



CALIFORNIA
TUMOR TISSUE REGISTRY

GENERAL PATHOLOGY

Minutes – Subscription B

October 2009



SUGGESTED READING (General Topics from Recent Literature):

- HPV Infection and Immunochemical Detection of Cell-cycle Markers in Verrucous Carcinoma of the Penis.
Stankiewicz E, Kudahetti SC, et al. *Mod Pathol* 2009; 22:1160-1168.
- Extensive Biopsies and Transurethral Prostate Resection in Men with Previous Negative Biopsies and High or Increasing Prostate Specific Antigen. Ploussard G, Dubosq F, et al. *J Urol* 2009; 182:1342-1349.
- Predictors of Malignancy in Thyroid Fine-Needle Aspirates “Cyst Fluid Only” Cases. Can Potential Clues of Malignancy Be Identified? Jaragh M, Carydis VB, et al. *Cancer Cytopathol* 2009; 117:305-310.
- Clinical Considerations on Sentinel Node Biopsy in Melanoma From an Italian Multicentric Study on 1,313 Patients (SOLILSM-IMI). Testori A, De Salvo GL, et al. *Ann Surg Oncol* 2009; 16:2018-2027.
- Residual Pathological Stage at Radical Cystectomy Significantly Impacts Outcomes for Initial T2N0 Bladder Cancer. Isban H, Karakiewicz PI, et al. *J Urol* 2009; 182:459-465.

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FILE DIAGNOSES

CTTR Subscription B

October 2009

Case 1:

Lymphadenoma, submandibular gland
T-55000, M-81400

Case 2:

Papillary cystadenoma lymphomatosum (Warthin tumor), salivary gland
T-55000, M-85610

Case 3:

Desmoplastic small round cell tumor, salivary gland
T-55000, M-88211

Case 4:

Non-mucinous bronchioalveolar carcinoma, lung
T-28000, M-82503

Case 5:

Mucinous adenocarcinoma, lung
T-28000, M-84803

Case 6:

Mesenchymal chondrosarcoma, skull
T-X2000, M-92403

Case 7:

Thymolipoma
T-98000, M-88500

Case 8:

Mucinous tumor, borderline, ovary
T-87000, D-3874

Case 9:

Mature cystic teratoma, mediastinum
T-Y2300, M-90800

Case 10:

Endometrioid adenocarcinoma, uterus
T-84000, M-83803

Chico - Chronic sialadenitis vs. benign lymphoepithelial lesion
Costa Mesa (College Hospital) - Mikulicz's disease (lymphoepithelioma)
Duarte (City of Hope) - Maltoma
Glendale - Benign lymphoepithelial lesion
Loma Linda - Adenolymphoma (Warthin's tumor) submandibular salivary gland
Orinda (Kaiser Permanente) - Lymphadenoma
San Diego (Naval Medical Center) - Lymphoepithelial sialadenitis, rule out lymphoma
Woodland Hills - Lymphadenoma
Florida (Naples Pathology Associates) - Benign lymphoepithelial lesion
Georgia, Dunwoody - Lymphadenoma
Illinois (Heartland Regional Medical Center) - Lymphadenoma
Illinois (Loyola University Medical Center) - Lymphadenoma
Indiana (Indianapolis) - Sclerosing sialadenitis
Kansas (Peterson Laboratory Services) - Lymphadenoma
Louisiana (LSU-HSC Pathology) - Chronic sclerosing sialadenitis of submandibular gland
Maryland (University of Maryland Medical Center) - Lymphoepithelial sialadenitis
Michigan (Henry Ford Hospital Pathology Residents) - Benign lymphoepithelial lesion/lymphoepithelial sialadenitis
Michigan (Pinkus Dermatopathology Laboratory) - Benign lymphoepithelial lesion
New York (Albany Medical Center) - Extranodal marginal zone B-cell lymphoma
New York (St. Luke's Roosevelt Hospital) - Lymphoepithelial sialadenitis
New York (SUNY Downstate Medical Center) - Mikulicz's disease with mucoepidermoid carcinoma
New York (Westchester Medical Center) - Lymphoid epithelial lesion
Ohio (Ohio State Hospital) - Lymphoepithelial sialadenitis (1); Sjogren's syndrome (1)
Ohio (University of Toledo Medical Center) - Benign lymphoepithelial lesion
Pennsylvania (Drexel University College of Medicine Residents) - Adenocarcinoma, NOS
Pennsylvania (Magee Women's Hospital) - Lymphoepithelial lesion
Philadelphia (Fox Chase Cancer Center) - Mikulicz's disease
Puerto Rico (University of Puerto Rico School of Medicine) - Maltoma/sclerosing sialadenitis/lymphadenoma
Tennessee, Knoxville - Chronic sclerosing sialadenitis
Texas, Crystal Beach - Benign lymphoepithelial lesion (Sjogren)
Texas, Lubbock - Sialadenitis
Texas (Scott & White Hospital) - Mucoepidermoid carcinoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Chronic sialadenitis with sialometaplasia
Washington (University of Washington Medical Center) - Lymphadenoma
Wisconsin (St. Mary's Hospital) - Lymphoepithelial lesion, salivary gland
Australia (QML Pathology Brisbane Laboratory) - Lymphoepithelial sialadenitis
Australia (Royal Prince Alfred Hospital) - Lymphoepithelial lesion
Canada (University of Sherbrooke) - Chronic sialadenitis with lymphoid hyperplasia
Canada (Pasqua Hospital) - Benign lymphoepithelial lesion
Japan (Asahi General Hospital) - Extranodal marginal zone lymphoma of mucosa associated lymphoid tissue
Japan (Shizuoka Tokushu-Kai Hospital) - Lymphoepithelial sialadenitis
Japan (Freelance Practice) - Benign lymphoepithelial lesion
Spain (Provisa Medical Center) - Lymphadenoma

