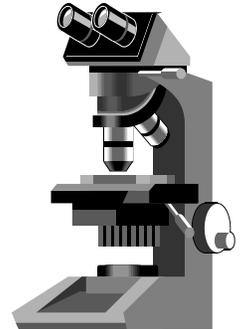


CALIFORNIA  
TUMOR TISSUE REGISTRY

*GENERAL PATHOLOGY*

Minutes – Subscription A

May, 2008



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

Affirming the Right to Care, Preserving the Right to Die. Disorders of Consciousness and Neuroethics after Schiavo. Fins JJ. *Palliat Support Care* 2006; 4:169-178.

Medical Futility in Fins JJ. Sudbury MA. A Palliative Ethic of Care. *Clinical Wisdom at Life's End*. 2006;77-90.

*The International Society for Stem Cell Research (ISSCR)*. Frequently Asked Questions About Stem Cell Research.

The Ethical Limits in Expanding Living Donor Transplantation. Ross LF. *Kennedy Inst Ethics J* 2006; 16:151-172.

Ethical, Legal, and Social Implications of Genomic Medicine. Clayton EW. *N Engl J Med* 2003; 349:562-569.

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: [ctr@linkline.com](mailto:ctr@linkline.com)  
Web site & Case of the Month: [www.ctr.org](http://www.ctr.org)

## FILE DIAGNOSES

CTTR Subscription A

May 2008

**Case 1:**

Pheochromocytoma, adrenal  
T-77100, M-87000

**Case 2:**

Chondromyxoid fibroma, rib  
T-28000, M-92410

**Case 3:**

Diffuse large B-cell lymphoma, omentum  
T-63850, M-95903

**Case 4:**

Epithelioid GIST, probably metastatic, back  
T-Y1100, M-96103

**Case 5:**

Warthin's tumor, parotid  
T-55100, M-84610

**Case 6:**

Salivary duct Carcinoma, parotid  
T-55100, M-80103

**Case 7:**

Granulosa cell tumor (adult type), ovary  
T-87000, M-86201

**Case 8:**

Myxoid liposarcoma, buttock  
T-Y1600, M-88523

**Case 9:**

Myxoid leiomyosarcoma, sigmoid colon region and mesentery  
T-64200, M-88903

**Case 10:**

Chromophobe carcinoma, kidney  
T-71000, M-83123

Alameda (Alameda County Medical Center) - Pheochromocytoma  
Arcadia (ABC Laboratories) - Pheochromocytoma  
Fontana (Kaiser Permanente) - Pheochromocytoma  
Glendale - Pheochromocytoma  
Las Vegas (Sunrise Hospital) - Pheochromocytoma  
Long Beach (Long Beach Veterans Hospital) - Pheochromocytoma  
Long Beach (Veterans Long Beach) - Pheochromocytoma  
Mountain View (El Camino Hospital) - Pheochromocytoma  
Oakland - Pheochromocytoma  
Orinda (Kaiser Permanente) - Pheochromocytoma  
Oxnard (St. John's Regional Medical Center) - Pheochromocytoma  
San Diego (Scripps) - Pheochromocytoma  
San Diego (Naval Medical Center) - Pheochromocytoma  
San Diego (UCSD) - Pheochromocytoma  
San Francisco (San Francisco General Hospital) - Pheochromocytoma  
Santa Barbara - Pheochromocytoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Pheochromocytoma (3)  
Sonoma (Sonoma Valley Hospital) - Pheochromocytoma  
Woodland Hills (Kaiser Permanente) - Pheochromocytoma  
Alabama (Baptist Medical Center) - Pheochromocytoma  
Alabama (Cunningham Pathology, LLC) - Pheochromocytoma  
Alabama (UAB) - Pheochromocytoma  
Colorado (Fort Collins) - Pheochromocytoma  
Colorado (McKee Medical Center) - Pheochromocytoma  
Georgia (Decatur) - Pheochromocytoma  
Georgia (Oconee Regional Medical Center) - Adrenal cortical adenoma  
Illinois (Burr Ridge) - Neuroendocrine tumor  
Illinois (Oak Brook) - Pheochromocytoma  
Illinois (Heartland Regional Medical Center) - Pheochromocytoma  
Illinois (Loyola University Medical Center) - Pheochromocytoma, adrenal (2)  
Iowa (Winneshick County Medical Hospital) - Pheochromocytoma  
Indiana (St. Joseph Hospital) - Pheochromocytoma (2)  
Kansas (Cytocheck Laboratory) - Pheochromocytoma (2)  
Kentucky (University of Louisville Hospital) - Pheochromocytoma  
Louisiana (Orleans Parish Coroner's Office) - Pheochromocytoma of adrenal gland  
Maryland (Howard University Hospital) - Pheochromocytoma  
Maryland (Silver Springs) - Pheochromocytoma  
Massachusetts (Berkshire Medical Center) - Pheochromocytoma  
Massachusetts (Tufts New England Medical Center) - Pheochromocytoma  
Massachusetts (UMass Memorial Medical Center) - Pheochromocytoma  
Minnesota (Fairview Ridges Hospital) - Pheochromocytoma  
Missouri (Missouri Delta Medical Center) - Pheochromocytoma (functioning paraganglioma)  
Nebraska (Creighton University Medical Center) - Pheochromocytoma  
New Mexico . Albuquerque - Pheochromocytoma  
New York (Erie County Medical Center) - Pheochromocytoma  
New York, Horseheads - Pheochromocytoma  
New York (Long Island Jewish Medical Center) - Pheochromocytoma  
New York (St. Lukes Roosevelt Hospital) - Pheochromocytoma  
New York (Stony Brook University Medical Center) - Pheochromocytoma  
New York (SUNY Downstate Medical Center) - Pheochromocytoma  
Ohio (Cleveland Clinic Foundation) - Pheochromocytoma  
Ohio (St. Elizabeth Health Center) - Pheochromocytoma  
Pennsylvania (Conemaugh Memorial Hospital) - Pheochromocytoma (2)  
Pennsylvania (Drexel University College of Medicine) - Pheochromocytoma

Pennsylvania (Lehigh Valley Hospital) - Pheochromocytoma  
Pennsylvania (Magee Women's Hospital) - Pheochromocytoma  
Texas, Crystal Beach - Adrenal medullary hyperplasia  
Texas, Lubbock - Pheochromocytoma  
Texas (Scott and White Hospital) - Pheochromocytoma  
Texas (St. Lukes Episcopal Hospital) - Pheochromocytoma  
Texas, Victoria - Pheochromocytoma  
Washington (Madigan Army Medical Center) - Pheochromocytoma  
Washington (VA Puget Sound Health Care System) - Adrenal medullary neoplasia, pheochromocytoma  
West Virginia (Greenbrier Valley Medical Center) - Pheochromocytoma  
Wisconsin, Madison - Pheochromocytoma  
Australia (Royal Hobart Hospital) - Pheochromocytoma  
Canada (Pasqua Hospital) - Pheochromocytoma  
Canada (University of Sherbrooke) - Pheochromocytoma  
Hong Kong (Hong Kong Baptist Hospital) - Pheochromocytoma  
Ireland, Dublin - Pheochromocytoma  
Ireland (Kerry General Hospital) - Pheochromocytoma  
Ireland (UCH Galway Residents) - Pheochromocytoma  
Japan (Asashi City) - Pheochromocytoma  
Japan (Kyoto University Hospital) - Pheochromocytoma  
Japan (Saiseikar Maebashi Hospital) - Pheochromocytoma  
Netherlands, Amstelveen - Pheochromocytoma  
Oman, Azaiba - Pheochromocytoma  
Saudi Arabia (King Abdulaziz Medical Center) - Pheochromocytoma  
United Kingdom (John Radcliffe Hospital) - Adrenal pheochromocytoma

**Case 1 - Diagnosis:**

Pheochromocytoma, adrenal  
 T-77100, M-87000

**Case 1 - References:**

Neumann Hp, Vortmeyer A, et al. Evidence of MEN-2 in the Original Description of Classic Pheochromocytoma. *N Engl J Med* 2007; 357(13):1311-1315.  
 Lee JA, Zarnegar R, Shen WT, et al. Adrenal Incidentaloma, Borderline Elevations of Urine or Plasma Metanephrine Levels, and the "Subclinical" Pheochromocytoma. *Arch Surg* 2007; 142(9):870-873.  
 Dahia PL. Evolving Concepts in Pheochromocytoma and Paraganglioma. *Curr Opin Oncol* 2006; 18(1):1-8.  
 Majic T and Aiyagari V. Cerebrovascular Manifestations of Pheochromocytoma and the Implications of a Missed Diagnosis. *Neurocrit Care* 2008; 29.  
 Eisenhofer G, Siegert G, Kotzerke J, et al. Current Progress and Future Challenges in the Biochemical Diagnosis and Treatment of Pheochromocytomas and Paragangliomas. *Horm Metab Res* 2008; 40(5):329-337.

