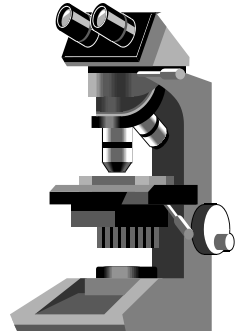


CALIFORNIA
TUMOR TISSUE REGISTRY

“General Pathology”

Minutes – Subscription B

May 2002



SUGGESTED READING (General Topics from Recent Literature):

- Risk Factors for Adenocarcinoma of the Small Intestine. Negri E, Bosetti C, La Vecchia C, et al. *Int J Cancer*. 1999 Jul 19; 82(2):171-174.
- Prognostic Factors in Resected Primary Small Bowel Tumors. Brucher BL, Roder JD, Fink U, et al. *Dig Surg*. 1998; 15(1):42-51.
- Small Intestinal Neoplasms. Gill SS, Heuman DM, Mihas AA. *J Clin Gastroenterol*. 2001 Oct; 33(4):267-82.
- Microcytic Adenoma Coexistent with Low-grade Malignant Islet Cell Tumor of the Pancreas. Jung HK, Son HY, Lee HC, et al. *J Clin Gastroenterol*. 2001 May-Jun; 32(5):441-443.

California Tumor Tissue Registry
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FILE DIAGNOSES

CTTR Subscription B

May 2002

Case 1:

Mixed germ cell tumor with immature teratoma, mature teratoma, and PNET components, testis

T-78020, M-89400

Case 2:

Malignant mixed Müllerian tumor (MMMT) with heterologous components, uterus

T-82000, M-89803

Case 3:

Thymic hyperplasia with associated myasthenia gravis

T-98000, M-72000

Case 4:

Oncocytoma, kidney

T-71000, M-82900

Case 5:

Pancreatic endocrine tumor (islet cell tumor), pancreas

T-59000, M-8150/0

Case 6:

Variant of fibrous dysplasia with calcospherites, temporal bone

T-Y010, M-74910

Case 7:

Chondromyxoid fibroma, femur

T-11710, M-9241/0

Case 8:

Extra-abdominal fibromatosis (extra-abdominal desmoid tumor), gluteus muscle

T-14450, M-76100

Case 9:

Dermatofibrosarcoma protuberans (DFSP), groin

T-Y7000, M-8832/3

Case 10:

Superficial angiomyxoma, thigh

T-Y9100, M-8840/0

Erratum:

In March 2002 B 'Minutes', there was a typographical error in the diagnosis for case 10 on page 2. The correct diagnosis is 'Pleomorphic sarcoma NOS, Spleen, T-67000, M-88023" instead of 'Metastatic colonic, adenocarcinoma, Spleen, T-67000, M-81403'. Please accept our apologies for the inaccuracy.

Case No. 1, Accession No. 29365**May 2002**

Escondido - Mature and immature teratoma
Glendale (Glendale Pathology Association) - Immature teratoma
Los Angeles (USC Residents) - Immature teratoma
Modesto (Yosemite Pathology Medical Group) - Immature teratoma
Orange (UCI Medical Center Residents) - Immature teratoma
Sacramento (UC Davis Medical Center) - Immature teratoma
Arizona (Phoenix Memorial Hospital) - Immature teratoma
Colorado (UNIPATH) - Immature cystic teratoma with embryonal carcinoma
Florida, Ocala - Teratoma with secondary malignant component
Florida (Winter Haven Hospital) - Teratocarcinoma
Georgia, Decatur - Immature teratoma
Illinois (Marion Memorial Hospital) - Non-seminomatous germ cell neoplasm (immature teratoma)
Illinois (Sarah Bush Lincoln Health Center) - Teratocarcinoma
Indiana, Fort Wayne - Mixed germ cell tumor, left testis (embryonal immature teratoma)
Kansas (Coffeyville Regional Medical Center) - Teratoma, consistent with mature element, testis
Kansas (University of Kansas Medical Center) - Germ cell tumor composed of malignant teratoma with ITGSN
Kentucky (University of Louisville Hospital) - Teratoma with malignant transformation
Massachusetts (Berkshire Medical Center) - Immature teratoma
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Malignant teratoma (focus of possible high grade neuroendocrine carcinoma)
Michigan (St. Joseph Mercy Hospital) - Immature teratoma
Maryland (National Naval Medical Center) - Immature teratoma (2); Mature teratoma with malignant (carcinomatous) transformation (6)
Mississippi (King's Daughter Medical Center) - Immature teratoma with seminoma - in situ
Missouri, Joplin - Malignant teratoma
Nebraska (Good Samaritan Hospital) - Immature teratoma
New York (Nassau University Medical Center Group) - Mixed germ cell tumor
Ohio, Columbus - Immature teratoma
Ohio (MCO Pathology) - Immature teratoma
Pennsylvania (Allegheny General Hospital) - Malignant teratoma
Pennsylvania (Memorial Medical Center) - Teratoma, testis
Pennsylvania, Sewickley - Teratocarcinoma
Texas, Lubbock - Immature teratoma
Texas (Scott & White Hospital) - Immature teratoma
Texas, San Antonio - Malignant teratoma
Utah (St. Mark's Hospital) - Immature teratoma + embryonal carcinoma
Washington, DC - Immature teratoma
Canada (CUSI, Site Fleurimont) - Immature teratoma, high grade
Canada (University of Calgary, Foothills Hospital) - Immature teratoma and ITGCN
Japan (Hamamatsu University School of Medicine) - Immature teratoma
Japan (Saitama Medical School) - Immature teratoma
Japan (Self Defense Hospital) - Teratoma
Puerto Rico (University of Puerto Rico) - Immature teratoma with an area of primitive neuroectodermal tumor
Saudi Arabia (King Khalid University Hospital) - Malignant germ cell tumour (4); Immature teratoma (2)
Singapore (Tan Tok Hospital Pte. Ltd.) - Immature teratoma
Spain (Policlinico Vigosa) - Teratocarcinoma vs. immature teratoma
The Netherlands, Amstelveen - Immature teratoma

Case 1 - Diagnosis:**Mixed germ cell tumor with immature teratoma, mature teratoma and PNET components, testis**

Director's Note: Not all slides contained all the components. (drc)

T-78020, M-89400

Case 1 - References:

- Bosl GJ, Motzer RJ. Testicular Germ-cell Cancer. *N Engl J Med*. 1997 Jul 24; 337(4):242-253.
 International Germ Cell Cancer Collaborative Group. International Germ Cell Consensus Classification: A Prognostic Factor-Based Staging System for Metastatic Germ Cell Cancers. *J Clin Oncol*. 1997 Feb; 15(2):594-603.
 Bosl GJ, Geller NL, Bajorin D, et al. A Randomized Trial of Etoposide + Cisplatin Versus Vinblastine + Bleomycin + Cisplatin + Cyclophosphamide + Dactinomycin in Patients with Good-Prognosis Germ Cell Tumors. *J Clin Oncol*. 1988 Aug; 6(8):1231-1238.

