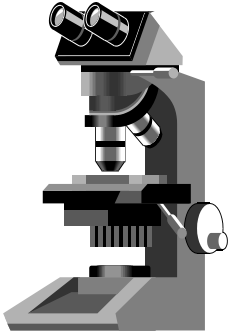


CALIFORNIA
TUMOR TISSUE REGISTRY



GENERAL PATHOLOGY

Minutes – Subscription A

March 1999

SUGGESTED READING (General Topics from Recent Literature):

- Rarity of Genomic Instability in Pathogenesis of Systemic Anaplastic Large Cell Lymphoma (ALCL) in Immunocompetent Patients. Hodges KB, Vnencak-Jones CL, Larson RS and Kinney MC. *Human Pathol* 1999; 30(2):173-177.
- Some Thoughts About the Past and Future of Pathology Work Force. Vance, RP. *Human Pathol* 1999; 30(2):117-122.
- Dendritic Fibromyxolipoma. Clinicopathologic Study of a Distinctive Benign Soft Tissue Lesion That May Be Mistaken for a Sarcoma. *Annals of Diag Pathol* 1998; 2(2):111-120.
- Multidisciplinary Cancer Clinics. Their Time Has Come. Chang, AE. *J of Surg Oncol* 1998; 69(4):203-205.

California Tumor Tissue Registry
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Loma Linda University School of Medicine
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Loma Linda, California 92350
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INLAND (Riverside/San Bernardino) - Carcinosarcoma (3); Spindle cell carcinoma (adenocarcinoma with spindle cell component) (1)
ORANGE - Carcinosarcoma
BAKERSFIELD (San Joaquin Community Hospital) - Mesothelioma
BAKERSFIELD (Central Valley Study Group) - Spindle cell squamous cell carcinoma
VENTURA (Unilab) - Sarcomatoid carcinoma (2)
SANTA ROSA - Carcinosarcoma (3)
SACRAMENTO (UC Davis) - Carcinosarcoma, primary lung vs. metastatic sarcomatoid renal cell carcinoma vs. other primary site (?testicle)
LONG BEACH - Carcinosarcoma (4); Pulmonary blastoma (3)
BAY AREA - Synovial sarcoma (1); Carcinosarcoma (1); Combined small cell carcinoma (1)
SAN DIEGO (Naval Medical Center) - Carcinosarcoma (2); Spindle cell carcinoma (6); Poorly differentiated adenocarcinoma with prominent spindle cells (2); Mesothelioma (1)
HAYWARD (St. Rose Hospital) - Pulmonary blastoma
NEVADA (Reno) - Carcinosarcoma (2)
IDAHO (IDX Pathology) - Carcinosarcoma
COLORADO (North Colorado Medical Ctr) - Carcinosarcoma
TEXAS (Tech Hlth Science Ctr) - Carcinosarcoma (cannot rule out synovial sarcoma)
MICHIGAN (St. Joseph Mercy Hospital) - Carcinosarcoma (3)
MICHIGAN (Foote Hospital) - Carcinosarcoma
MICHIGAN St. Mary's Hospital) - Carcinosarcoma
NEBRASKA (Creighton) - Carcinosarcoma
INDIANA (Goshen) - Spindle cell carcinoma, lung
NORTH CAROLINA (WNC Pathology Group) - Sarcomatoid carcinoma (2); Biphasic pulmonary blastoma (1)
FLORIDA (Tallahassee) - Carcinosarcoma (4)
MARYLAND (National Naval Medical Center) - Spindle cell carcinoma (7); Pulmonary blastoma (2)
MARYLAND (Woodbine) - Poorly differentiated carcinoma with sarcomatoid stroma (1); Carcinosarcoma (1)
PENNSYLVANIA (Lehigh Valley Hospital) - Carcinosarcoma vs. pulmonary blastoma (1); Pulmonary blastoma (carcinosarcoma) (epithelial component - adenocarcinoma (1); Carcinosarcoma (2); Carcinoma with spindle cell component (1); Spindle cell carcinoma (1)
PENNSYLVANIA (BB Group) - Carcinosarcoma (biphasic sarcomatoid carcinoma)
PENNSYLVANIA (Conemaugh Memorial Hospital) - Carcinosarcoma
NEW YORK (Northport) - Biphasic blastoma (1); Carcinosarcoma (1)
NEW YORK (New Hyde Park) - Biphasic tumor, favor carcinosarcoma
NEW YORK (Impath) - Carcinosarcoma
NEW JERSEY (Summit) - Metaplastic carcinoma, pulmonary blastoma, carcinosarcoma
MASSACHUSETTS (Berkshire Medical Center) - Spindle cell carcinoma (2); vs. pulmonary blastoma (1); Carcinosarcoma (3)
MASSACHUSETTS (Longmeadow) - Carcinosarcoma, lung
AUSTRALIA (Sydney) - Pulmonary blastoma, mixed type (4); Carcinoma sarcoma (2)
SAUDI ARABIA (King Khalid Univ Hospital) - Biphasic pulmonary blastoma (5)

DIAGNOSIS:**CARCINOSARCOMA, LUNG**

T28000, M89803

REFERENCES:

- Happi O and Wick MR. Sarcomatoid Neoplasms of the Respiratory Tract. *Semin Diagn Pathol* 1993; 10(2):137-147.
 Ro JY, Chen JL, Lee JS, et al. Sarcomatoid Carcinoma of the Lung. Immunohistochemical and Ultrastructural Studies of 14 Cases. *Cancer* 1992; 69(2):376-386.
 Zimmermann KG, Sobonya RE and Payne CM. Histochemical and Ultrastructural Features of an Unusual Pulmonary Carcinosarcoma. *Hum Pathol* 1981; 12(11):1046-1051.
 Ishida T, Tateishi M, Kaneko S, et al. Carcinosarcoma and Spindle Cell sarcoma of the Lung. Clinicopathologic and Immunohistochemical Studies. *J Thorac Cardiovasc Surg* 1990; 100(6):844-852.
 Addis BJ and Corrin B. Pulmonary Blastoma, Carcinosarcoma, and Spindle Cell Carcinoma of the Lung. An Immunohistochemical Study of Keratin Intermediate Filaments. *J Pathol* 1986; 147(4):291.