**Case No. 2, Accession No. 30636**

**May 2008**

Alameda (Alameda County Medical Center) - Chondromyxoid tumor  
Arcadia (ABC Laboratories) - Chondroma  
Fontana (Kaiser Permanente) - Chondroma  
Glendale - Chondromyxoid fibroma  
Las Vegas (Sunrise Hospital) - Myxoid liposarcoma  
Long Beach (Long Beach Veterans Hospital) - Myxoid chondrosarcoma, low grade  
Long Beach (Veterans Long Beach) - Low grade myxoid chondrosarcoma  
Mountain View (El Camino Hospital) - Chondromyxoid fibroma  
Oakland - Chondrosarcoma  
Orinda (Kaiser Permanente) - Chondrosarcoma  
Oxnard (St. John's Regional Medical Center) - Chondroma (4)  
San Diego (Scripps) - Chondromyxoid fibroma

San Diego (Naval Medical Center) - Chondromyxoid fibroma  
San Diego (UCSD) - Chondrosarcoma  
San Francisco (San Francisco General Hospital) - Chondromyxoid fibroma  
Santa Barbara - Chondrosarcoma, low-grade  
Santa Rosa (Santa Rosa Memorial Hospital) - Chondromyxoid fibroma (1); Chondrosarcoma, low-grade (2)  
Sonoma (Sonoma Valley Hospital) - Chondromyxoid fibroma  
Woodland Hills (Kaiser Permanente) - Chondromyxoid fibroma  
Alabama (Baptist Medical Center) - Chondrosarcoma  
Alabama (Cunningham Pathology, LLC) - Enchondroma  
Alabama (UAB) - Chondromyxoid fibroma  
Colorado (Fort Collins) - Chondrosarcoma  
Colorado (McKee Medical Center) - Chondrosarcoma  
Georgia (Decatur) - Chondromyxoid fibroma  
Georgia (Oconee Regional Medical Center) - Chondrosarcoma  
Illinois (Burr Ridge) - Chondromyxoid fibroma  
Illinois (Oak Brook) - Chondromyxoid fibroma  
Illinois (Heartland Regional Medical Center) - Chondromyxoid fibroma  
Illinois (Loyola University Medical Center) - Chondromyxoid fibroma, rib (1); Liposarcoma (1)  
Iowa (Winneshick County Medical Hospital) - Enchondroma  
Indiana (St. Joseph Hospital) - Chondromyxoid fibroma (2)  
Kansas (Cytocheck Laboratory) - Chondroblastoma (1); Chondromyxoid fibroma (1)  
Kentucky (University of Louisville Hospital) - Chondromyxoid fibroma  
Louisiana (Orleans Parish Coroner's Office) - Chondroma  
Maryland (Howard University Hospital) - Chondromyxoid fibroma  
Maryland (Silver Springs) - Chondromyxoid fibroma  
Massachusetts (Berkshire Medical Center) - Myxoid chondrosarcoma  
Massachusetts (Tufts New England Medical Center) - Chondromyxoid fibroma  
Massachusetts (UMass Memorial Medical Center) - Chondromyxoid fibroma  
Minnesota (Fairview Ridges Hospital) - Chondromyxoid fibroma  
Missouri (Missouri Delta Medical Center) - Leiomyomatosis with metastatic spread  
Nebraska (Creighton University Medical Center) - Chondromyxoid fibroma  
New Mexico, Albuquerque - Myxoid chondrosarcoma  
New York (Erie County Medical Center) - Chondromyxoid fibroma  
New York, Horseheads - Neurofibroma  
New York (Long Island Jewish Medical Center) - Chondromyxoid fibroma  
New York (St. Lukes Roosevelt Hospital) - Chondromyxoid fibroma  
New York (Stony Brook University Medical Center) - Chondromyxoid fibroma  
New York (SUNY Downstate Medical Center) - Chondromyxoid fibroma  
Ohio (Cleveland Clinic Foundation) - Chondroma  
Ohio (St. Elizabeth Health Center) - Chondrosarcoma, low-grade  
Pennsylvania (Conemaugh Memorial Hospital) - Chondromyxoid fibroma (2)  
Pennsylvania (Drexel University College of Medicine) - Chondromyxoid fibroma  
Pennsylvania (Lehigh Valley Hospital) - Chondromyxoid fibroma  
Pennsylvania (Magee Women's Hospital) - Chondromyxoid fibroma  
Texas, Crystal Beach - Chondromyxoid fibroma  
Texas, Lubbock - Chondrosarcoma  
Texas (Scott and White Hospital) - Mesenchymal chondrosarcoma  
Texas (St. Lukes Episcopal Hospital) - Favor myxoid liposarcoma  
Texas, Victoria - Chondromyxoid fibroma  
Washington (Madigan Army Medical Center) - Chondromyxoid fibroma  
Washington (VA Puget Sound Health Care System) - Stromal cell neoplasia, chondromyxoid fibroma  
West Virginia (Greenbrier Valley Medical Center) - Chondromyxoid fibroma  
Wisconsin, Madison - Chondrosarcoma  
Australia (Royal Hobart Hospital) - Chondromyxoid fibroma  
Canada (Pasqua Hospital) - Chondromyxoid fibroma  
Canada (University of Sherbrooke) - Myxoid chondrosarcoma  
Hong Kong (Hong Kong Baptist Hospital) - Chondromyxoid fibroma

Ireland, Dublin - Chondromyxoid fibroma  
Ireland (Kerry General Hospital) - Myxoid liposarcoma  
Ireland (UCH Galway Residents) - Chondromyxoid fibroma  
Japan (Asashi City) - Chondromyxoid fibroma  
Japan (Kyoto University Hospital) - Phosphaturic mesenchymal tumor  
Japan (Saiseikar Maebashi Hospital) - Myxoid malignant fibrous histiocytoma  
Netherlands, Amstelveen - Benign exostosis  
Oman, Azaiba - Chondromyxoid fibroma  
Saudi Arabia (King Abdulaziz Medical Center) - Chondromyxoid fibroma  
United Kingdom (John Radcliffe Hospital) - Chondromyxoid fibroma

**Case 2 - Diagnosis:**

Chondromyxoid fibroma, rib  
T-28000, M-92410

**Case 2 - References:**

Romeo S, Oosting J, et al. The Role of Noncartilage-Specific Molecules in Differentiation of Cartilaginous Tumors. Lessons from Chondroblastoma and Chondromyxoid Fibroma. *Cancer* 2007; 15;110(2):385-594.  
Bousdras K, O'Donnell P, et al. Chondroblastomas But Not Chondromyxoid Fibromas Express Cytokeratins. An Unusual Presentation of a Chondroblastoma in the Metaphyseal Cortex of the Tibia. *Histopathol* 2007;51(3):414-416.  
Desai SS, Jambhekar NE, et al. Chondromyxoid Fibromas. A Study of 10 Cases. *J Surg Oncol* 2005; 89(1):28-31.  
Armah HB, McGough RL, Goodman MA, et al. Chondromyxoid Fibroma of Rib with a Novel Chromosomal Translocations. A Report of Four Additional Cases at Unusual Sites. *Diagn Pathol* 2007; 24; 2:44.

**Case No. 3, Accession No. 30569**

**May 2008**

Alameda (Alameda County Medical Center) - Diffuse large B-cell lymphoma  
Arcadia (ABC Laboratories) - Large B-cell lymphoma  
Fontana (Kaiser Permanente) - Diffuse large B-cell lymphoma  
Glendale - High-grade B-cell lymphoma  
Las Vegas (Sunrise Hospital) - Diffuse large B-cell lymphoma  
Long Beach (Long Beach Veterans Hospital) - B-cell lymphoma, diffuse large cell type  
Long Beach (Veterans Long Beach) - Diffuse large B-cell lymphoma  
Mountain View (El Camino Hospital) - Large B-cell lymphoma  
Oakland - Large cell lymphoma  
Orinda (Kaiser Permanente) - Diffuse large B-cell lymphoma  
Oxnard (St. John's Regional Medical Center) - Diffuse large B-cell lymphoma with MALT (4)  
San Diego (Scripps) - Diffuse large B-cell lymphoma  
San Diego (Naval Medical Center) - Diffuse large B-cell lymphoma  
San Diego (UCSD) - Diffuse large B-cell lymphoma  
San Francisco (San Francisco General Hospital) - Large cell lymphoma  
Santa Barbara - Lymphoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Diffuse large cell (B-cell) lymphoma (1); Follicular lymphoma, grade III, B-cell type (1); B-cell large cell lymphoma, grade III (1)  
Sonoma (Sonoma Valley Hospital) - Large B-cell lymphoma  
Woodland Hills (Kaiser Permanente) - Diffuse large B-cell lymphoma  
Alabama (Baptist Medical Center) - Diffuse large B-cell lymphoma  
Alabama (Cunningham Pathology, LLC) - Diffuse large B-cell lymphoma  
Alabama (UAB) - Diffuse large B-cell lymphoma  
Colorado (Fort Collins) - Follicular lymphoma, nodular, grade III  
Colorado (McKee Medical Center) - Follicular lymphoma, nodular, grade III  
Georgia (Decatur) - Diffuse large B-cell lymphoma  
Georgia (Oconee Regional Medical Center) - B-cell non-Hodgkins lymphoma, large cell