Case No. 2, Accession No. 29372

May 2002

Escondido - Malignant mixed Müllerian tumor with heterologous differentiation
Glendale (Glendale Pathology Association) - MMMT (malignant mixed Müllerian tumor)
Los Angeles (USC Residents) - Malignant Müllerian tumor with heterologous elements
Modesto (Yosemite Pathology Medical Group) - Carcinosarcoma
Orange (UCI Medical Center Residents) - Malignant mixed mesodermal tumor
Sacramento (UC Davis Medical Center) - Carcinosarcoma
Arizona (Phoenix Memorial Hospital) - Malignant mixed mesodermal tumor
Colorado (UNIPATH) - Carcinosarcoma
Florida, Ocala - Carcinosarcoma
Florida (Winter Haven Hospital) - Müllerian carcinosarcoma, heterologous type
Georgia, Decatur - Mixed malignant Müllerian tumor
Illinois (Marion Memorial Hospital) - Carcinosarcoma (malignant mixed Müllerian tumor)
Illinois (Sarah Bush Lincoln Health Center) - Malignant mixed Müllerian tumor
Indiana, Fort Wayne - Malignant mixed Müllerian neoplasm (heterologous) (carcinosarcoma), uterus
Kansas (Coffeyville Regional Medical Center) - Mixed Müllerian tumor consistent with heterologous elements, uterus
Kansas (University of Kansas Medical Center) - Malignant mixed Müllerian tumor with heterologous component
Kentucky (University of Louisville Hospital) - Carcinosarcoma
Massachusetts (Berkshire Medical Center) - MMMT (malignant mixed Müllerian tumor)
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - MMMT (malignant mixed Müllerian tumor) with heterologous rhabdomyosarcoma
Michigan (St. Joseph Mercy Hospital) - Malignant mixed Müllerian tumor
Maryland (National Naval Medical Center) - Malignant mixed mesodermal tumor (8)
Mississippi (King's Daughter Medical Center) - Mixed mesodermal tumor with heterologous elements
Missouri, Joplin - Mixed Müllerian sarcoma
Nebraska (Good Samaritan Hospital) - Carcinosarcoma
New York (Nassau University Medical Center Group) - MMMT (malignant mixed Müllerian tumor)
Ohio, Columbus - Malignant mixed Müllerian tumor
Ohio (MCO Pathology) - Mixed Müllerian tumor with heterologous component
Pennsylvania (Allegheny General Hospital) - MMMT (malignant mixed Müllerian tumor)
Pennsylvania (Memorial Medical Center) - MMMT (malignant mixed Müllerian tumor)
Pennsylvania, Sewickley - Malignant mixed Müllerian tumor
Texas, Lubbock - Mixed heterologous Müllerian tumor, malignant
Texas (Scott & White Hospital) - Malignant mixed Müllerian tumor
Texas, San Antonio - Carcinosarcoma
Utah (St. Mark's Hospital) - MMMT (malignant mixed Müllerian tumor) with heterologous elements
Washington, DC - Malignant mixed Müllerian tumor
Canada (CUSI, Site Fleurimont) - MMMT (malignant mixed Müllerian tumor) homologous
Canada (University of Calgary, Foothills Hospital) - MMT (carcinosarcoma)
Japan (Hamamatsu University School of Medicine) - Carcinosarcoma, heterologous
Japan (Saitama Medical School) - Carcinosarcoma
Japan (Self Defense Hospital) - Malignant mixed Müllerian tumor
Puerto Rico (University of Puerto Rico) - Malignant Müllerian mixed tumor with heterologous components
Saudi Arabia (King Khalid University Hospital) - Malignant mixed Müllerian tumor (triple MT)
Singapore (Tan Tok Hospital Pte. Ltd.) - Malignant mixed Müllerian tumor
Spain (Policlinico Vigosa) - Carcinosarcoma
The Netherlands, Amstelveen - Mixed malignant Müllerian tumor (carcinosarcoma) of the endometrium

Case 2 - Diagnosis:

Malignant mixed Müllerian tumor (MMMT) with heterologous components, uterus

T-82000, M-89803

Case 2 - References:

- Soong R, Knowles S, Hammond IG, et al. P53 Protein Overexpression and Gene Mutation in Mixed Müllerian Tumors of the Uterus. *Cancer Detect Prev.* 1999; 23(1):8-12.
Abeln EC, Smit VT, Wessels JW, et al. Molecular Genetic Evidence for the Conversion Hypothesis of the Origin of Malignant Mixed Müllerian Tumours. *J Pathol.* 1997 Dec; 183(4):424-431.

Kauppila S, Stenback F, Kacinski BM, et al. Characterization of Type I Collagen Synthesis and Maturation in Uterine Carcinosarcomas. *Cancer*. 1999 Oct 1; 86(7):1299-1306.

Pautier P, Genestie C, Rey A, et al. Analysis of Clinicopathologic Prognostic Factors for 157 Uterine Sarcomas and Evaluation of a Grading Score Validated for Soft Tissue Sarcoma. *Cancer*. 2000 Mar 15; 88(6):1425-1431.

