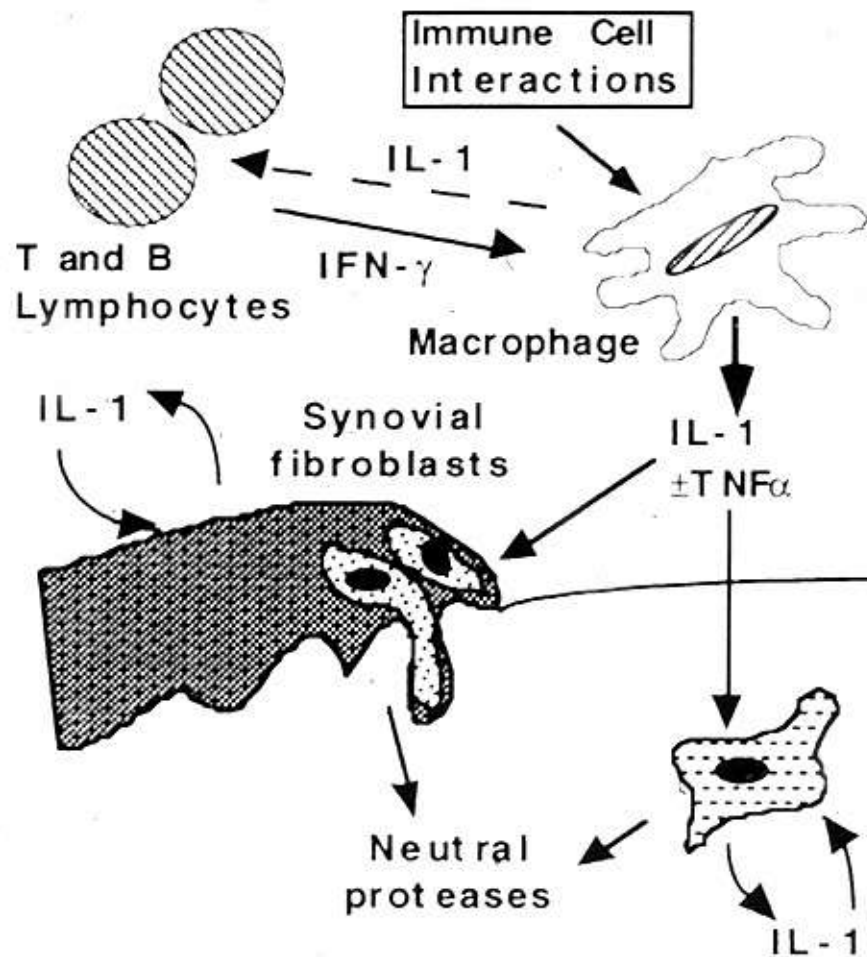




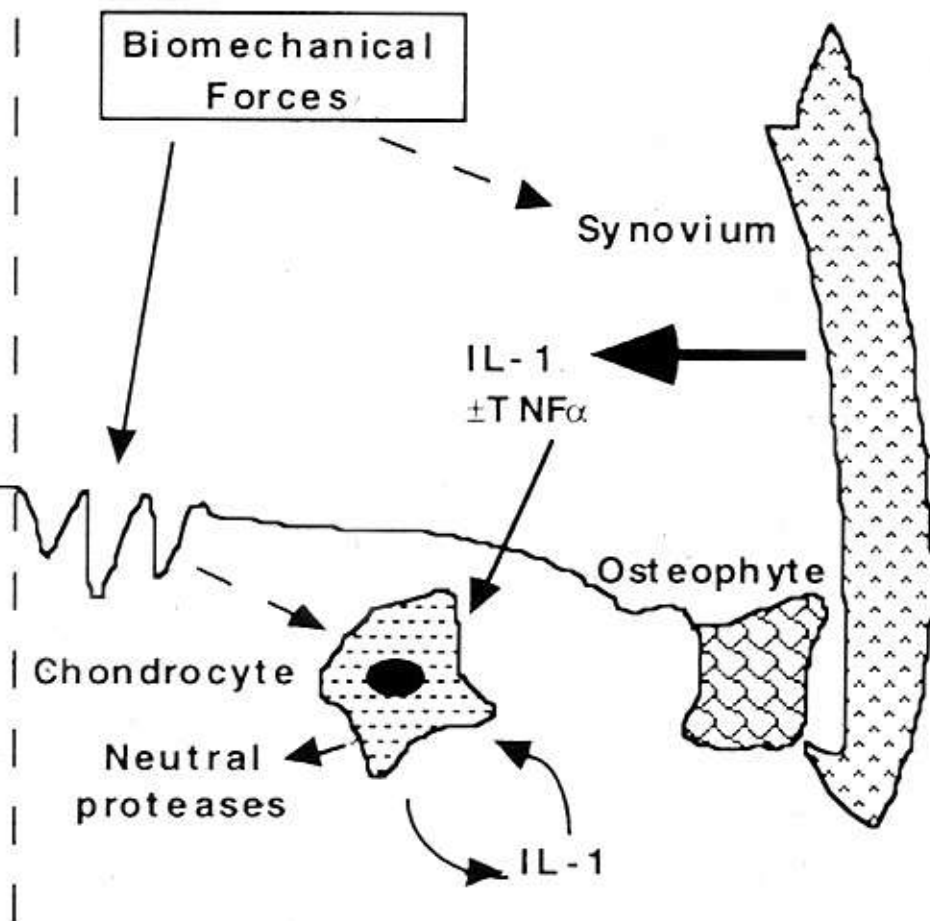


Similarities Between Pathogenesis of Degenerative and Inflammatory Joint Disease

Rheumatoid Arthritis



Osteoarthritis



Role of Subchondral Sclerosis in Pathogenesis of Degenerative Joint Disease

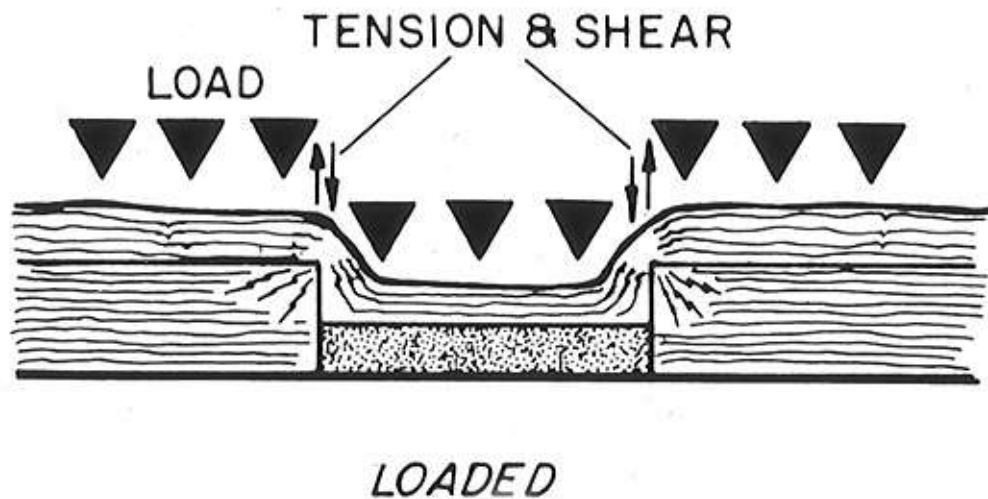
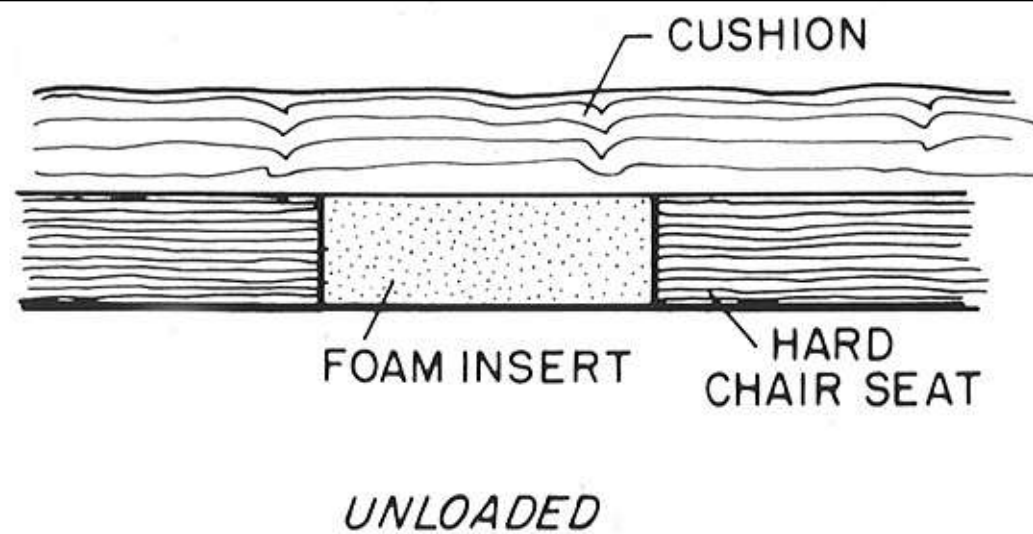
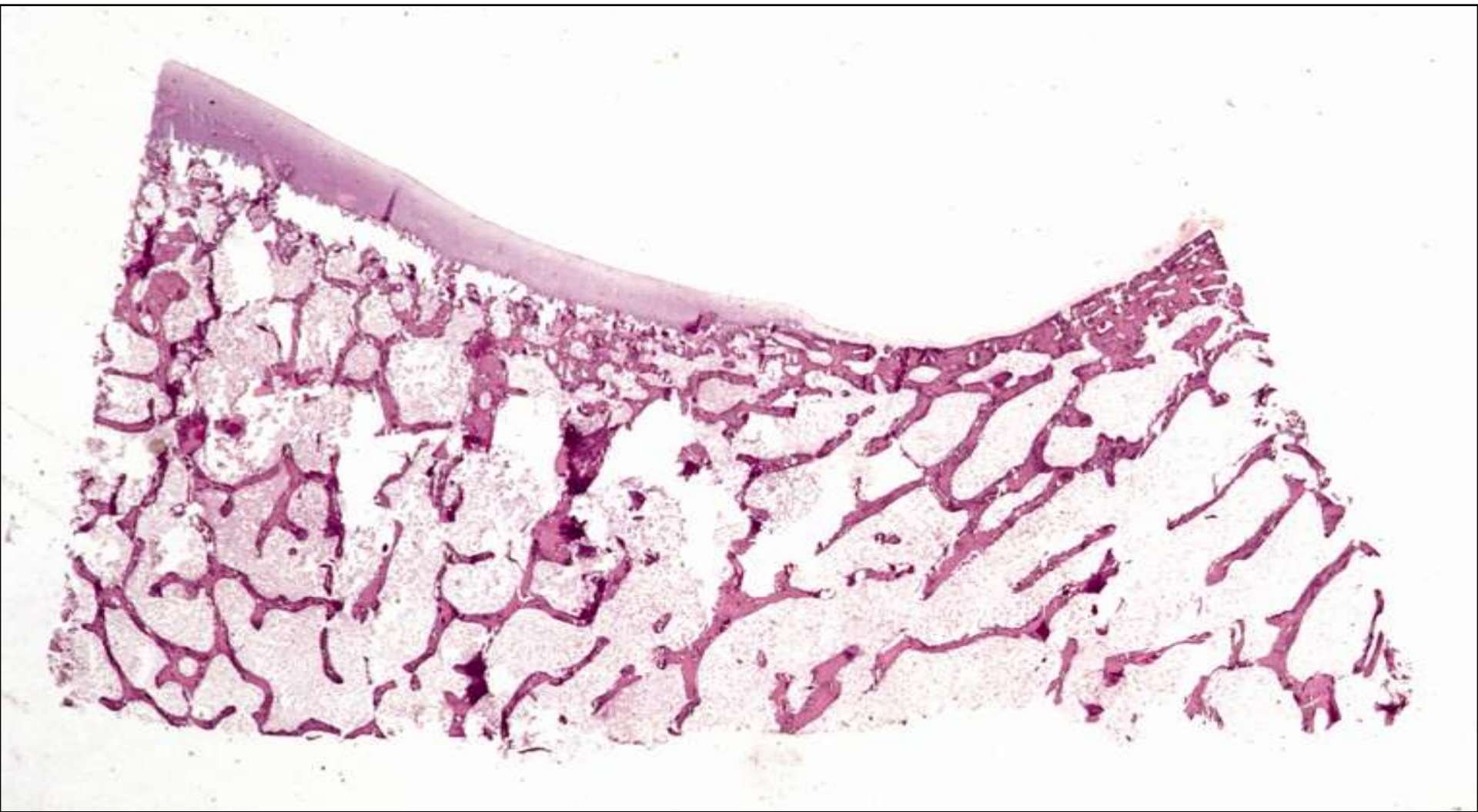


