



CALIFORNIA  
TUMOR TISSUE REGISTRY

## *BONE AND CARTILAGE PATHOLOGY*

Minutes – Subscription B

January 2013



### **SUGGESTED READING (General Topics from Recent Literature):**

- Weinstein MC, Brodell, RT, et al. The Art and Science of Surgical Margins for the Dermatopathologist. *Am J Dermatopathology* 2012; 34:737-745.
- Rakha E, Wong SC, et al. Clinical Outcome of Atypical Endometrial Hyperplasia Diagnosed on an Endometrial Biopsy; Institutional Experience and Review of Literature. *Am J Surg Pathol* 2012; 36:1683-1690.
- Burlingame OO, Kesse KO, et al. On-Site Adequacy Evaluations Performed by Cytotechnologists: Correlation with Final Interpretations of 5241 Image-Guided Fine-Needle Aspiration Biopsies. *Cancer Cytopathol* 2012; 120:177-184.
- Sutton B, Davion S, et al. Mucocoele-Like Lesions Diagnosed on Breast Core Biopsy: Assessment of Upgrade Rate and Need for Surgical Excision. *Am J Clin Pathol*;2012; 138:783-788.
- Fujita H, Lennerz JKM, et al. Endoscopic Surveillance of Patients with Hereditary Diffuse Gastric Cancer: Biopsy Recommendations after Topographic Distribution of Cancer Foci in a Series of 10 CDH1-Mutated Gastrectomies. *Am J Surg Pathol* 2012; 36:1709-1717.

California Tumor Tissue Registry  
c/o: Department of Pathology and Human Anatomy  
Loma Linda University School of Medicine  
11021 Campus Avenue, AH 335  
Loma Linda, California 92350  
(909) 558-4788  
FAX: (909) 558-0188  
E-mail: [cttr@linkline.com](mailto:cttr@linkline.com)  
Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)

## FILE DIAGNOSES

### CTTR Subscription B

January 2013

**Case 1:**

Gaucher disease, femoral head  
T-11710, D-1430

**Case 2:**

Osteoid osteoma, ethmoid bone  
T-10156, M-91800

**Case 3:**

Aneurysmal bone cyst, finger  
T-Y8800, M-33640

**Case 4:**

Giant cell tumor of bone, radius  
T-11420, M-92503

**Case 5:**

Ameloblastoma, floor of mouth  
T-51000, M-93100

**Case 6:**

Synovial chondromatosis, ankle  
T-Y9500, M-73670

**Case 7:**

Chondromyxoid fibroma, proximal tibia  
T-11730, M-92410

**Case 8:**

Chondroblastoma, patella  
T-11720, M-92300

**Case 9:**

Chondrosarcoma, grade 2, fibula  
T-11740, M-92220

**Case 10:**

Chondrosarcoma of small bones, grade 1, finger  
T-Y8800, M-92203

Glendale - Bone infarct  
Newport Beach (College Hospital) - Mastocytosis  
Orange (UCI Residents) - Gaucher disease  
Orinda (Kaiser Permanente) - Avascular necrosis and probable storage disease (e.g. Gaucher disease)  
Alabama (Cunningham Pathology) - Avascular necrosis  
Delaware (Armed Forces Medical Examiner) - Necrotic lamellar bone  
Georgia, Atlanta - Gaucher disease  
Illinois (Heartland Regional Medical Center) - Consistent with Gaucher disease  
Kansas (Peterson Laboratory Services) - Avascular necrosis (2)  
New York (Buffalo General Hospital) - Osteonecrosis and fracture callus  
New York (SUNY Downstate Medical Center) - Lipidosis, favor Gaucher disease, type 1  
Ohio (Summa Health System Residents) - Gaucher disease  
Oregon (Oregon Health Science University) - Avascular necrosis  
Pennsylvania (Conemaugh Memorial Medical Center) - Lipid storage disorder/metastatic deposits  
Puerto Rico (University of Puerto Rico) - Necrosis avascular, rule out metabolic lysosomal storage disease (Gaucher)  
Tennessee, Knoxville - Avascular necrosis  
Texas, Crystal Beach - Langerhan cell histiocytosis  
Texas, Lubbock - Avascular necrosis  
Australia (Royal Prince Alfred Hospital) - Gauchers  
Australia (St. Vincent's Hospital) - Erdheim-Chester disease  
Australia (The Western Hospital) - Avascular necrosis  
Canada (Pasqua Hospital) - Gaucher disease  
Canada (University of Sherbrooke) - Gaucher disease, bone  
Ireland (Connelly Hospital) - Granular cell tumor  
Ireland (Galway Residents) - Gaucher disease + avascular necrosis  
Japan (Asahi General Hospital) - Erdheim-Chester disease (1); Avascular necrosis of bone (1)  
Japan (Setagaya-Ku) - Gaucher disease  
Saudi Arabia (King Fahad Hospital) - Compatible with Gaucher disease involvement and avascular osteonecrosis  
Saudi Arabia (King Khalid University Hospital) - Aseptic bone necrosis  
Singapore (Freeland/Locum Practice) - Histiocytic infiltrate, infection  
United Kingdom (John Radcliffe Hospital) - Gaucher disease