Case No. 3, Accession No. 28998

May 2002

Escondido - Follicular hyperplasia
Glendale (Glendale Pathology Association) - Thymic hyperplasia
Los Angeles (USC Residents) - Thymic follicular hyperplasia
Modesto (Yosemite Pathology Medical Group) - Thymolipoma
Orange (UCI Medical Center Residents) - Thymic hyperplasia
Sacramento (UC Davis Medical Center) - Follicular hyperplasia (11) vs. Castleman's disease (2) vs. thymoma (1)
Arizona (Phoenix Memorial Hospital) - Thymoma
Colorado (UNIPATH) - Myasthenia gravis
Florida, Ocala - Thymic hyperplasia
Florida (Winter Haven Hospital) - Thymic hyperplasia
Georgia, Decatur - Lymphofollicular hyperplasia of the thymus
Illinois (Marion Memorial Hospital) - Thymolipoma
Illinois (Sarah Bush Lincoln Health Center) - Thymic follicular hyperplasia
Indiana, Fort Wayne - Thymic hyperplasia, thymus (germinal center) (myasthenia gravis)
Kansas (Coffeyville Regional Medical Center) - Thymic hyperplasia
Kansas (University of Kansas Medical Center) - Thymoma arising in a background of thymic follicular hyperplasia
Kentucky (University of Louisville Hospital) - Thymic lymphoid hyperplasia
Massachusetts (Berkshire Medical Center) - Thymic hyperplasia
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Thymic lymphoid hyperplasia
Michigan (St. Joseph Mercy Hospital) - lymphoid hyperplasia
Maryland (National Naval Medical Center) - Follicular lymphoid thymic hyperplasia
Mississippi (King's Daughter Medical Center) - Thymus, follicular hyperplasia
Missouri, Joplin - Thymus consistent with Castleman's disease
Nebraska (Good Samaritan Hospital) - Thymic hyperplasia
New York (Nassau University Medical Center Group) - Follicular lymphoid hyperplasia
Ohio, Columbus - Thymic hyperplasia
Ohio (MCO Pathology) - Lymphoid follicular hyperplasia, thymus
Pennsylvania (Allegheny General Hospital) - Follicular hyperplasia
Pennsylvania (Memorial Medical Center) - Thymoma, lymphocyte predominant
Pennsylvania, Sewickley - Lymphoid hyperplasia
Texas, Lubbock - Thymolipoma
Texas (Scott & White Hospital) - Follicular lymphoid hyperplasia
Texas, San Antonio - Thymic hyperplasia
Utah (St. Mark's Hospital) - Thymic lymphoid hyperplasia
Washington, DC - Thymus hyperplasia
Canada (CUSI, Site Fleurimont) - Lymphoid hyperplasia of thymus
Canada (University of Calgary, Foothills Hospital) - Lymphoid hyperplasia of thymus
Japan (Hamamatsu University School of Medicine) - Lymphoid hyperplasia of the thymus
Japan (Saitama Medical School) - Thymolipoma
Japan (Self Defense Hospital) - Lymphoid hyperplasia
Puerto Rico (University of Puerto Rico) - Thymic follicular hyperplasia
Saudi Arabia (King Khalid University Hospital) - Thymic lymphoid follicular hyperplasia
Singapore (Tan Tok Hospital Pte. Ltd.) - Thymic lymphoid hyperplasia
Spain (Policlinico Vigosa) - Thymic follicular hyperplasia
The Netherlands, Amstelveen - Benign thymus with some follicular hyperplasia

CASE 3 - Diagnosis:

Thymic hyperplasia with associated myasthenia gravis (see Director's Note)

Director's Note: Additional history showed serum acetylcholine receptor binding antibodies of 124.0 nmol/L (norm < 0.8 nmol/L). (drc)

T-98000, M-72000

Case 3 - References:

- Obaro RO. Case Report: True Massive Thymic Hyperplasia. *Clin Radiol*. 1996 Jan; 51(1):62-64
- Tregnaghi A, De Candia A, Calderone M, et al. Imaging of the Thymus Gland in Myasthenia Gravis (Computerized Tomography and Magnetic Resonance). *Radiol Med (Torino)*. 1995 Oct; 90(4):404-409.
- Roviaro G, Varoli F, Nucca O, et al. Videothoracoscopic Approach to Primary Mediastinal Pathology. *Chest*. 2000 Apr; 117(4):1179-1183.
- Zelano G, Settesoldi D, Lino MM, et al. Thymic Disorders and Myasthenia Gravis: Genetic Aspects. *Ann Med*. 1999 Oct; 31 Suppl 2:46-51.
- Higuchi T, Taki J, Kinuya S, et al. Thymic Lesions in Patients with Myasthenia Gravis: Characterization with Thallium 201 Scintigraphy. *Radiology*. 2001 Oct; 221(1):201-206.