Illinois (Burr Ridge) - Diffuse large B-cell lymphoma  
Illinois (Oak Brook) - Malignant NH lymphoma B-cell large cell type  
Illinois (Heartland Regional Medical Center) - Malignant lymphoma, large B-cell type  
Illinois (Loyola University Medical Center) - Diffuse large B-cell lymphoma, mesentery (2)  
Iowa (Winneshick County Medical Hospital) - Malignant lymphoma  
Indiana (St. Joseph Hospital) - Large cell B-cell lymphoma (1); Diffuse large B-cell lymphoma (1)  
Kansas (Cytocheck Laboratory) - Lymphoma (1); Diffuse large B-cell lymphoma (1)  
Kentucky (University of Louisville Hospital) - Diffuse large B-cell lymphoma  
Louisiana (Orleans Parish Coroner's Office) - Malignant lymphoma  
Maryland (Howard University Hospital) - Diffuse large B-cell lymphoma  
Maryland (Silver Springs) - Diffuse large B-cell lymphoma  
Massachusetts (Berkshire Medical Center) - MALT lymphoma  
Massachusetts (Tufts New England Medical Center) - Diffuse large B-cell lymphoma  
Massachusetts (UMass Memorial Medical Center) - Diffuse large B-cell lymphoma  
Minnesota (Fairview Ridges Hospital) - Diffuse large B-cell lymphoma  
Missouri (Missouri Delta Medical Center) - Lymphoma large cell  
Nebraska (Creighton University Medical Center) - High grade B-cell lymphoma, favor grade III, follicular  
New Mexico, Albuquerque - Large B-cell lymphoma  
New York (Erie County Medical Center) - Diffuse large B-cell lymphoma  
New York, Horseheads - Diffuse large B-cell lymphoma  
New York (Long Island Jewish Medical Center) - Diffuse large B-cell lymphoma  
New York (St. Lukes Roosevelt Hospital) - Diffuse large B-cell lymphoma  
New York (Stony Brook University Medical Center) - Diffuse large B-cell lymphoma  
New York (SUNY Downstate Medical Center) - Diffuse large B-cell lymphoma  
Ohio (Cleveland Clinic Foundation) - Diffuse large B-cell lymphoma  
Ohio (St. Elizabeth Health Center) - Diffuse large cell lymphoma, non-Hodgkin's  
Pennsylvania (Conemaugh Memorial Hospital) - Diffuse large B-cell lymphoma (2)  
Pennsylvania (Drexel University College of Medicine) - Diffuse large B-cell lymphoma  
Pennsylvania (Lehigh Valley Hospital) - Large cell B-cell lymphoma  
Pennsylvania (Magee Women's Hospital) - Follicular lymphoma  
Texas, Crystal Beach - Large B-cell lymphoma (non-Hodgkin's)  
Texas, Lubbock - Follicular lymphoma  
Texas (Scott and White Hospital) - Large B-cell lymphoma  
Texas (St. Lukes Episcopal Hospital) - B-cell large cell lymphoma  
Texas, Victoria - Large B-cell lymphoma  
Washington (Madigan Army Medical Center) - Diffuse large B-cell lymphoma  
Washington (VA Puget Sound Health Care System) - Diffuse cell neoplasia, malignant lymphoma  
West Virginia (Greenbrier Valley Medical Center) - High grade B-cell lymphoma  
Wisconsin, Madison - Large cell B-cell lymphoma  
Australia (Royal Hobart Hospital) - Diffuse large B-cell lymphoma  
Canada (Pasqua Hospital) - Large B-cell lymphoma  
Canada (University of Sherbrooke) - Diffuse large B-cell lymphoma  
Hong Kong (Hong Kong Baptist Hospital) - Diffuse large B-cell lymphoma  
Ireland, Dublin - Diffuse large B-cell lymphoma  
Ireland (Kerry General Hospital) - Diffuse large B-cell lymphoma  
Ireland (UCH Galway Residents) - Diffuse large B-cell lymphoma, anaplastic variant  
Japan (Asashi City) - Diffuse large B-cell lymphoma  
Japan (Kyoto University Hospital) - Malignant lymphoma, diffuse large B-cell lymphoma  
Japan (Saiseikar Maebashi Hospital) - Follicular lymphoma, grade 3  
Netherlands, Amstelveen - Diffuse large B-cell NHL (DLBCL)  
Oman, Azaiba - Non-Hodgkin's lymphoma, diffuse large B-cell type  
Saudi Arabia (King Abdulaziz Medical Center) - Diffuse large B-cell lymphoma  
United Kingdom (John Radcliffe Hospital) - Diffuse large B-cell lymphoma

**Case 3 - Diagnosis:**

Diffuse large B-cell lymphoma, omentum  
 T-63850, M-95903

Case 3 – References:

- Connor J and Ashton-Key M. Gastric and Intestinal Diffuse Large B-Cell Lymphomas are Clinically and Immunophenotypically Different . An Immunohistochemical and Clinical Study. *Histopathol* 2007; 51(5):697-703.
- Kim DH, Baek JH, et al. Absolute Lymphocyte Counts Predicts Response to Chemotherapy and Survival In Diffuse Large B-Cell Lymphoma. *Leukemia* 2007; 21(10):2227-2230.
- Linderroth J, Ehinger M, et al. CD40 Expression Identifies a Prognostically Favorable Subgroup of Diffuse Large B-Cell Lymphoma. *Leuk Lymphoma* 2007; 48(9):174-1779.
- Nakamine H and Rinsho Ketsueki. Fundamentals in the Pathological Diagnosis of B-Cell Lymphoma, Focusing on Diffuse Large B-Cell Lymphoma 2007; 48(2):107-116.
- De Paepe P and De Wolf-Peeters C. Diffuse Large B-Cell Lymphoma. A Heterogeneous Group of Non-Hodgkin Lymphomas Comprising Several Distinct Clinicopathological Entities. *Leukemia* 2007; 21(1):37-43.

**Case No. 4, Accession No. 30279**

**May 2008**

- Alameda (Alameda County Medical Center) - Metastatic GIST
- Arcadia (ABC Laboratories) - Dendritic cell sarcoma (high grade)
- Fontana (Kaiser Permanente) - Sarcoma, mast cells
- Glendale - GIST
- Las Vegas (Sunrise Hospital) - Metastatic gastrointestinal stromal tumor
- Long Beach (Long Beach Veterans Hospital) - Metastatic gastrointestinal stromal tumor, epithelial type
- Long Beach (Veterans Long Beach) - Epithelioid malignant gastrointestinal stromal tumor
- Mountain View (El Camino Hospital) - GI stromal sarcoma
- Oakland - GIST
- Orinda (Kaiser Permanente) - Myeloid/mast cell sarcoma
- Oxnard (St. John's Regional Medical Center) - GIST (4)
- San Diego (Scripps) - Metastatic GIST
- San Diego (Naval Medical Center) - Malignant GIST
- San Diego (UCSD) - Metastatic GIST
- San Francisco (San Francisco General Hospital) - Pheochromocytoma
- Santa Barbara - GIST
- Santa Rosa (Santa Rosa Memorial Hospital) - Metastatic gastrointestinal stromal tumor (3)
- Sonoma (Sonoma Valley Hospital) - Malignant melanoma
- Woodland Hills (Kaiser Permanente) - Neoplasm with perivascular epithelioid cell differentiation (PECOMA)
- Alabama (Baptist Medical Center) - Malignant melanoma
- Alabama (Cunningham Pathology, LLC) - Malignant GIST
- Alabama (UAB) - Gastrointestinal stromal tumor, metastatic
- Colorado (Fort Collins) - Systemic mast cell disease
- Colorado (McKee Medical Center) - Systemic mast cell disease
- Georgia (Decatur) - Metastatic gastrointestinal stromal tumor
- Georgia (Oconee Regional Medical Center) - GI stromal tumor, organoid, metastatic
- Illinois (Burr Ridge) - GIST
- Illinois (Oak Brook) - Malignant metastatic melanoma
- Illinois (Heartland Regional Medical Center) - Metastatic GIST
- Illinois (Loyola University Medical Center) - Mast cell sarcoma, back (1); Epithelioid GIST (1)
- Iowa (Winneshick County Medical Hospital) - Malignant peripheral nerve sheath tumor
- Indiana (St. Joseph Hospital) - Metastatic malignant GIST (2)
- Kansas (Cytocheck Laboratory) - GIST (2)
- Kentucky (University of Louisville Hospital) - Epithelioid GIST
- Louisiana (Orleans Parish Coroner's Office) - Gastrointestinal stromal tumor
- Maryland (Howard University Hospital) - Malignant melanoma
- Maryland (Silver Springs) - Metastatic GIST
- Massachusetts (Berkshire Medical Center) - Epithelioid GIST
- Massachusetts (Tufts New England Medical Center) - GIST/sarcoma
- Massachusetts (UMass Memorial Medical Center) - Metastatic gastrointestinal stromal tumor
- Minnesota (Fairview Ridges Hospital) - Gastrointestinal stromal tumor, metastatic