Case 1 – Diagnosis:

Gaucher disease, femoral head  
T-11710, D-1430

Case 1 - References:

Type 1 Gaucher disease: significant disease manifestations in "asymptomatic" homozygotes. *Arch Intern Med* 2010; Sep 13;170(16): p1463-9. Balwani M; Fuerstman, et al.  
Hyperferritinemia and iron overload in type 1 Gaucher disease. *Am J Hematol* 2010; Jul;85(7): p472-6. Stein P; Yu H, et al.  
Diagnosis of severe type 1 Gauchers disease before irreversible damage occurs : is HDL cholesterol the answer? *Br J Haematol* 2010; Jul;150(1): p118-9. Cohen IJ; Yaniv I; Baris H.  
Expanding spectrum of the association between Type 1 Gaucher disease and cancers: a series of patients with up to 3 sequential cancers of multiple types--correlation with genotype and phenotype. *J Clin Oncol.* 1993; May; 11(5):925-30. Lo SM; Stein P, et al.  
Newborn screening of lysosomal storage disorders. *Clin Chem* 2010; Jul;56(7): p1071-9. Marsden D; Levy H.

Glendale - Osteoblastoma  
Newport Beach (College Hospital) - Osteoma  
Orange (UCI Residents) - Osteosarcoma (ddx osteoid osteoma)  
Orinda (Kaiser Permanente) - Osteoid osteoma  
Alabama (Cunningham Pathology) - Osteoma  
Delaware (Armed Forces Medical Examiner) - Osteoma  
Georgia, Atlanta - Osteosarcoma  
Illinois (Heartland Regional Medical Center) - Benign bone neoplasm, favor osteoblastoma  
Kansas (Peterson Laboratory Services) - Osteoma (2)  
New York (Buffalo General Hospital) - Osteoblastoma  
New York (SUNY Downstate Medical Center) - Osteoma  
Ohio (Summa Health System Residents) - Osteoma  
Oregon (Oregon Health Science University) - Osteoid osteoma/sinonasal osteoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Ossifying fibroma  
Puerto Rico (University of Puerto Rico) - Osteoma, rule out osteoid osteoma and osteoblastoma  
Tennessee, Knoxville - Osteoma  
Texas, Crystal Beach - Osteoma  
Texas, Lubbock - Osteoid osteoma  
Australia (Royal Prince Alfred Hospital) - Osteoblastoma  
Australia (St. Vincent's Hospital) - Osteoblastoma  
Australia (The Western Hospital) - Benign bone forming lesion, favoring osteoblastoma  
Canada (Pasqua Hospital) - Osteoid osteoma  
Canada (University of Sherbrooke) - Osteoblastoma, ethmoid bone  
Ireland (Connelly Hospital) - Osteoma  
Ireland (Galway Residents) - Osteoid osteoma  
Japan (Asahi General Hospital) - Osteoid osteoma (1); Fibrous dysplasia (1)  
Japan (Setagaya-Ku) - Melorheostosis  
Saudi Arabia (King Fahad Hospital) - Differential of osteoblastoma (favor) vs. osteofibrous dysplasia  
Saudi Arabia (King Khalid University Hospital) - Osteoma  
Singapore (Freelance/Locum Practice) - Osteoid osteoma  
United Kingdom (John Radcliffe Hospital) - Fibrous dysplasia

Case 2 – Diagnosis:

Osteoid osteoma, ethmoid bone  
T-10156, M-91800

Case 2 – References:

Osteoid osteoma invading the posterior labyrinth of the petrous bone. *AJNR Am J Neuroradiol* 2010; Oct;31(9): p1764-6. Dugert E; Lagleyre S, et al.  
Osteoid osteoma of the first 2 cervical vertebrae. Report of 4 cases. *J Neurosurg Spine* 2010; Dec;13(6): p707-14. Amirjamshidi A; Roozbeh H, et al.  
Osteoid osteoma and osteoblastoma of the cervical spine: the cause of unusual persistent neck pain. *Pain Physician* 2010; Nov-Dec;13(6): p549-54. Kaner T; Sasani M, et al.  
Is osteoid osteoma an iodophilic lesion?: pathologically proved osteoid osteoma of nasal bone first seen on whole-body iodine-131 scan. *Clin Nucl Med* 2003; Aug;28(8): p696-8. Rachinsky I; Shelef I, et al.  
Osteoid osteoma of the frontal bone. *Ann Otol Rhinol Laryngol* 2003; Jun;112(6): p567-8. Gross M; Dano I, et al.  
Osteoid osteoma: a current review. *J Pediatr Orthop* 2006; Sep-Oct;26(5): p695-700. Lee EH; Shafi M; Hui JH.  
Progression of an osteoid osteoma to an osteoblastoma. Case report. *J Neurosurg Spine* 2005; Sep;3(3): p238-41. Bruneau M; Polivka M, et al.

Glendale - Reparative giant cell granuloma  
Newport Beach (College Hospital) - Giant cell tumor  
Orange (UCI Residents) - Giant cell tumor of tendon sheath  
Orinda (Kaiser Permanente) - Aneurysmal bone cyst  
Alabama (Cunningham Pathology) - Giant cell reaction/granuloma  
Delaware (Armed Forces Medical Examiner) - Tenosynovial giant cell tumor  
Georgia, Atlanta - Aneurysmal bone cyst  
Illinois (Heartland Regional Medical Center) - Giant cell tumor with secondary aneurysmal bone cyst  
Kansas (Peterson Laboratory Services) - Aneurysmal bone cyst (2)  
New York (Buffalo General Hospital) - Giant cell tumor of the bone  
New York (SUNY Downstate Medical Center) - Aneurysmal bone cyst  
Ohio (Summa Health System) - Soft tissue giant cell tumor of low malignant potential  
Oregon (Oregon Health Science University) - Aneurysmal bone cyst  
Pennsylvania (Conemaugh Memorial Medical Center) - Aneurysmal bone cyst  
Puerto Rico (University of Puerto Rico) - Aneurysmal bone cyst  
Tennessee, Knoxville - Giant cell tumor with aneurysmal bone cyst  
Texas, Crystal Beach - Reparative granuloma  
Texas, Lubbock - Aneurysmal bone cyst  
Australia (Royal Prince Alfred Hospital) - Solid and cystic ABC  
Austral (St. Vincent's Hospital) - Tenosynovial giant cell tumor  
Australia (The Western Hospital) - Giant cell tumor of the tendon sheath  
Canada (Pasqua Hospital) - Aneurysmal bone cyst  
Canada (University of Sherbrooke) - Aneurysmal bone cyst, finger  
Ireland (Connelly Hospital) - Giant cell tumor of tendon sheath  
Ireland (Galway Residents) - Giant cell tumor  
Japan (Asahi General Hospital) - Aneurysmal bone cyst (1); Giant cell tumor of tendon sheath (1)  
Japan (Setagaya-Ku) - Giant cell tumor  
Saudi Arabia (King Fahad Hospital) - Soft tissue giant cell tumor of low malignant potential  
Saudi Arabia (King Khalid University Hospital) - Giant cell reparative granuloma  
Singapore (Freelance/Locum Practice) - Giant lesion of the small bones  
United Kingdom (John Radcliffe Hospital) - Giant cell tumor of soft tissue

Case 3 – Diagnosis:

Aneurysmal bone cyst, finger  
T-Y8800, M-33640

Case 3 – References:

[Aneurysmal bone cyst of the fourth metacarpal bone--a case report]. *Handchir Mikrochir Plast Chir* 2002; Mar;34(2): p128-32. Braatz F; Popken F, et al.  
Aneurysmal bone cysts express vascular markers. *Pediatr Dev Pathol* 2006; Jan-Feb;9(1): p38-43. Shinde A; Mehlman CT; Collins MH.  
Aneurysmal bone cyst and giant cell tumor of bone of the hand and distal radius. *Hand Clin* 2004; Aug;20(3): p269-81, vi Athanasian EA.  
Aneurysmal bone cyst: fine-needle aspiration findings in 23 patients with clinical and radiologic correlation. *Am J Clin Pathol* 2007; Nov;128(5): p740-5. Creager AJ; Madden CR, et al.  
[Aneurysmal bone cysts of the metacarpals and phalanges of the hand. A 6 case series and literature review]. *Chir Main* 2007; Aug-Oct;26(4-5): p214-7. Ropars M; Kaila R, et al.