Case No. 4, Accession No. 29363

May 2002

- Escondido - Oncocytoma
- Glendale (Glendale Pathology Association) - Oncocytoma
- Los Angeles (USC Residents) - Renal cell carcinoma, oncocytic variant (5); Oncocytoma (1)
- Modesto (Yosemite Pathology Medical Group) - Oncocytoma
- Orange (UCI Medical Center Residents) - Oncocytoma
- Sacramento (UC Davis Medical Center) - Oncocytoma
- Arizona (Phoenix Memorial Hospital) - Oncocytoma
- Colorado (UNIPATH) - Oncocytoma
- Florida, Ocala - Renal cell carcinoma
- Florida (Winter Haven Hospital) - Renal cell carcinoma, granular type
- Georgia, Decatur - Oncocytoma
- Illinois (Marion Memorial Hospital) - Renal oncocytoma
- Illinois (Sarah Bush Lincoln Health Center) - Renal oncocytoma
- Indiana, Fort Wayne - Oncocytoma, right kidney
- Kansas (Coffeyville Regional Medical Center) - Renal oncocytoma
- Kansas (University of Kansas Medical Center) - Renal oncocytoma
- Kentucky (University of Louisville Hospital) - Oncocytoma
- Massachusetts (Berkshire Medical Center) - Oncocytoma
- Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Oncocytoma
- Michigan (St. Joseph Mercy Hospital) - Oncocytoma
- Maryland (National Naval Medical Center) - Renal cell carcinoma, papillary type (3); Renal cell carcinoma, granular cell type (4); Renal cell carcinoma consistent with oncocytic features (1)
- Mississippi (King's Daughter Medical Center) - Oncocytoma
- Missouri, Joplin - Oncocytoma – carcinoma of kidney
- Nebraska (Good Samaritan Hospital) - Oncocytoma
- New York (Nassau University Medical Center Group) - Oncocytoma
- Ohio, Columbus - Oncocytoma
- Ohio (MCO Pathology) - Oncocytoma
- Pennsylvania (Allegheny General Hospital) - Oncocytoma
- Pennsylvania (Memorial Medical Center) - Chromophobe RCC (renal cell carcinoma)
- Pennsylvania, Sewickley - Renal oncocytoma
- Texas, Lubbock - Renal cell carcinoma, oncocytic type
- Texas (Scott & White Hospital) - Oncocytoma
- Texas, San Antonio - RCC (renal cell carcinoma)
- Utah (St. Mark's Hospital) - Oncocytoma
- Washington, DC - Oncocytoma
- Canada (CUSI, Site Fleurimont) - Renal oncocytoma
- Canada (University of Calgary, Foothills Hospital) - Oncocytoma
- Japan (Hamamatsu University School of Medicine) - Oncocytoma
- Japan (Saitama Medical School) - Renal cell carcinoma
- Japan (Self Defense Hospital) - Renal cell carcinoma
- Puerto Rico (University of Puerto Rico) - Renal Oncocytoma
- Saudi Arabia (King Khalid University Hospital) - Renal cell carcinoma
- Singapore (Tan Tok Hospital Pte. Ltd.) - Renal oncocytoma
- Spain (Policlinico Vigosa) - Oncocytoma vs. granular renal cell carcinoma
- The Netherlands, Amstelveen - Oncocytoma, kidney

Case 4 - Diagnosis:

Oncocytoma, kidney

T-71000, M-82900

Case 4 - References:

- Hes O, Michal M, Sulc M, et al. Oncocytoma of the Kidney--Morphologic Variation in 102 Cases. *Cesk Patol.* 2001 Apr; 37(2):51-56.
- Shimazaki H, Tanaka K, Aida S, et al. Renal Oncocytoma with Intracytoplasmic Lumina: A Case Report with Ultrastructural Findings of "Oncoblasts". *Ultrastruct Pathol.* 2001 Mar-Apr; 25(2):153-158.
- Russo P. Evolving Understanding and Surgical Management of Renal Cortical Tumors. *Mayo Clin Proc.* 2000 Dec; 75(12):1233-1235.
- Castren JP, Kamel DE, Nurmi MJ, et al. Cathepsin H Expression Distinguishes Oncocytomas from Renal Cell Carcinomas. *Anticancer Res.* 2000 Jan-Feb; 20(1B):537-540.

Case No. 5, Accession No. 29414

May 2002

Escondido - Carcinoid

Glendale (Glendale Pathology Association) - Pancreatic endocrine tumor

Los Angeles (USC Residents) - Pancreatic endocrine tumor (PET)

Modesto (Yosemite Pathology Medical Group) - Pancreatic endocrine neoplasm

Orange (UCI Medical Center Residents) - Carcinoid tumor

Sacramento (UC Davis Medical Center) - Pancreatic endocrine neoplasm

Arizona (Phoenix Memorial Hospital) - Pancreatic endocrine carcinoma

Colorado (UNIPATH) - Neuroendocrine tumor

Florida, Ocala - Carcinoid tumor

Florida (Winter Haven Hospital) - Pancreatic neuroendocrine carcinoma

Georgia, Decatur - Pancreatic endocrine tumor

Illinois (Marion Memorial Hospital) - Pancreatic endocrine tumor (islet cell tumor) of low grade malignancy

Illinois (Sarah Bush Lincoln Health Center) - Pancreatic endocrine neoplasm

Indiana, Fort Wayne - Neuroendocrine neoplasm, distal pancreas

Kansas (Coffeyville Regional Medical Center) - Neuroendocrine tumor (islet cell?)

Kansas (University of Kansas Medical Center) - Pancreatic neuroendocrine tumor

Kentucky (University of Louisville Hospital) - Islet cell tumor

Massachusetts (Berkshire Medical Center) - Neuroendocrine pancreatic neoplasm consistent with islet cell tumor

Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Pancreatic neuroendocrine neoplasm

Michigan (St. Joseph Mercy Hospital) - Islet cell tumor

Maryland (National Naval Medical Center) - Pancreatic endocrine neoplasm (7); Carcinoid tumor(1)

Mississippi (King's Daughter Medical Center) - Carcinoid tumor

Missouri, Joplin - Acinar carcinoma

Nebraska (Good Samaritan Hospital) - Acinar carcinoma

New York (Nassau University Medical Center Group) - Neuroendocrine tumor of pancreas

Ohio, Columbus - Islet cell tumor

Ohio (MCO Pathology) - Islet cell tumor (immunohistochemistry), (morphology is acinar cell)

Pennsylvania (Allegheny General Hospital) - Well-differentiated neuroendocrine carcinoma

Pennsylvania (Memorial Medical Center) - Islet cell tumor, pancreas

Pennsylvania, Sewickley - Neuroendocrine carcinoma

Texas, Lubbock - Islet cell tumor

Texas (Scott & White Hospital) - Pancreatic neuroendocrine tumor

Texas, San Antonio - PEN (pancreatic neuroendocrine neoplasm)

Utah (St. Mark's Hospital) - Neuroendocrine carcinoma

Washington, DC - Neuroendocrine tumor (likely carcinoid)

Canada (CUSI, Site Fleurimont) - Endocrine neoplasm, pancreas

Canada (University of Calgary, Foothills Hospital) - Pancreatic endocrine neoplasm

Japan (Hamamatsu University School of Medicine) - Islet cell tumor

Japan (Saitama Medical School) - Endocrine tumor, non-functioning

Japan (Self Defense Hospital) - Islet cell tumor

Puerto Rico (University of Puerto Rico) - Pancreatic endocrine tumor, probably malignant

Saudi Arabia (King Khalid University Hospital) - Islet cell pancreatic tumour

Singapore (Tan Tok Hospital Pte. Ltd.) - Pancreatic endocrine neoplasm

Spain (Policlinico Vigosa) - Endocrine tumor (amyloid?)