Case 1 - Diagnosis:

Lymphadenoma, submandibular gland
T-55000, M-81400

Consultation: - Lester Thompson, M.D. (ENT Path expert), "Lymphadenoma (focally consistent with sebaceous differentiation), submandibular gland.

Case 1 - References:

- Gnepp DR and Brannon R. Sebaceous Neoplasms of Salivary Gland Origin. Report of 21 Cases. *Cancer* 1984; 53:2155-2170.
- Cheuk W and Chan JK. Advances in Salivary Gland Pathology. *Histopathol* 2007; 51(1):1-20.
- Dardick I and Thomas MJ. Lymphadenoma of Parotid Gland. Two Additional Cases and a Literature Review. *Oral Surg Oral Med Oral Pathol Oral Radiol Endod* 2008; 105(4):491-494.
- Musthyala NB, Low SE and Seneviratne RH. Lymphadenoma of the Salivary Gland. A Rare Tumour. *J Clin Pathol* 2004; 57(9):1007.
- Maffini F, Fasani R, et al. Sebaceous Lymphadenoma of Salivary Gland. A Case Report and a Review of the Literature. *Acta Otorhinolaryngol Ital* 2007; 27(3):147-150.
- Banich J, Reyes CV and Bier-Laning C. Sebaceous Lymphadenoma Identified by Fine Needle Aspiration Biopsy. A Case Report. *Acta Cytol* 2007; 51(2):211-313.

Case No. 2, Accession No. 31043

October 2009

Chico - Warthin's tumor
Costa Mesa (College Hospital) - Warthin tumor with lymph node rest
Duarte (City of Hope) - Warthin tumor
Glendale - Warthin's tumor
Loma Linda - Lympho-epithelial lesion, parotid gland (Sjogrens syndrome)
Orinda (Kaiser Permanente) - Warthin tumor
San Diego (Naval Medical Center) - Warthin tumor
Woodland Hills - Papillary cystadenoma lymphomatosum (Warthin tumor)
Florida (Naples Pathology Associates) - Warthin's tumor
Georgia, Dunwoody - Warthin tumor
Illinois (Heartland Regional Medical Center) - Papillary cystadenoma lymphomatosum (Warthin's tumor)
Illinois (Loyola University Medical Center) - Warthin's tumor
Indiana (Indianapolis) - Warthin's tumor
Kansas (Peterson Laboratory Services) - Warthin's tumor
Louisiana (LSU-HSC Pathology) - Warthin tumor
Maryland (University of Maryland Medical Center) - Warthin's tumor
Michigan (Henry Ford Hospital Pathology Residents) - Warthin's tumor
Michigan (Pinkus Dermatopathology Laboratory) - Warthin's tumor
New York (Albany Medical Center) - Warthin's tumor
New York (St. Luke's Roosevelt Hospital) - Warthin's tumor
New York (SUNY Downstate Medical Center) - Warthin's tumor
New York (Westchester Medical Center) - Warthin's tumor
Ohio (Ohio State Hospital) - Warthin tumor (2)
Ohio (University of Toledo Medical Center) - Papillary cystadenoma lymphomatosum (Warthin's tumor)
Pennsylvania (Drexel University College of Medicine Residents) - Warthin's tumor
Pennsylvania (Magee Women's Hospital) - Warthin's tumor
Philadelphia (Fox Chase Cancer Center) - Warthin tumor
Puerto Rico (University of Puerto Rico School of Medicine) - Warthin's tumor
Tennessee, Knoxville - Warthin tumor
Texas, Crystal Beach - Warthin tumor
Texas, Lubbock - Warthin tumor
Texas (Scott & White Hospital) - Warthin's tumor
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Warthin tumor
Washington (University of Washington Medical Center) - Warthin tumor
Wisconsin (St. Mary's Hospital) - Warthin's tumor
Australia (QML Pathology Brisbane Laboratory) - Warthin's tumor
Australia (Royal Prince Alfred Hospital) - Warthin's tumor
Canada (University of Sherbrooke) - Warthin's tumor
Canada (Pasqua Hospital) - Warthin's tumor
Japan (Asashi General Hospital) - Warthin tumor

Japan (Shizuoka Tokushu-Kai Hospital) - Warthin tumor
Japan (Freelance Practice) - Warthin tumor
Spain (Provisa Medical Center) - Warthin's tumor

Case 2 - Diagnosis:

Papillary cystadenoma lymphomatosum (Warthin tumor), salivary gland
T-55000, M-85610

Case 2 - References:

Hua Xi, Kou Qiang, Yi Xue, et al. Detection of Epstein-Barr Viral Genome in Tumor Cells of Warthins Tumor of Parotid Gland. *U.S. National Library of Med; National Inst of Hlth* 1999; 17(2):131-132.
Rizzi MD and Thompson LD. Papillary Cystadenoma Lymphomatosum (Warthin Tumor). *Ear Nose Throat J* 2003; 82(12):920-922.
Patterson JW and Wright ED. Extraparotid Warthin's Tumor. *J Am Acad Dermatol* 1999; 40(3):468-470.
Gaffney EV and Pinkston JA. Estrogen Receptors in Parotid Tumors. *Endocr Res* 1995; 21(3):635-643.
Nordkvist A and Mark J. Cytogenetic Observations in 13 Cystadenolymphomas (Warthin's Tumors). *Cancer Genet Cytogenet* 1994; 76(2):129-135.

