**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:**
- Weldon K. Bullock, MD
- Donald R. Chase, MD

**CME Credit:**
Loma Linda University School of Medicine designates this continuing medical education activity for a maximum of 2 hours of Category 1 of the Physician's Recognition Award of the American Medical Association.

CME 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.
A 57 year old woman with asthma was hospitalized for hypotension and workup of hypovolemia and hypokalemia. An echocardiogram showed a large right atrial mass.

The 4 x 3 x 1.8 cm specimen was uniformly red-brown, rubbery and granular.

A 28 year old woman was found to have an anterior mediastinal mass. She had no clinical symptoms.

The 10.0 x 5.7 x 1.4 cm, 56 gram specimen consisted of lobulated tan-white parenchyma admixed with yellow adipose tissue.
Clinical Abstract:
A 46 year old man was found to have a mediastinal mass.

Gross Pathology:
This 1105 gram specimen included a portion of lung and a 17 x 15 x 11 cm partially cystic mass with attached adipose tissue. The dominant mass was multinodular and partially necrotic. The mass abutted attached pericardium and lung but did not grossly invade them.

Special Studies:
Flow cytometry showed at least two populations of cells
1. About 70% of total cells expressed CD1a, CD2, cytoplasmic CD3, CD4, CD5, CD7, CD8, CD 38, CD43 and CD45
2. About 20% of total cells expressed CD1a, CD2, surface CD3, CD4, CD5, CD7, CD38 and CD 45, but not CD8 or CD 43
Immunohistochemistry showed tumor cells:
Positive: Keratin AE1/3
Negative: CD3, CD5, CD20, CD34, CD30, CD15

Contributor: Chandra Prabha, M.D.
Washington, DC

Case No. 4 - January 2008 A
Tissue from: Mediastinum
Accession #30726

Clinical Abstract:
A 23 year old man was found on CT to have a 9 cm heterogeneous mass within the left anterior mediastinum, with lymph node invasion. Serum alpha fetoprotein was markedly increased.

Gross Pathology:
The 653 gram specimen contained a well circumscribed 12 x 9.5 x 9 cm solid gray-tan to yellow tumor with areas of cystic necrosis.

Special Studies:
Focally Positive: GFAP, S100, Desmin, Myogenin
Contributor: Scott Nelson, M.D.
Santo Domingo, Dominican Republic

Tissue from: Hip joint

Clinical Abstract:
A 19 year old man had a mass associated with his hip.

Gross Pathology:
Not available.

Contributor: LLUMC Pathology Group (wc)
Loma Linda, CA

Tissue from: Small intestine

Clinical Abstract:
A 55 year old woman was found to have a small bowel mass.

Gross Pathology:
This 25 x 9 x 8 cm segment of small bowel had an 8.5 x 6 x 6 cm firm fibrous mass attached to
the bowel wall. While much of it appeared well-circumscribed, areas adjacent to the mesentery had an
infiltrative growth pattern. The cut surface was fibrous and trabeculated.

Special Studies:
Positive: CD117
Contributor: Alexander Lyster, M.D.
Victoria, TX

Tissue from: Left upper chest

Clinical Abstract:
This 9 year old girl had a 1 year history of pain in her left shoulder. A large tumor was found in the left pectoralis muscle which passed under the clavicle into the left supraclavicular region. Deep dissection showed an attachment to the brachial plexus.

Gross Pathology:
The specimen was submitted in multiple fragments, the largest of which was 235 grams and 10 x 10 x 6 cm. The tumor tissue was lobulated pink-gray and friable.

Special Studies:
Negative: Keratin, CD99, Desmin, S100

Contributor: LLUMC Pathology Group (dr)
Loma Linda, CA

Tissue from: Left heel

Clinical Abstract:
A 71 year old man noticed a nodule on his left heel.

Gross Pathology:
The 41 gram 6.5 x 5.1 cm ellipse of skin was cut to a depth of 2.7 cm. In the center of the ellipse is a 2.5 x 2 x 0.8 cm brown-black raised mass.
Tissue from: Cervical lymph node

Clinical Abstract:
A 23 year old man presented with rapidly developing cachexia and extensive lymphadenopathy. He had irregular nodular masses in his left neck.

Gross Pathology:
A 10 gram specimen consisted of a 4 x 3.5 x 2.3 cm smooth ovoid nodule. The bulging cut surface was homogeneous pale tan-gray.

Special Studies:
Specific tumor cells were positive for CD15, CD30, fascin and were negative for CD45 (LCA), CD43, CD20, and CD3.

Tissue from: Left distal femur

Clinical Abstract:
This 23 year old man complained of pain in his left knee. An expansile tumor was found in the distal left femur.