The Netherlands, Amstelveen - Nonfunctioning endocrine pancreas tumor

Case 5 - Diagnosis:

Pancreatic endocrine tumor (islet cell tumor), pancreas

T-59000, M-8150/0

Case 5 - References:

- Bieligk S, Jaffe BM. Islet Cell Tumors of the Pancreas. *Surg Clin North Am.* 1995 Oct; 75(5):1025-1040.
Smith SL, Branton SA, Avino AJ, et al. Vasoactive Intestinal Polypeptide Secreting Islet Cell Tumors: A 15-Year Experience and Review of the Literature. *Surgery.* 1998 Dec; 124(6):1050-1055.
Delcore R, Friesen SR. Gastrointestinal Neuroendocrine Tumors. *J Am Coll Surg.* 1994 Feb; 178(2):187-211.
Buetow PC, Parrino TV, Buck JL, et al. Islet Cell Tumors of the Pancreas: Pathologic-Imaging Correlation Among Size, Necrosis and Cysts, Calcification, Malignant Behavior, and Functional Status. *AJR Am J Roentgenol.* 1995 Nov; 165(5):1175-1179.

Case No. 6, Accession No. 29382

May 2002

Escondido - Solitary bone cyst
Glendale (Glendale Pathology Association) - Juvenile active ossifying fibroma
Los Angeles (USC Residents) - Juvenile active ossifying fibroma
Modesto (Yosemite Pathology Medical Group) - Meningioma
Orange (UCI Medical Center Residents) - Cementinoma
Sacramento (UC Davis Medical Center) - Meningioma
Arizona (Phoenix Memorial Hospital) - Rhabdomyosarcoma
Colorado (UNIPATH) - Fibrous dysplasia
Florida, Ocala - Solitary bone cyst
Florida (Winter Haven Hospital) - Fibrous dysplasia
Georgia, Decatur - Ossifying fibroma
Illinois (Marion Memorial Hospital) - Ectopic meningioma
Illinois (Sarah Bush Lincoln Health Center) - Ossifying fibroma
Indiana, Fort Wayne - Benign fibro-osseous dysplasia, temporal bone (craniofacial) with cementifying features
Kansas (Coffeyville Regional Medical Center) - Meningioma (psammomatous type)
Kansas (University of Kansas Medical Center) - Aneurysmal bone cyst
Kentucky (University of Louisville Hospital) - Meningioma
Massachusetts (Berkshire Medical Center) - Meningioma, psammomatous
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Juvenile active ossifying fibroma
Michigan (St. Joseph Mercy Hospital) - Aneurysmal bone cyst (2); Brown tumor (1)
Maryland (National Naval Medical Center) - Ossifying fibroma (7); Meningioma (1)
Mississippi (King's Daughter Medical Center) - Aneurysmal bone cyst
Missouri, Joplin - Fibrous dysplasia
Nebraska (Good Samaritan Hospital) - Osteoblastoma
New York (Nassau University Medical Center Group) - Aneurysmal bone cyst
Ohio, Columbus - Ossifying fibroma
Ohio (MCO Pathology) - Meningioma (invasive)
Pennsylvania (Allegheny General Hospital) - Fibrous dysplasia
Pennsylvania (Memorial Medical Center) - Aneurysmal bone cyst
Pennsylvania, Sewickley - Invasive meningioma - psammomatous
Texas, Lubbock - Hemangioma
Texas (Scott & White Hospital) - Aneurysmal bone cyst
Texas, San Antonio - JAOF (juvenile active ossifying fibroma)
Utah (St. Mark's Hospital) - Fibro-osseous dysplasia
Washington, DC - Fibrous dysplasia
Canada (CUSI, Site Fleurimont) - Invading meningioma
Canada (University of Calgary, Foothills Hospital) - Fibrous dysplasia with secondary aneurysmal bone cyst formation
Japan (Hamamatsu University School of Medicine) - Juvenile ossifying fibroma
Japan (Saitama Medical School) - Fibrous dysplasia
Japan (Self Defense Hospital) - Fibrous dysplasia
Puerto Rico (University of Puerto Rico) - Cemento-ossifying fibroma/hemangioma
Saudi Arabia (King Khalid University Hospital) - Aggressive cemento-ossifying fibroma
Singapore (Tan Tok Hospital Pte. Ltd.) - Cemento-ossifying fibroma
Spain (Policlinico Vigosa) - Cemento-ossifying fibroma
The Netherlands, Amstelveen - Psammomatoid ossifying fibroma

Case 6 - Diagnosis:

Variant of fibrous dysplasia with calcospherites, temporal bone

T-Y0110, M-74910

Case 6 - References:

- Dal Cin P, Sciort R, Brys P, et al. Recurrent Chromosome Aberrations in Fibrous Dysplasia of the Bone: A Report of the CHAMP Study Group. *CHromosomes And MorPhology. Cancer Genet Cytogenet.* 2000 Oct 1; 122(1):30-32.
- Xenellis J, Bibas A, Savy L, et al. Monostotic Fibrous Dysplasia of the Temporal Bone. *J Laryngol Otol.* 1999 Aug; 113(8):772-774.
- Maki M, Saitoh K, Horiuchi H, et al. Comparative Study of Fibrous Dysplasia and Osteofibrous Dysplasia: Histopathological, Immunohistochemical, Argyrophilic Nucleolar Organizer Region and DNA Ploidy Analysis. *Pathol Int.* 2001 Aug; 51(8):603-611.
- Marie PJ. Cellular and Molecular Basis of Fibrous Dysplasia. *Histol Histopathol.* 2001 Jul; 16(3):981-988.