Case No. 3, Accession No. 31094

October 2009

Chico - Solid adenoid cystic carcinoma vs. small cell carcinoma vs. desmoplastic small round cell tumor
Costa Mesa (College Hospital) - Neuroendocrine carcinoma
Duarte (City of Hope) - Desmoplastic small round cell tumor
Glendale - Desmoplastic small round cell tumor
Loma Linda - Adenocarcinoma, salivary gland
Orinda (Kaiser Permanente) - Desmoplastic small round cell tumor
San Diego (Naval Medical Center) - Desmoplastic small round cell tumor
Woodland Hills - Desmoplastic small round cell tumor
Florida (Naples Pathology Associates) - Small cell carcinoma
Georgia, Dunwoody - Desmoplastic small round cell tumor
Illinois (Heartland Regional Medical Center) - Myoepithelial carcinoma
Illinois (Loyola University Medical Center) - Desmoplastic small round cell tumor
Indiana (Indianapolis) - Desmoplastic small round cell tumor
Kansas (Peterson Laboratory Services) - Desmoplastic small round cell tumor
Louisiana (LSU-HSC Pathology) - Desmoplastic small round cell tumor
Maryland (University of Maryland Medical Center) - Desmoplastic small round cell tumor
Michigan (Henry Ford Hospital Pathology Residents) - Adenoid cystic carcinoma
Michigan (Pinkus Dermatopathology Laboratory) - Desmoplastic round cell tumor
New York (Albany Medical Center) - Small cell carcinoma
New York (St. Luke's Roosevelt Hospital) - Epithelial myoepithelial carcinoma
New York (SUNY Downstate Medical Center) - Desmoplastic round-cell tumor
New York (Westchester Medical Center) - Basal cell adenocarcinoma
Ohio (Ohio State Hospital) - Desmoplastic small round cell tumor (2)
Ohio (University of Toledo Medical Center) - Desmoplastic small round blue cell tumor
Pennsylvania (Drexel University College of Medicine Residents) - Epithelial-myoepithelial carcinoma
Pennsylvania (Magee Women's Hospital) - High grade carcinoma
Philadelphia (Fox Chase Cancer Center) - Desmoplastic small round cell tumor
Puerto Rico (University of Puerto Rico School of Medicine) - Desmoplastic small round cell tumor/myoepithelial carcinoma
Tennessee, Knoxville - Desmoplastic small round blue cell tumor
Texas, Crystal Beach - Basal cell carcinoma
Texas, Lubbock - Small cell carcinoma
Texas (Scott & White Hospital) - Desmoplastic small round cell tumor
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Undifferentiated neuroendocrine (small cell) carcinoma

Washington (University of Washington Medical Center) - Desmoplastic small round cell tumor
Wisconsin (St. Mary's Hospital) - Epithelial myoepithelial carcinoma
Australia (QML Pathology Brisbane Laboratory) - Desmoplastic small round cell tumor
Australia (Royal Prince Alfred Hospital) - Desmoplastic small round cell tumor
Canada (University of Sherbrooke) - Desmoplastic round small cell tumor
Canada (Pasqua Hospital) - Small cell carcinoma
Japan (Asashi General Hospital) - Small cell carcinoma
Japan (Shizuoka Tokushu-Kai Hospital) - Adenoid cystic carcinoma
Japan (Freelance Practice) - Desmoplastic small round cell tumor
Spain (Provisa Medical Center) - Myoepithelial carcinoma

Case 3 - Diagnosis:

Desmoplastic small round cell tumor, salivary gland
 T-55000, M-88211

Consultation: Lester Thompson, M.D., "Desmoplastic small round cell tumor, salivary gland.."

Case 3 - References:

Santos Gorjon P. and Gomez Gonzalez JL. Small Round Cell Desmoplastic Tumour. Atypical Morphology in the Sub-Maxillary Gland. *Acta Otorrinolaringol Esp* 2009; 60(2):141-143.
 Cho KJ and Ro JY. Mesenchymal Neoplasms of the Major Salivary Glands. Clinicopathological Features of 18 Cases. *Eur Arch Otorhinolaryngol* 2008; 265 Suppl 1:S47-56.
 Waugh MS, Dash RC, et al. Desmoplastic Small Round Cell Tumor. Using FISH as an Ancillary Technique to Support Cytologic Diagnosis in an Unusual Case. *Diagn Cytopathol* 2007; 35(8):516-520.
 Dave B, Shet T and Chinoy R. Desmoplastic Round Cell Tumor of Childhood. Can Cytology with Immunocytochemistry Serve as an Alternative for Tissue Diagnosis? *Diagn Cytopathol* 2005; 32(6):330-335.