INLAND (Riverside/San Bernardino) - Malignant plasmacytoma (1); Lymphoma (1); Malignant lymphoma, large cell (2)

ORANGE - Large B-cell lymphoma

BAKERSFIELD (San Joaquin Community Hospital) - B-cell lymphoma, plasmacytoid

BAKERSFIELD (Central Valley Study Group) - Diffuse large cell lymphoma

VENTURA (Unilab) - Malignant lymphoma of malt, high grade (2)

SANTA ROSA - Non-Hodgkin's lymphoma, large cell (1); Malignant, non-Hodgkin's lymphoma (1); Diffuse large cell lymphoma (1)

SACRAMENTO (UC Davis) - Large cell diffuse B-cell lymphoma

LONG BEACH - Diffuse large cell lymphoma (B-cell) (7)

BAY AREA - B-cell lymphoma, diffuse, high grade (3)

SAN DIEGO (Naval Medical Center) - Diffuse large B-cell lymphoma (11)

HAYWARD (St. Rose Hospital) - ML, large non-cleaved B-cell

NEVADA (Reno) - Diffuse large B-cell lymphoma (1); High grade B-cell lymphoma (1)

IDAHO (IDX Pathology) - Malignant B-cell lymphoma, large cell

COLORADO (North Colorado Medical Ctr) - Diffuse large cell lymphoma

TEXAS (Tech Hlth Science Ctr) - Malignant lymphoma (c/w Mediterranean lymphoma)

MICHIGAN (St. Joseph Mercy Hospital) - Diffuse large cell lymphoma (2); Immunoblastic lymphoma (1)

MICHIGAN (Foote Hospital) - Small non-cleaved, non-Burkitt's lymphoma

MICHIGAN (St. Mary's Hospital) - Burkitt's-like lymphoma

NEBRASKA (Creighton) - Maltoma, high grade

INDIANA ((Goshen) - Lymphoma, cecum

NORTH CAROLINA (WNC Pathology Group) - Diffuse large cell lymphoma-Burkitt-like (2); Large cell B-cell lymphoma (1)

FLORIDA (Tallahassee) - Large cell lymphoma, diffuse B-cell (4)

MARYLAND (National Naval Medical Center) - High grade B-cell lymphoma (10)

MARYLAND (Woodbine) - Plasmacytoma (1); Diffuse large B-cell lymphoma with plasmacytoid features (1)

PENNSYLVANIA (Lehigh Valley Hospital) - Large cell lymphoma (non-Hodgkin's) diffuse B-cell (1); Malignant lymphoma of bowel (with large atypical cells, histiocytic vs. immunoblastic with many tangible bodies (1); Large cell B-cell lymphoma, diffuse (2); Malignant lymphoma, B-cell type, large cell vs. immunoblastic (1); Malignant lymphoma, large cell cleaved, diffuse (1)

PENNSYLVANIA (BB Group) - Large cell lymphoma vs. Burkitt's

PENNSYLVANIA (Conemaugh Memorial Hospital) - Large B-cell lymphoma

NEW YORK (Northport) - Diffuse large cell lymphoma, B-cell type

NEW YORK (New Hyde Park) - Diffuse large cell lymphoma, B-cell type

NEW YORK (Impath) - Plasmacytoid B-cell lymphoma

NEW JERSEY (Summit) - Lymphoma large cell type (2); Burkitt's lymphoma (1)

MASSACHUSETTS (Berkshire Medical Center) - Burkitt's

MASSACHUSETTS (Longmeadow) - B-cell lymphoma, high grade, Burkitt-type, intestine

AUSTRALIA (Sydney) - Diffuse large cell non-Hodgkin's lymphoma (5); Burkitt's like NHL (1)

SAUDI ARABIA (King Khalid Univ Hospital) - High grade B-cell lymphoma (5)

DIAGNOSIS:

DIFFUSE LARGE B-CELL LYMPHOMA, CECUM

T67100, M95903

CONSULTATION: Jonathan W. Said, M.D. UCLA Medical Center. "Malignant lymphoma, diffuse large cell B-cell type."

REFERENCES:

- Levison DA, Hall PA, and Blackshaw AJ. The Gut-Associated Lymphoid Tissue and Its Tumours. *Curr Top Pathol* 1990; 81:134-175.
 Van Der Valk P, and Meyer JLM. The Non-Hodgkin's Lymphomas. Old and New Thinking. *Histopathology* 1988; 13 (4):367-384.
 Hall PA, and Levison D. Malignant Lymphomas in the Gastrointestinal Tract. *Semin Diagn Pathol* 1991; 8(3):163-177.
 Lasota J, Hyjek E, Koo CH, et al. Cytokeratin-Positive Large-Cell Lymphomas of B-Cell Lineage. A Study of Five Phenotypically Unusual Cases Verified by Polymerase Chain Reaction. *Am J Surg Pathol* 1996; 20(3):346-354.
 Chan JKC. A New Classification of Lymphomas. The Revised European-American Classification. *Advances Anat Pathol* 1994; 1(3):166-172.