Gross Pathology:
The 13.5 cm long portion of distal femur had attached soft tissues and skin. Longitudinal sectioning showed an ill-defined intramedullary tumor up to 4.2 cm in greatest diameter. The tumor appeared to breach the cortex of the bone posteriorly.
SUGGESTED READING (General Topics from Recent Literature):


Site-Dependent Differential KIT and PDGFRA Expression in Gastric and Intestinal Gastrointestinal Stromal Tumors. Haller F, Happel N, et al. Mod Pathol 2007; 20:1103-1111

Case 1:
Atrial/cardiac myxoma
   T-32100, M-88400

Case 2:
Thymic hyperplasia ("true")
   T-Y4600, M-72000

Case 3:
Thymoma, type B
   T-Y2300, M-85800

Case 4:
Mediastinal malignant teratoma with rhabdomyosarcoma and mixed germ cell components
   T-Y2300, M-86310

Case 5:
Osteochondroma, hip
   T-Y1500, M-92100

Case 6:
Mesenteric fibromatosis
   T-50500, M-76100

Case 7:
High grade sarcoma (nos), branchial plexus
   T-Y2100, M-80413

Case 8:
Melanoma, heel
   T-Y9600, M-87203

Case 9:
Nodular sclerosing Hodgkin lymphoma, cervical lymph node
   T-08200, M-95903

Case 10:
Osteoblastic osteosarcoma, distal femur
   T-11710, M-91803
Arcadia (ABC Laboratories) - Atrial myxoma
Fontana (Kaiser Permanente) - Myxoma
Hayward/Fremont - Rt atrial myxoma
Long Beach (Long Beach VA Hospital) - Atrial myxoma (6)
Oakland - Myxoma
Orange - Cardiac myxoma
Oxnard (St. John’s Regional Medical Center) - Atrial myxoma
Riverside (Riverside County Medical Center) - Cardiac myxoma
San Diego (Naval Medical Center) - Cardiac myxoma
San Diego (Scripps Clinic) - Cardiac myxoma
Santa Barbara - Organizing thrombus
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoma, atrial (4)
Woodland Hills (Kaiser Permanente) - Atrial myxoma
Alabama (Baptist Medical Center) - Cardiac myxoma
Alaska, Mt. Olive - Atrial myxoma
Colorado (McKee Medical Center) - Atrial myxoma
Florida (Baptist Hospital) - Cardiac myxoma (3)
Georgia, Decatur - Cardiac myxoma
Illinois, Burr Ridge - Myxoma
Illinois (Heartland Regional Medical Center) - Cardiac myxoma
Indiana (St. Joseph Hospital) - Cardiac myxoma (2)
Iowa (Winneshiek Medical Center) - Thrombus
Louisiana (Orleans Coroners Office) - Cardiac myxoma
Maryland (National Naval Medical Center) - Myxoma
Massachusetts (Tufts-New England Medical Center) - Atrial myxoma
Minnesota (Fairview Ridges Hospital) - Atrial myxoma
Missouri (Missouri Delta Center) - Hemangioma
Nevada (Sunrise Hospital) - Atrial myxoma
New York, Buffalo - Cardiac myxoma
New York (Long Island Jewish Medical Center) - Myxoma
New York (Stony Brook University) - Myxoma
Pennsylvania (Conemaugh Memorial Hospital) - Myxoma
Pennsylvania (Lehigh Valley Hospital) - Atrial myxoma
Pennsylvania (Magee Women’s Hospital) - Myxoma
Pennsylvania (St. Elizabeth Health Center) - Atrial myxoma
Texas (Crystal Beach) - Recanalized thrombus
Texas, Lubbock - Myxoma
Texas (St. Lukes Hospital) - Atrial myxoma
Washington (Seattle VA Medical Center) - Myxoma vs organizing thrombus
West Virginia (Greenbrier Valley Medical Center) - Neural thrombus
Australia (Royal Hobart Hospital) - Atrial myxoma
Brazil, Sao Paulo - Atrial myxoma with extramedullary hematopoiesis
Canada (Pasqua Hospital) - Atrial myxoma
Canada (Sherbrooke University Hospital) - Cardiac myxoma
Hong Kong (Kwong Wah Hospital) - Atrial myxoma
Ireland (Kerry General Hospital) - Atrial myxoma
Ireland (University College Hospital) - Atrial myxoma
Japan (Asashi General Hospital) - Cavernous hemangioma
Japan (Kyoto University Hospital) - Cardiac myxoma with incorporation of thrombus
United Kingdom (Oxford Study Group) - Cardiac myxoma

CTTR, January 2008 “Minutes” (Subscription A)
Case 1 - Diagnosis:
Atrial/cardiac myxoma
T-32100, M-88400

Case 1 - References:

Case No. 2, Accession No. 30409

Arcadia (ABC Laboratories) - Benign thymus gland
Fontana (Kaiser Permanente) - Thymic hyperplasia vs. thymoma
Hayward/Fremont - Thymic hyperplasia
Long Beach (Long Beach VA Hospital) - Thymic hyperplasia (6)
Oakland - Thymoma
Orange - Thymic hyperplasia
Oxnard (St. John’s Regional Medical Center) - Thymolipoma (2); Thymic hyperplasia vs. thymoma (1)
Riverside (Riverside County Medical Center) - Thymic hyperplasia rule out thymoma
San Diego (Naval Medical Center) - Thymic hyperplasia
San Diego (Scripps Clinic) - Thymolipoma (ddx thymic hyperplasia)
Santa Barbara - Thymic cysts
Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma, type A (2); True thymic hyperplasia (1) Lymphocytic thymoma (1)
Woodland Hills (Kaiser Permanente) - Persistent thymic tissue
Alabama (Baptist Medical Center) - Thymic hyperplasia
Alabama, Mt. Olive - Thymic hyperplasia
Colorado (McKee Medical Center) - Benign thymoma vs. thymic hyperplasia
Florida (Baptist Hospital) - Thymolipoma (3)
Georgia, Decatur - Thymoma
Illinois, Burr Ridge - Thymoma
Illinois (Heartland Regional Medical Center) - True thymic hyperplasia
Indiana (St. Joseph Hospital) - Thymic hyperplasia (2)
Iowa (Winnebago Medical Center) - Thymoma
Louisiana (Orleans Coroners Office) - Thymic hyperplasia
Maryland (National Naval Medical Center) - Thymic follicular hyperplasia
Massachusetts (Tufts-New England Medical Center) - Thymic hyperplasia
Minnesota (Fairview Ridge Hospital) - True thymic hyperplasia
Missouri (Missouri Delta Center) - Thymus
Nevada (Sunrise Hospital) - Thymic hyperplasia
New York, Buffalo - True thymic hyperplasia
New York (Long Island Jewish Medical Center) - Thymic hyperplasia
New York (Stony Brook University) - True thymic hyperplasia
Pennsylvania (Conemaugh Memorial Hospital) - Thymic hyperplasia
Pennsylvania (Lehigh Valley Hospital) - Thymic hyperplasia
Pennsylvania (Magee Women’s Hospital) - Thymic hyperplasia
Pennsylvania (St. Elizabeth Health Center) - Thymic hyperplasia
Texas (Crystal Beach) - Thymic hyperplasia
Texas, Lubbock - Thymic hyperplasia
Texas (St. Lukes Hospital) - Thymoma
Washington (Seattle VA Medical Center) - Hyperplastic thymus
West Virginia (Greenbrier Valley Medical Center) - Thymoma, lymphocytic predominance
Australia (Royal Hobart Hospital) - True thymic hyperplasia
Brazil, Sao Paulo - Thymic hyperplasia
Canada (Pasqua Hospital) - Hyperplastic thymus
Canada (Sherbrooke University Hospital) - Thymic hyperplasia
Hong Kong (Kwong Wah Hospital) - Thymic rest
Ireland (Kerry General Hospital) - Type B1 thymoma
Ireland (University College Hospital) - Type B1 thymoma
Japan (Asashi General Hospital) - Type B1 thymoma
Japan (Kyoto University Hospital) - True thymic hyperplasia
United Kingdom (Oxford Study Group) - Thymic hyperplasia

Case 2 - Diagnosis:
Thymic hyperplasia (“true”)
T-Y4600, M-72000

Case 2 - References:

Case No. 3, Accession No. 30648

Arcadia (ABC Laboratories) - Aggressive thymoma
Fontana (Kaiser Permenente) - Thymoma
Hayward/Fremont - Thymoma, B-1 type
Long Beach (Long Beach VA Hospital) - Thymoma (6)
Oakland - Thymic carcinoma
Orange - Thymoma
Oxnard (St. John’s Regional Medical Center) - Thymoma (3)
Riverside (Riverside County Medical Center) - Thymoma
San Diego (Naval Medical Center) - (1) Thymoma, type B2 (1); Thymoma type B1
San Diego (Scripps Clinic) - Thymoma

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Santa Barbara - Thymoma
Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma, type B (2); Thymoma (2)
Woodland Hills (Kaiser Permanente) - Thymoma
Alabama (Baptist Medical Center) - Thymoma
Alabama, Mt. Olive - Lymphocyte rich thymoma
Colorado (McKee Medical Center) - Thymoma
Florida (Baptist Hospital) - Lymphoblastic lymphoma (1); Lymphocytic predominant thymoma (2)
Georgia, Decatur - Atypical thymoma
Illinois, Burr Ridge - Langerhan's cell histiocytosis
Illinois (Heartland Regional Medical Center) - Thymoma, lymphocyte rich
Indiana (St. Joseph Hospital) - Lymphocyte predominant thymoma (1); Thymoma (1)
Iowa (Winnebago Medical Center) - Malignant lymphoma
Louisiana (Orleans Coroners Office) - Thymoma
Maryland (National Naval Medical Center) - Atypical thymoma
Massachusetts (Tufts-New England Medical Center) - Thymoma
Minnesota (Fairview Ridges Hospital) - Thymoma
Missouri (Missouri Delta Center) - Thymoma
Nevada (Sunrise Hospital) - Thymoma B1
New York, Buffalo - Invasive thymoma
New York (Long Island Jewish Medical Center) - Thymoma, AB type
New York (Stony Brook University) - Thymoma, lymphocyte predominant
Nevada (Sunrise Hospital) - Thymoma (WHO type B2)
Pennsylvania (Conemaugh Memorial Hospital) - Thymoma
Pennsylvania (Lehigh Valley Hospital) - Thymoma
Pennsylvania (Magee Women's Hospital) - Thymoma
Pennsylvania (St. Elizabeth Health Center) - Thymoma
Texas (Crystal Beach) - Thymoma primarily lymphocytic
Texas, Lubbock - Thymoma
Texas (St. Lukes Hospital) - Thymoma
Washington (Seattle VA Medical Center) - Thymoma
West Virginia (Greenbrier Valley Medical Center) - Thymoma, mixed lymphocytic epithelial
Australia (Royal Hobart Hospital) - Thymoma (WHO type B2)
Brazil, Sao Paulo - Thymoma (B2 type)
Canada (Pasqua Hospital) - Thymoma
Canada (Sherbrooke University Hospital) - Thymoma
Hong Kong (Kwong Wah Hospital) - Thymoma, WHO type B1
Ireland (Kerry General Hospital) - Thymoma, type B2
Ireland (University College Hospital) - Thymic carcinoma
Japan (Asashi General Hospital) - Thymoma, type AB
Japan (Kyoto University Hospital) - Thymoma, invasive, WHO B1
United Kingdom (Oxford Study Group) - Thymoma B1