Case No. 7, Accession No. 29044

May 2002

Escondido - Chondrosarcoma
Glendale (Glendale Pathology Association) - Chondromyxoid fibroma
Los Angeles (USC Residents) - Chondromyxoid fibroma
Modesto (Yosemite Pathology Medical Group) - Low grade chondrosarcoma
Orange (UCI Medical Center Residents) - Chondrosarcoma
Sacramento (UC Davis Medical Center) - Chondrosarcoma
Arizona (Phoenix Memorial Hospital) - Chondrosarcoma
Colorado (UNIPATH) - Chondrosarcoma
Florida, Ocala - Chondrosarcoma
Florida (Winter Haven Hospital) - Chondromyxoid fibroma
Georgia, Decatur - Chondromyxoid fibroma
Illinois (Marion Memorial Hospital) - Chondromyxoid fibroma
Illinois (Sarah Bush Lincoln Health Center) - Chondrosarcoma
Indiana, Fort Wayne - Chondromyxoid fibroma, left distal femur
Kansas (Coffeyville Regional Medical Center) - Chondromyxoid fibroma, femur
Kansas (University of Kansas Medical Center) - Chondrosarcoma, high grade
Kentucky (University of Louisville Hospital) - Chondrosarcoma vs. osteosarcoma
Massachusetts (Berkshire Medical Center) - HG (high grade) Chondrosarcoma
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Chondromyxoid fibroma
Michigan (St. Joseph Mercy Hospital) - Chondromyxoid fibroma
Maryland (National Naval Medical Center) - Chondromyxoid fibroma (7); Myxoid chondrosarcoma (1)
Mississippi (King's Daughter Medical Center) - Chondrosarcoma
Missouri, Joplin - Chondrosarcoma
Nebraska (Good Samaritan Hospital) - Chondromyxoid fibroma
New York (Nassau University Medical Center Group) - Myxochondroid fibroma
Ohio, Columbus - Chondroblastoma
Ohio (MCO Pathology) - Juxtacortical chondroma
Pennsylvania (Allegheny General Hospital) - Chondromyxoid fibroma
Pennsylvania (Memorial Medical Center) - Myxoid chondrosarcoma
Pennsylvania, Sewickley - Chondrosarcoma
Texas, Lubbock - Chondromyxoid fibroma
Texas (Scott & White Hospital) - Chondromyxoid fibroma
Texas, San Antonio - Ossifying fibromyxoid
Utah (St. Mark's Hospital) - Chondrosarcoma
Washington, DC - Chondrosarcoma
Canada (CUSH, Site Fleurimont) - Chondromyxoid fibroma
Canada (University of Calgary, Foothills Hospital) - Chondromyxoid fibroma
Japan (Hamamatsu University School of Medicine) - Chondrosarcoma
Japan (Saitama Medical School) - Chondromyxoid fibroma
Japan (Self Defense Hospital) - Osteosarcoma
Puerto Rico (University of Puerto Rico) - Chondromyxoid fibroma
Saudi Arabia (King Khalid University Hospital) - Chondrosarcoma (myxoid)
Singapore (Tan Tok Hospital Pte. Ltd.) - Chondromyxoid fibroma
Spain (Policlinico Vigosa) - Myxoid chondrosarcoma
The Netherlands, Amstelveen - Chondrosarcoma

Case 7 - Diagnosis:

Chondromyxoid fibroma, femur

T-11710, M-9241/0

Case 7 - References:

- Kreicbergs A, Lonnquist PA, Willems J. Chondromyxoid Fibroma. A Review of the Literature and a Report on Our own Experience. *Acta Pathol Microbiol Immunol Scand* [A]. 1985 Jul; 93(4):189-197.
- Bialik V, Kedar A, Ben-Arie Y, et al. Case Report 315. Diagnosis: Parosteal (Periosteal, Juxtacortical) Chondromyxoid Fibroma of the Upper End of the Femur. *Skeletal Radiol*. 1985; 13(4):323-326.
- Koh JS, Chung JH, Lee SY, et al. Chondrosarcoma of the Proximal Femur with Myxoid Degeneration Mistaken for Chondromyxoid Fibroma in a Young Adult. A Case Report. *Acta Cytol*. 2001 Mar-Apr; 45(2):254-258.
- Soder S, Inwards C, Muller S, et al. Cell Biology and Matrix Biochemistry of Chondromyxoid Fibroma. *Am J Clin Pathol*. 2001 Aug; 116(2):271-277.

Case No. 8, Accession No. 29296

May 2002

Escondido - Extra-abdominal fibromatosis
Glendale (Glendale Pathology Association) - Desmoid tumor
Los Angeles (USC Residents) - Extra-abdominal fibromatosis
Modesto (Yosemite Pathology Medical Group) - Fibromatosis
Orange (UCI Medical Center Residents) - Extra-abdominal, deep fibromatosis
Sacramento (UC Davis Medical Center) - Fibromatosis
Arizona (Phoenix Memorial Hospital) - Musculoaponeurotic fibromatosis (desmoid)
Colorado (UNIPATH) - Leiomyoma
Florida, Ocala - Extra abdominal desmoid tumor
Florida (Winter Haven Hospital) - Fibromatosis
Georgia, Decatur - Fibromatosis
Illinois (Marion Memorial Hospital) - Extra-abdominal desmoid fibromatosis
Illinois (Sarah Bush Lincoln Health Center) - Extra abdominal fibromatosis (extra abdominal desmoid)
Indiana, Fort Wayne - Benign fibromatosis, left leg (desmoid type)
Kansas (Coffeyville Regional Medical Center) - Extra abdominal fibromatosis (desmoid)
Kansas (University of Kansas Medical Center) - Nodular fasciitis
Kentucky (University of Louisville Hospital) - Fibromatosis
Massachusetts (Berkshire Medical Center) - Proliferative myositis
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Extra-abdominal desmoid fibromatosis
Michigan (St. Joseph Mercy Hospital) - Fibromatosis
Maryland (National Naval Medical Center) - Desmoid tumor (8)
Mississippi (King's Daughter Medical Center) - Proliferative myositis
Missouri, Joplin - Aggressive fibromatosis (desmoid)
Nebraska (Good Samaritan Hospital) - Fibromatosis
New York (Nassau University Medical Center Group) - Fibromatosis
Ohio, Columbus - Fibromatosis
Ohio (MCO Pathology) - Aggressive fibromatosis
Pennsylvania (Allegheny General Hospital) - Fibromatosis
Pennsylvania (Memorial Medical Center) - Fibromatosis
Pennsylvania, Sewickley - Fibromatosis
Texas, Lubbock - Proliferative myositis
Texas (Scott & White Hospital) - Extraskelatal desmoid tumor
Texas, San Antonio - Fibromatosis
Utah (St. Mark's Hospital) - Fibromatosis, extra-abdominal
Washington, DC - Fibromatosis
Canada (CUSI, Site Fleurimont) - Extra abdominal fibromatosis
Canada (University of Calgary, Foothills Hospital) - Desmoid tumor
Japan (Hamamatsu University School of Medicine) - Nodular fasciitis
Japan (Saitama Medical School) - Fibromatosis
Japan (Self Defense Hospital) - Extra-abdominal fibromatosis
Puerto Rico (University of Puerto Rico) - Extra-abdominal fibromatosis, desmoid type, musculoaponeurotic
Saudi Arabia (King Khalid University Hospital) - Fibromatosis
Singapore (Tan Tok Hospital Pte. Ltd.) - Proliferative myositis/fasciitis
Spain (Policlinico Vigosa) - Fibromatosis
The Netherlands, Amstelveen - Fibromatosis