INLAND (Riverside/San Bernardino) - Mesothelioma, malignant (1); GI stromal tumor (high malignant potential) (1); Gastrointestinal stromal tumor, high grade (2)

ORANGE - Malignant GIST

BAKERSFIELD (San Joaquin Community Hospital) - Poorly differentiated tumor, r/o lymphoma

BAKERSFIELD (Central Valley Study Group) - Diffuse large cell lymphoma

VENTURA (Unilab) - Mesothelioma (2)

SANTA ROSA - Sarcoma probable rhabdomyosarcoma (1); Malignant, rhabdomyosarcoma, r/o other (1); Malignant G.I.S.T. (1)

SACRAMENTO (UC Davis) - Gastrointestinal stromal tumor, malignant (rule out lymphoma and melanoma with immunostains)

LONG BEACH - Sarcoma, NOS (7)

BAY AREA - Malignant gastrointestinal stromal tumor (3)

SAN DIEGO (Naval Medical Center) - Malignant gastrointestinal stromal tumor (GIST) (11)

HAYWARD (St. Rose Hospital) - GI stromal tumor, malignant

NEVADA (Reno) - Malignant gastrointestinal stromal tumor (1); Sarcoma, NOS (1)

IDAHO (IDX Pathology) - Malignant GI stromal tumor

COLORADO (North Colorado Medical Ctr) - Small round blue cell tumor (favor Ewing's, fibrosarcoma)

TEXAS (Tech Hlth Science Ctr) - Malignant GI stromal tumor

MICHIGAN (St. Joseph Mercy Hospital) - Malignant gastrointestinal stromal tumor (3)

MICHIGAN (Foote Hospital) - Malignant epithelioid gastrointestinal stromal tumor

MICHIGAN (St. Mary's Hospital) - GI stromal sarcoma, high grade

NEBRASKA (Creighton) - GIST

INDIANA (Goshen) - Sarcoma, large bowel

NORTH CAROLINA (WNC Pathology Group) - Epithelial leiomyosarcoma, GIST, malignant (1); Malignant GIST (2)

FLORIDA (Tallahassee) - Sarcoma (4)

MARYLAND (National Naval Medical Center) - Malignant gastrointestinal stromal tumor (10)

MARYLAND (Woodbine) - Undifferentiated sarcoma (1); Lymphoma (1)

PENNSYLVANIA (Lehigh Valley Hospital) - Malignant small cell tumor, favor lymphoma (1); Round cell liposarcoma (1); Small round cell poorly differentiated malignancy (1); Malignant small intestinal stromal tumor (1); Favor malignant GIST, would r/o melanoma (1); Malignant lymphoma, large cell, diffuse (1)

PENNSYLVANIA (BB Group) - Lymphoma vs. round cell tumor, desmoplastic

PENNSYLVANIA (Conemaugh Memorial Hospital) - Leiomyosarcoma

NEW YORK (Northport) - Malignant GIST with rhabdoid features

NEW YORK (New Hyde Park) - Malignant gastrointestinal stromal tumor

NEW YORK (Impath) - Granulocytic sarcoma

NEW JERSEY (Summit) - Sarcoma (NOS), rhabdoid tumor, leiomyosarcoma

MASSACHUSETTS (Berkshire Medical Center) - GIST type 4 (3); vs. large cell lymphoma (2)

MASSACHUSETTS (Longmeadow) - Leiomyosarcoma, intestine, GIST

AUSTRALIA (Sydney) - Embryonal rhabdomyosarcoma

SAUDI ARABIA (King Khalid Univ Hospital) - Malignant stromal tumor (5)

DIAGNOSIS:

MALIGNANT GASTROINTESTINAL STROMAL TUMOR (GIST), BOWEL
T50500, M88903

REFERENCES:

- Sarlomo-Pikala M, Kovatich AJ, et al. CD-117: A Sensitive Marker for Gastrointestinal Stromal Tumors That is More Sensitive Than CD-34. *Mod Pathol* 1998; 11(8):738-744.
- Lerma E, Lee SJ, Tugues D, Oliva E, et al. Ploidy of 36 Stromal Tumors of the Gastrointestinal Tract. A Comparative Study with Flow Cytometry and Image Analysis. *Anal Quant Cytol Histol* 1994; 16(6):435-440.
- Franquemont DW and Frierson HF, Jr. Proliferating Cell Nuclear Antigen Immunoreactivity and Prognosis of Gastrointestinal Stromal Tumors. *Mod Pathol* 1995; 8(5):473-477.
- Miettinen M, Virolainen M, and Rikala MS. Gastrointestinal Stromal Tumors. Value of CD-34 Antigen in Their Identification and Separation from True Leiomyomas and Schwannomas. *Am J Surg Pathol* 1995; 19(2):207-216