Case 3 - Diagnosis:
Thymoma, type B
T-Y2300, M-85800

Case 3 - References:
Case No. 4, Accession No. 30726

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Arcadia (ABC Laboratories) - Teratoma with rhabdomyosarcoma
Fontana (Kaiser Permanente) - Rhabdomyosarcoma rising in teratoma
Hayward/Fremont - Immature teratoma
Long Beach (Long Beach VA Hospital) - Malignant teratoma (6)
Oakland - Mature teratoma with rhabdomyosarcoma
Orange - Teratoma with sarcomatous?
Oxnard (St. John's Regional Medical Center) - Teratoma, malignant (3)
Riverside (Riverside County Medical Center) - Rhabdomyosarcoma/teratoma
San Diego (Naval Medical Center) - Teratoma with somatic type malignancy (rhabdomyosarcoma and chondrosarcoma)
San Diego (Scripps Clinic) - Malignant teratoma with rhabdomyosarcoma
Santa Barbara - Malignant teratoma
Santa Rosa (Santa Rosa Memorial Hospital) - Teratoma with rhabdomyosarcoma (3); Teratoma with immaturity (1)
Woodland Hills (Kaiser Permanente) - Teratoma
Alabama (Baptist Medical Center) - Teratoma
Alabama, Mt. Olive - Mature cystic teratoma with sarcomatous transformation
Colorado (McKee Medical Center) - Immature teratoma with associated endodermal sinus tumor
Florida (Baptist Hospital) - Teratoma (1); Mixed germ cell tumor, teratoma and choriocarcinoma (1); Teratoma, malignant (1)
Georgia, Decatur - Teratoma with rhabdomyosarcoma
Illinois, Burr Ridge - Immature teratoma
Illinois (Heartland Regional Medical Center) - Rhabdomyosarcoma, arising in immature teratome
Indiana (St. Joseph Hospital) - Immature teratoma with yolk sac tumor (2)
Iowa (Winnesheik Medical Center) - Rhabdomyoma
Louisiana (Orleans Coroners Office) - Immature teratoma
Maryland (National Naval Medical Center) - Malignant mixed germ cell tumor
Massachusetts (Tufts-New England Medical Center) - Malignant teratoma
Minnesota (Fairview Ridges Hospital) - Malignant teratoma, with rhabdomyosarcoma vs. component
Missouri (Missouri Delta Center) - Teratoma
Nevada (Sunrise Hospital) - Immature teratoma
New York, Buffalo - Teratoma, type IV (Moran and Suster)
New York (Long Island Jewish Medical Center) - Teratoma with sarcomatous component
New York (Stony Brook University) - Pleomorphic sarcoma rising in a mature teratoma
Pennsylvania (Conemaugh Memorial Hospital) - Immature teratoma
Pennsylvania (Lehigh Valley Hospital) - Teratoma with rhabdomyosarcoma
Pennsylvania (Magee Women's Hospital) - Malignant mixed germ cell tumor
Pennsylvania (St. Elizabeth Health Center) - Teratoma, malignant
Texas (Crystal Beach) - Malignant teratoma (primarily epithelial malignancy)
Texas, Lubbock - Teratoma with malignant transformation
Texas (St. Lukes Hospital) - Immature teratoma
Washington (Seattle VA Medical Center) - Thymic teratoma with sarcomatoid yolk sac component
West Virginia (Greenbrier Valley Medical Center) - Rhabdomyosarcoma
Australia (Royal Hobart Hospital) - Rhabdomyosarcoma arising in thymic mediastinal teratoma
Brazil, Sao Paulo - Mature teratoma with benign striated muscle differentiation
Canada (Pasqua Hospital) - Teratoma with rhabdomyosarcoma

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Canada (Sherbrooke University Hospital) - Mixed germ cell tumor
Hong Kong (Kwong Wah Hospital) - Immature teratoma
Ireland (Kerry General Hospital) - Teratoma
Ireland (University College Hospital) - Immature teratoma
Japan (Asashi General Hospital) - Rhabdomyosarcoma arising in teratoma
Japan (Kyoto University Hospital) - Teratoma with rhabdomyosarcoma
United Kingdom (Oxford Study Group) - Mediastinal teratoma

Consultation submission: AFIP, Chandra A. Prabha, Col, MC: “Germ cell tumor with somatic type malignancy.”