Glendale - Giant cell tumor of bone  
Newport Beach (College Hospital) - Giant cell tumor  
Orange (UCI Residents) - Giant cell tumor of bone  
Orinda (Kaiser Permanente) - Giant cell tumor  
Alabama (Cunningham Pathology) - Giant cell tumor  
Delaware (Armed Forces Medical Examiner) - Giant cell tumor  
Georgia, Atlanta - Giant cell tumor  
Illinois (Heartland Regional Medical Center) - Giant cell tumor  
Kansas (Peterson Laboratory Services) - Giant cell tumor (2)  
New York (Buffalo General Hospital) - Fibrous cortical defect/non-ossifying fibroma  
Ohio (Summa Health System Residents) - Giant cell tumor of bone  
Oregon (Oregon Health Science University) - Giant cell tumor of bone  
Pennsylvania (Conemaugh Memorial Medical Center) - Giant cell tumor  
Puerto Rico (University of Puerto Rico) - Giant cell tumor of bone  
Tennessee, Knoxville - Giant cell tumor  
Texas, Crystal Beach - Giant cell tumor  
Texas, Lubbock - Giant cell tumor  
Australia (Royal Prince Alfred Hospital) - Giant cell tumor of bone (recurrent)  
Australia (St. Vincent's Hospital) - Giant cell tumor of bone  
Australia (The Western Hospital) - Giant cell tumor of bone  
Canada (Pasqua Hospital) - Giant cell tumor  
Canada (University of Sherbrooke) - Giant cell tumor, radius  
Ireland (Connelly Hospital) - Giant cell tumor  
Ireland (Galway Residents) - Recurrent giant cell tumor  
Japan (Asahi General Hospital) - Giant cell tumor (2)  
Japan (Setagaya-Ku) - Giant cell tumor  
Saudi Arabia (King Fahad Hospital) - Giant cell tumor of bone  
Saudi Arabia (King Khalid University Hospital) - Giant cell tumor of bone  
Singapore (Freelance/Locum Practice) - Giant cell tumor  
United Kingdom (John Radcliffe Hospital) - Recurrent giant cell tumor of bone

Case 4 – Diagnosis:

Giant cell tumor of bone, radius  
T-11420, M-92503

Case 4 – References:

p63 expression in giant cell-containing lesions of bone and soft tissue. *Arch Pathol Lab Med* 2011; Jun;135(6): p776-9. de la Roza G.  
Reconstruction of distal radius by fibula following excision of grade III giant cell tumour: follow-up of 18 cases. *Int Orthop* 2011; Apr;35(4): p577-80. Peng-Fei S; Yu-Hua J.  
Features of grade 3 giant cell tumors of the distal radius associated with successful intralesional treatment. *J Hand Surg Am* 2010; Nov;35(11): p1850-7. Kang L; Manoso MW, et al.  
Giant cell tumour of the distal radius: wide resection and reconstruction by non-vascularized proximal fibular autograft *Ann Acad Med Singapore* 2009; Oct;38(10): p900-4. Bassiony AA.

Glendale - Ameloblastoma  
Newport Beach (College Hospital) - Adamantinoma  
Orange (UCI Residents) - Ameloblastoma  
Orinda (Kaiser Permanente) - Ameloblastoma  
Alabama (Cunningham Pathology) - Ameloblastoma

Delaware (Armed Forces Medical Examiner) - Ameloblastoma  
Georgia, Atlanta - Ameloblastoma  
Illinois (Heartland Regional Medical Center) - Ameloblastoma  
Kansas (Peterson Laboratory Services) - Ameloblastoma (2)  
New York (Buffalo General Hospital) - Ameloblastoma  
New York (SUNY Downstate Medical Center) - Ameloblastoma  
Ohio (Summa Health System Residents) - Ameloblastoma  
Oregon (Oregon Health Science University) - Peripheral ameloblastoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Ameloblastoma  
Puerto Rico (University of Puerto Rico) - Ameloblastoma  
Tennessee, Knoxville - Adamantinoma  
Texas, Crystal Beach - Ameloblastoma  
Texas, Lubbock - Ameloblastoma  
Australia (Royal Prince Alfred Hospital) - Ameloblastoma  
Australia (St. Vincent's Hospital) - Ameloblastoma  
Australia (The Western Hospital) - Ameloblastoma  
Canada (Pasqua Hospital) - Ameloblastoma  
Canada (University of Sherbrooke) - Ameloblastoma, floor of mouth  
Ireland (Connelly Hospital) - Basal cell adenoma  
Ireland (Galway Residents) - Ameloblastoma  
Japan (Asahi General Hospital) - Ameloblastoma (1); Basal cell epithelioma (1)  
Japan (Setagaya-Ku) - Ameloblastoma  
Saudi Arabia (King Fahad Hospital) - Ameloblastoma  
Saudi Arabia (King Khalid University Hospital) - Ameloblastoma  
Singapore (Freelance/Locum Practice) - Ameloblastoma  
United Kingdom (John Radcliffe Hospital) - Ameloblastoma