FIG. 2. Stresses in cartilage caused by stiffness variation in the subchondral bone. The analogy is a cushion (the cartilage) upon a hard chair seat, with a foam rubber insert in the seat.

Synovial Fossae

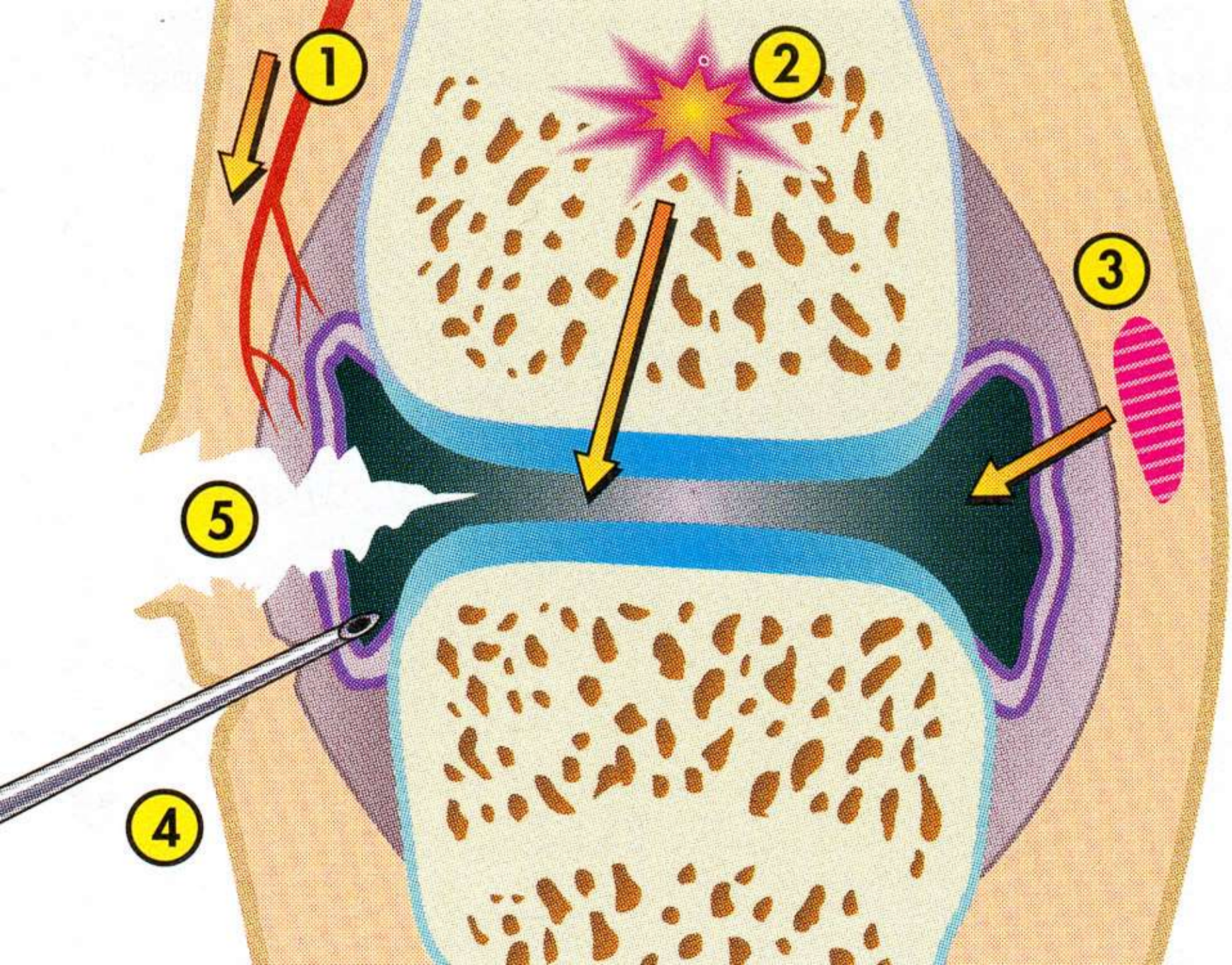
- Depressions in non-weight bearing surfaces of larger joints of horse, ruminants, pigs
- Covered by fibrous layer but no articular cartilage
- Develop in first 6 months of life (not present at birth)
- Bilateral