Case No. 4, Accession No. 30819

October 2009

Chico - Bronchioloalveolar carcinoma, non-mucinous
Costa Mesa (College Hospital) - Bronchioloalveolar cell carcinoma
Duarte (City of Hope) - Bronchioloalveolar carcinoma
Glendale - Bronchioloalveolar carcinoma, non-mucinous type
Loma Linda - Lung bronchioalveolar carcinoma
Orinda (Kaiser Permanente) - Bronchioloalveolar carcinoma
San Diego (Naval Medical Center) - Bronchioloalveolar carcinoma
Woodland Hills - Bronchioloalveolar carcinoma
Florida (Naples Pathology Associates) - Bronchioloalveolar carcinoma, non-mucinous type
Georgia, Dunwoody - Bronchioloalveolar carcinoma, non-mucinous
Illinois (Heartland Regional Medical Center) - Bronchioloalveolar adenocarcinoma, non-mucinous
Illinois (Loyola University Medical Center) - Bronchioloalveolar carcinoma
Indiana (Indianapolis) - Bronchioloalveolar carcinoma
Kansas (Peterson Laboratory Services) - Bronchioalveolar cell carcinoma, non-mucinous
Louisiana (LSU-HSC Pathology) - Non-mucinous bronchioloalveolar carcinoma
Maryland (University of Maryland Medical Center) - Bronchioalveolar carcinoma
Michigan (Henry Ford Hospital Pathology Residents) - Adenocarcinoma, well-differentiated, with bronchioloalveolar carcinoma-like growth pattern
Michigan (Pinkus Dermatopathology Laboratory) - Bronchioalveolar carcinoma, type B
New York (Albany Medical Center) - Non-mucinous bronchioloalveolar carcinoma
New York (St. Luke's Roosevelt Hospital) - Invasive adenocarcinoma, mixed BAC acinar pattern
New York (SUNY Downstate Medical Center) - Bronchioalveolar carcinoma
New York (Westchester Medical Center) - Bronchioloalveolar carcinoma, non-mucinous type
Ohio (Ohio State Hospital) - Bronchioloalveolar adenocarcinoma (2)
Ohio (University of Toledo Medical Center) - Bronchioalveolar carcinoma, non-mucinous type
Pennsylvania (Drexel University College of Medicine Residents) - Sclerosing hemangioma

Pennsylvania (Magee Women's Hospital) - Bronchioloalveolar carcinoma
Philadelphia (Fox Chase Cancer Center) - Bronchioloalveolar carcinoma, non-mucinous
Puerto Rico (University of Puerto Rico School of Medicine) - Sclerosing hemangioma/non-mucinous
 bronchioloalveolar carcinoma
Tennessee, Knoxville - Non-mucinous bronchioalveolar carcinoma
Texas, Crystal Beach - Epithelioid mesothelioma
Texas, Lubbock - Bronchioloalveolar carcinoma
Texas (Scott & White Hospital) - Bronchioloalveolar adenocarcinoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Non-mucinous bronchioloalveolar
 carcinoma
Washington (University of Washington Medical Center) - Bronchioalveolar carcinoma
Wisconsin (St. Mary's Hospital) - Bronchioloalveolar carcinoma, non-mucinous type
Australia (QML Pathology Brisbane Laboratory) - Bronchioloalveolar carcinoma
Australia (Royal Prince Alfred Hospital) - Bronchioalveolar carcinoma
Canada (University of Sherbrooke) - Bronchioloalveolar carcinoma
Canada (Pasqua Hospital) - Non-mucinous bronchioalveolar carcinoma
Japan (Asashi General Hospital) - Bronchioalveolar cell carcinoma, non-mucinous type
Japan (Shizuoka Tokushu-Kai Hospital) - Bronchioloalveolar carcinoma
Japan (Freelance Practice) - Bronchioloalveolar carcinoma, non-mucinous cannot exclude adenocarcinoma
Spain (Provisa Medical Center) - Bronchioloalveolar carcinoma, non-mucinous

Case 4 - Diagnosis:

Non-mucinous bronchioalveolar carcinoma, lung
 T-28000, M-82503

Case 4 - References:

Wislez M, Antoine M, Baudrin L, et al. Non-Mucinous and Mucinous Subtypes of Adenocarcinoma with Bronchioloalveolar
 Carcinoma Features Differ By Biomarker Expression and in the Response to Gefitinib. *Lung Cancer* 2009; Jul 4.
 Al-Salam S and Al-Ashari M. Expression of Galectin-3, CD138, p161NK4a, and TTF-1 in Mucinous Bronchioloalveolar
 Adenocarcinoma After Hodgkin Lymphoma. *Appl Immunohistochem Mol Morphol* 2009; 17(4):351-356.
 Sakuma Y and Matsukuma S. Distinctive Evaluation of Nonmucinous and Mucinous Subtypes of Bronchioloalveolar Carcinomas in
 EGFR and K-ras Gene-Mutation Analyses for Japanese Lung Adenocarcinomas. Confirmation of the Correlations with Histologic
 Subtypes and Gene Mutations. *Am J Clin Pathol* 2007; 128(1):100-108.
 Lantuejoul S and Nicholson AG. Mucinous Cells in Type 1 Pulmonary Congenital Cystic Adenomatoid Malformation as Mucinous
 Bronchioloalveolar Carcinoma Precursors. *Am J Surg Pathol* 2007; 31(6):961-969.
 Moran CA. Pulmonary Adenocarcinoma. The Expanding Spectrum of Histologic Variants. *Arch Path Lab Med* 2006; 130(7):958-
 962.