Missouri (Missouri Delta Medical Center) - Malignant GIST (sarcoma)  
Nebraska (Creighton University Medical Center) - Malignant tumor of uncertain origin  
New Mexico , Albuquerque - Malignant gastrointestinal stromal tumor  
New York (Erie County Medical Center) - GIST (imatinib treatment)  
New York, Horseheads - Mast cell sarcoma  
New York (Long Island Jewish Medical Center) - Sarcoma, favor GIST  
New York (St. Lukes Roosevelt Hospital) - Mast cell sarcoma  
New York (Stony Brook University Medical Center) - Epithelioid angiomylipoma  
New York (SUNY Downstate Medical Center) - Metastatic GIST vs. melanoma  
Ohio (Cleveland Clinic Foundation) - GIST  
Ohio (St. Elizabeth Health Center) - Malignant gastrointestinal stromal tumor  
Pennsylvania (Conemaugh Memorial Hospital) - Metastatic GIST (2)  
Pennsylvania (Drexel University College of Medicine) - Malignant GIST  
Pennsylvania (Lehigh Valley Hospital) - Epithelioid GIST  
Pennsylvania (Magee Women's Hospital) - Epithelioid GIST  
Texas, Crystal Beach - Gastrointestinal stromal tumor  
Texas, Lubbock - Malignant GIST  
Texas (Scott and White Hospital) - Metastatic high grade GIST  
Texas (St. Lukes Episcopal Hospital) - Possibly metastatic GIST  
Texas, Victoria - Malignant stromal tumor  
Washington (Madigan Army Medical Center) - Malignant GIST (3); MFH (3); Melanoma (3)  
Washington (VA Puget Sound Health Care System) - Probable stromal cell neoplasia, malignant GIST  
West Virginia (Greenbrier Valley Medical Center) - Gastrointestinal stromal tumor  
Wisconsin, Madison - Metastatic epithelioid GIST  
Australia (Royal Hobart Hospital) - Malignant GIST  
Canada (Pasqua Hospital) - GIST  
Canada (University of Sherbrooke) - GIST (metastasis)  
Hong Kong (Hong Kong Baptist Hospital) - Metastatic GIST  
Ireland, Dublin - Metastatic GIST  
Ireland (Kerry General Hospital) - Metastatic GIST  
Ireland (UCH Galway Residents) - Epithelioid sarcoma  
Japan (Asashi City) - Gastrointestinal stromal tumor  
Japan (Kyoto University Hospital) - Malignant epithelioid cell tumor, consistent with metastatic GIST  
Japan (Saiseikar Maebashi Hospital) - GIST  
Netherlands, Amstelveen - Epithelioid GIST  
Oman, Azaiba - Gastrointestinal stromal tumour  
Saudi Arabia (King Abdulaziz Medical Center) - Malignant melanoma  
United Kingdom (John Radcliffe Hospital) - Malignant melanoma

**Case 4 - Diagnosis:**

Epithelioid GIST, probably metastatic, back  
T-Y1100, M-96103

**Case 4 - References:**

- Alvarado-Cabrero I, Vazquez G, et al. Clinicopathologic Study of 275 Cases of Gastrointestinal Stromal Tumors. The Experience at 3 Large Medical Centers in Mexico. *Ann Diagn Pathol* 2007; 39-45.
- Miettinen M and Lasota J. Gastrointestinal Stromal Tumors. Pathology and Prognosis at Different Sites. *Semin Diagn Pathol* 2006; 23(2):70-83.
- Laforga JB. Malignant Epithelioid Gastrointestinal Stromal Tumors. Report of a Case with Cytologic and Immunohistochemical Studies. *Acta Cytol* 2005; 49(4):35-40.
- Lippai N, Fule T, Nemeth T, et al. Keratin-Positive Gastrointestinal Stromal Tumor of the Stomach Mimicking Gastric Carcinoma. Diagnosis Confirmed by C-Kit Mutation Analysis. *Diagn Mol Pathol* 2008; 28.
- Agaimy A and Wunsch PH. Distribution of Neural Cell Adhesion Molecule (NCAM/CD46) in Gastrointestinal Stromal Tumors and Their Intra-Abdominal Mesenchymal Mimics. *J Clin Pathol* 2004; 61(4):499-503.

Alameda (Alameda County Medical Center) - Warthin's tumor  
Arcadia (ABC Laboratories) - Warthin's tumor  
Fontana (Kaiser Permanente) - Warthin's tumor  
Glendale - Warthin's tumor  
Las Vegas (Sunrise Hospital) - Warthin's tumor  
Long Beach (Long Beach Veterans Hospital) - Warthin's tumor  
Long Beach (Veterans Long Beach) - Warthin's tumor  
Mountain View (El Camino Hospital) - Warthin's tumor  
Oakland - Warthin's tumor  
Orinda (Kaiser Permanente) - Warthin's tumor  
Oxnard (St. John's Regional Medical Center) - Warthin's tumor (3)  
San Diego (Scripps) - Warthin's tumor  
San Diego (Naval Medical Center) - Warthin's tumor  
San Diego (UCSD) - Benign lymphoepithelial cyst  
San Francisco (San Francisco General Hospital) - Warthin's tumor  
Santa Barbara - Warthin's tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Warthin's tumor (3)  
Sonoma (Sonoma Valley Hospital) - Warthin's tumor  
Woodland Hills (Kaiser Permanente) - Warthin's tumor  
Alabama (Baptist Medical Center) - Warthin's tumor  
Alabama (Cunningham Pathology, LLC) - Warthin's tumor  
Alabama (UAB) - Warthin's tumor  
Colorado (Fort Collins) - Warthin's tumor  
Colorado (McKee Medical Center) - Warthin's tumor  
Georgia (Decatur) - Warthin's tumor  
Georgia (Oconee Regional Medical Center) - Warthin's tumor  
Illinois (Burr Ridge) - Warthin's tumor  
Illinois (Oak Brook) - Warthin's tumor  
Illinois (Heartland Regional Medical Center) - Warthin's tumor  
Illinois (Loyola University Medical Center) - Warthin's tumor, parotid (2)  
Iowa (Winneshick County Medical Hospital) - Warthin's tumor  
Indiana (St. Joseph Hospital) - Warthin's tumor (2)  
Kansas (Cytocheck Laboratory) - Warthin's tumor (2)  
Kentucky (University of Louisville Hospital) - Warthin's tumor  
Louisiana (Orleans Parish Coroner's Office) - Warthin's tumor of parotid gland  
Maryland (Howard University Hospital) - Warthin's tumor  
Maryland (Silver Springs) - Warthin's tumor  
Massachusetts (Berkshire Medical Center) - Warthin's tumor  
Massachusetts (Tufts New England Medical Center) - Warthin's tumor  
Massachusetts (UMass Memorial Medical Center) - Warthin's tumor  
Minnesota (Fairview Ridges Hospital) - Warthin's tumor  
Missouri (Missouri Delta Medical Center) - Papillary cystadenoma lymphomatosum (Warthin's tumor)  
Nebraska (Creighton University Medical Center) - Warthin's tumor  
New Mexico, Albuquerque - Warthin's tumor  
New York (Erie County Medical Center) - Warthin's tumor  
New York, Horseheads - Warthin's tumor  
New York (Long Island Jewish Medical Center) - Warthin's tumor  
New York (St. Lukes Roosevelt Hospital) - Warthin's tumor  
New York (Stony Brook University Medical Center) - Warthin's tumor  
New York (SUNY Downstate Medical Center) - Warthin's tumor  
Ohio (Cleveland Clinic Foundation) - Warthin's tumor  
Ohio (St. Elizabeth Health Center) - Warthin's tumor  
Pennsylvania (Conemaugh Memorial Hospital) - Warthin's tumor (2)  
Pennsylvania (Drexel University College of Medicine) - Warthin's tumor  
Pennsylvania (Lehigh Valley Hospital) - Warthin's tumor

Pennsylvania (Magee Women's Hospital) - Warthin's tumor  
Texas, Crystal Beach - Warthin's tumor  
Texas, Lubbock - Warthin tumor  
Texas (Scott and White Hospital) - Warthin's tumor  
Texas (St. Lukes Episcopal Hospital) - Warthin's tumor  
Texas, Victoria - Warthin's tumor  
Washington (Madigan Army Medical Center) - Warthin's tumor  
Washington (VA Puget Sound Health Care System) - Salivary epithelioid hyperplasia, Warthin's  
West Virginia (Greenbrier Valley Medical Center) - Warthin's tumor  
Wisconsin, Madison - Warthin's tumor  
Australia (Royal Hobart Hospital) - Warthin's tumor, parotid  
Canada (Pasqua Hospital) - Warthin's tumor  
Canada (University of Sherbrooke) - Warthin's tumor  
Hong Kong (Hong Kong Baptist Hospital) - Warthin's tumor  
Ireland, Dublin - Warthin's tumor  
Ireland (Kerry General Hospital) - Warthin's tumor  
Ireland (UCH Galway Residents) - Warthin's tumor  
Japan (Asashi City) - Warthin's tumor  
Japan (Kyoto University Hospital) - Warthin's tumor  
Japan (Saiseikar Maebashi Hospital) - Warthin's tumor  
Netherlands, Amstelveen - Warthin's tumor  
Oman, Azaiba - Warthin's tumor  
Saudi Arabia (King Abdulaziz Medical Center) - Warthin's tumor  
United Kingdom (John Radcliffe Hospital) - Parotid, Warthin's tumor

**Case 5 - Diagnosis:**

Warthin's tumor, parotid  
T-55110, M-84610

**Case 5 - References:**

Jung SM and Hao SP. Warthin's Tumor with Multiple Granulomas. A Clinicopathologic Study of Six Cases. *Diagn Cytopathol* 2006; 34(8):564-567.  
 Parwani AV and Ali SZ. Diagnostic Accuracy and Pitfalls in Fine-Needle Aspiration Interpretation of Warthin Tumor. *Cancer* 99(3):166-171.  
 Zhao Y, Collins BT and Ramos RR. Ciliated Epithelial Cells in Warthin's Tumor on Fine-Needle Aspiration. *Diagn Cytopathol* 2003; 28(2):71.  
 Sadezki S, Oberman B, Mandelzweig L, et al. Smoking and Risk of Parotid Gland Tumors. A Nationwide Case-Control Study. *Cancer* 2008; 112(9):1974-1982.  
 Lin CC, Tsai MH, Huang CC, et al. Parotid Tumors. A 10-Year Experience. *Am J Otolaryngol* 2008; 29(2):94-100.