Case 8 - Diagnosis:

Extra-abdominal fibromatosis (extra-abdominal desmoid tumor), gluteus muscles
T-14450, M-76100

Case 8 - References:

- Vandevenne JE, De Schepper AM, De Beuckeleer L, et al. New Concepts in Understanding Evolution of Desmoid Tumors: MR Imaging of 30 Lesions. *Eur Radiol.* 1997; 7(7):1013-1019.
- Bridge JA, Sreekantaiah C, Mouron B, et al. Clonal Chromosomal Abnormalities in Desmoid Tumors. Implications for Histopathogenesis. *Cancer.* 1992 Jan 15; 69(2):430-436.
- Lopez R, Kemalyan N, Moseley HS, et al. Problems in Diagnosis and Management of Desmoid Tumors. *Am J Surg.* 1990 May; 159(5):450-453.
- Miralbell R, Suit HD, Mankin HJ, et al. Fibromatoses: From Postsurgical Surveillance to Combined Surgery and Radiation Therapy. *Int J Radiat Oncol Biol Phys.* 1990 Mar; 18(3):535-540.

Case No. 9, Accession No. 29281

May 2002

Escondido - Solitary fibrous tumor

Glendale (Glendale Pathology Association) - DFSP (dermatofibrosarcoma protuberans)

Los Angeles (USC Residents) - dermatofibrosarcoma protuberans (5); Hemangiopericytoma (1)

Modesto (Yosemite Pathology Medical Group) - DFSP (dermatofibrosarcoma protuberans)

Orange (UCI Medical Center Residents) - Hemangiopericytoma

Sacramento (UC Davis Medical Center) - Dermatofibrosarcoma protuberance

Arizona (Phoenix Memorial Hospital) - Solitary fibrous tumor

Colorado (UNIPATH) - Malignant fibrous histiocytoma

Florida, Ocala - Dermatofibrosarcoma protuberans

Florida (Winter Haven Hospital) - Dermatofibrosarcoma protuberans

Georgia, Decatur - Dermatofibrosarcoma protuberans

Illinois (Marion Memorial Hospital) - Dermatofibrosarcoma protuberans

Illinois (Sarah Bush Lincoln Health Center) - Malignant peripheral nerve sheath tumor

Indiana, Fort Wayne - Hemangiopericytoma, left inguinal area

Kansas (Coffeyville Regional Medical Center) - Schwannoma

Kansas (University of Kansas Medical Center) - Malignant solitary fibrous tumor vs. fibrosarcoma

Kentucky (University of Louisville Hospital) - Dermatofibrosarcoma protuberans

Massachusetts (Berkshire Medical Center) - DFSP (dermatofibrosarcoma protuberans)

Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Solitary fibrous tumor/hemangiopericytoma

Michigan (St. Joseph Mercy Hospital) - Dermatofibrosarcoma protuberans

Maryland (National Naval Medical Center) - Dermatofibrosarcoma protuberans

Mississippi (King's Daughter Medical Center) - Dermatofibrosarcoma protuberans

Missouri, Joplin - Fibrosarcoma

Nebraska (Good Samaritan Hospital) - Malignant peripheral nerve sheath tumor

New York (Nassau University Medical Center Group) - Dermatofibrosarcoma protuberans

Ohio, Columbus - Dermatofibrosarcoma protuberans

Ohio (MCO Pathology) - Malignant fibrous histiocytoma

Pennsylvania (Allegheny General Hospital) - DFSP (dermatofibrosarcoma protuberans)

Pennsylvania (Memorial Medical Center) - DFSP (dermatofibrosarcoma protuberans)

Pennsylvania, Sewickley - Dermatofibrosarcoma protuberans

Texas, Lubbock - Dermatofibrosarcoma protuberans

Texas (Scott & White Hospital) - DFSP (dermatofibrosarcoma protuberans)

Texas, San Antonio - DFSP (dermatofibrosarcoma protuberans)

Utah (St. Mark's Hospital) - DFSP (dermatofibrosarcoma protuberans)

Washington, DC - Schwannoma

Canada (CUSI, Site Fleurimont) - Hemangiopericytoma

Canada (University of Calgary, Foothills Hospital) - DFSP (dermatofibrosarcoma protuberans)

Japan (Hamamatsu University School of Medicine) - Dermatofibrosarcoma protuberans

Japan (Saitama Medical School) - Dermatofibrosarcoma protuberans

Japan (Self Defense Hospital) - Hemangiopericytoma

Puerto Rico (University of Puerto Rico) - Dermatofibrosarcoma protuberans in fibrosarcomatous transformation/malignant fibrous histiocytoma

Saudi Arabia (King Khalid University Hospital) - Dermatofibrosarcoma protuberans

Singapore (Tan Tok Hospital Pte. Ltd.) - Dermatofibrosarcoma protuberans

Spain (Policlinico Vigosa) - DFSP (dermatofibrosarcoma protuberans)