Case No. 5, Accession No. 30986

October 2009

Chico - Bronchioloalveolar carcinoma, mucinous
Costa Mesa (College Hospital) - Bronchioalveolar cell carcinoma
Duarte (City of Hope) - Mucinous BAC (rule out metastasis)
Glendale - Bronchioloalveolar carcinoma, mucinous type
Loma Linda - Lung, bronchioalveolar carcinoma
Orinda (Kaiser Permanente) - Mucinous adenocarcinoma
San Diego (Naval Medical Center) - Mucinous adenocarcinoma
Woodland Hills - Adenocarcinoma, mucinous bronchioloalveolar features
Florida (Naples Pathology Associates) - Mucinous adenocarcinoma of lung
Georgia, Dunwoody - Bronchioloalveolar carcinoma, mucinous
Illinois (Heartland Regional Medical Center) - Bronchioloalveolar adenocarcinoma, mucinous
Illinois (Loyola University Medical Center) - Adenocarcinoma, colloid type
Indiana (Indianapolis) - Mucinous adenocarcinoma with bronchioalveolar pattern
Kansas (Peterson Laboratory Services) - Adenocarcinoma with mucinous bronchioalveolar carcinoma pattern
Louisiana (LSU-HSC Pathology) - Mucinous adenocarcinoma

Maryland (University of Maryland Medical Center) - Well-differentiated mucinous adenocarcinoma, intestinal type, with bronchioalveolar carcinoma features
Michigan (Henry Ford Hospital Pathology Residents) - Adenocarcinoma with mucinous features
Michigan (Pinkus Dermatopathology Laboratory) - Bronchoalveolar carcinoma, goblet cell type, type C
New York (Albany Medical Center) - Mucinous bronchioalveolar carcinoma
New York (St. Luke's Roosevelt Hospital) - Invasive adenocarcinoma, mixed ? pattern (mucinous)
New York (SUNY Downstate Medical Center) - Adenocarcinoma, lung
New York (Westchester Medical Center) - Bronchioalveolar carcinoma, mucinous type
Ohio (Ohio State Hospital) - Mucinous adenocarcinoma (2)
Ohio (University of Toledo Medical Center) - Mucinous adenocarcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Mucinous adenocarcinoma
Pennsylvania (Magee Women's Hospital) - Mucinous bronchioalveolar carcinoma
Philadelphia (Fox Chase Cancer Center) - Mucinous adenocarcinoma
Puerto Rico (University of Puerto Rico School of Medicine) - Mucinous type bronchioalveolar carcinoma
Tennessee, Knoxville - Mucinous adenocarcinoma with BAC like features
Texas, Crystal Beach - Bronchioalveolar adenocarcinoma, mucinous
Texas, Lubbock - Adenocarcinoma
Texas (Scott & White Hospital) - Mucinous adenocarcinoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Adenocarcinoma with mucinous BAC features
Washington (University of Washington Medical Center) - Mucinous adenocarcinoma
Wisconsin (St. Mary's Hospital) - Bronchioalveolar carcinoma, mucinous type
Australia (QML Pathology Brisbane Laboratory) - Adenocarcinoma, mixed subtype
Australia (Royal Prince Alfred Hospital) - Mucinous adenocarcinoma
Canada (University of Sherbrooke) - Mucosecretory well-differentiated adenocarcinoma
Canada (Pasqua Hospital) - Mucinous bronchioalveolar carcinoma
Japan (Asahi General Hospital) - Bronchioalveolar cell carcinoma, mucinous type
Japan (Shizuoka Tokushu-Kai Hospital) - Bronchioalveolar carcinoma
Japan (Freelance Practice) - Adenocarcinoma with bronchioalveolar features, mucinous type
Spain (Provisa Medical Center) - Adenocarcinoma with prominent pattern of bronchioalveolar mucinous carcinoma

Case 5 - Diagnosis:

Mucinous adenocarcinoma, lung
 T-28000, M-84803

Case 5 - References:

Tsuta K, Ishii G, et al. Comparison of the Immunophenotypes of Signet-Ring Cell Carcinoma, Solid Adenocarcinoma with Mucin Production, and Mucinous Bronchioalveolar Carcinoma of the Lung Characterized by the Presence of Cytoplasmic Mucin. *J Pathol* 2006; 209(1):78-87.
 Melamed MR. Mucinous (So-Called Colloid) Carcinoma of the Lung. *Am J Surg Pathol* 2004; 28(10): 1397.
 Rossi G, Murer B, et al. Primary Mucinous (So-Called Colloid) Carcinomas of the Lung. A Clinicopathologic and Immunohistochemical Study with Special Reference to CDX-2 Homebox Gene and MUC2 Expression. *Am J Surg Pathol* 2004; 28(4):442-452.
 Girard N and Deshpande C. Comprehensive Histologic Assessment Helps to Differentiate Multiple Lung primary Nonsmall Cell Carcinomas From Metastases. *Am J Surg Pathol* 2009; Sep 21.
 Wislez M and Antoine M. Non-Mucinous and Mucinous Subtypes of Adenocarcinoma with Bronchioalveolar Carcinoma Features Differ By Biomarker Expression and In The Response of Gefitinib. *Lung Cancer* 2009; Jul 4.