Case 4 - Diagnosis:
Mediastinal malignant teratoma with rhabdomyosarcoma and mixed germ cell components
T-Y2300, M-86310

Case 4 - References:

Case No. 5, Accession No. 30390

Arcadia (ABC Laboratories) - Atypical osteochondroma
Fontana (Kaiser Permanente) - Osteochondroma
Hayward/Fremont - Osteochondroma
Long Beach (Long Beach VA Hospital) - Osteochondroma (6)
Oakland - Osteochondroma
Orange - Osteochondroma
Oxnard (St. John’s Regional Medical Center) - Osteochondroma vs. low grade chondrosarcoma (1); Osteochondroma (2)
Riverside (Riverside County Medical Center) - Osteochondroma
San Diego (Naval Medical Center) - Osteochondroma
San Diego (Scripps Clinic) - Myositis ossificans
Santa Barbara - Low grade chondrosarcoma
Santa Rosa (Santa Rosa Memorial Hospital) - Osteochondroma (4)
Woodland Hills (Kaiser Permanente) - Osteochondroma
Alabama (Baptist Medical Center) - Osteochondroma
Alabama, Mt. Olive - Osteochondroma
Colorado (McKee Medical Center) - Osteochondroma
Florida (Baptist Hospital) - Osteochondroma (3)
Georgia, Decatur - Synovial chondromatosis
Illinois, Burr Ridge - Chondrosarcoma
Illinois (Heartland Regional Medical Center) - Osteochondroma
Indiana (St. Joseph Hospital) - Osteochondroma (1); Well-differentiated chondrosarcoma (1)
Iowa (Winnebago Medical Center) - Chondroblastic osteosarcoma
Louisiana (Orleans Coroners Office) - Osteochondroma
Maryland (National Naval Medical Center) - Osteochondroma
Massachusetts (Tufts-New England Medical Center) - Osteochondroma
Minnesota (Fairview Ridges Hospital) - Osteochondroma
Missouri (Missouri Delta Center) - Chondroma
Nevada (Sunrise Hospital) - Osteochondroma
New York, Buffalo - Osteochondroma
New York (Long Island Jewish Medical Center) - Osteochondroma
New York (Stony Brook University) - Osteochondroma
Pennsylvania (Conemaugh Memorial Hospital) - Osteochondroma
Pennsylvania (Lehigh Valley Hospital) - Osteochondroma
Pennsylvania (Magee Women's Hospital) - Osteochondroma
Pennsylvania (St. Elizabeth Health Center) - Osteochondroma
Texas (Crystal Beach) - Osteochondroma
Texas, Lubbock - Osteochondroma
Texas (St. Lukes Hospital) - Osteochondroma
Washington (Seattle VA Medical Center) - Osteochondroma with features worrisome for low grade chondrosarcoma
West Virginia (Greenbrier Valley Medical Center) - Osteochondroma
Australia (Royal Hobart Hospital) - Osteochondroma
Brazl, Sao Paulo - Osteochondroma
Canada (Pasqua Hospital) - Osteochondroma
Canada (Sherbrooke University Hospital) - Osteochondroma
Hong Kong (Kwong Wah Hospital) - Osteochondroma
Ireland (Kerry General Hospital) - Osteochondroma
Ireland (University College Hospital) - Osteochondroma
Japan (Asahi General Hospital) - Osteochondroma
Japan (Kyoto University Hospital) - Exostosis (osteochondroma)
United Kingdom (Oxford Study Group) - Osteochondroma

Case 5 - Diagnosis:
Osteochondroma, hip
T-Y1500, M-92100

Case 5 - References:

Case No. 6, Accession No. 30560

Arcadia (ABC Laboratories) - Low grade gastrointestinal stromal tumor
Fontana (Kaiser Permanente) - Fibromatosis
Hayward/Fremont - Mesenteric fibromatosis
Long Beach (Long Beach VA Hospital) - Fibromatosis (6)
Oakland - GIST
Orange - GIST
Oxnard (St. John's Regional Medical Center) - Fibromatosis (2) GIST (1)
Riverside (Riverside County Medical Center) - GI stromal tumor

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CTTR, January 2008 "Minutes" (Subscription A)
San Diego (Naval Medical Center) - Fibromatosis
San Diego (Scripps Clinic) - Gastrointestinal stromal tumor
Santa Barbara - GIST
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor
Woodland Hills (Kaiser Permanente) - Gastrointestinal stromal tumor
Alabama (Baptist Medical Center) - Gastrointestinal stromal tumor
Alabama, Mt. Olive - Gastrointestinal stromal tumor, intermediate risk
Colorado (McKee Medical Center) - Desmoid tumor
Florida (Baptist Hospital) - GIST (3)
Georgia, Decatur - Fibromatosis
Santa Barbara - GIST
Santa Rosa (Santa Rosa Memorial Hospital) - Gastrointestinal stromal tumor
Woodland Hills (Kaiser Permanente) - Gastrointestinal stromal tumor
Alabama (Baptist Medical Center) - Gastrointestinal stromal tumor
Alabama, Mt. Olive - Gastrointestinal stromal tumor, intermediate risk
Colorado (McKee Medical Center) - Desmoid tumor
Florida (Baptist Hospital) - GIST (3)
Georgia, Decatur - Fibromatosis
Indiana (St. Joseph Hospital) - Gastrointestinal stromal tumor (GIST) (1); Fibromatosis (1)
Iowa (Winneshiek Medical Center) - Fibromatosis
Louisiana (Orleans Coroner's Office) - Gastrointestinal stromal tumor
Massachusetts (Tufts-New England Medical Center) - Gastrointestinal stromal tumor
Minnesota (Fairview Ridges Hospital) - Mesenteric fibromatosis
Missouri (Missouri Delta Center) - Fibromatosis
Nebraska (University of Nebraska Medical Center) - Gastrointestinal stromal tumor
New York, Buffalo - GIST
New York (Long Island Jewish Medical Center) - GIST
New York (Stony Brook University) - GIST
Pennsylvania (Conemaugh Memorial Hospital) - Gastrointestinal stromal tumor (GIST)
Pennsylvania (Lehigh Valley Hospital) - GIST
Pennsylvania (Magee Women's Hospital) - Fibromatosis
Pennsylvania (St. Elizabeth Health Center) - Gastrointestinal stromal tumor
Texas (Crystal Beach) - Gastrointestinal stromal tumor
Texas, Lubbock - Gastrointestinal stromal tumor
Texas (St. Lukes Hospital) - Fibromatosis
Washington (Seattle VA Medical Center) - Gastrointestinal stromal tumor
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor
Australia (Royal Hobart Hospital) - Mesenteric fibromatosis
Brazil, Sao Paulo - GIST (4) vs. fibromatosis (2)
Canada (Pasqua Hospital) - Fibromatosis
Canada (Sherbrooke University Hospital) - GIST
Hong Kong (Kwong Wah Hospital) - GIST
Ireland (Kerry General Hospital) - GIST
Ireland (University College Hospital) - Gastrointestinal stromal tumor
Japan (Asashi General Hospital) - Gastrointestinal stromal tumor/low grade
Japan (Kyoto University Hospital) - Gastrointestinal stromal tumor
United Kingdom (Oxford Study Group) - Mesenteric fibromatosis