#### Case 5 – Diagnosis:

Ameloblastoma, floor of mouth  
 T-51000, M-93100

#### Case 5 – References:

Unicystic ameloblastoma of the mandible--an unusual case report and review of literature. *Head Neck Oncol* 2010; 2:1.  
 Ramesh RS; Manjunath S, et al.  
 Ameloblastoma, solid/multicystic type. *Head Neck Pathol* 2009; Dec;3(4): p307-9. Bachmann AM; Linfesty RL.  
 Long-term follow up on recurrence of 305 ameloblastoma cases. *Int J Oral Maxillofac Surg* 2007; Apr;36(4): p283-8.  
 Hong J; Yun PY, et al.  
 Oral pathology. Ameloblastoma arising in a dentigerous cyst. *J Okla Dent Assoc* 2007; Jun;98(9): p28-9. Houston GD.

#### **Case No. 6, Accession No. 31572**

**January 2013**

Glendale - Synovial chondromatosis  
Newport Beach (College Hospital) - Chondroma  
Orange (UCI Residents) - Synovial chondromatosis  
Orinda (Kaiser Permanente) - Chondrocalcinosis/synovial chondromatosis  
Alabama (Cunningham Pathology) - Synovial chondromatosis  
Delaware (Armed Forces Medical Examiner) - Well-differentiated chondrosarcoma  
Georgia, Atlanta - Synovial chondromatosis  
Illinois (Heartland Regional Medical Center) - Synovial chondromatosis  
Kansas (Peterson Laboratory Services) - Chondroma (1); Enchondroma (1)  
New York (Buffalo General Hospital) - Chondroma/enchondroma  
New York (SUNY Downstate Medical Center) - Synovial chondromatosis  
Ohio (Summa Health System Residents) - Synovial chondromatosis (joint mice)  
Oregon (Oregon Health Science University) - Synovial chondromatosis

Pennsylvania (Conemaugh Memorial Medical Center) - Synovial chondromatosis  
Puerto Rico (University of Puerto Rico) - Synovial chondromatosis (loose bodies)  
Tennessee, Knoxville - Synovial chondromatosis  
Texas, Crystal Beach - Chondroma  
Texas, Lubbock - Chondroma  
Australia (Royal Prince Alfred Hospital) - Synovial chondromatosis  
Australia (St. Vincent's Hospital) - Synovial chondromatosis  
Australia (The Western Hospital) - Synovial chondromatosis  
Canada (Pasqua Hospital) - Synovial osteochondromatosis  
Canada (University of Sherbrooke) - Chondroma, ankle  
Ireland (Connelly Hospital) - Chondroma  
Japan (Asahi General Hospital) - Synovial chondromatosis (1); Chondroma (1)  
Japan (Setagaya-Ku) - Chondroma  
Saudi Arabia (King Fahad Hospital) - Synovial chondromatosis  
Saudi Arabia (King Khalid University Hospital) - Enchondroma  
Singapore (Freelance/Locum) Practice) - Synovial chondromatosis  
United Kingdom (John Radcliffe Hospital) - Synovial chondromatosis

Case 6 – Diagnosis:

Synovial chondromatosis, ankle  
 T-Y9500, M-73670

Case 6 – References:

Benign synovial disorders. *J Am Acad Orthop Surg* 2008; May;16(5): p268-75. Adelani MA; Wupperman RM; Holt GE  
 Soft tissue pathology of the ankle. *Clin Podiatr Med Surg* 2011; Jun;28(3): p469-80. Cullen BD; Weinraub GM.  
 Synovial chondromatosis of the foot presenting with Lisfranc dislocation. *Skeletal Radiol* 2005; Nov;34(11): p736-9.  
 Harish S; Saifuddin A, et al.  
 Is synovial osteo-chondromatosis a proliferative disease? *Pathol Res Pract* 2002;198(9): p585-8. Mohr W.  
 Tenosynovial osteochondromatosis of the tarsal tunnel. *Skeletal Radiol* 2003; Feb;32(2): p99-102. Sugimoto K; Iwai M,  
 et al.  
 Painless ankle mass in a 12-year-old boy. *Clin Orthop Relat Res* 2004; May;(422): p263-9. Forsythe B; Lou J, et al.