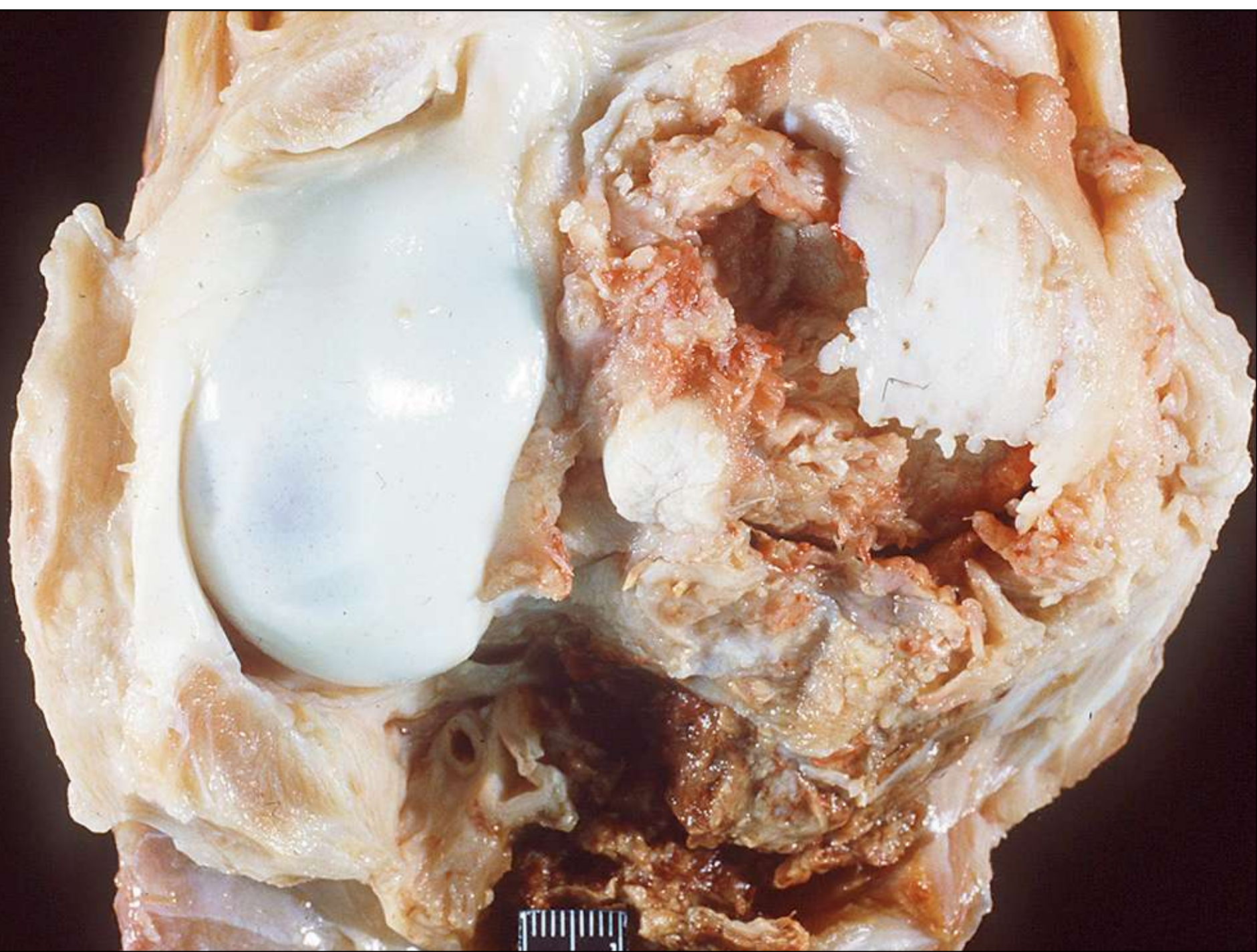




Inflammatory Diseases of Joints

Routes of Entry for Infection

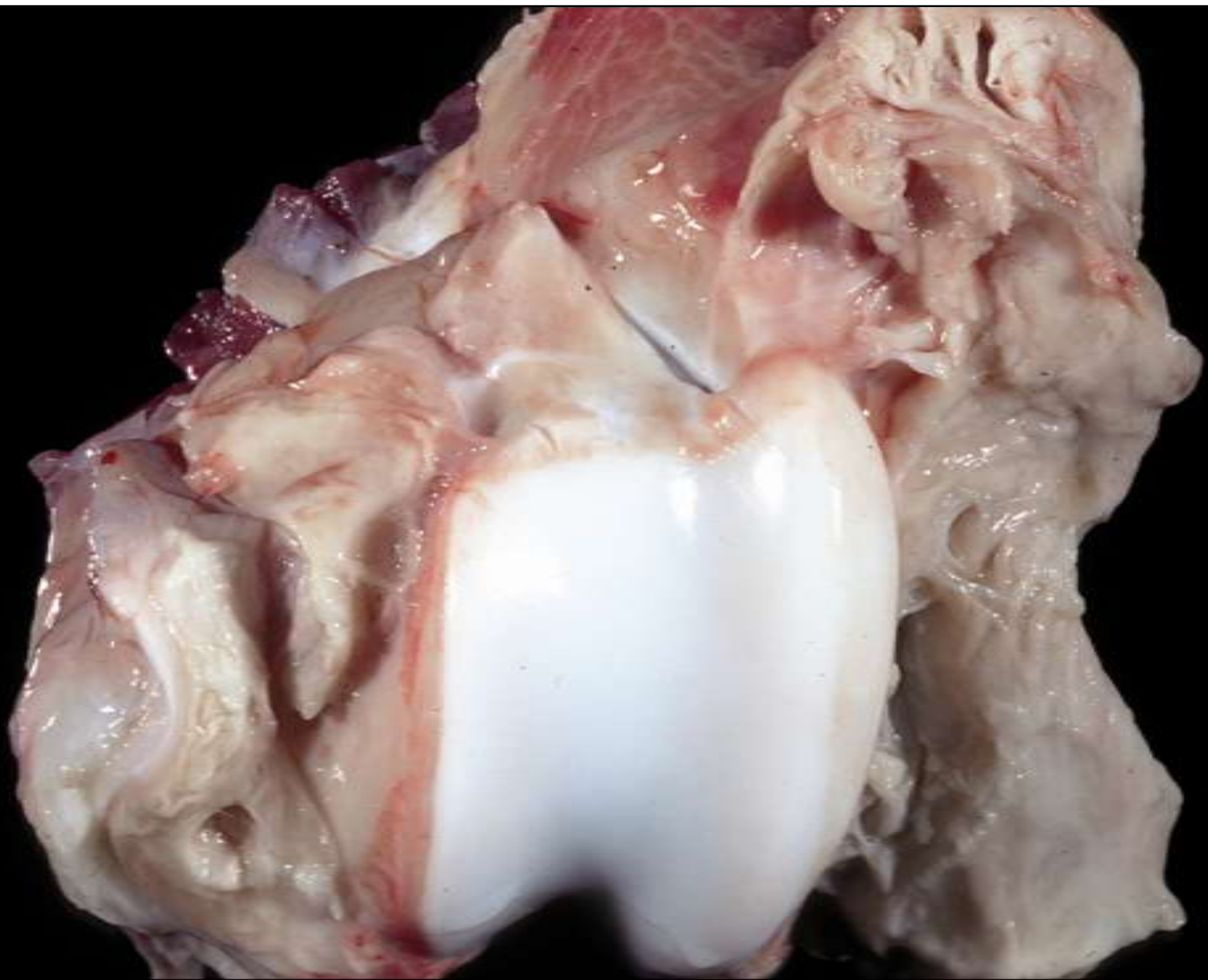