**Case 6- Diagnosis:**
Mesenteric fibromatosis
T-50500, M-76100

**Directors Note:** Note the keloidal-type fibrosis, a common feature in mesenteric fibromatosis (drc)

**Case 6 - References:**
Case No. 7, Accession No. 30730

January 2008

Arcadia (ABC Laboratories) - High grade sarcoma, NOS
Fontana (Kaiser Permanente) - PNET (Askin tumor)
Hayward/Fremont - PNET (primitive neuroectodermal tumor)
Long Beach (Long Beach VA Hospital) - Malignant neoplasm, NOS (6)
Oakland - Lymphoma
Orange - MPNST
Oxnard (St. John’s Regional Medical Center) - Small round cell tumor (2); Lymphoproliferative (1);
Riverside (Riverside County Medical Center) - Ewing’s sarcoma
San Diego (Naval Medical Center) - Small round blue cell tumor (1); Favor solid variant alveolar rhabdomyosarcoma
San Diego (Scripps Clinic) - Malignant peripheral nerve sheath tumor
Santa Barbara - PNET
Santa Rosa (Santa Rosa Memorial Hospital) - Synovial sarcoma vs. primitive neuroectodermal tumor (PNET) (2);
Primitive neuroectodermal tumor (PNET) (1); Ewing sarcoma/primitive neuroectodermal tumor (Askin tumor) vs.
neuroblastoma (1)
Woodland Hills (Kaiser Permanente) - Alveolar rhabdomyosarcoma
Alabama (Baptist Medical Center) - Ewing’s PNET
Alabama, Mt. Olive - High grade sarcoma, favor epithelioid malignant peripheral nerve sheath tumor
Colorado (McKee Medical Center) - Rhabdoid tumor
Florida (Baptist Hospital) - PNET (1); Small round blue cell tumor, favor PNET (1); Primitive neuroectodermal tumor
(1)
Georgia, Decatur - Small round blue cell tumor, favor Ewing’s sarcoma/PNET, rule out lymphoma
Illinois, Burr Ridge - Ewing’s/PNET
Illinois (Heartland Regional Medical Center) - Small round cell malignant neoplasm, histiogenesis undetermined
Indiana (St. Joseph Hospital) - Poorly differentiated synovial sarcoma (1); Synovial sarcoma (1)
Iowa (Winnebago Medical Center) - Small blue cell tumor
Louisiana (Orleans Coroners Office) - Embryonal rhabdomyosarcoma
Maryland (National Naval Medical Center) - Primitive neuroectodermal tumor (PNET)
Massachusetts (Tufts-New England Medical Center) - Sarcoma, NOS
Minnesota (Fairview Ridges Hospital) - Ewing’s sarcoma/primitive neuroectodermal tumor
Missouri (Missouri Delta Center) - Extraskeletal Ewing’s
Nevada (Sunrise Hospital) - Large cell lymphoma
New York, Buffalo - Lymphoblastic lymphoma vs. high grade sarcoma
New York (Long Island Jewish Medical Center) - Rhabdomyosarcoma
New York (Stony Brook University) - Epithelioid malignant peripheral nerve sheath tumor
Pennsylvania (Conemaugh Memorial Hospital) - Malignant peripheral nerve sheath tumor (MPNST)
Pennsylvania (Lehigh Valley Hospital) - PNET
Pennsylvania (Magee Women’s Hospital) - MPNST
Pennsylvania (St. Elizabeth Health Center) - Primitive neuroectodermal tumor (PNET)
Texas (Crystal Beach) - Peripheral primitive neuroectodermal tumor
Texas, Lubbock - Peripheral neuroectodermal tumor
Texas (St. Lukes Hospital) - Malignant epithelioid peripheral nerve sheath tumor
Washington (Seattle VA Medical Center) - Malignant neoplasm, high grade
West Virginia (Greenbrier Valley Medical Center) - PPNET/Ewing’s sarcoma
Australia (Royal Hobart Hospital) - Small cell osteosarcoma is the preferred diagnosis
Brazil, Sao Paulo - MPNST (2); Sarcoma (2); Synovial sarcoma (1); Ewing
Canada (Pasqua Hospital) - Neuroblastoma
Canada (Sherbrooke University Hospital) - Large cell lymphoma
Hong Kong (Kwong Wah Hospital) - PNET
Ireland (Kerry General Hospital) - Malignant tumor, rhabdomyosarcoma
Ireland (University College Hospital) - Thoracoblastoma/extrapulmonary blastoma
Japan (Asahi General Hospital) - Epithelioid sarcoma