**Case No. 6, Accession No. 30690**

**May 2008**

Alameda (Alameda County Medical Center) - Salivary duct carcinoma  
Arcadia (ABC Laboratories) - High grade carcinoma (probable acinic cell)  
Fontana (Kaiser Permanente) - Mucoepidermoid carcinoma  
Glendale - Carcinoma  
Las Vegas (Sunrise Hospital) - High-grade salivary duct carcinoma  
Long Beach (Long Beach Veterans Hospital) - Mucoepidermoid carcinoma, high-grade  
Long Beach (Veterans Long Beach) - High grade mucoepidermoid carcinoma  
Mountain View (El Camino Hospital) - Salivary duct carcinoma  
Oakland - Carcinoma  
Orinda (Kaiser Permanente) - Salivary duct carcinoma vs. oncocytic carcinoma  
Oxnard (St. John's Regional Medical Center) - Adenocarcinoma (1); Salivary duct carcinoma (1)  
San Diego (Scripps) - Adenocarcinoma, NOS  
San Diego (Naval Medical Center) - Salivary duct carcinoma  
San Diego (UCSD) - High-grade carcinoma

San Francisco (San Francisco General Hospital) - Ductal carcinoma  
Santa Barbara - Adenocarcinoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Salivary duct carcinoma (2); Oncocytic carcinoma (1)  
Sonoma (Sonoma Valley Hospital) - Acinic cell carcinoma  
Woodland Hills (Kaiser Permanente) - Salivary duct carcinoma  
Alabama (Baptist Medical Center) - Adenocarcinoma, NOS  
Alabama (Cunningham Pathology, LLC) - Oncocytic carcinoma  
Alabama (UAB) - Adenocarcinoma, NOS  
Colorado (Fort Collins) - Salivary duct carcinoma  
Colorado (McKee Medical Center) - Salivary duct carcinoma  
Georgia (Decatur) - Salivary duct carcinoma  
Georgia (Oconee Regional Medical Center) - High-grade carcinoma, salivary duct carcinoma  
Illinois (Burr Ridge) - Mucoepidermoid carcinoma, high-grade  
Illinois (Oak Brook) - Adenocarcinoma  
Illinois (Heartland Regional Medical Center) - Salivary duct carcinoma  
Illinois (Loyola University Medical Center) - Metastatic adenocarcinoma vs. melanoma, parotid, need stain (1);  
Oncocytic carcinoma (1)  
Iowa (Winneshick County Medical Hospital) - High-grade mucoepidermoid carcinoma  
Indiana (St. Joseph Hospital) - High-grade mucoepidermoid carcinoma (1); Salivary duct carcinoma (1)  
Kansas (Cytocheck Laboratory) - Oncocytic carcinoma (1); Ductal type carcinoma of parotid (1)  
Kentucky (University of Louisville Hospital) - Salivary duct carcinoma  
Louisiana (Orleans Parish Coroner's Office) - High-grade mucoepidermoid carcinoma  
Maryland (Howard University Hospital) - Salivary duct carcinoma  
Maryland (Silver Springs) - Mucoepidermoid carcinoma  
Massachusetts (Berkshire Medical Center) - Salivary duct carcinoma  
Massachusetts (Tufts New England Medical Center) - Salivary duct carcinoma  
Massachusetts (UMass Memorial Medical Center) - Oncocytic carcinoma  
Minnesota (Fairview Ridges Hospital) - Acantholytic squamous cell carcinoma  
Missouri (Missouri Delta Medical Center) - Lymphoepithelioma  
Nebraska (Creighton University Medical Center) - Malignant carcinoma suggestive of salivary duct carcinoma  
New Mexico, Albuquerque - Oncocytic carcinoma  
New York (Erie County Medical Center) - Adenocarcinoma (primary vs. metastatic)  
New York, Horseheads - Carcinoma ex-pleomorphic adenoma  
New York (Long Island Jewish Medical Center) - Favor salivary duct carcinoma  
New York (St. Lukes Roosevelt Hospital) - Oncocytic vs. acinic cell carcinoma  
New York (Stony Brook University Medical Center) - Salivary duct carcinoma  
New York (SUNY Downstate Medical Center) - Salivary duct carcinoma  
Ohio (Cleveland Clinic Foundation) - Oncocytic carcinoma  
Ohio (St. Elizabeth Health Center) - Salivary duct carcinoma  
Pennsylvania (Conemaugh Memorial Hospital) - High-grade salivary duct carcinoma (2)  
Pennsylvania (Drexel University College of Medicine) - Ductal carcinoma of salivary gland  
Pennsylvania (Lehigh Valley Hospital) - Oncocytic carcinoma  
Pennsylvania (Magee Women's Hospital) - Salivary duct carcinoma  
Texas, Crystal Beach - Salivary duct carcinoma  
Texas, Lubbock - Oncocytic carcinoma  
Texas (Scott and White Hospital) - High-grade mucoepidermoid carcinoma  
Texas (St. Lukes Episcopal Hospital) - Salivary ductal carcinoma  
Texas, Victoria - Salivary duct carcinoma  
Washington (Madigan Army Medical Center) - Salivary duct carcinoma  
Washington (VA Puget Sound Health Care System) - Salivary exocrine neoplastic, carcinoma, high-grade ductal  
West Virginia (Greenbrier Valley Medical Center) - Adenocarcinoma, NOS  
Wisconsin, Madison - Salivary duct carcinoma  
Australia (Royal Hobart Hospital) - Salivary duct carcinoma  
Canada (Pasqua Hospital) - Squamous cell carcinoma  
Canada (University of Sherbrooke) - Acinic cell carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Poorly differentiated carcinoma  
Ireland, Dublin - High-grade salivary duct carcinoma

Ireland (Kerry General Hospital) - Salivary duct carcinoma  
Ireland (UCH Galway Residents) - High-grade mucoepidermoid carcinoma  
Japan (Asashi City) - Oncocytic carcinoma  
Japan (Kyoto University Hospital) - Salivary duct carcinoma  
Japan (Saiseikar Maebashi Hospital) - Adenocarcinoma, NOS  
Netherlands, Amstelveen - Oncocytic carcinoma  
Oman, Azaiba - Carcinoma, myoepithelial carcinoma, adenocarcinoma, NOS  
Saudi Arabia (King Abdulaziz Medical Center) - Salivary duct carcinoma  
United Kingdom (John Radcliffe Hospital) - Salivary duct carcinoma

**Case 6- Diagnosis:**

Salivary duct carcinoma, parotid  
T-55100, M-80103

**Case 6 - References:**

Nashed M and Casasola RJ. Biological Therapy of Salivary Duct Carcinoma. *J Laryngol Otol* 2008; 11:1-3.  
Pai RR, Alwar V, Rao VS, et al. Salivary Duct Carcinoma of the Parotid Gland. The Cytohistological Features. *Ind J Pathol Microbiol* 2007; 50(4):872-874.  
Cornolti G, Ungari M, Morassi ML, et al. Amplification and Overexpression of HER2/Neu Gene and HER2/Neu Protein in Salivary Duct Carcinoma of the Parotid Gland. *Arch Otolaryngol Head Neck Surg* 2007; 133(10):1031-1036.  
Nabili V, Tan JW, Bhuta S, et al. Slivary Duct Carcinoma. A Clinical and Histologic Review with Implications for Trastuzumab Therapy. *Head Neck* 2007; 29(10):907-912.  
Sato K, Shimode Y, Ioi A, et al. Salivary Duct Carcinoma of the Parotid Gland Presenting KIT (CD117) Overexpression. *Histopathol* 2007;51(1):114-115.