INLAND (Riverside/San Bernardino) - Malignant melanoma (4)
ORANGE - High grade neuroendocrine carcinoma
BAKERSFIELD (San Joaquin Community Hospital) - Neuroendocrine tumor, malignant
BAKERSFIELD (Central Valley Study Group) - Neuroendocrine carcinoma
VENTURA (Unilab) - Carcinoid (2)
SANTA ROSA - Neuroendocrine carcinoma, r/o poorly differentiated melanoma (1); Malignant, consistent with neuroendocrine neoplasm morphologically suggestive of melanoma (1); Neuroendocrine carcinoma (1)
SACRAMENTO (UC Davis) - Malignant neural tumor, high grade, r/o plexosarcoma
LONG BEACH - Malignant melanoma (7)
BAY AREA - Cloacogenic carcinoma (1); Neuroendocrine carcinoma (1); Merkel cell carcinoma (1)
SAN DIEGO (Naval Medical Center) - Melanoma (5); Gastrointestinal autonomic nerve tumor (GAN), malignant (3); Malignant GIST (1)
HAYWARD (St. Joseph Mercy Hospital) - Neuroendocrine carcinoma
NEVADA (Reno) - High grade sarcoma, possible peripheral nerve sheath derivation (1); Sarcoma, NOS (1)
IDAHO (IDX Pathology) - Cloacogenic carcinoma
COLORADO (North Colorado Medical Ctr) - Malignant peripheral nerve sheath tumor
TEXAS (Tech Hlth Science Ctr) - Poorly differentiated carcinoma
MICHIGAN (St. Joseph Mercy Hospital) - Melanoma (2); Neuroendocrine carcinoma (1)
MICHIGAN (Foote Hospital) - Malignant large cell neuroendocrine neoplasm
MICHIGAN (St. Mary's Hospital) - Melanoma
NEBRASKA (Creighton) - Neuroendocrine carcinoma, high grade
INDIANA (Goshen) - Cloacogenic carcinoma
NORTH CAROLINA (WNC Pathology Group) - Melanoma (2); Malignant GIST (1)
FLORIDA (Tallahassee) - Melanoma (4)
MARYLAND (National Naval Medical Center) - Poorly differentiated neuroendocrine carcinoma (8); Malignant melanoma (2)
MARYLAND (Woodbine) - Malignant peripheral nerve sheath tumor (1); Neuroendocrine carcinoma (1)
PENNSYLVANIA (Lehigh Valley Hospital) - Small cell undifferentiated carcinoma of the rectum (1); Malignant melanoma of rectum (4); Poorly differentiated malignancy with neuroendocrine differentiation (1)
PENNSYLVANIA (BB Group) - Neuroendocrine carcinoma, large cell
PENNSYLVANIA (Conemaugh Memorial Hospital) - Undifferentiated carcinoma with neural differentiation
NEW YORK (Northport) - Sarcoma with neurogenic features
NEW YORK (New Hyde Park) - Neuroendocrine carcinoma
NEW YORK (Impath) - Melanoma
NEW JERSEY (Summit) - Melanoma (3)
MASSACHUSETTS (Berkshire Medical Center) - Melanoma (4); vs. Malignant neuroendocrine tumor (1)
MASSACHUSETTS (Longmeadow) - Malignant melanoma, rectum
AUSTRALIA (Sydney) - Malignant melanoma
SAUDI ARABIA (King Khalid Univ Hospital) - Malignant stromal tumor with neural differentiation (5)

DIAGNOSIS:

MALIGNANT MELANOMA, RECTUM
 T68000, M87203

REFERENCES:

Cooper PH, Mills SE and Allen S. Malignant Melanoma of the Anus. Report of 12 Patients and Analysis of 255 Additional Cases. *Dis Colon Rectum* 1982; 25(7):693-703.
 Slingluff CL, Vollmer RT and Seigler HF. Anorectal Melanoma. Clinical Characteristics and Results of Surgical Management in Twenty-Four Patients. *Surg* 1990; 107(7):1-9.
 Ross M, Pezzi C, Pezzi T, et al. Patterns of Failure in Anorectal Melanoma. A Guide to Surgical Therapy. *Arch Surg* 1990; 125(3):313-316.

INLAND (Riverside/San Bernardino) - Carcinoid ovary (1); Sertoli cell tumor (3)
ORANGE - Granulosa cell tumor
BAKERSFIELD (San Joaquin Community Hospital) - Sex cord stromal tumor, favor thecoma
BAKERSFIELD (Central Valley Study Group) - Cellular fibroma
VENTURA (Unilab) - Granulosa cell tumor (2)
SANTA ROSA - Thecoma vs. sex cell tumor (1); Benign, thecoma/fibroma (1); Granulosa cell tumor (1)
SACRAMENTO (UC Davis) - Sex cord stromal tumor, favor granulosa cell tumor
LONG BEACH - Granulosa cell tumor (5); Sex cord tumor, NOS (2)
BAY AREA - Sex cord stromal tumor (3); (cannot r/o carcinoid or Krukenberg tumor)
SAN DIEGO (Naval Medical Center) - Adult granulosa cell tumor (11)
HAYWARD (St. Rose Hospital) - Granulosa cell tumor
NEVADA (Reno) - Granulosa cell tumor (2)
IDAHO (IDX Pathology) - Granulosa cell tumor vs. Sertoli-Leydig cell tumor
COLORADO (North Colorado Medical Ctr) - Granulosa cell tumor
TEXAS (Tech Hlth Science Ctr) - Granulosa cell tumor
MICHIGAN (St. Joseph Mercy Hospital) - Sertoli-Leydig cell tumor (2); Sex cord stromal tumor unclassified type (1)
MICHIGAN (Foote Hospital) - Adult granulosa cell tumor
MICHIGAN St. Mary's Hospital - Sclerosing stromal tumor
NEBRASKA (Creighton) - Sex cord stromal tumor
INDIANA (Goshen) - Lutenized follicle cyst (?)
NORTH CAROLINA (WNC Pathology Group) - Metastatic carcinoma, breast, lobular type (2); Stromal tumor with hilus/Leydig cell hyperplasia (1)
FLORIDA (Tallahassee) - Sertoli cell tumor
MARYLAND (National Naval Medical Center) - Granulosa cell tumor (10)
MARYLAND (Woodbine) - Thecoma (2)
PENNSYLVANIA (Lehigh Valley Hospital) - Granulosa cell tumor (5); Favor adult granulosa cell tumor, would r/o small cell carcinoma (1)
PENNSYLVANIA (BB Group) - Granulosa cell tumor
PENNSYLVANIA (Conemaugh Memorial Hospital) - Ovarian tumor of probable Wolffian origin
NEW YORK (Northport) - Sclerosing stromal tumor
NEW YORK (New Hyde Park) - Granulosa cell tumor
NEW YORK (Impath) - Metastatic lobular carcinoma (breast) in ovary
NEW JERSEY (Summit) - Granulosa cell tumor (3)
MASSACHUSETTS (Berkshire Medical Center) - Adult type granulosa cell tumor (6)
MASSACHUSETTS (Longmeadow) - Sertoli-Leydig cell tumor, ovary, well-differentiated
AUSTRALIA (Sydney) - Granulosa cell tumor
SAUDI ARABIA (King Khalid Univ Hospital) - Granulosa cell tumor, adult type/? Endometrioid stromal sarcoma