**Case No. 7, Accession No. 31496**

**January 2013**

Glendale - Chondromyxoid fibroma  
Newport Beach (College Hospital) - Chondroblastoma  
Orange (UCI Residents) - Chondromyxofibroma  
Orinda (Kaiser Permanente) - Chondromyxoid fibroma  
Alabama (Cunningham Pathology) - Chondromyxoid fibroma  
Delaware (Armed Forces Medical Examiner) - Chondromyxoid fibroma  
Georgia, Atlanta - Chondromyxoid fibroma  
Illinois (Heartland Regional Medical Center) - Chondromyxoid fibroma  
Kansas (Peterson Laboratory Services) - Chondromyxoid fibroma (2)  
New York (Buffalo General Hospital) - Chondromyxoid fibroma  
New York (SUNY Downstate Medical Center) - Chondromyxoid fibroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondromyxoid fibroma  
Ohio (Summa Health System Residents) - Chondromyxoid fibroma  
Oregon (Oregon Health Science University) - Chondromyxoid fibroma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondromyxoid fibroma  
Puerto Rico (University of Puerto Rico) - Chondromyxoid fibroma  
Tennessee, Knoxville - Chondromyxoid fibroma  
Texas, Crystal Beach - Chondrosarcoma  
Texas, Lubbock - Myxoid chondroma  
Australia (Royal Prince Alfred Hospital) - Chondromyxoid fibroma



Australia (St. Vincent's Hospital) - Chondromyxoid fibroma  
Australia (The Western Hospital) - Chondromyxoid fibroma  
Canada (Pasqua Hospital) - Chondromyxoid fibroma  
Canada (University of Sherbrooke) - Chondromyxoid fibroma, tibia  
Ireland (Connolly Hospital) - Chondromyxoid fibroma  
Ireland (Galway Residents) - Chondromyxoid fibroma  
Japan (Asahi General Hospital) - Chondromyxoid fibroma (1); Enchondroma (1)  
Japan (Setagaya-Ku) - Chondroblastoma  
Saudi Arabia (King Fahad Hospital) - Chondromyxoid fibroma  
Saudi Arabia (King Khalid University Hospital) - Chondromyxoid fibroma  
Singapore (Freelance/Locum Practice) - Chondromyxoid fibroma  
United Kingdom (John Radcliffe Hospital) - Chondromyxoid fibroma

#### **Case 7 – Diagnosis:**

Chondromyxoid fibroma, proximal tibia  
 T-11730, M-92410

#### **Case 7 – References:**

Phenotypic diversity in chondromyxoid fibroma reveals differentiation pattern of tumor mimicking fetal cartilage canals development: an immunohistochemical study. *Am J Pathol* 2010; Sep;177(3): p1072-8. Zustin J; Akpalo H, et al.  
 Immunohistochemical analysis for Sox9 reveals the cartilaginous character of chondroblastoma and chondromyxoid fibroma of the bone. *Hum Pathol* 2010; Feb;41(2): p208-13. Konishi E; Nakashima Y, et al.  
 Heterogeneous and complex rearrangements of chromosome arm 6q in chondromyxoid fibroma: delineation of breakpoints and analysis of candidate target genes. *Am J Pathol* 2010; Sep;177(3): p1365-76. Romeo S; Duim RA, et al.  
 Chondromyxoid fibromas: a study of 10 cases. *J Surg Oncol* 2005; Jan 1;89(1): p28-31. Desai SS; Jambhekar NA, et al.  
 Periosteal chondromyxoid fibroma: a case study using imprint cytology. *Diagn Cytopathol* 2005; Dec;33(6): p402-6. Estrada-Villasenor E, et al.

#### **Case No. 8, Accession No. 25897**

**January 2013**

Glendale - Chondroblastoma  
Newport Beach (College Hospital) - Aneurysmal bone cyst  
Orange (UCI Residents) - Osteosarcoma  
Orinda (Kaiser Permanente) - Chondroblastoma  
Alabama (Cunningham Pathology) - Osteosarcoma  
Delaware (Armed Forces Medical Examiner) - Aneurysmal bone cyst  
Georgia, Atlanta - Chondroblastoma  
Illinois (Heartland Regional Medical Center) - Giant cell tumor  
Kansas (Peterson Laboratory Services) - Aneurysmal bone cyst (1); Osteosarcoma, telangiectatic type (1)  
New York (Buffalo General Hospital) - Chondroblastic osteosarcoma  
New York (SUNY Downstate Medical Center) - Chondroblastoma  
Ohio (Summa health System Residents) - Langerhans cell histiocytosis  
Oregon (Oregon Health Science University) - Chondroblastoma  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondroblastoma  
Puerto Rico (University of Puerto Rico) - Chondroblastoma, rule out osteosarcoma  
Tennessee, Knoxville - Giant cell tumor  
Texas, Crystal Beach - Chondroblastoma  
Texas, Lubbock - Giant cell tumor  
Australia (Royal Prince Alfred Hospital) - Chondroblastoma and aneurysmal bone cyst  
Australia (St. Vincent's Hospital) - Chondroblastoma  
Australia (The Western Hospital) - Giant cell tumor  
Canada (Pasqua Hospital) - Giant cell tumor  
Canada (University of Sherbrooke) - Telangiectatic osteosarcoma, patella