Case No. 6, Accession No. 30966

October 2009

Chico - Mesenchymal chondrosarcoma
Costa Mesa (College Hospital) - Ewing sarcoma
Duarte (City of Hope) - Mesenchymal chondrosarcoma
Glendale - Mesenchymal chondrosarcoma
Loma Linda - Angiosarcoma, metastasis to bone
Orinda (Kaiser Permanente) - Mesenchymal chondrosarcoma

San Diego (Naval Medical Center) - Mesenchymal chondrosarcoma
Woodland Hills - Mesenchymal chondrosarcoma
Florida (Naples Pathology Associates) - Primitive neuroectodermal tumor
Georgia, Dunwoody - Mesenchymal chondrosarcoma
Illinois (Heartland Regional Medical Center) - Mesenchymal chondrosarcoma
Illinois (Loyola University Medical Center) - Mesenchymal chondrosarcoma
Indiana (Indianapolis) - Chondroblastoma
Kansas (Peterson Laboratory Services) - Hemangiopericytoma
Louisiana (LSU-HSC Pathology) - Mesenchymal chondrosarcoma
Maryland (University of Maryland Medical Center) - Mesenchymal chondrosarcoma
Michigan (Henry Ford Hospital Pathology Residents) - Mesenchymal chondrosarcoma
Michigan (Pinkus Dermatopathology Laboratory) - Esthesioneuroblastoma
New York (Albany Medical Center) - Ewing's sarcoma
New York (St. Luke's Roosevelt Hospital) - Mesenchymal chondrosarcoma
New York (SUNY Downstate Medical Center) - Mesenchymal chondrosarcoma
New York (Westchester Medical Center) - Mesenchymal chondrosarcoma
Ohio (Ohio State Hospital) - Meningioma (2)
Ohio (University of Toledo Medical Center) - Mesenchymal chondrosarcoma
Pennsylvania (Drexel University College of Medicine Residents) - Extraskelatal mesenchymal chondrosarcoma
Pennsylvania (Magee Women's Hospital) - Mesenchymal chondrosarcoma
Philadelphia (Fox Chase Cancer Center) - Mesenchymal chondrosarcoma
Puerto Rico (University of Puerto Rico School of Medicine) - Chondroblastic malignant tumor/chondroblastoma
Tennessee, Knoxville - Mesenchymal chondrosarcoma
Texas, Crystal Beach - Hemangiopericytoma
Texas, Lubbock - Chondrosarcoma
Texas (Scott & White Hospital) - Chondroblastic osteosarcoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Mesenchymal chondrosarcoma
Washington (University of Washington Medical Center) - Mesenchymal chondrosarcoma
Wisconsin (St. Mary's Hospital) - Mesenchymal chondrosarcoma
Australia (QML Pathology Brisbane Laboratory) - Mesenchymal chondrosarcoma
Australia (Royal Prince Alfred Hospital) - Nasal haemangiopericytoma
Canada (University of Sherbrooke) - Mesenchymal chondrosarcoma
Canada (Pasqua Hospital) - Osteosarcoma
Japan (Asashi General Hospital) - Mesenchymal chondrosarcoma
Japan (Shizuoka Tokushu-Kai Hospital) - Mesenchymal chondrosarcoma
Japan (Freelance Practice) - Mesenchymal chondrosarcoma
Spain (Provisa Medical Center) - Mesenchymal chondrosarcoma

Case 6 - Diagnosis:

Mesenchymal chondrosarcoma, skull
 T-X2000, M-92403

Case 6 - References:

Hong P and Taylor SM. Chondrosarcoma of the Head and Neck. Report of 11 Cases and Literature Review. *J Otolaryngol Head Neck Surg* 2009; 38(2):279-285.
 Kathiravel Y and Finnis ND. Primary Falcine Chondrosarcoma. *J Clin Neurosci* 2008; 15(12):1406-1409.
 Takahashi Y and Nakao Y. Mesenchymal Chondrosarcoma of the Temporal Bone. *Auris Nasus Larynx* 2002; 29(4):371-374.

Case No. 7, Accession No. 31023

October 2009

Chico - Thymolipoma vs. thymic hyperplasia
Costa Mesa (College Hospital) - Thymus gland with epithelial cell hyperplasia and mild atypia
Duarte (City of Hope) - Follicular hyperplasia
Glendale - Thymolipoma
Loma Linda - Thymic tissue with germinal centers
Orinda (Kaiser Permanente) - Thymolipoma

