CALIFORNIA
TUMOR TISSUE REGISTRY

"BONE PATHOLOGY"

Study Cases, Subscription B

February 2015

California Tumor Tissue Registry
c/o: Department of Pathology and Human Anatomy
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Web page: www.cttr.org
Web site & Case of the Month: www.cttr.org

Target audience:
Practicing pathologists and pathology residents.

Goal:
To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

Objectives:
The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

Educational methods and media:
Review of representative glass slides with associated histories.
Feedback on consensus diagnoses from participating pathologists.
Listing of selected references from the medical literature.

Principal faculty:
Donald R. Chase, MD

CME/SAM Credit:
Loma Linda University School of Medicine designates this continuing medical education activity for a maximum of 2 hours of Category I of the Physician's Recognition Award of the American Medical Association. It also qualifies for up to 2 hours of SAM credit by the American Board of Pathology.
CME/SAM credit is offered for the subscription year only.

Accreditation:
Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

Case No. 1 - February 2015 B **Accession #31861**

Tissue from: Right femur

Clinical Abstract:

A 14 year-old girl was found to have a tumor of the right distal femur.

Gross Pathology:

The 30 gram aggregate of friable yellow tissue was 9 x 4.5 x 1 cm.

Case No. 2 - February 2015 B **Accession #32002**

Tissue from: Left femur

Clinical Abstract:

This 25 year-old woman presented with left hip pain and was found to have a non-union fracture of the left femoral neck at the site of curetting and radiation therapy 2 years previously.

Gross Pathology:

The 5.4 x 4 x 4 cm femoral head had white chalky marrow.

Special Studies:

S100: positive
CD1a: negative

Case No. 3 - February 2015 B **Accession #31941**

Tissue from: Left femur

Clinical Abstract:

An 86 year-old man was found to have a mass involving the left femur.

Gross Pathology:

The femur was 1350 grams and 39 cm long. The distal femur showed a 16 cm long region of diffuse sclerosis and thickening of the cortex.

Case No. 4 - February 2015 B **Accession #28753**

Tissue from: Right knee

Clinical Abstract:

This 28 year-old man had a slowly enlarging mass of his distal thigh for about 1 ½ years. MRI showed an exophytic osseous lesion extending from the distal femoral diaphysis posteromedially.

Gross Pathology:

The resected bone was 5 x 4 x 2 cm.

Case No. 5 - February 2015 B **Accession #31977**

Tissue from: Mandible

Clinical Abstract:

This 62 year-old woman had a mass in her left mandible.

Gross Pathology:

An 11 x 8 x 1.5 cm aggregate of firm yellow-tan tissue weighed 75 grams.

Case No. 6 - February 2015 B **Accession #31942**

Tissue from: Right humerus

Clinical Abstract:

A 57 year-old woman had a proximal right humeral mass.

Gross Pathology:

The 69 gram humeral resection was 10 cm long. The cut surface showed a 6.4 x 4.3 x 2.4 cm tan and white glistening tumor extending from the epiphysis to the upper diaphysis.

Case No. 7 - February 2015 B **Accession #31917**

Tissue from: Pubic bone

Clinical Abstract:

This 38 year-old woman had a prior history of multiple osteochondromas and was found to have a large mass in the pelvis.

Gross Pathology:

The 465 gram resection specimen was 11 x 9 x 8 cm and was composed of lobulated glistening blue-tan tissue with areas of gritty calcification.

Case No. 8 - February 2015 B **Accession #12643**

Tissue from: Rib

Clinical Abstract:

Two years after a left upper lobectomy for squamous cell carcinoma of the lung, this 58 year-old man presented with a left chest wall mass. A chest x-ray showed a fusiform expansion of the 8th rib.

Gross Pathology:

The resected segment of rib included muscle and skin. A 3 cm mass expanded the mid portion of the rib and had a gray to yellow cartilaginous cut surface.

Case No. 9 - February 2015 B **Accession #31685**

Tissue from: Sacrum

Clinical Abstract:

This 24 year-old man was found to have a large sacral tumor. Following chemotherapy, the mass was resected.

Gross Pathology:

The 1066 gram resection specimen included sacrum with portions of L4 and portions of left and right ileum as well as skin and soft tissue. Located in the sacrum was an 11 x 9 x 4 cm firm mottled white-tan tumor with areas of translucent blue-tan cartilaginous tissue. Grossly the tumor extended through bony cortex into surrounding soft tissue.

Case No. 10 - February 2015 B **Accession #32006**

Tissue from: Femur

Clinical Abstract:

A 64 year-old man presented with a fracture of his left femur and was found to have a mass in his kidney.

Gross Pathology:

Tumor from the femur was removed in multiple fragments resulting in an aggregate weight of 80 grams.

Special Studies:

Positive: EMA, cytokeratin cocktail, CD10, vimentin, RCC