The Netherlands, Amstelveen - Solitary fibrous tumor

Case 9 - Diagnosis:

Dermatofibrosarcoma protuberans (DFSP), groin

T-Y7000, M-8832/3

Case 9 - References:

- Fanburg-Smith JC, Miettinen M. Low-Affinity Nerve Growth Factor Receptor (p75) in Dermatofibrosarcoma Protuberans and Other Nonneural Tumors: A Study of 1,150 Tumors and Fetal and Adult Normal Tissues. *Hum Pathol.* 2001 Sep; 32(9):976-983.
- Zelger B, Zelger B. Sarcomas Arising in Dermatofibrosarcoma Protuberans: Collision or Illusion? *Am J Surg Pathol.* 2001 Aug; 25(8):1106-1108.
- Kahn HJ, Fekete E, From L. Tenascin Differentiates Dermatofibroma from Dermatofibrosarcoma Protuberans: Comparison with CD34 and Factor XIIIa. *Hum Pathol.* 2001 Jan; 32(1):50-56.
- Sondak VK, Cimmino VM, Lowe LM, et al. Dermatofibrosarcoma Protuberans: What is the Best Surgical Approach? *Surg Oncol.* 1999 Dec; 8(4):183-189.
- Smith KJ, Menon P, Skelton H. Immunohistochemical Characterization of Dermatofibrosarcoma Protuberans with Practical Applications for Diagnosis and Treatment. *J Am Acad Dermatol.* 1998 May; 38(5 Pt 1):785-6.

Case No. 10, Accession No. 29275

May 2002

Escondido - Myxoid chondrosarcoma
Glendale (Glendale Pathology Association) - Myxoma
Los Angeles (USC Residents) - Angiomyxoma
Modesto (Yosemite Pathology Medical Group) - Extraskeletal myxoid chondrosarcoma
Orange (UCI Medical Center Residents) - Myxoid chondrosarcoma
Sacramento (UC Davis Medical Center) - Focal mucinosis
Arizona (Phoenix Memorial Hospital) - Nerve sheath myxoma (neurothekeoma)
Colorado (UNIPATH) - Mixed tumor
Florida, Ocala - Myxoma
Florida (Winter Haven Hospital) - Myxoid chondrosarcoma
Georgia, Decatur - Ischemic fasciitis
Illinois (Marion Memorial Hospital) - Myxoid liposarcoma, paucicellular
Illinois (Sarah Bush Lincoln Health Center) - Myxoid neurofibroma vs. myxoma
Indiana, Fort Wayne - Superficial angiomyxoma, left thigh
Kansas (Coffeyville Regional Medical Center) - Extraskeletal myxoid chondrosarcoma
Kansas (University of Kansas Medical Center) - Myxoid MFH (malignant fibrous histiocytoma) vs. myxoid-neurothekeoma
Kentucky (University of Louisville Hospital) - Cutaneous myxoma
Massachusetts (Berkshire Medical Center) - Superficial angiomyxoma
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Superficial angiomyxoma
Michigan (St. Joseph Mercy Hospital) - myxoma
Maryland (National Naval Medical Center) - Cutaneous myxoma (8)
Mississippi (King's Daughter Medical Center) - Soft tissue chondrosarcoma
Missouri, Joplin - Myxoid liposarcoma
Nebraska (Good Samaritan Hospital) - Low grade fibromyxoid sarcoma
New York (Nassau University Medical Center Group) - Chondroma of soft parts
Ohio, Columbus - Myxoid tumor with inflammation
Ohio (MCO Pathology) -
Pennsylvania (Allegheny General Hospital) - Myxoma
Pennsylvania (Memorial Medical Center) - Myxoid liposarcoma
Pennsylvania, Sewickley - Myxoma - cutaneous
Texas, Lubbock - Myxoid liposarcoma
Texas (Scott & White Hospital) - Cutaneous myxoma
Texas, San Antonio - JA (juvenile atrophy) myxoma
Utah (St. Mark's Hospital) - Myxoid MFH (malignant fibrous histiocytoma)
Washington, DC - Myxoma
Canada (CUSI, Site Fleurimont) - Superficial angiomyxoma
Canada (University of Calgary, Foothills Hospital) - Cutaneous myxoma
Japan (Hamamatsu University School of Medicine) - Lichen myxedematosus
Japan (Saitama Medical School) - Inflammatory myxohyaline tumor
Japan (Self Defense Hospital) - Cutaneous myxoma
Puerto Rico (University of Puerto Rico) - Myxoma

Saudi Arabia (King Khalid University Hospital) - Low grade myxofibrosarcoma (myxoid MFH)
Singapore (Tan Tok Hospital Pte. Ltd.) - Myxoma
Spain (Policlinico Vigosa) - Benign myxoid lesion
The Netherlands, Amstelveen - Cutaneous myxoma

Case 10 - Diagnosis:

Superficial angiomyxoma, thigh

T-Y9100, M-8840/0

Consultation: Andrew Folpe, M.D., Emory University, “Myxoid fibrosarcoma with prominent inflammatory component”

Case 10 - References:

- Sawyer JR, Binz RL, Gilliland JC, et al. A Novel Reciprocal (10;17)(p11.2;q23) in Myxoid Fibrosarcoma. *Cancer Genet Cytogenet.* 2001 Jan 15; 124(2):144-6.
- Calonje E, Guerin D, McCormick D. et al. Superficial Angiomyxoma: Clinicopathologic Analysis of a Series of Distinctive but Poorly Recognized Cutaneous Tumors with Tendency for Recurrence. *Am J Surg Pathol.* 1999 Aug; 23(8):910-7.
- Fetsch JF, Laskin WB, Tavassoli FA. Superficial Angiomyxoma (Cutaneous Myxoma): A Clinicopathologic Study of 17 Cases Arising in the Genital Region. *Int J Gynecol Pathol.* 1997 Oct; 16(4):325-334.
- Ockner DM, Sayadi H, Swanson PE, et al. Genital Angiomyofibroblastoma. Comparison with Aggressive Angiomyxoma and Other Myxoid Neoplasms of Skin and Soft Tissue. *Am J Clin Pathol.* 1997 Jan; 107(1):36-44.