San Diego (Naval Medical Center) - Thymolipoma
Woodland Hills - Thymoma
Florida (Naples Pathology Associates) - Thymoma, type B1
Georgia, Dunwoody - Type AB (mixed) thymoma
Illinois (Heartland Regional Medical Center) - Thymolipoma
Illinois (Loyola University Medical Center) - Thymic hyperplasia
Indiana (Indianapolis) - Thymolipoma
Kansas (Peterson Laboratory Services) - Thymolipoma
Louisiana (LSU-HSC Pathology) - Thymolipoma
Maryland (University of Maryland Medical Center) - Thymic tissue with lymphoid hyperplasia
Michigan (Henry Ford Hospital Pathology Residents) - Thymolipoma
Michigan (Pinkus Dermatopathology Laboratory) - Lymphocyte predominant thymoma
New York (Albany Medical Center) - Thymolipoma
New York (St. Luke's Roosevelt Hospital) - Thymolipoma
New York (SUNY Downstate Medical Center) - Thymic nodular hyperplasia with follicular hyperplasia
New York (Westchester Medical Center) - Thymolipoma
Ohio (Ohio State Hospital) - Thymolipoma (2)
Ohio (University of Toledo Medical Center) - Thymoma, type 2B
Pennsylvania (Drexel University College of Medicine Residents) - Follicular hyperplasia of thymus
Pennsylvania (Magee Women's Hospital) - Thymolipoma
Philadelphia (Fox Chase Cancer Center) - Thymic follicular hyperplasia
Puerto Rico (University of Puerto Rico School of Medicine) - Thymolipoma
Tennessee, Knoxville - Thymic hyperplasia
Texas, Crystal Beach - Lipothymoma
Texas, Lubbock - Thymic hyperplasia
Texas (Scott & White Hospital) - Thymic hyperplasia
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Thymic hyperplasia
Washington (University of Washington Medical Center) - Thymic hyperplasia
Wisconsin (St. Mary's Hospital) - Thymic lymphoid hyperplasia
Australia (QML Pathology Brisbane Laboratory) - Thymolipoma
Australia (Royal Prince Alfred Hospital) - Thymic hyperplasia
Canada (University of Sherbrooke) - Thymic reliquats
Canada (Pasqua Hospital) - Thymolipoma
Japan (Asashi General Hospital) - Microscopic thymoma
Japan (Shizuoka Tokushu-Kai Hospital) - Thymolipoma
Japan (Freelance Practice) - Thymic hyperplasia
Spain (Provisa Medical Center) - Thymic age involution

Case 7 - Diagnosis:

Thymolipoma
 T-98000, M-88500

Case 7 - References:

Toyama T, Mizuno T, Masaoka A, et al. Pathogenesis of Thymolipoma. Report of Three Cases. *Surg Today* 1995; 25(1):86-88.
 Rosado-de-Christenson ML, Pugatch RD, Moran CA, et al. Thymolipoma. Analysis of 27 Cases. *Radiol* 1994; 193(1):121-126.
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Case No. 8, Accession No. 30985

October 2009

Chico - Borderline mucinous tumor (low malignant potential)
Costa Mesa (College Hospital) - Mucinous cystadenocarcinoma
Duarte (City of Hope) - Mucinous cystadenoma

Glendale - Mucinous tumor of LMP
Loma Linda - Mucinous cystadenoma of ovary
Orinda (Kaiser Permanente) - Mucinous borderline tumor
San Diego (Naval Medical Center) - Mucinous cystadenoma
Woodland Hills - Borderline mucinous tumor
Florida (Naples Pathology Associates) - Mucinous ovarian adenocarcinoma
Georgia, Dunwoody - Mucinous borderline tumor, intestinal type, rule out metastases
Illinois (Heartland Regional Medical Center) - Atypical proliferative mucinous tumor
Illinois (Loyola University Medical Center) - Borderline mucinous neoplasm
Indiana (Indianapolis) - Mucinous borderline tumor
Kansas (Peterson Laboratory Services) - Mucinous cystadenoma, LMP
Louisiana (LSU-HSC Pathology) - Borderline mucinous tumor of ovary
Maryland (University of Maryland Medical Center) - Borderline mucinous tumor, intestinal type, rule out metastases
Michigan (Henry Ford Hospital Pathology Residents) - Mucinous borderline tumor
Michigan (Pinkus Dermatopathology Laboratory) - Mucinous borderline tumor
New York (Albany Medical Center) - Mucinous cystadenoma
New York (St. Luke's Roosevelt Hospital) - Borderline mucinous tumor
New York (SUNY Downstate Medical Center) - Ovarian mucinous tumor, borderline
New York (Westchester Medical Center) - Mucinous cystadenocarcinoma
Ohio (Ohio State Hospital) - Borderline mucinous neoplasm (1); Borderline tumor, intestinal type (1)
Ohio (University of Toledo Medical Center) - Borderline mucinous tumor
Pennsylvania (Drexel University College of Medicine Residents) - Borderline mucinous cystadenoma
Pennsylvania (Magee Women's Hospital) - Borderline mucinous tumor
Philadelphia (Fox Chase Cancer Center) - Borderline mucinous tumor, intestinal type
Puerto Rico (University of Puerto Rico School of Medicine) - Borderline seromucinous cystadenoma
Tennessee, Knoxville - Mucinous borderline tumor
Texas, Crystal Beach - Cystadenocarcinoma, mucinous
Texas, Lubbock - Mucinous adenocarcinoma, intestinal type
Texas (Scott & White Hospital) - Mucinous adenocarcinoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Borderline mucinous cystadenoma
Washington (University of Washington Medical Center) - Mucinous borderline tumor
Wisconsin (St. Mary's Hospital) - Mucinous tumor of low malignant potential (mucinous borderline tumor)
Australia (QML Pathology Brisbane Laboratory) - Mucinous borderline tumor, intestinal type
Australia (Royal Prince Alfred Hospital) - Borderline (proliferating) mucinous cystadenoma
Canada (University of Sherbrooke) - Mucinous ovarian tumor, borderline type
Canada (Pasqua Hospital) - Borderline mucinous tumor
Japan (Asahi General Hospital) - Borderline mucinous tumor, intestinal type, with focal intraepithelial carcinoma
Japan (Shizuoka Tokushu-Kai Hospital) - Mucinous cystadenocarcinoma
Japan (Freelance Practice) - Mucinous tumor, borderline
Spain (Provisa Medical Center) - Mucinous borderline cystadenoma