**Case No. 7, Accession No. 30729**

**May 2008**

Alameda (Alameda County Medical Center) - Granulosa cell tumor  
Arcadia (ABC Laboratories) - Granulosa cell tumor (high-grade)  
Fontana (Kaiser Permanente) - Granulosa cell tumor  
Glendale - Adult granulose cell tumor  
Las Vegas (Sunrise Hospital) - Adult granulose cell tumor  
Long Beach (Long Beach Veterans Hospital) - Granulosa cell tumor  
Long Beach (Veterans Long Beach) - Granulosa cell tumor  
Mountain View (El Camino Hospital) - Granulosa cell tumor  
Oakland - Granulosa cell tumor  
Orinda (Kaiser Permanente) - Small cell neuroendocrine carcinoma vs. granulosa cell tumor  
Oxnard (St. John's Regional Medical Center) - Granulosa cell tumor (4)  
San Diego (Scripps) - Granulosa cell tumor  
San Diego (Naval Medical Center) - Granulosa cell tumor  
San Diego (UCSD) - Granulosa cell tumor  
San Francisco (San Francisco General Hospital) - Granulosa cell tumor  
Santa Barbara - Sertoli-Leydig tumor  
Santa Rosa (Santa Rosa Memorial Hospital) - Granulosa cell tumor (3)  
Sonoma (Sonoma Valley Hospital) - Granulosa cell tumor  
Woodland Hills (Kaiser Permanente) - Granulosa cell tumor  
Alabama (Baptist Medical Center) - Granulosa cell tumor  
Alabama (Cunningham Pathology, LLC) - Granular cell tumor  
Alabama (UAB) - Granulosa cell tumor  
Colorado (Fort Collins) - Granulosa cell tumor  
Colorado (McKee Medical Center) - Granulosa cell tumor  
Georgia (Decatur) - Adult granulose cell tumor  
Georgia (Oconee Regional Medical Center) - Adult granulosa cell tumor  
Illinois (Burr Ridge) - Small cell carcinoma  
Illinois (Oak Brook) - Granulosa cell tumor  
Illinois (Heartland Regional Medical Center) - Granulosa cell tumor, adult type

Illinois (Loyola University Medical Center) - Small cell carcinoma vs. lymphoma, need stain (1); Granulosa cell tumor (1)

Iowa (Winneshick County Medical Hospital) - Granulosa cell tumor

Indiana (St. Joseph Hospital) - Granulosa cell tumor (2)

Kansas (Cytocheck Laboratory) - Granulosa cell tumor (2)

Kentucky (University of Louisville Hospital) - Granulosa cell tumor

Louisiana (Orleans Parish Coroner's Office) - Granulosa cell tumor

Maryland (Howard University Hospital) - Granulosa cell tumor

Maryland (Silver Springs) - Adult granulosa cell tumor

Massachusetts (Berkshire Medical Center) - Granulosa cell tumor

Massachusetts (Tufts New England Medical Center) - Adult granulosa cell tumor

Massachusetts (UMass Memorial Medical Center) - Granulosa cell tumor

Minnesota (Fairview Ridges Hospital) - Granulosa cell tumor

Missouri (Missouri Delta Medical Center) - Adult granulosa cell tumor

Nebraska (Creighton University Medical Center) - Granulosa cell tumor (adult)

New Mexico . Albuquerque - Granulosa cell tumor

New York (Erie County Medical Center) - Granulosa cell tumor

New York, Horseheads - Granulosa cell tumor

New York (Long Island Jewish Medical Center) - Granulosa cell tumor

New York (St. Lukes Roosevelt Hospital) - Sex cord stromal tumor

New York (Stony Brook University Medical Center) - Granulosa cell tumor, adult, diffuse variant

New York (SUNY Downstate Medical Center) - Adult granulosa cell tumor

Ohio (Cleveland Clinic Foundation) - Adult granulosa cell tumor

Ohio (St. Elizabeth Health Center) - Granulosa cell tumor (juvenile type)

Pennsylvania (Conemaugh Memorial Hospital) - Granulosa cell tumor, poorly differentiated (2)

Pennsylvania (Drexel University College of Medicine) - Granulosa cell tumor, adult type

Pennsylvania (Lehigh Valley Hospital) - Granulosa cell tumor

Pennsylvania (Magee Women's Hospital) - Granulosa cell tumor

Texas, Crystal Beach - Small cell carcinoma

Texas, Lubbock - Granulosa cell tumor

Texas (Scott and White Hospital) - Granulosa cell tumor

Texas (St. Lukes Episcopal Hospital) - Adult granulosa cell tumor

Texas, Victoria - High grade malignant (large cell variant of small cell carcinoma)

Washington (Madigan Army Medical Center) - Granulosa cell tumor

Washington (VA Puget Sound Health Care System) - Sex cord stromal cell neoplasia, Sertoli-Leydig vs. ? with possible metastatic potential

West Virginia (Greenbrier Valley Medical Center) - Granulosa cell tumor

Wisconsin, Madison - Undifferentiated carcinoma vs. granulosa cell tumor

Australia (Royal Hobart Hospital) - Granulosa cell tumor

Canada (Pasqua Hospital) - Granulosa cell tumor

Canada (University of Sherbrooke) - Sex cord stromal tumor

Hong Kong (Hong Kong Baptist Hospital) - Sex cord stromal tumor, favor adult granulosa cell tumor

Ireland, Dublin - Adult granulosa cell tumor

Ireland (Kerry General Hospital) - Granulosa cell tumor

Ireland (UCH Galway Residents) - Granulosa cell tumor

Japan (Asashi City) - Adult granulosa cell tumor

Japan (Kyoto University Hospital) - Granulosa stromal cell tumor

Japan (Saiseikar Maebashi Hospital) - Granulosa cell tumor

Netherlands, Amstelveen - Granulosa cell tumor

Oman, Azaiba - Adult granulosa cell tumor

Saudi Arabia (King Abdulaziz Medical Center) - Granulosa cell tumor, adult type

United Kingdom (John Radcliffe Hospital) - Ovary-granulosa cell tumor

**Case 7 - Diagnosis:**

Granulosa cell tumor (adult type), ovary  
T-87000, M-86201

Case 7 - References:

- Pectasides D, Papaxoinis G, Fountzilias G, et al. Adult Granulosa Cell Tumors of the Ovary. A Clinicopathological Study of 34 Patients by the Hellenic Cooperative Oncology Group (HeCOG). *Anticancer Res* 2008; 28(2B):1421-1427.
- Ozkara SK and Turan G. Cystic Fluid and Fine Needle Aspiration Cytopathology of Cystic Adult Granulosa Cell Tumor of the Ovary. A Case Report. *Acta Cytol* 2008; 52(2):247-250.
- Leuvenink SK and Turan G. Prognostic Value of Mitotic Counts and Ki-67 Immunoreactivity in Adult-Type Granulosa Cell Tumour of the Ovary. *J Clin Pathol* 2008; 22.
- Ali S, Gattuso P, Howard A, et al. Adult Granulosa Cell Tumor of the Ovary. Fine-Needle-Aspiration Cytology of 10 Cases and Review of Literature. *Diagn Cytopathol* 2008; 36(5):297-302.
- Ranganath R, Sridevi V, Shirley SS, et. Clinical and Pathologic Prognostic Factors in Adult Granulosa Cell Tumors of the Ovary. *Int J Gynecol Cancer* 2007; 14.

**Case No. 8, Accession No. 30527**

**May 2008**

- Alameda (Alameda County Medical Center) - Liposarcoma
- Arcadia (ABC Laboratories) - Myxoid liposarcoma
- Fontana (Kaiser Permanente) - Myxoid liposarcoma
- Glendale - Myxoid liposarcoma
- Las Vegas (Sunrise Hospital) - Cellular myxoma
- Long Beach (Long Beach Veterans Hospital) - Myxoid liposarcoma
- Long Beach (Veterans Long Beach) - Myxoid liposarcoma
- Mountain View (El Camino Hospital) - Extraskeletal myxoid chondrosarcoma
- Oakland - Vascular tumor vs. lipo tumor
- Orinda (Kaiser Permanente) - Extraskeletal myxoid chondrosarcoma
- Oxnard (St. John's Regional Medical Center) - Chordoma (1); Parachordoma (2)
- San Diego (Scripps) - Chordoma
- San Diego (Naval Medical Center) - Myxoid liposarcoma
- San Diego (UCSD) - Myxoid liposarcoma
- San Francisco (San Francisco General Hospital) - Granular cell tumor
- Santa Barbara - Myxoid liposarcoma
- Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid chondrosarcoma (1); Extraskeletal chondrosarcoma (2)
- Sonoma (Sonoma Valley Hospital) - Myxopapillary ependymoma
- Woodland Hills (Kaiser Permanente) - Myxoid liposarcoma
- Alabama (Baptist Medical Center) - Chondroma
- Alabama (Cunningham Pathology, LLC) - Myxoid chondrosarcoma
- Alabama (UAB) - Soft tissue myoepithelioma
- Colorado (Fort Collins) - Liposarcoma
- Colorado (McKee Medical Center) - Liposarcoma
- Georgia (Decatur) - Myxoid liposarcoma
- Georgia (Oconee Regional Medical Center) - Myxoid leiomyosarcoma
- Illinois (Burr Ridge) - Granular cell tumor
- Illinois (Oak Brook) - Glomangioma
- Illinois (Heartland Regional Medical Center) - Myxoid liposarcoma
- Illinois (Loyola University Medical Center) - Extraskeletal chondrosarcoma, buttock (1); Myxoid chondrosarcoma (1)
- Iowa (Winneshick County Medical Hospital) - Pilomatixoma
- Indiana (St. Joseph Hospital) - Chondrosarcoma (2)
- Kansas (Cytocheck Laboratory) - Osteoma (1) Myxoid chondrosarcoma (1)
- Kentucky (University of Louisville Hospital) - Myxoid liposarcoma
- Louisiana (Orleans Parish Coroner's Office) - Myxoid liposarcoma
- Maryland (Howard University Hospital) - Myxoid liposarcoma
- Maryland (Silver Springs) - Extraskeletal myxoid chondrosarcoma
- Massachusetts (Berkshire Medical Center) - Well-differentiated myxoid liposarcoma (3); Myxoid chondrosarcoma (3)
- Massachusetts (Tufts New England Medical Center) - Extraskeletal myxoid chondrosarcoma
- Massachusetts (UMass Memorial Medical Center) - Myxoid liposarcoma/round cell liposarcoma
- Minnesota (Fairview Ridges Hospital) - Myxoid liposarcoma
- Missouri (Missouri Delta Medical Center) - Granular cell tumor