Ireland (Connelly Hospital) - Osteosarcoma, giant cell rich  
Ireland (Galway Residents) - Chondroblastoma  
Japan (Asahi General Hospital) - Chondroblastoma (1); Giant cell tumor of bone (1)  
Japan (Setagaya-Ku) - Chondroblastoma  
Saudi Arabia (King Fahad Hospital) - Chondroblastoma  
Saudi Arabia (King Khalid University Hospital) - Osteosarcoma  
Singapore (Freeland/Locum Practice) - Chondroblastoma  
United Kingdom (John Radcliffe Hospital) - Osteoblastoma

**Case 8 – Diagnosis:**

Chondroblastoma, patella  
T-11720, M-92300

**Case 8- References:**

Diaphyseal chondroblastoma in a long bone: first report. *Skeletal Radiol* 2006; Jan;35(1): p49-52. Azorin D; Gonzalez-Mediero I, et al.  
Chondroblastoma of bone: long-term results and functional outcome after intralesional curettage. *J Bone Joint Surg Br* 2005; Jul;87(7): p974-8. Suneja R; Grimer RJ, et al.  
Fine needle aspiration cytology of chondroblastoma--a case report. *Indian J Pathol Microbiol* 2004; Apr;47(2): p263-5. Mishra K; Khanna G; Sharma S.  
Chondroblastoma: a study of 11 cases. *Eur J Surg Oncol* 2002; Dec;28(8): p869-74. Masui F; Ushigome S, et al.  
Chondroblastoma: varied histologic appearance, potential diagnostic pitfalls, and clinicopathologic features associated with local recurrence. *Ann Diagn Pathol* 2003; Aug;7(4): p205-13. de Silva MV; Reid R.

**Case No. 9, Accession No. 31476**

**January 2013**

Glendale - Chondrosarcoma  
Newport Beach (College Hospital) - Chondromyxoid fibroma  
Orange (UCI Residents) - Low grade chondrosarcoma  
Orinda (Kaiser Permanente) - Chondrosarcoma  
Alabama (Cunningham Pathology) - Chondrosarcoma  
Delaware (Armed Forces Medical Examiner) - Low grade chondrosarcoma  
Georgia, Atlanta - Chondrosarcoma, low grade  
Illinois (Heartland Regional Medical Center) - Chondrosarcoma, grade 2  
Kansas (Peterson Laboratory Services) - Chondrosarcoma (2)  
New York (Buffalo General Hospital) - Chondrosarcoma  
New York (SUNY Downstate Medical Center) - Chondrosarcoma, well-differentiated  
Ohio (Summa Health System Residents) - Chondrosarcoma  
Oregon (Oregon Health Science University) - Chondrosarcoma, low grade  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondrosarcoma, low grade  
Puerto Rico (University of Puerto Rico) - Chondrosarcoma, grade 2  
Tennessee, Knoxville - Chondrosarcoma  
Texas, Crystal Beach - Chondrosarcoma  
Texas, Lubbock - Chondrosarcoma  
Australia (Royal Prince Alfred Hospital) - Osteochondroma with secondary low grade chondrosarcoma  
Australia (St. Vincent's Hospital) - Chondrosarcoma, grade 2  
Australia (The Western Hospital) - Conventional intramedullary chondrosarcoma, grade 1  
Canada (Pasqua Hospital) - Chondrosarcoma  
Canada (University of Sherbrooke) - Chondrosarcoma, fibula  
Ireland (Connelly Hospital) - Chondroblastic osteosarcoma  
Ireland (Galway Residents) - Chondrosarcoma, intermediate grade  
Japan (Asahi General Hospital) - Chondrosarcoma (2)  
Japan (Setagaya-Ku) - Chondrosarcoma  
Saudi Arabia (King Fahad Hospital) - Chondrosarcoma, intermediate grade

Saudi Arabia (King Khalid University Hospital) - Chondrosarcoma  
Singapore (Freelance/Locum Practice) - Chondrosarcoma, grade 2  
United Kingdom (John Radcliffe Hospital) - Chondrosarcoma, grade 2

Case 9 – Diagnosis:

Chondrosarcoma, grade 2, fibula  
T-11740, M-92220

Case 9 – References:

Radiographic differentiation of enchondroma from low-grade chondrosarcoma in the fibula. *Skeletal Radiol* 2004; Aug;33(8): p458-66. Kendell SD; Collins MS, et al.  
Concurrent periosteal chondroma and enchondroma of the fibula mimicking chondrosarcoma. *Skeletal Radiol* 2006; May;35(5): p302-5. Yamamoto Y; Washimi O, et al.  
Diagnosis of a dedifferentiated chondrosarcoma of the pelvis by fine needle aspiration. A case report. *Acta Cytol* 2010; Mar-Apr;54(2): p217-20. Estrada-Villasenor E; Rico-Martinez G; Linares-Gonzalez LM.  
Chondrosarcoma of the upper end of the femur. *Rom J Morphol Embryol* 2011;52(2): p709-13. Sisu AM; Tatu FR, et al.  
Therapeutic molecular targets in human chondrosarcoma. *Int J Exp Pathol* 2010; Oct;91(5): p387-93. Jamil N; Howie S; Salter DM.

**Case No. 10, Accession No. 25689**

**January 2013**

Glendale - Chondrosarcoma  
Newport Beach (College Hospital) - Chondrosarcoma  
Orange (UCI Residents) - Enchondroma  
Orinda (Kaiser Permanente) - Chondrosarcoma  
Alabama (Cunningham Pathology) - Multiple chondromas  
Delaware (Armed Forces Medical Examiner) - Enchondroma  
Georgia, Atlanta - Chondrosarcoma, high grade  
Illinois (Heartland Regional Medical Center) - Chondrosarcoma, grade 1  
Kansas (Peterson Laboratory Services) - Enchondroma (1); Soft tissue chondroma (1)  
New York (Buffalo General Hospital) - Chondrosarcoma  
New York (SUNY Downstate Medical Center) - Chondroma  
Ohio (Sunna Health System Residents) - Enchondroma vs. low grade chondrosarcoma  
Oregon (Oregon Health Science University) - Chondrosarcoma, low grade  
Pennsylvania (Conemaugh Memorial Medical Center) - Chondrosarcoma  
Puerto Rico (University of Puerto Rico) - Chondrosarcoma, grade 1, rule out aggressive enchondroma  
Tennessee, Knoxville - Chondrosarcoma arising from an enchondroma  
Texas, Crystal Beach - Enchondroma  
Texas, Lubbock - Chondrosarcoma  
Australia (Royal Prince Alfred Hospital) - Chondrosarcoma, grade 1-2  
Australia (St. Vincent's Hospital) - Chondrosarcoma  
Australia (The Western Hospital) - Chondrosarcoma of the small bones of the hands and feet  
Canada (Pasqua Hospital) - Chondrosarcoma  
Canada (University of Sherbrooke) - Chondrosarcoma arising in osteochondroma, finger  
Ireland (Connelly Hospital) - Chondrosarcoma of small bone  
Ireland (Galway Residents) - Chondrosarcoma, low grade  
Japan (Asahi General Hospital) - Enchondroma (2)  
Japan (Setagaya-Ku) - Chondrosarcoma  
Saudi Arabia (King Fahad Hospital) - Chondrosarcoma, low grade  
Saudi Arabia (King Khalid University Hospital) - Bizarre parosteal osteochondromatous proliferation (Nova's lesion)  
Singapore (Freelance/Locum Practice) - Chondroid tumor, favor chondrosarcoma  
United Kingdom (John Radcliffe Hospital) - Enchondroma

**Case 10- Diagnosis:**

Chondrosarcoma of small bones, grade 1, finger

Director's note: Multiple recurrences and large size help exclude enchondroma  
T-Y8800, M-92203

**Case 10 – References:**

Myxoid chondrosarcoma of the phalanx with an EWS translocation: a case report and review of the literature. *J Bone Joint Surg Am* 2011; Mar 16;93(6): pe23. Bumpass DB; Kyriakos M, et al.

Dedifferentiated chondrosarcoma of the thumb: a case report. *Arch Orthop Trauma Surg* 2009; Feb;129(2): p161-6.  
Doganavsargil B; Argin M, et al.

Recurrent low- to intermediate-grade chondrosarcoma of the thumb with lung metastases: an objective response to trofosfamide. *Onkologie* 2007; Apr;30(4): p201-4. Debruyne PR; Dumez H, et al.

Chondrosarcoma of small bones of the hand. *J Hand Surg Br* 2003; Dec;28(6): p602-8. Patil S; de Silva MV, et al.

Chondrosarcoma of the distal phalanx of the second toe: a case report. *J Foot Ankle Surg* 2004; Mar-Apr;43(2): p110-2.  
Masuda T; Otuka T, et al.