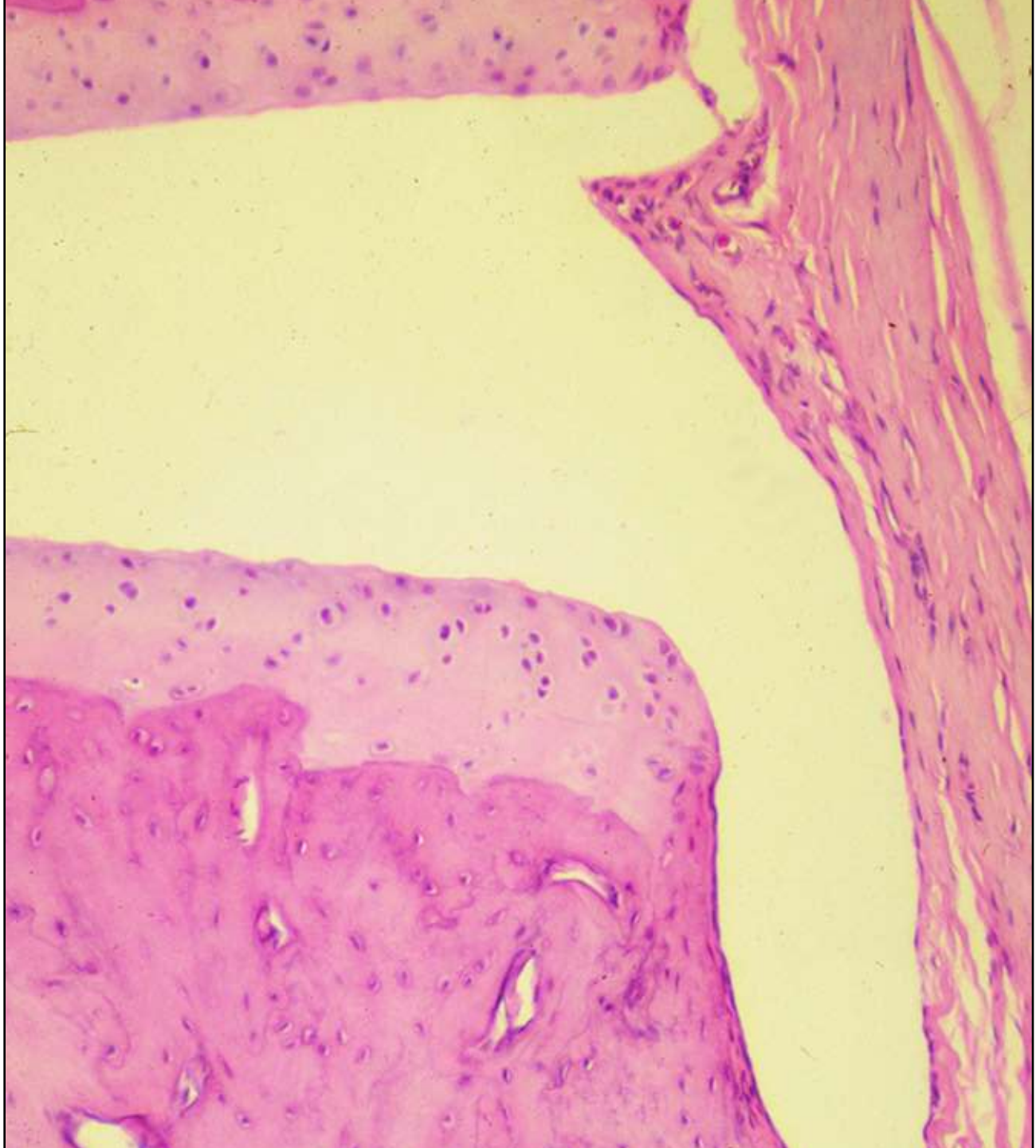


Acute Inflammation

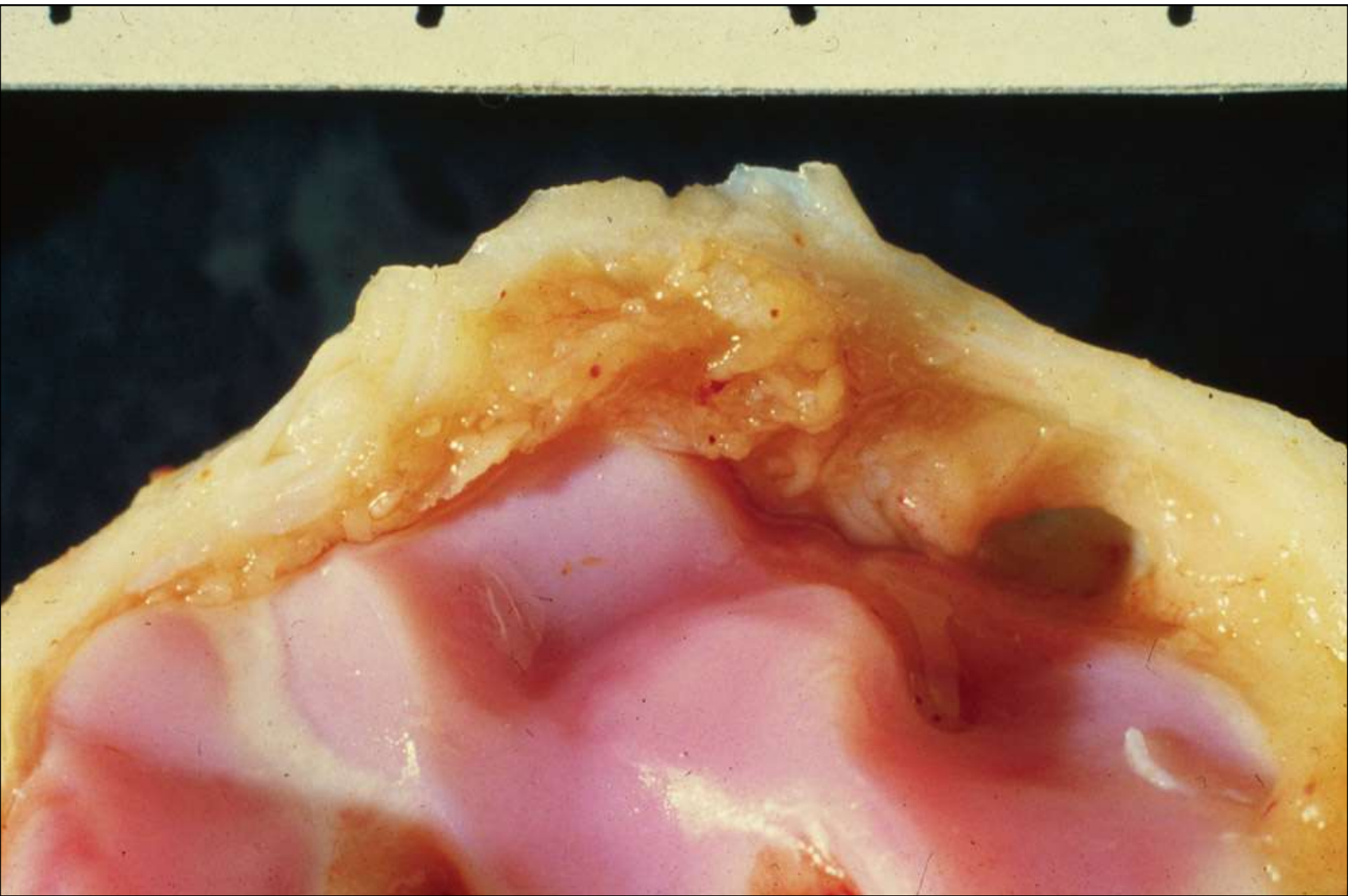




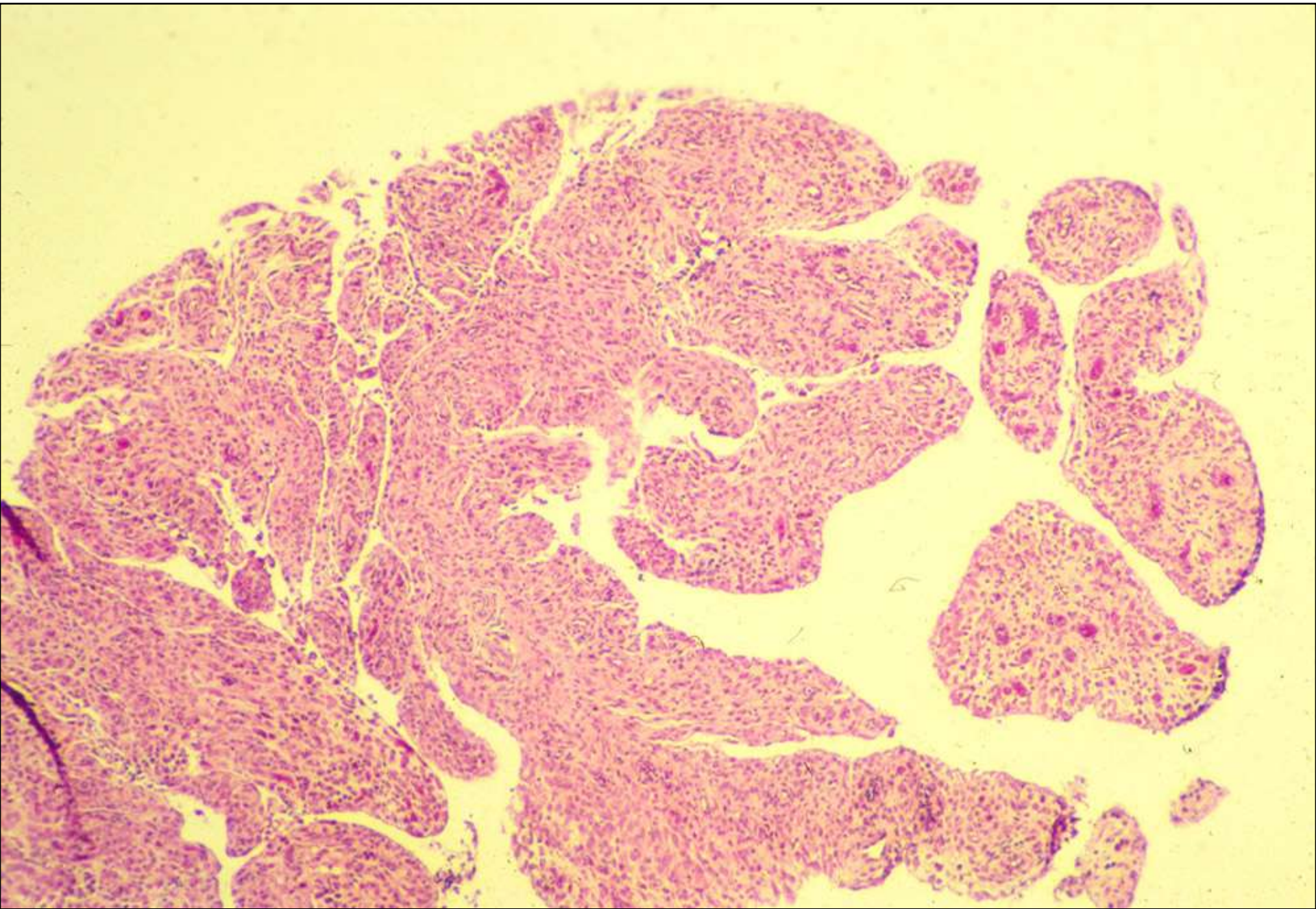


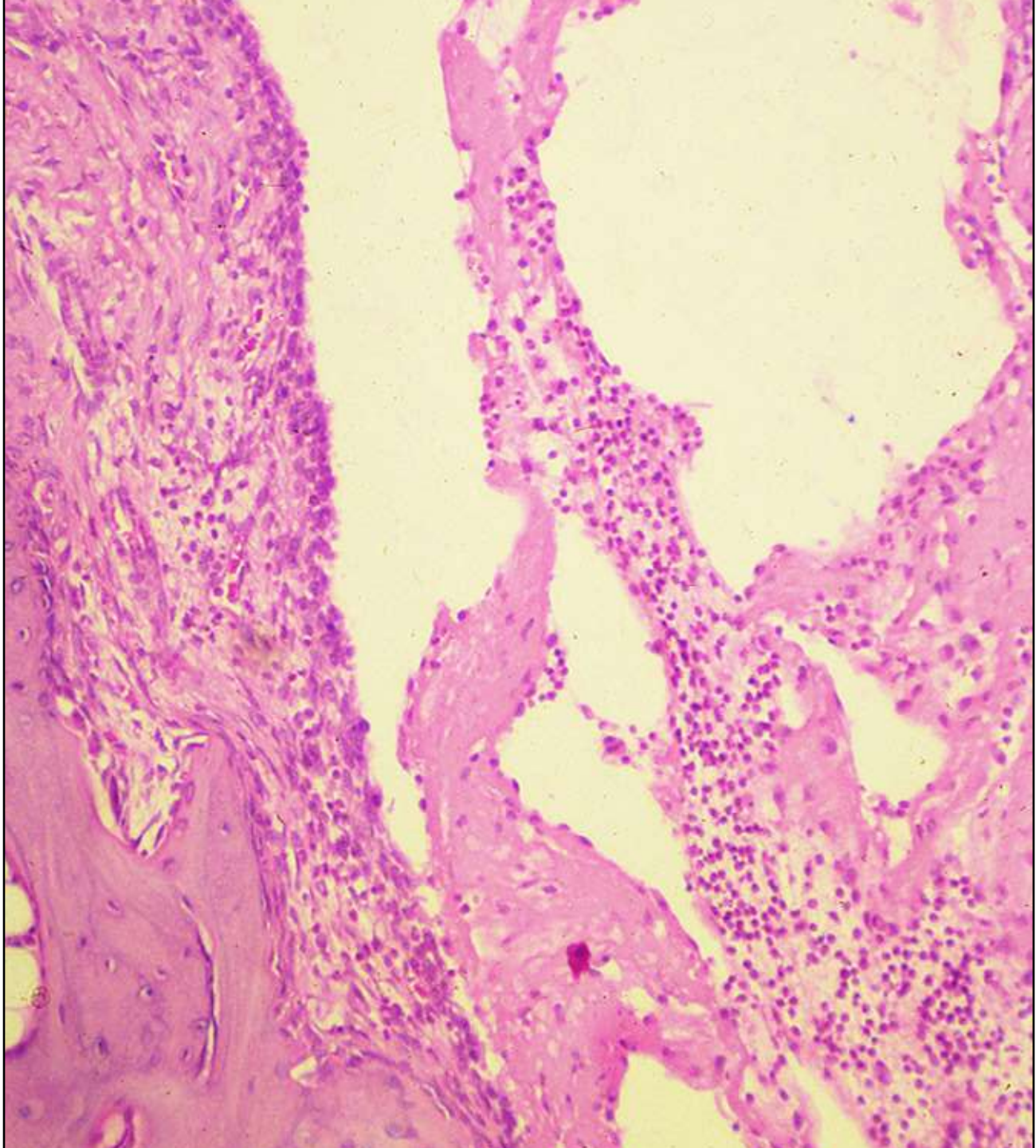


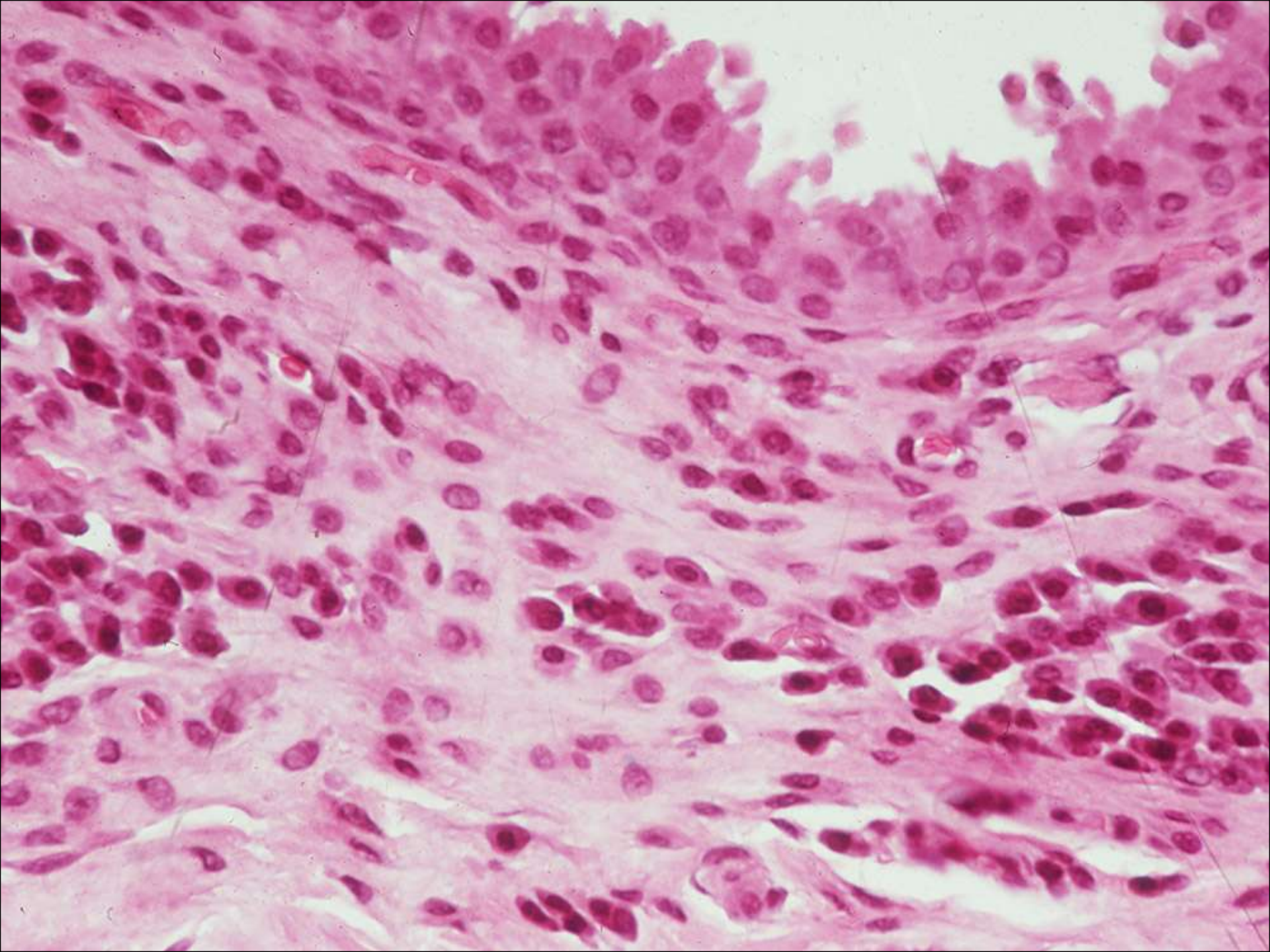
Subacute Inflammation



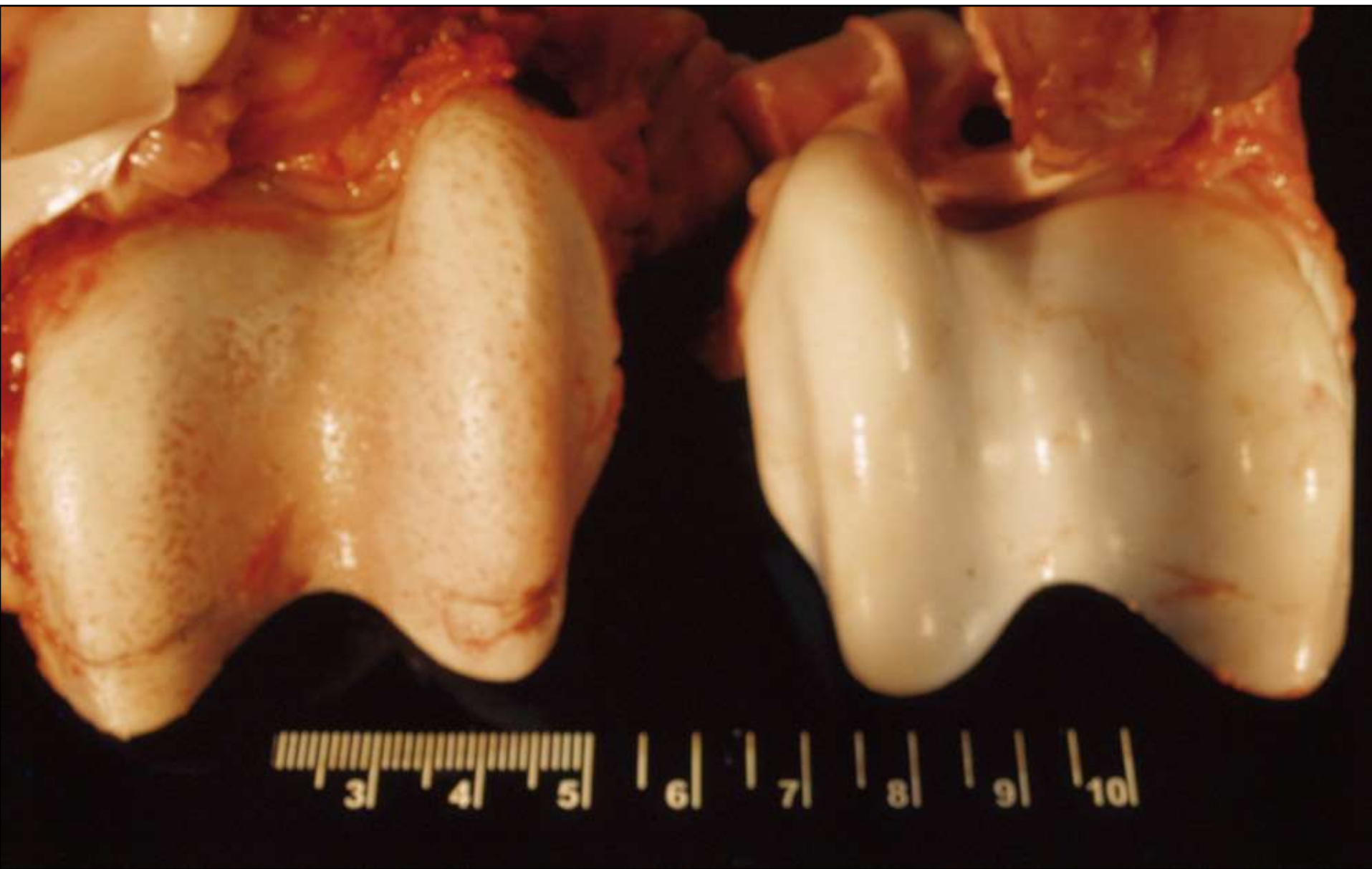








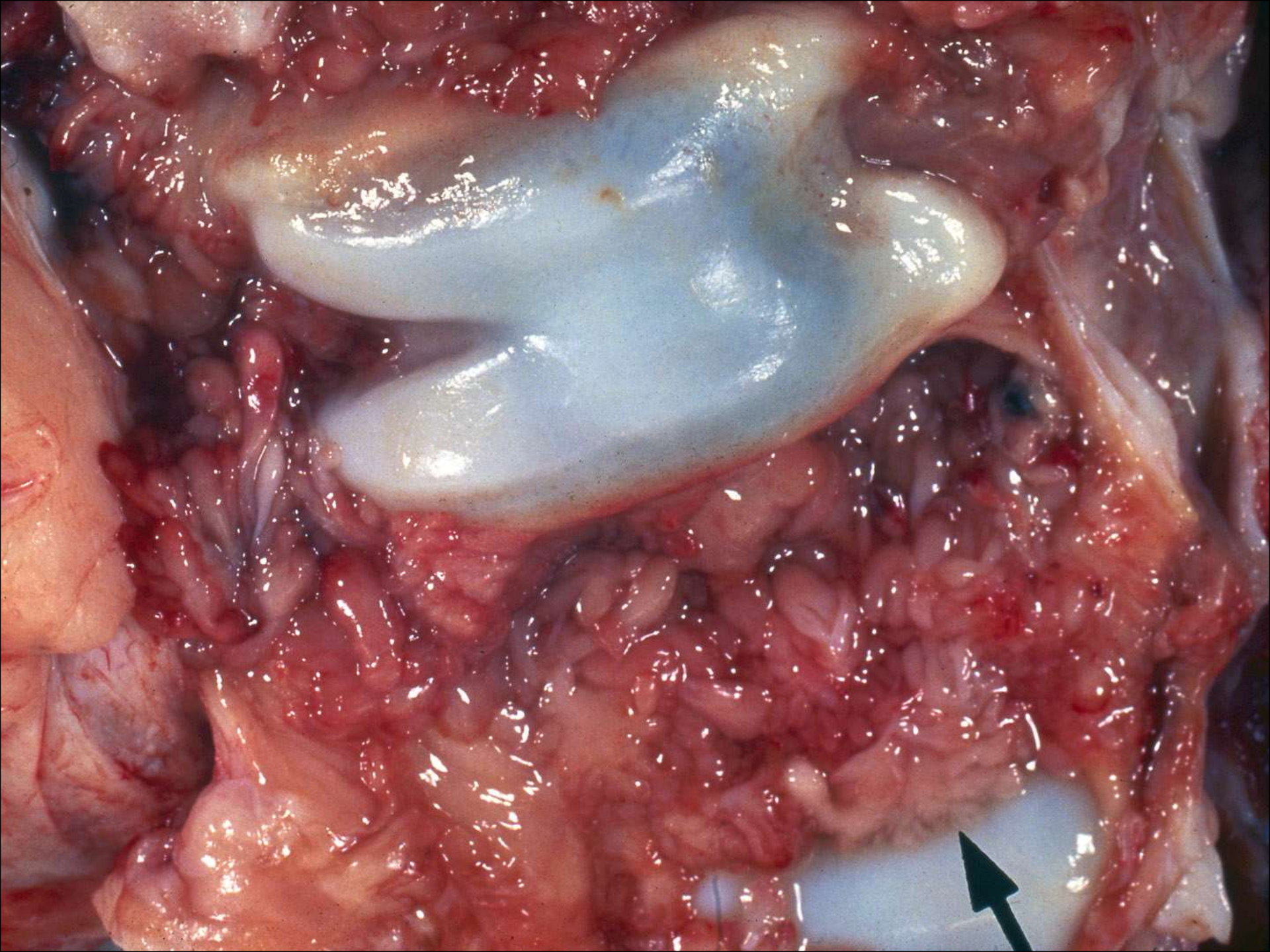
Chronic Inflammation