Nebraska (Creighton University Medical Center) - Myxoid liposarcoma  
New Mexico, Albuquerque - Chordoma  
New York (Erie County Medical Center) - Myxoid liposarcoma with hibernoma-like areas  
New York, Horseheads - Lymphangioma  
New York (Long Island Jewish Medical Center) - Myxoid liposarcoma  
New York (St. Lukes Roosevelt Hospital) - Chondroblastoma vs. chondromyxoid fibroma  
New York (Stony Brook University Medical Center) - Myxoid leiomyosarcoma  
New York (SUNY Downstate Medical Center) - Injection site granuloma  
Ohio (Cleveland Clinic Foundation) - Vascular tumor, favor malignant  
Ohio (St. Elizabeth Health Center) - Chordoma  
Pennsylvania (Conemaugh Memorial Hospital) - Liposarcoma, mixed type (2)  
Pennsylvania (Drexel University College of Medicine) - Myxoid liposarcoma  
Pennsylvania (Lehigh Valley Hospital) - Myxoid liposarcoma  
Pennsylvania (Magee Women's Hospital) - Fibromyxosarcoma/myxofibrosarcoma  
Texas, Crystal Beach - Granular cell tumor  
Texas, Lubbock - Myxoid liposarcoma  
Texas (Scott and White Hospital) - Myxoid liposarcoma  
Texas (St. Lukes Episcopal Hospital) - Myxoid liposarcoma  
Texas, Victoria - Paucicellular myxoid liposarcoma  
Washington (Madigan Army Medical Center) - Myxoid liposarcoma  
Washington (VA Puget Sound Health Care System) - Stromal cell neoplasia, myxofibrosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Granular cell tumor, malignant  
Wisconsin, Madison - Myxoid liposarcoma  
Australia (Royal Hobart Hospital) - Myxoid liposarcoma  
Canada (Pasqua Hospital) - Myxoid liposarcoma  
Canada (University of Sherbrooke) - Chondrosarcoma vs. chordoma  
Hong Kong (Hong Kong Baptist Hospital) - Myxoid liposarcoma  
Ireland, Dublin - Myxoid chondrosarcoma  
Ireland (Kerry General Hospital) - Myxoid liposarcoma  
Ireland (UCH Galway Residents) - Myxoid liposarcoma  
Japan (Asashi City) - Myxoid liposarcoma  
Japan (Kyoto University Hospital) - Myxoid liposarcoma  
Japan (Saiseikar Maebashi Hospital) - Myxoid leiomyosarcoma  
Netherlands, Amstelveen - Mucinous adenocarcinoma, metastatic  
Oman, Azaiba - Myxoid liposarcoma  
Saudi Arabia (King Abdulaziz Medical Center) - Myxoid liposarcoma  
United Kingdom (John Radcliffe Hospital) - Myxoid liposarcoma

**Case 8 - Diagnosis:**

Myxoid liposarcoma, buttock  
 T-Y1600, M-88523

**Case 8 - References:**

- Fiore M, Grosso F, et al. Myxoid/Round Cell and Pleomorphic Liposarcoma. Prognostic Factors and Survival in a Series of Patients Treated at a Single Institution. *Cancer* 2007; 109(12):2522-2531.  
 Pantanowitz L and Otis CN. Myxoid Liposarcoma. *Diagn Cytol Pathol* 2007; 35(5):283-284.  
 Irradiation of Myxoid/Round Cell Liposarcoma Induces Volume Reduction and Lipoma-Like Morphology. *Acta Oncol* 2007; 838-845.  
 Sandberg AA. Updates on the Cytogenetics and Molecular Genetics of Bone and Soft Tissue Tumors. Liposarcoma. *Cancer Genet Cytogenet* 2004; 155(1):1-24.  
 Ten Heuvel SE, Hoekstra HJ, et al. Clinicopathologic Prognostic Factors in Myxoid Liposarcoma. A Retrospective Study of 49 Patients with Long-Term Follow-Up. *Ann Surg Oncol* 2007; 14(1):222-229.  
 Mordi A, Batoko A and Delteil C. Myxoid Liposarcoma of the Buttock, 7 Year Follow-Up. *Presse Med* 2002; 31(20):937.

Alameda (Alameda County Medical Center) - Synovial sarcoma  
Arcadia (ABC Laboratories) - Low-grade leiomyosarcoma  
Fontana (Kaiser Permanente) - Chordoma  
Glendale - Myxoid leiomyosarcoma vs. inflammatory myofibroblastic tumor  
Las Vegas (Sunrise Hospital) - Sarcomatoid carcinoma  
Long Beach (Long Beach Veterans Hospital) - Leiomyosarcoma with myxoid features  
Long Beach (Veterans Long Beach) - Sarcoma (leiomyosarcoma)  
Mountain View (El Camino Hospital) - Myxoid leiomyosarcoma  
Oakland - Liposarcoma vs. PNET  
Orinda (Kaiser Permanente) - Synovial sarcoma  
Oxnard (St. John's Regional Medical Center) - Liposarcoma (1); Myxoid liposarcoma (2); Fibromyxoid sarcoma vs. myxoid liposarcoma (1)  
San Diego (Scripps) - Myxofibrosarcoma  
San Diego (Naval Medical Center) - Inflammatory pseudotumor (1); Sarcoma, NOS (1)  
San Diego (UCSD) - Myxoid leiomyosarcoma  
San Francisco (San Francisco General Hospital) - Myxoid leiomyosarcoma  
Santa Barbara - Myxoid leiomyosarcoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Myxoid leiomyosarcoma (2); Myxoid liposarcoma vs. myxoid leiomyosarcoma (1)  
Sonoma (Sonoma Valley Hospital) - Monophasic synovial sarcoma  
West Hills (Quest Diagnostics, Inc.) - Synovial sarcoma  
Woodland Hills (Kaiser Permanente) - Synovial sarcoma  
Alabama (Baptist Medical Center) - Embryonal rhabdomyosarcoma  
Alabama (Cunningham Pathology, LLC) - Carcinosarcoma  
Alabama (UAB) - PNET  
Colorado (Fort Collins) - PNET  
Colorado (McKee Medical Center) - PNET  
Georgia (Decatur) - Myxoid malignant fibrous histiocytoma  
Georgia (Oconee Regional Medical Center) - Myxoid leiomyosarcoma  
Illinois (Burr Ridge) - Sarcomatoid mesothelioma  
Illinois (Oak Brook) - Dedifferentiated liposarcoma  
Illinois (Heartland Regional Medical Center) - Leiomyosarcoma  
Illinois (Loyola University Medical Center) - Myxoid leiomyosarcoma vs. synovial sarcoma, do molecular study (1); Synovial sarcoma (1)  
Iowa (Winneshick County Medical Hospital) - Fibrosarcoma  
Indiana (St. Joseph Hospital) - PNET (2)  
Kansas (Cytocheck Laboratory) - Liposarcoma, mucinous (1); Myxoid leiomyosarcoma (1)  
Kentucky (University of Louisville Hospital) - Synovial sarcoma vs. leiomyosarcoma  
Louisiana (Orleans Parish Coroner's Office) - Primitive neuroectodermal tumor  
Maryland (Howard University Hospital) - Synovial sarcoma, monophasic  
Maryland (Silver Springs) - Synovial sarcoma  
Massachusetts (Berkshire Medical Center) - Leiomyosarcoma  
Massachusetts (Tufts New England Medical Center) - Leiomyosarcoma  
Massachusetts (UMass Memorial Medical Center) - Synovial sarcoma with myxoid change  
Minnesota (Fairview Ridges Hospital) - Synovial sarcoma  
Missouri (Missouri Delta Medical Center) - Myxoid liposarcoma  
Nebraska (Creighton University Medical Center) - Myxoid malignant fibrosis histiocytoma/myxoid fibrosarcoma  
New Mexico, Albuquerque - Liposarcoma  
New York (Erie County Medical Center) - Synovial sarcoma  
New York, Horseheads - Myxoid sarcoma  
New York (Long Island Jewish Medical Center) - Favor leiomyosarcoma  
New York (St. Lukes Roosevelt Hospital) - Epithelioid leiomyosarcoma  
New York (Stony Brook University Medical Center) - Myxoid leiomyosarcoma  
New York (SUNY Downstate Medical Center) - Malignant myofibroblastoma vs. leiomyosarcoma