CTTR, January 2008 “Minutes” (Subscription A)
Japan (Kyoto University Hospital) - Malignant small round blue cell tumor (rhabdomyosarcoma, alveolar?)
United Kingdom (Oxford Study Group) - Undifferentiated sarcoma/PNET

Case 7 - Diagnosis:
High grade sarcoma (nos), branchial plexus
T-Y2100, M-80413

Case 7 - References:

Case No. 8, Accession No. 30647

Arcadia (ABC Laboratories) - Malignant melanoma
Fontana (Kaiser Permanente) - Malignant melanoma
Hayward/Fremont - Amelanotic melanoma
Long Beach (Long Beach VA Hospital) - Malignant melanoma (6)
Oakland - Acral lentiginous melanoma
Orange - Invasive melanoma
Oxnard (St. John's Regional Medical Center) - Malignant melanoma, spindle cell type
Riverside (Riverside County Medical Center) - Malignant melanoma
San Diego (Naval Medical Center) - Malignant melanoma
San Diego (Scripps Clinic) - Spindle cell (sarcomatoid) malignant melanoma
Santa Barbara - Spindle cell melanoma
Santa Rosa (Santa Rosa Memorial Hospital) - Melanoma (4)
Woodland Hills (Kaiser Permanente) - Malignant melanoma
Alabama (Baptist Medical Center) - Spindle cell melanoma
Alabama, Mt. Olive - Acral lentiginous melanoma
Colorado (McKee Medical Center) - Malignant melanoma
Florida (Baptist Hospital) - Monophasic synovial sarcoma (1); High grade malignancy, favor melanoma (1); Malignant melanoma with spindle cells (1)
Georgia, Decatur - Nodular melanoma
Illinois, Burr Ridge - Merkel cell carcinoma
Illinois (Heartland Regional Medical Center) - Malignant melanoma, spindle cell type
Indiana (St. Joseph Hospital) - Nodular spindle cell malignant melanoma (1); Malignant melanoma (1)
Iowa (Winnebago Medical Center) - Merkel cell tumor
Louisiana (Orleans Coroners Office) - Malignant melanoma
Maryland (National Naval Medical Center) - Melanoma
Massachusetts (Tufts-New England Medical Center) - Melanoma
Minnesota (Fairview Ridges Hospital) - Malignant melanoma
Missouri (Missouri Delta Center) - Spindle cell melanoma
Nevada (Sunrise Hospital) - Malignant melanoma, acral type
New York, Buffalo - Malignant melanoma
New York (Long Island Jewish Medical Center) - Melanoma
New York (Stony Brook University) - Malignant spitzoid melanoma
Pennsylvania (Conemaugh Memorial Hospital) - Melanoma
Pennsylvania (Lehigh Valley Hospital) - Melanoma
Pennsylvania (Magee Women's Hospital) - Acral lentiginous melanoma
Pennsylvania (St. Elizabeth Health Center) - Malignant melanoma

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Texas (Crystal Beach) - Melanoma
Texas, Lubbock - Spindle cell melanoma
Texas (St. Lukes Hospital) - Malignant melanoma
Washington (Seattle VA Medical Center) - Malignant neoplasm, prob melanoma
West Virginia (Greenbrier Valley Medical Center) - Malignant melanoma of acral skin
Australia (Royal Hobart Hospital) - Malignant melanoma of acral skin (acral lentiginous melanoma)
Brazil, Sao Paulo - Nodular melanoma
Canada (Penticton Hospital) - Melanoma
Canada (Sherbrooke University Hospital) - Spindle cell carcinoma
Hong Kong (Kwong Wah Hospital) - Malignant melanoma
Ireland (Kerry General Hospital) - Malignant melanoma
Ireland (University College Hospital) - Ulcerating spindle cell malignant melanoma
Japan (Asashi General Hospital) - Nodular melanoma
Japan (Kyoto University Hospital) - Malignant melanoma
United Kingdom (Oxford Study Group) - Melanoma

Case 8 - Diagnosis:
Melanoma, heel
T-Y9600, M-87203

Case 8 - References:

Case No. 9, Accession No. 29870

Arcadia (ABC Laboratories) - Hodgkin’s lymphoma, mixed cellularity type
Fontana (Kaiser Permanente) - Hodgkin lymphoma
Hayward/Fremont - Lymphocyte rich classic hodgkin disease
Long Beach (Long Beach VA Hospital) - Hodgkin’s disease (classic type) (1); Hodgkin’s lymphoma (1)
Oakland - Mixed cellularity Hodgkin’s
Orange - Classical Hodgkin’s disease
Oxnard (St. John’s Regional Medical Center) - Hodgkin’s lymphoma (3)
Riverside (Riverside County Medical Center) - Hodgkin’s lymphoma
San Diego (Naval Medical Center) - Classical Hodgkin’s lymphoma
San Diego (Scripps Clinic) - Nodular sclerosis Hodgkin lymphoma
Santa Barbara - NS Hodgkin’s
Santa Rosa (Santa Rosa Memorial Hospital) - Hodgkin’s disease (3); Classical Hodgkin’s lymphoma, mixed cellularity subtype (1)
Woodland Hills (Kaiser Permanente) - Hodgkin lymphoma
Alabama (Baptist Medical Center) - Hodgkin lymphoma
Alabama, Mt. Olive - Hodgkin lymphoma, classical type
Colorado (McKee Medical Center) - Nodular sclerosis Hodgkin lymphoma
Florida (Baptist Hospital) - Hodgkin’s, cellular phase NS (1); Classical Hodgkin’s (2)
Georgia, Decatur - Mixed cellularity classical Hodgkins lymphoma
Illinois, Burr Ridge - Hodgkin lymphoma
Illinois (Heartland Regional Medical Center) - Hodgkin’s lymphoma, mixed cellularity
Indiana (St. Joseph Hospital) - Lymphocyte predom (1); Hodgkin’s disease (1)
Iowa (Winneshiek Medical Center) - Hodgkin’s disease
Louisiana (Orleans Coroners Office) - Hodgkin’s disease, nodular lymphocytic type
Maryland (National Naval Medical Center) - Hodgkin lymphoma
Massachusetts (Tufts-New England Medical Center) - Classical Hodgkin’s lymphoma

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Minnesota (Fairview Ridges Hospital) - Classical Hodgkin lymphoma
Missouri (Missouri Delta Center) - Hodgkin's lymphoma, lymphocyte predominant
Nevada (Sunrise Hospital) - Hodgkin's lymphoma, nodular sclerosis type
New York, Buffalo - Hodgkin lymphoma, mixed cellularity
New York (Long Island Jewish Medical Center) - Classic Hodgkin's disease, mixed cellularity
New York (Stony Brook University) - Classical Hodgkin's lymphoma
Pennsylvania (Conemaugh Memorial Hospital) - Hodgkin lymphoma, classic-mixed cellularity
Pennsylvania (Lehigh Valley Hospital) - Hodgkin's disease
Pennsylvania (Magee Women's Hospital) - Hodgkin's lymphoma
Pennsylvania (St. Elizabeth Health Center) - Hodgkin lymphoma, classical type, mixed cellularity
Pennsylvania (Stoney Brook University) - Classical Hodgkin's lymphoma
Pennsylvania (Lehigh Valley Hospital) - Hodgkin's disease
Pennsylvania (Magee Women's Hospital) - Hodgkin's lymphoma
Pennsylvania (St. Elizabeth Health Center) - Hodgkin lymphoma, nodular sclerosis
New York, Buffalo - Hodgkin lymphoma, mixed cellularity
New York, Long Island - Classical Hodgkin's disease
New York, Stony Brook - Classical Hodgkin's lymphoma
Pennsylvania (Conemaugh Memorial Hospital) - Hodgkin lymphoma, classic-mixed cellularity
Pennsylvania (Lehigh Valley Hospital) - Hodgkin's disease
Pennsylvania (Magee Women's Hospital) - Hodgkin's lymphoma
Pennsylvania (St. Elizabeth Health Center) - Hodgkin lymphoma, classical type, mixed cellularity
Texas (Crystal Beach) - Lymphoma Hodgkin's type
Texas, Lubbock - Anaplastic large cell lymphoma
Texas, St. Lukes Hospital - Nodular sclerosing Hodgkin lymphoma
Washington (Seattle VA Medical Center) - Hodgkin's disease, mixed cellularity
West Virginia (Greenbrier Valley Medical Center) - Hodgkin's lymphoma
Australia (Royal Hobart Hospital) - Hodgkin disease
Brazil, Sao Paulo - Hodgkin lymphoma, mixed cellularity
Canada (Pasqua Hospital) - Classical Hodgkin's disease
Canada (Sherbrooke University Hospital) - Hodgkin lymphoma (nodular sclerosis)
Hong Kong (Kwong Wah Hospital) - Hodgkin's lymphoma, nodular sclerosis
Ireland (Kerry General Hospital) - Classical Hodgkin lymphoma
Ireland (University College Hospital) - Mixed cellularity Hodgkin's lymphoma
Japan (Asashi General Hospital) - Hodgkin lymphoma, mixed cellularity
Japan (Kyoto University Hospital) - Hodgkin's lymphoma, classical
United Kingdom (Oxford Study Group) - Nodular sclerosing Hodgkin lymphoma

Case 9 - Diagnosis:
Nodular sclerosing Hodgkin lymphoma, cervical lymph node
T-08200, M-95903

Consultation: Thomas Sebo, M.D., Mayo Clinic: "Nodular sclerosing Hodgkin lymphoma."

Case 9 - References:

Case No. 10, Accession No. 30472

Arcadia (ABC Laboratories) - Osteosarcoma
Fontana (Kaiser Permenente) - Osteosarcoma
Hayward/Fremont - Osteoblastic osteosarcoma
Long Beach (Long Beach VA Hospital) - Osteosarcoma (6)
Oakland - Osteosarcoma
Orange - Osteosarcoma
Oxnard (St. John's Regional Medical Center) - Osteosarcoma (3)
Riverside (Riverside County Medical Center) - Osteosarcoma
San Diego (Naval Medical Center) - Osteosarcoma
San Diego (Scripps Clinic) - Osteosarcoma

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Case 10 - Diagnosis:
Osteoblastic osteosarcoma, distal femur
T-11710, M-91803

Case 10 - References: