

BONE AND SOFT TISSUE PATHOLOGY GROSSING GUIDELINES

- **NOTE: Document in your cassette summary which cassettes (for each specimen part) are submitted for decal and include what type of decal is used**
 - **Ex: Representative sections are submitted:**
 - **A1- bone (stat decal)**
 - **A2- skin resection margin, perpendicular**
 - **B2- tibia shave (EDTA decal)**

Specimen Type: OSTEOCHONDROMA

BACKGROUND:

Osteochondromas are developmental exostotic tumors that arise from the surface of the cortex of bone and communicate with the underlying marrow space. They are composed of a bony stalk with a thin cartilaginous cap and may be either pedunculated or sessile. The cartilage cap often reduces in thickness with age. Almost all osteochondromas are benign. Malignancy (chondrosarcoma) typically only arises in osteochondromas with a cartilaginous cap of thickness >3 cm. **Correlation with imaging studies and gross measurement of the cap is very important in these cases.**

Gross Template

MModal Command: "INSERT OSTEOCHONDROMA"

It consists of a [*measure in three dimensions****] cm soft tissue with overlying cartilaginous cap. The specimen is sectioned parallel to the long axis and reveals a cartilaginous cap thickness of [***] cm at the thickest point. The cut surface is remarkable for [*describe cartilaginous surface/homogeneity/multinodularity/extension into underlying bone or surrounding soft tissue****]. The cartilaginous cap is [***] cm from the bony stalk margin. A gross photograph is taken. Representative sections are submitted. [*describe cassette submission and specify cassettes placed in stat decal or EDTA decal****]

[*insert cassette summary****]

Cassette Submission:

A. Osteochondromas with cartilaginous cap <3cm

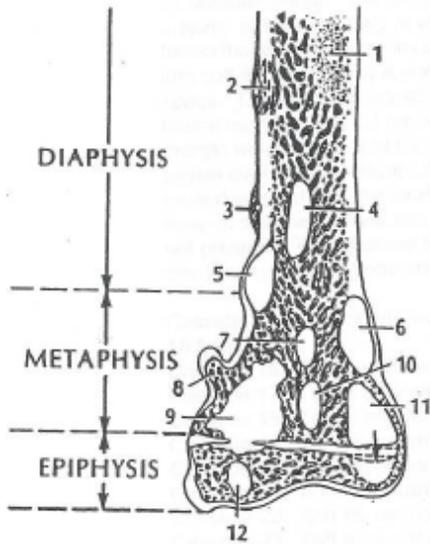
1. One section of cartilaginous cap with underlying bony stalk

B. Osteochondromas with cartilaginous cap ≥3cm

1. One section per 1 cm of the cartilaginous tumor
 - i. Focus on the relationship of tumor to underlying bony stalk and surrounding soft tissue
 - ii. At least one cassette of tumor **without** decal (Note: If entire mass is calcified then submit one cassette of small piece of tumor in EDTA decal)
2. Bony Stalk Margin
 - i. Shave margin if cartilaginous tumor is >0.5cm away
 - ii. Ink and submit perpendicular margin if tumor is <0.5 cm away

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BONE TUMORS



1. Ewing's sarcoma, lymphoma, myeloma
2. Osseofibrous dysplasia, adamantinoma
3. Osteoid osteoma
4. Fibrous dysplasia
5. Chondromyxoid fibroma
6. Nonossifying fibroma
7. Bone cyst, osteoblastoma
8. Osteochondroma
9. Osteosarcoma
10. Enchondroma, chondrosarcoma
11. Giant cell tumor
12. Chondroblastoma