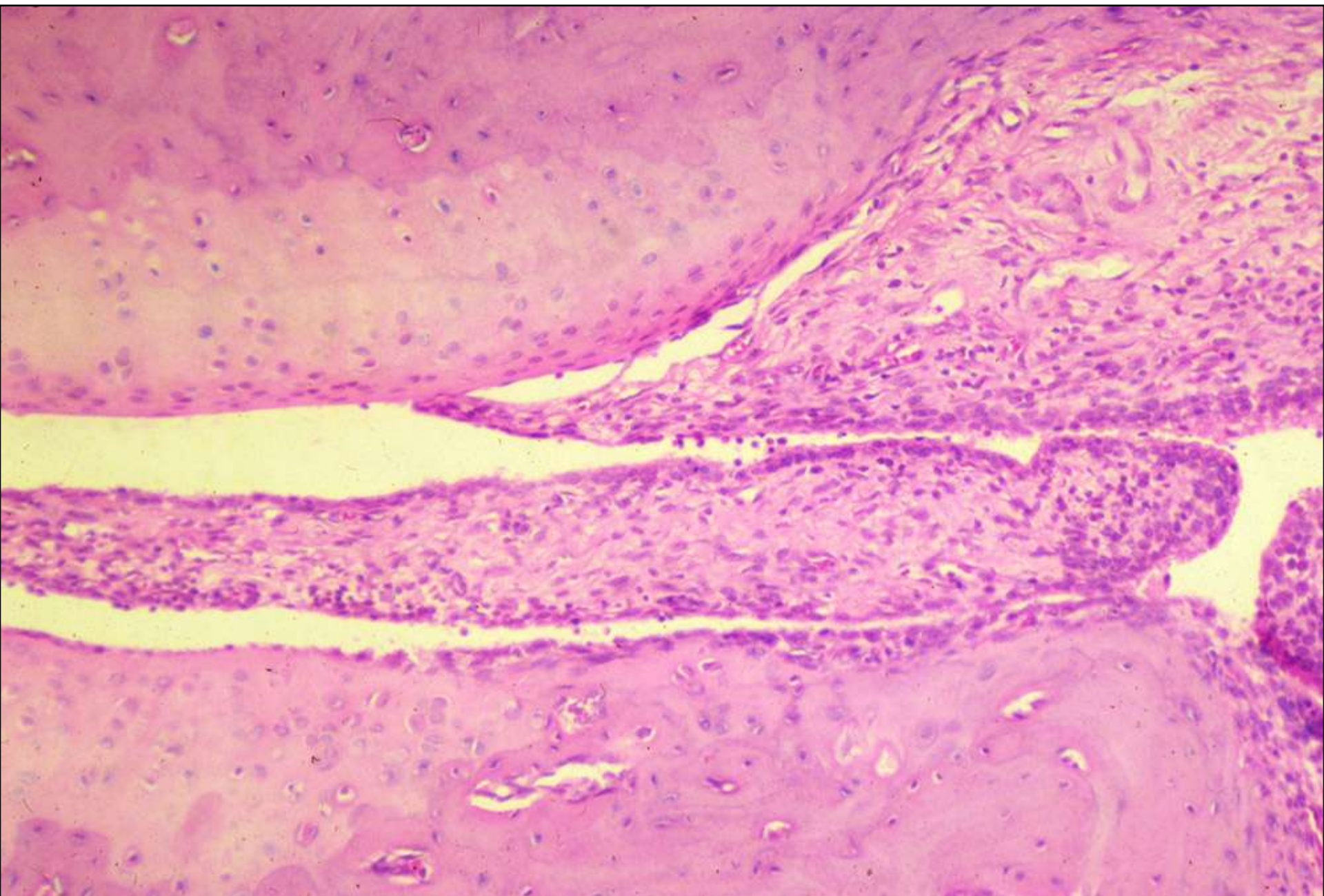


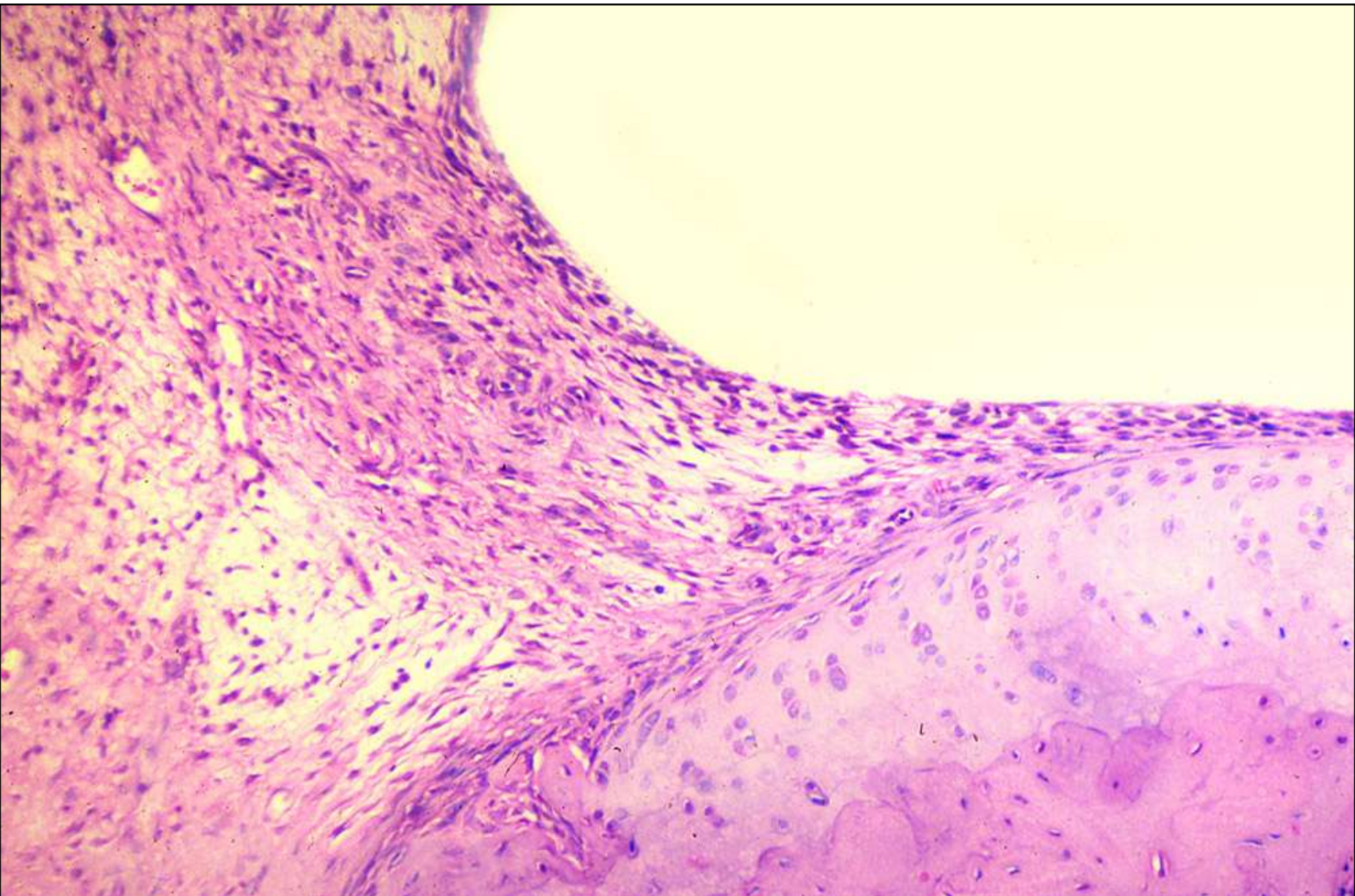


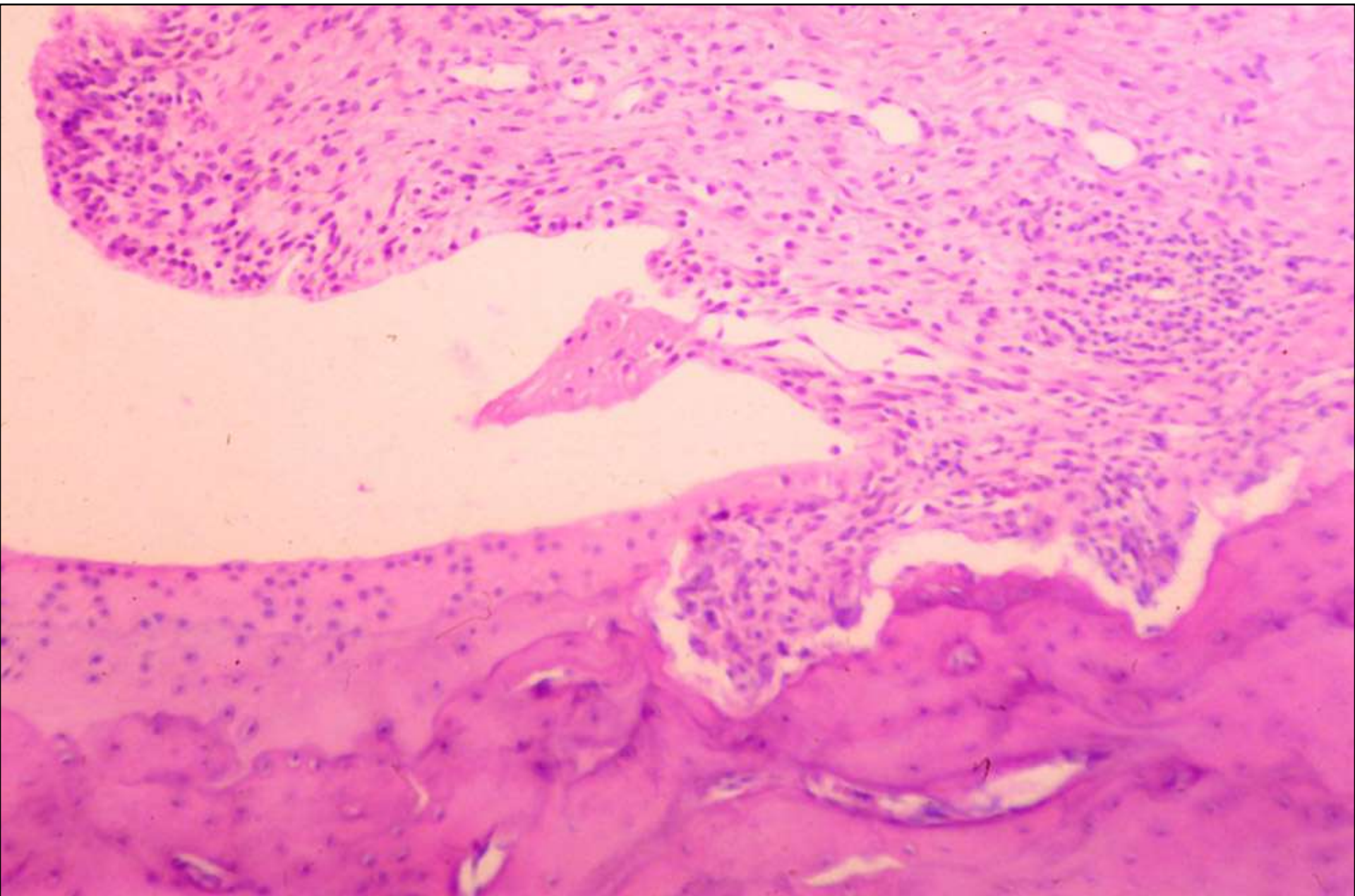