DIAGNOSIS:**GRANULOSA CELL TUMOR, OVARY**

T87000, M86201

REFERENCES:

- Otis CN, Powell JL, Barbuto D and Carcangiu ML. Intermediate Filamentous Proteins in Adult Granulosa Cell Tumors. An Immunohistochemical Study of 25 Cases. *Am J of Surg Pathol* 1992; 16(10):962-968.
- Costa M, DeRose P, Roth L, Brescia R, et al. Immunohistochemical Phenotype of Ovarian Granulosa Cell Tumors. Absence of Epithelial Membrane Antigen has Diagnostic Value. *Hum Pathol* 1994; 25(1):60-66.
- Fox H, Agawal K and Langley FA. A Clinicopathologic Study of 92 Cases of Granulosa Cell Tumors of the Ovary with Special Reference to the Factors Influencing Prognosis. *Cancer* 1975; 35(1):231-241.
- Costa MJ, Walls J HT (ASCP), Ames P and Roth LM. Transformation in Recurrent Ovarian Granulosa Cell Tumors. Ki67 (MIB-1) and p53 Immunohistochemistry Demonstrates a Possible Molecular Basis for the Poor Histopathologic Prediction of Clinical Behavior. *Hum Pathol* 1996; 27(3):274-281.
- Flemming P, Wellman A, Maschek H, et al. Monoclonal Antibodies Against Inhibin Represent Key Markers for Adult Granulosa Cell Tumors of the Ovary Even in Their Metastases. A Report of Three Cases with Late Metastasis, Being Previously Misinterpreted as Hemangiopericytoma. *Am J Surg Pathol* 1995; 19(8):927-933.

INLAND (Riverside/San Bernardino) - Giant cell tumor of bone (3)
ORANGE - Giant cell tumor
BAKERSFIELD (San Joaquin Community Hospital) - Giant cell tumor
BAKERSFIELD (Central Valley Study Group) - Clear cell chondrosarcoma
VENTURA (Unilab) - Giant cell tumor of bone (2)
SANTA ROSA - Giant cell tumor (2); Benign (probably), giant cell tumor (1); Giant cell tumor of bone vs. aneurysmal bone cyst
SACRAMENTO (UC Davis) - Giant cell tumor
LONG BEACH - Giant cell tumor (7)
BAY AREA - Giant cell tumor of bone (3)
SAN DIEGO (Naval Medical Center) - Giant cell tumor (11)
HAYWARD (St. Rose Hospital) - Giant cell tumor
NEVADA (Reno) - Giant cell tumor of bone (2)
IDAHO (IDX Pathology) - Giant cell tumor of bone vs. ABC
COLORADO (North Colorado Medical Ctr) - Aneurysmal bone cyst (rule out giant cell tumor)
TEXAS (Tech Hlth Science Ctr) - Giant cell tumor
MICHIGAN (St. Joseph Mercy Hospital) - Giant cell tumor (2); Aneurysmal bone cyst (1)
MICHIGAN (Foote Hospital) - Giant cell tumor
MICHIGAN (St. Mary's Hospital) - Giant cell tumor of epiphysis
NEBRASKA (Creighton) - Giant cell tumor of bone
INDIANA (Goshen) - Giant cell tumor of bone
NORTH CAROLINA (WNC Pathology Group) - Giant cell tumor (3)
FLORIDA (Tallahassee) - Giant cell tumor
MARYLAND (National Naval Medical Center) - Giant cell tumor (9)
MARYLAND (Woodbine) - Giant cell tumor (2)
PENNSYLVANIA (Lehigh Valley Hospital) - Giant cell tumor of bone (6)
PENNSYLVANIA (BB Group) - Infarcted giant cell tumor with low grade MFH
PENNSYLVANIA (Conemaugh Memorial Hospital) - Giant cell tumor/? osteosarcoma, fibrous, giant cell type
NEW YORK (Northport) - Giant cell tumor
NEW YORK (New Hyde Park) - Giant cell tumor with focal regressive change
NEW YORK (Impath) - Giant cell tumor with foci of aneurysmal bone cyst
NEW JERSEY (Summit) - Giant cell tumor of bone (2); Fibrous histiocytoma (1)
MASSACHUSETTS (Berkshire Medical Center) - Giant cell tumor of bone (6)
MASSACHUSETTS (Longmeadow) - Benign giant cell tumor, bone
AUSTRALIA (Sydney) - Giant cell tumour (osteoclastoma)
SAUDI ARABIA (King Khalid University Hospital) - Sarcoma arising in a giant cell tumor of bone (5)

DIAGNOSIS:

GIANT CELL TUMOR OF BONE, FEMUR
T11710, M92501

REFERENCES:

Companacci M, Baldni N, Boriani S and Sudanese A. Giant Cell Tumor of Bone. *J Bone Joint Surg* 1987; 69(1):106-114.
McDonald DJ, Sim FH, McLeod RA and Dahlen DC. Giant Cell Tumor of Bone. *J Bone Joint Surg* 1986; 68(2):235-242.
Rock MG, Prichard DJ and Uni KK. Metastases from Histologically Benign Giant Cell Tumor of Bone. *J Bone Joint Surg* 1984; 66(2):269-274.

INLAND (Riverside/San Bernardino) - Teratocarcinoma, testis (1); Immature teratoma (2)
ORANGE - Immature teratoma
BAKERSFIELD San Joaquin Community Hospital) - Teratoma with focal embryonal carcinoma
BAKERSFIELD (Central Valley Study Group) - Teratocarcinoma
VENTURA (Unilab) - Teratoma (2)
SANTA ROSA - Teratocarcinoma with embryonal carcinoma (3)
SACRAMENTO (UC Davis) - Immature teratoma
LONG BEACH - Immature teratoma with embryonal carcinoma (7)
BAY AREA - Immature teratoma (3)
SAN DIEGO (Naval Medical Center) - Mixed germ cell tumor (immature teratoma and embryonal carcinoma (11)
HAYWARD (St. Rose Hospital) - Immature teratoma
NEVADA (Reno) - Mixed germ cell tumor, teratoma and embryonal carcinoma (2)
IDAHO (IDX Pathology) - Immature teratoma
COLORADO (North Colorado Medical Center) - Mixed germ cell tumor (immature teratoma with embryonal carcinoma)
TEXAS (Tech Hlth Science Ctr) - Malignant teratoma
MICHIGAN (St. Joseph Mercy Hospital) - Immature teratoma (3)
MICHIGAN (Foote Hospital) - Teratoma with immature elements
MICHIGAN (St. Mary's Hospital) - Teratoma
NEBRASKA (Creighton) - Immature teratoma
INDIANA (Goshen) - Malignant teratoma, testis
NORTH CAROLINA (WNC Pathology Group) - Immature teratoma (3)
FLORIDA (Tallahassee) - Immature teratoma (4)
MARYLAND (National Naval Medical Center) - Mixed germ cell tumor, immature teratoma with focal embryonal cell/yolk sac carcinoma (9)
MARYLAND (Woodbine) - Teratoma, mature and immature (2)
PENNSYLVANIA (Lehigh Valley Hospital) - Immature teratoma (6)
PENNSYLVANIA (BB Group) - Immature teratoma vs. teratoma with embryonal carcinoma
PENNSYLVANIA (Conemaugh Memorial Hospital) - Testicular teratoma, immature
NEW YORK (Northport) - Immature teratoma
NEW YORK (New Hyde Park) - Mixed germ cell tumor with immature teratoma focal embryonal carcinoma, intratubular germ cell neoplasia
NEW YORK (Impath) - Teratoma of testis with immature focus
NEW JERSEY (Summit) - Teratoma (3)
MASSACHUSETTS (Berkshire Medical Center) - Immature teratoma, grade III (6)
MASSACHUSETTS (Longmeadow) - Immature teratoma, testis
AUSTRALIA (Sydney) - Immature teratoma, grade I
SAUDI ARABIA (King Khalid Univer Hospital) - Mixed germ cell, sex cord, stromal tumor

DIAGNOSIS:

MIXED GERM CELL TUMOR (IMMATURE TERATOMA AND EMBRYONAL CARCINOMA), TESTIS
 T78000, M90813

REFERENCES:

Mostofi FK. Comparison of Various Clinical and Pathological Classifications of Tumors of Testes. *Semin Oncol* 1970; 6(1):26-30.
 van Echten J, Ooslerhuis JW, Looijenga LHJ, et al. Mixed Testicular Germ Cell Tumors. Monoclonal or Polyclonal. *Mod Pathol* 1996; 9(4):371-374.
 Skakeback NE, Berthelsen JG, Giwerzman A and Muller J. Carcinoma In-Situ of the Testis. Possible Origin From Gonocytes and Precursor of all Types of Germ Cell Tumors Except Spermatocytoma. *Int J Androl* 1987; 10(1):19-28.
 Chaganti RSK and Bosl GJ. Germ Cell Tumors: Unraveling a Biological Paradox. *Lab Invest* 1995; 73(5):593-595.
 Tapper D and Lack EE. Teratoma of Infancy and Childhood. A 54-Year Experience at Childrens Hospital Medical Center. *Ann Surg* 1983; 198(3):398-410.

INLAND (Riverside/San Bernardino) - Adenocarcinoma, small bowel (1); Signet ring carcinoma (1); Signet ring adenocarcinoma (2)

ORANGE - Poorly differentiated mucin producing adenocarcinoma

BAKERSFIELD (San Joaquin Community Hospital) - Poorly differentiated adenocarcinoma

BAKERSFIELD (Central Valley Study Group) - Mucinous carcinoma

VENTURA (Unilab) - Poorly differentiated adenocarcinoma (2)

SANTA ROSA - Signet ring carcinoma (1); Malignant, mucinous "signet ring" carcinoma (2)

SACRAMENTO (UC Davis) - Mucinous carcinoma (colloid carcinoma)

LONG BEACH - Poorly differentiated mucinous adenocarcinoma (7)

BAY AREA - Mucinous adenocarcinoma, colon (3)

SAN DIEGO (Naval Medical Center) - Mucinous signet ring carcinoma (11)

HAYWARD (St. Rose Hospital) - Anaplastic mucinous carcinoma

NEVADA (Reno) - Adenocarcinoma, diffuse type with signet ring cells (1); Signet ring carcinoma (1)

IDAHO (IDX Pathology) - Poorly differentiated adenocarcinoma

COLORADO (North Colorado Medical Ctr) - Mucinous adenocarcinoma

TEXAS (Tech Hlth Science Ctr) - Poorly differentiated adenocarcinoma (signet ring cell type)

MICHIGAN (St. Joseph Mercy Hospital) - Signet ring cell carcinoma (3)

MICHIGAN (Foote Hospital) - Mucinous carcinoma, signet ring type

MICHIGAN (St. Mary's Hospital) - Poorly differentiated adenocarcinoma

NEBRASKA (Creighton) - Adenocarcinoma, poorly differentiated, signet-ring, all type

INDIANA (Goshen) - Mucinous adenocarcinoma

NORTH CAROLINA (WNC Pathology Group) - Diffuse signet ring adenocarcinoma (2); Poorly differentiated adenocarcinoma (signet ring adenocarcinoma)

FLORIDA (Tallahassee) - Mucinous (signet ring cell) carcinoma

MARYLAND (National Naval Medical Center) - Poorly differentiated mucinous adenocarcinoma with signet ring cells

MARYLAND (Woodbine) - Signet ring cell carcinoma (2)

PENNSYLVANIA (Lehigh Valley Hospital) - Poorly differentiated adenocarcinoma, signet ring cell type (3); Signet-ring carcinoma (3)

PENNSYLVANIA (BB Group) - Mucinous carcinoma (adeno)

PENNSYLVANIA (Conemaugh Memorial Hospital) - Signet ring carcinoma with mucinous component

NEW YORK (Northport) - Mucinous poorly differentiated adenocarcinoma

NEW YORK (New Hyde Park) - Signet ring carcinoma complicating inflammatory bowel disease (by history)

NEW YORK (Impath) - Invasive signet ring adenocarcinoma of colon

NEW JERSEY (Summit) - Adenocarcinoma/mixed signet ring and mucin producing (3)

MASSACHUSETTS (Berkshire Medical Center) - Adenocarcinoma (6)

MASSACHUSETTS (Longmeadow) - Signet ring carcinoma, bowel

AUSTRALIA (Sydney) - Signet ring cell adenocarcinoma

SAUDI ARABIA (King Khalid University Hospital) - High grade mucinous adenocarcinoma

DIAGNOSIS:

POORLY DIFFERENTIATED MUCINOUS ADENOCARCINOMA WITH SIGNET RING CELLS, COLON
T67000, M84803

REFERENCES:

- Papp JP, Levin EJ and Thomas FB. Primary Linitis Plastica Carcinoma of the Colon and Rectum. *Am J Gastroenterol* 1995; 90 (1):141-145.
- Speer CS. Linitis Plastica Carcinoma of the Colon. *Dis Colon Rectum* 1971; 14(5):389-393.
- Ojeda VJ, Mitchell KM, Walters MN and Gibson MJ. Primary Colorectal Linitis Plastica Type of Carcinoma. Report of Two Cases and Review of the Literature. *Pathol* 1982; 14:181-189
- Steele G Jr., Advances in Treatment of Early-to-Late Stage Colorectal Cancer. 20 Years of Progress. *Ann Surg Oncol* 1995; 2(1):77-88.

INLAND (Riverside/San Bernardino) - Thymoma, malignant (3); Thymoma with myasthenia gravis (1)
ORANGE - Epithelial thymoma
BAKERSFIELD (San Joaquin Community Hospital) - Thymoma
BAKERSFIELD (Central Valley Study Group) - Thymoma, spindle cell type
VENTURA (Unilab) - Thymoma (2)
SANTA ROSA - Thymoma (3)
SACRAMENTO (UC Davis) - Thymoma
LONG BEACH - Thymoma (7)
BAY AREA - Thymoma (3)
SAN DIEGO (Naval Medical Center) - Thymoma (7); Mixed lymphocytic and epithelial thymoma (4)
HAYWARD (St. Rose Hospital) - Thymoma, mixed type
NEVADA (Reno) - Spindle cell thymoma (2)
IDAHO (IDX Pathology) - Thymoma
COLORADO (North Colorado Medical Ctr) - Thymoma
TEXAS (Tech Hlth Science Ctr) - Thymoma
MICHIGAN (St. Joseph Mercy Hospital) - Thymoma (3)
MICHIGAN (Foote Hospital) - Thymoma, mixed type medullary and cortical
MICHIGAN (St. Mary's Hospital) - Thymoma
NEBRASKA (Creighton) - Thymoma, lymphocyte-predominant type
INDIANA (Goshen) - Thymoma
NORTH CAROLINA (WNC Pathology Group) - Thymoma (3)
FLORIDA (Tallahassee) - Thymoma (4)
MARYLAND (National Naval Medical Center) - Thymoma, spindle cell (10)
MARYLAND (Woodbine) - Thymoma (2)
PENNSYLVANIA (Lehigh Valley Hospital) - Thymoma (6)
PENNSYLVANIA (BB Group) - Thymoma
PENNSYLVANIA (Conemaugh Memorial Hospital) - Thymoma
NEW YORK (Northport) - Thymoma
NEW YORK (New Hyde Park) - Thymoma, predominantly cortical
NEW YORK (Impath) - Malignant thymoma (vascular invasion)
NEW JERSEY (Summit) - Thymoma (3)
MASSACHUSETTS (Berkshire Medical Center) - Thymoma, mixed (6)
MASSACHUSETTS (Longmeadow) - Thymoma, predominantly mixed type
AUSTRALIA (Sydney) - Encapsulated thymoma
SAUDI ARABIA (King Khalid Univ Hospital) - Thymoma (5)

DIAGNOSIS:

THYMOMA, THYMUS
 T98000, M85800

REFERENCES:

- Pescarmona E, Rendina EA, Venuta F, et al. The Prognostic Implication of Thymoma Histologic Subtyping – A Study of 80 Consecutive Cases. *Amer J of Clin Pathol* 1990; 93(2):193-195.
 Nussbaum S, Resenthal GJ, Samaha FJ, Grinvalsky HT, Quinlan JG, Schmerler M and Fisher JE. Management of Myasthenia Gravis by Extended Thymectomy with Anterior Mediastinal Dissection. *Surg* 1992; 112(4):681-687.
 Kuo, TT, M.D. PhD and Sing-Kai Lo, PhD. DNA Flow Cytometric Study of Thymic Epithelial Tumors with Evaluation of Its Usefulness in the Pathologic Classification. *Hum Pathol* 1993; 24(7):746-749.
 Juttner FM, Fellbaum C, Popper H, Arian K, et al. Pitfalls in Intraoperative Frozen Section Histology of Mediastinal Neoplasms. *Eur J Cardiothorac Surg* 1990; 4(11):584-586.

INLAND (Riverside/San Bernardino) - Papillary serous adenocarcinoma (2); Endometrioid adenocarcinoma (1)

ORANGE - Malignant mixed mullerian tumor with heterologous elements (liposarcoma)

BAKERSFIELD (San Joaquin Community Hospital) - Mixed mullerian tumor

BAKERSFIELD (Central Valley Study Group) - Metastatic papillary adenocarcinoma

VENTURA (Unilab) - Carcinosarcoma (2)

SANTA ROSA - Carcinosarcoma (2); Malignant, carcinosarcoma vs. mixed mullerian neoplasm

SACRAMENTO (UC Davis) - Carcinosarcoma

LONG BEACH - Carcinosarcoma (4); Poorly differentiated papillary carcinoma (3)

BAY AREA - Malignant mixed mullerian tumor (3)

SAN DIEGO (Naval Medical Center) - Carcinosarcoma (11)

HAYWARD (St. Rose Hospital) - Endometrioid carcinoma vs. MMMT

NEVADA (Reno) - Malignant mixed mullerian tumor (sarcomatoid carcinoma) (2)

IDAHO (IDX Pathology) - Carcinosarcoma, recurrent MMMT?

COLORADO (North Colorado Medical Ctr) - Malignant mixed mullerian tumor

TEXAS (Tech Hlth Science Ctr) - Mixed mullerian tumor

MICHIGAN (St. Joseph Mercy Hospital) - Carcinosarcoma (MMMT) (3)

MICHIGAN (Foote Hospital) - Malignant mixed mullerian tumor

MICHIGAN (St. Mary's Hospital) - Carcinosarcoma

NEBRASKA (Creighton) - MMMT

INDIANA (Goshen) - Carcinosarcoma

NORTH CAROLINA (WNC Pathology Group) - Mixed mullerian tumor (3)

FLORIDA (Tallahassee) - Malignant mixed mullerian tumor

MARYLAND (National Naval Medical Center) - Malignant mixed mullerian tumor (8); MMT with heterologous elements (2)

MARYLAND (Woodbine) - Carcinosarcoma (1); Neuroendocrine carcinoma (1)

PENNSYLVANIA (Lehigh Valley Hospital) - High grade papillary adenocarcinoma (1); Metastatic endometrioid adenocarcinoma (pelvic mass) (1); Malignant mixed mullerian tumor (1); Serosus papillary carcinoma (1); Malignant mixed mesodermal tumor (1); Carcinosarcoma (1)

PENNSYLVANIA (BB Group) - Papillary serous carcinoma vs. endometrioid

PENNSYLVANIA (Conemaugh Memorial Hospital) - Mixed mullerian tumor (carcinosarcoma)

NEW YORK (Northport) - Metastatic carcinosarcoma (MMT)

NEW YORK (New Hyde Park) - Carcinosarcoma (malignant mixed mullerian tumor)

NEW YORK (Impath) - Malignant mixed mullerian tumor

NEW JERSEY (Summit) - Carcinosarcoma (3)

MASSACHUSETTS (Berkshire Medical Center) - Malignant mixed mullerian tumor (6)

MASSACHUSETTS (Longmeadow) - Carcinosarcoma (mixed mullerian)

AUSTRALIA (Sydney) - Carcinosarcoma

SAUDI ARABIA (King Khalid Univ Hospital) - Malignant mixed mullerian tumor

DIAGNOSIS:

**MALIGNANT MIXED MULLERIAN TUMOR WITH HETEROLOGOUS ELEMENTS
(MMMT), OVARY
T87000, M89503**

REFERENCES:

- Barwick KW, Li Volsi VA. Malignant Mixed Mesodermal Tumors of the Ovary. A Clinicopathologic Assessment of 12 Cases. *Am J Surg Pathol* 1980; 4:37-42.
- Pedro A, De Brito MD, Silverberg SG and Orenstein JM. Carcinosarcoma (Malignant Mixed Mullerian (Mesodermal Tumor) of the Female Genital tract. Immunohistochemical and Ultrastructural Analysis of 28 Cases. *Hum Pathol* 1993; 24(2):132-142. (Results Represent Examples of Biphasic (Metaplastic) Carcinoma.)