Ohio (Cleveland Clinic Foundation) - Spindle cell sarcoma  
Ohio (St. Elizabeth Health Center) - Leiomyosarcoma  
Pennsylvania (Conemaugh Memorial Hospital) - Carcinosarcoma (2)  
Pennsylvania (Drexel University College of Medicine) - Mixed type liposarcoma  
Pennsylvania (Lehigh Valley Hospital) - Carcinoma with mesenchymal differentiation  
Pennsylvania (Magee Women's Hospital) - Leiomyosarcoma  
Texas, Crystal Beach - Carcinosarcoma  
Texas, Lubbock - Myxoid liposarcoma  
Texas (Scott and White Hospital) - Synovial sarcoma  
Texas (St. Lukes Episcopal Hospital) - Leiomyosarcoma  
Texas, Victoria - PNET  
Washington (Madigan Army Medical Center) - Synovial sarcoma  
Washington (VA Puget Sound Health Care System) - Stromal cell neoplasia, leiomyosarcoma  
West Virginia (Greenbrier Valley Medical Center) - Fibrosarcoma  
Wisconsin, Madison - Leiomyosarcoma  
Australia (Royal Hobart Hospital) - Myxoid leiomyosarcoma  
Canada (Pasqua Hospital) - Leiomyosarcoma  
Canada (University of Sherbrooke) - Sarcomatoid carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Myxoid leiomyosarcoma  
Ireland, Dublin - Monophasic synovial sarcoma  
Ireland (Kerry General Hospital) - Myxoid leiomyosarcoma  
Ireland (UCH Galway Residents) - Myoepithelioma/mixed tumor in soft tissue  
Japan (Asashi City) - Myxoid leiomyosarcoma  
Japan (Kyoto University Hospital) - Myxoid leiomyosarcoma  
Japan (Saiseikar Maebashi Hospital) - Myxoid leiomyosarcoma  
Netherlands, Amstelveen - Leiomyosarcoma  
Oman, Azaiba - Synovial sarcoma  
Saudi Arabia (King Abdulaziz Medical Center) - Pleomorphic high grade sarcoma  
United Kingdom (John Radcliffe Hospital) - Leiomyosarcoma (myxoid)

**Case 9 - Diagnosis:**

Myxoid leiomyosarcoma, sigmoid colon region and mesentery  
 T-64200, M-88903

**Case 9 - References:**

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 Nagarsheth NP, Nicastrì DG, Kashani M, et al. Complete Surgical Resection of a 40-CM Leiomyosarcoma of the Large Bowel Mesentery. *J Surg Educ* 2007; 64(3):162-164.  
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**May 2008**

Alameda (Alameda County Medical Center) - Renal cell carcinoma, chromophobe  
Arcadia (ABC Laboratories) - Chromophobe renal cell carcinoma  
Fontana (Kaiser Permanente) - Renal cell carcinoma chromophobe  
Glendale - Chromophobe renal cell carcinoma  
Las Vegas (Sunrise Hospital) - Renal cell carcinoma chromophobe type  
Long Beach (Long Beach Veterans Hospital) - Chromophobe renal cell carcinoma  
Long Beach (Veterans Long Beach) - Chromophobe renal cell carcinoma  
Mountain View (El Camino Hospital) - Chromophobe cell carcinoma  
Oakland - Chromophobe cell carcinoma

Orinda (Kaiser Permanente) - Chromophobe, renal cell carcinoma  
Oxnard (St. John's Regional Medical Center) - Oncocytoma (1) Renal cell carcinoma (2)  
San Diego (Scripps) - Chromophobe renal cell carcinoma  
San Diego (Naval Medical Center) - Chromophobe renal cell carcinoma  
San Diego (UCSD) - Chromophobe renal cell carcinoma  
San Francisco (San Francisco General Hospital) - Chromophobe renal cell carcinoma  
Santa Barbara - Chromophobe renal cell carcinoma  
Santa Rosa (Santa Rosa Memorial Hospital) - Chromophobe renal cell carcinoma (3)  
Sonoma (Sonoma Valley Hospital) - Chromophobe renal cell carcinoma  
Woodland Hills (Kaiser Permanente) - Chromophobe renal cell carcinoma  
Alabama (Baptist Medical Center) - Chromophobe renal cell carcinoma  
Alabama (Cunningham Pathology, LLC) - Chromophobe renal cell carcinoma  
Alabama (UAB) - Chromophobe carcinoma  
Colorado (Fort Collins) - Chromophobe renal cell carcinoma  
Colorado (McKee Medical Center) - Chromophobe renal cell carcinoma  
Georgia (Decatur) - Chromophobe renal cell carcinoma  
Georgia (Oconee Regional Medical Center) - Chromophobe renal cell carcinoma  
Illinois (Burr Ridge) - Chromophobe renal cell carcinoma  
Illinois (Oak Brook) - Renal cell carcinoma , chromophobe  
Illinois (Heartland Regional Medical Center) - Chromophobe renal cell carcinoma  
Illinois (Loyola University Medical Center) - Chromophobe renal cell carcinoma, kidney (2)  
Iowa (Winneshick County Medical Hospital) - Chromophobe renal cell carcinoma  
Indiana (St. Joseph Hospital) - Renal cell carcinoma, chromophobe cell type (1); Chromophobe cell carcinoma (1)  
Kansas (Cytocheck Laboratory) - Oncocytoma (1); Chromophobe renal cell carcinoma (1)  
Kentucky (University of Louisville Hospital) - Chromophobe renal cell carcinoma  
Louisiana (Orleans Parish Coroner's Office) - Chromophobe renal cell carcinoma  
Maryland (Howard University Hospital) - Chromophobe renal cell carcinoma  
Maryland (Silver Springs) - Chromophobe renal cell carcinoma  
Massachusetts (Berkshire Medical Center) - Chromophobe renal cell carcinoma  
Massachusetts (Tufts New England Medical Center) - Renal cell carcinoma, chromophobe  
Massachusetts (UMAS Memorial Medical Center) - Chromophobe renal cell carcinoma  
Minnesota (Fairview Ridges Hospital) - Chromophobe renal cell carcinoma  
Missouri (Missouri Delta Medical Center) - Chromophobe renal cell carcinoma  
Nebraska (Creighton University Medical Center) - Chromophobe renal cell carcinoma  
New Mexico , Albuquerque - Renal cell carcinoma, chromophobe type  
New York (Erie County Medical Center) - Chromophobe renal cell carcinoma  
New York, Horseheads - Chromophobe renal cell carcinoma  
New York (Long Island Jewish Medical Center) - Chromophobe carcinoma  
New York (St. Lukes Roosevelt Hospital) - Chromophobe renal cell carcinoma  
New York (Stony Brook University Medical Center) - Chromophobe renal cell carcinoma  
New York (SUNY Downstate Medical Center) - Chromophobe renal cell carcinoma  
Ohio (Cleveland Clinic Foundation) - Chromophobe carcinoma  
Ohio (St. Elizabeth Health Center) - Chromophobe renal cell carcinoma  
Pennsylvania (Conemaugh Memorial Hospital) - Renal cell carcinoma chromophobe type (2)  
Pennsylvania (Drexel University College of Medicine) - Chromophobe renal cell carcinoma  
Pennsylvania (Lehigh Valley Hospital) - Chromophobe renal cell carcinoma  
Pennsylvania (Magee Women's Hospital) - Chromophobe renal cell carcinoma  
Texas, Crystal Beach - Renal cell carcinoma, chromophobe  
Texas, Lubbock - Chromophobe carcinoma  
Texas (Scott and White Hospital) - Chromophobe renal cell carcinoma  
Texas (St. Lukes Episcopal Hospital) - Chromophobe carcinoma  
Texas, Victoria - Chromophobe renal cell carcinoma  
Washington (Madigan Army Medical Center) - Chromophobe renal cell carcinoma  
Washington (VA Puget Sound Health Care System) - Urinary epithelial neoplasia, renal cell carcinoma, chromophobe  
West Virginia (Greenbrier Valley Medical Center) - Renal cell carcinoma, chromophobe type  
Wisconsin, Madison - Chromophobe renal cell carcinoma  
Australia (Royal Hobart Hospital) - Chromophobe type of renal cell carcinoma

Canada (Pasqua Hospital) - Chromophobe carcinoma  
Canada (University of Sherbrooke) - Chromophobe renal cell carcinoma  
Hong Kong (Hong Kong Baptist Hospital) - Chromophobe cell carcinoma  
Ireland, Dublin - Renal cell carcinoma, chromophobe type  
Ireland (Kerry General Hospital) - Chromophobe renal cell carcinoma  
Ireland (UCH Galway Residents) - Chromophobe renal cell carcinoma  
Japan (Asashi City) - Chromophobe renal cell carcinoma  
Japan (Kyoto University Hospital) - Chromophobe renal cell carcinoma  
Japan (Saiseikar Maebashi Hospital) - Chromophobe carcinoma  
Netherlands, Amstelveen - Chromophobe renal cell carcinoma  
Oman, Azaiba - Chromophobe renal cell carcinoma  
Saudi Arabia (King Abdulaziz Medical Center) - Renal cell carcinoma, chromophobe  
United Kingdom (John Radcliffe Hospital) - Chromophobe renal cell carcinoma

**Case 10 - Diagnosis:**

Chromophobe carcinoma, kidney  
T-71000, M-83123

**Case 10 - References:**

Mai KT, Teo I, Belanger EC, et al. Progesterone Receptor Reactivity in Renal Oncocytoma and Chromophobe Renal Cell Carcinoma. *Histopathol* 2008; 52(3):277-282.  
Skolarus Ta, Serrano MF, Berger DA, Bullock TL, et al. The Distribution of Histological Subtypes of Renal Tumors by Decade of Life Using the 2004 WHO Classification. *J Urol* 2008 179(2):439-443.  
Hoffmann NE, Gillett MD, Cheville JC, et al. Differences in Organ System of Distant Metastasis by Renal Cell Carcinoma Subtype. *J Urol* 2008; 179(2):474-477.  
Allory Y, Bazille C, Viellefond A, Molinie V, et al. Profiling and Classification Tree Applied to Renal Epithelial Tumours. *Histopathol* 2008; 52(2):158-166.  
Mete O, Kilicaslan I, Ozcan F. Sarcomatoid Chromophobe Renal Cell Carcinoma with Squamous Differentiation. *Pathol* 2007; 39(6):598-599.