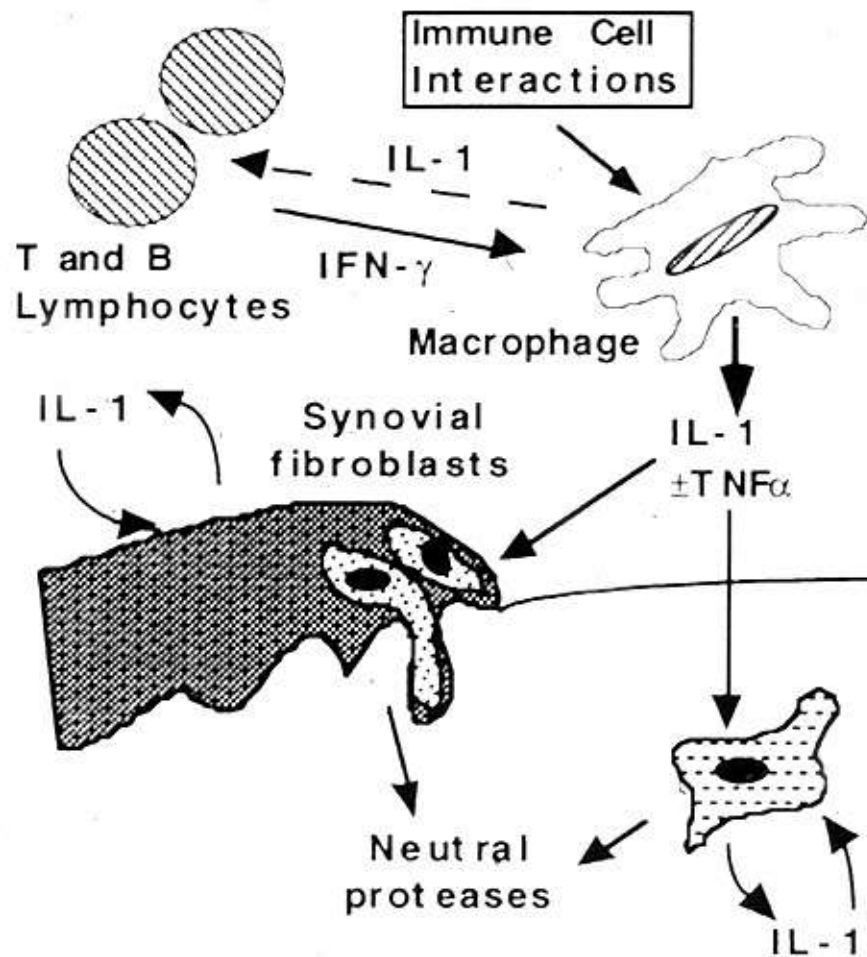




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Rheumatoid Arthritis



Osteoarthritis