Case 8 - Diagnosis:

Mucinous tumor, borderline, ovary
 T-87000, D-3874

Case 8 - References:

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Chico - Mature cystic teratoma
Costa Mesa (College Hospital) - Bronchial cleft cyst in mediastinum
Duarte (City of Hope) - Mature cystic teratoma
Glendale - Mature teratoma
Loma Linda - Mediastinal teratoma, adult structure of tissue
Orinda (Kaiser Permanente) - Teratoma
San Diego (Naval Medical Center) - Mature teratoma
Woodland Hills - Mature teratoma
Florida (Naples Pathology Associates) - Mature teratoma
Georgia, Dunwoody - Teratoma
Illinois (Heartland Regional Medical Center) - Mature teratoma
Illinois (Loyola University Medical Center) - Mature teratoma
Indiana (Indianapolis) - Mature teratoma
Kansas (Peterson Laboratory Services) - Mature teratoma
Louisiana (LSU-HSC Pathology) - Teratoma, mature
Maryland (University of Maryland Medical Center) - Mature teratoma
Michigan (Henry Ford Hospital Pathology Residents) - Mature teratoma
Michigan (Pinkus Dermatopathology Laboratory) - Mature cystic teratoma
New York (Albany Medical Center) - Mature teratoma
New York (St. Luke's Roosevelt Hospital) - Mature teratoma
New York (SUNY Downstate Medical Center) - Thymic mature teratoma
New York (Westchester Medical Center) - Mature teratoma
Ohio (Ohio State Hospital) - Mature cystic teratoma (2)
Ohio (University of Toledo Medical Center) - Mature teratoma
Pennsylvania (Drexel University College of Medicine Residents) - Mature teratoma
Pennsylvania (Magee Women's Hospital) - Benign teratoma
Philadelphia (Fox Chase Cancer Center) - Mature teratoma
Puerto Rico (University of Puerto Rico School of Medicine) - Mature teratoma
Tennessee, Knoxville - Mature thymic teratoma
Texas, Crystal Beach - Mediastinal teratoma
Texas, Lubbock - Teratoma
Texas (Scott & White Hospital) - Mature teratoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Mature teratoma
Washington (University of Washington Medical Center) - Mature cystic teratoma
Wisconsin (St. Mary's Hospital) - Mature teratoma
Australia (QML Pathology Brisbane Laboratory) - Mature cystic teratoma
Australia (Royal Prince Alfred Hospital) - Mature cystic teratoma with no evidence of malignancy or immature elements
Canada (University of Sherbrooke) - Dermoid cyst
Canada (Pasqua Hospital) - Teratoma
Japan (Asashi General Hospital) - Teratoma, mature
Japan (Shizuoka Tokushu-Kai Hospital) - Mature cystic teratoma
Japan (Freelance Practice) - Mature teratoma
Spain (Provisa Medical Center) - Teratoma mature

Case 9 - Diagnosis:

Mature cystic teratoma, mediastinum
 T-Y2300, M-90800

Case 9 - References:

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Case No. 10, Accession No. 30994

October 2009

Chico - Endometrioid adenocarcinoma, well differentiated
Costa Mesa (College Hospital) - Adenocarcinoma in-situ
Duarte (City of Hope) - Endometrioid adenocarcinoma with focal mucinous change
Glendale - Endometrial carcinoma
Loma Linda - Endometrial carcinoma of uterus
Orinda (Kaiser Permanente) - Endometrial adenocarcinoma
San Diego (Naval Medical Center) - Endometrioid endometrial adenocarcinoma, FIGO I
Woodland Hills - Endometrial adenocarcinoma (well-differentiated)
Florida (Naples Pathology Associates) - Endometrioid adenocarcinoma
Georgia, Dunwoody - Endometrial carcinoma, endometrioid type
Illinois (Heartland Regional Medical Center) - Endometrial adenocarcinoma, grade I
Illinois (Loyola University Medical Center) - Endometrial adenocarcinoma, endometrioid type, FIGO I
Indiana (Indianapolis) - Endometrioid carcinoma, grade 1/3
Kansas (Peterson Laboratory Services) - Endometrial adenocarcinoma, FIGO I, with extensive involvement of adenomyosis
Louisiana (LSU-HSC Pathology) - Endometrial adenocarcinoma, grade I
Maryland (University of Maryland Medical Center) - Endometrial adenocarcinoma, endometrioid, grade I (well-differentiated)
Michigan (Henry Ford Hospital Pathology Residents) - Endometrioid adenocarcinoma, well-differentiated
Michigan (Pinkus Dermatopathology Laboratory) - Invasive endometrioid adenocarcinoma
New York (Albany Medical Center) - Endometrioid carcinoma and adenomyosis
New York (St. Luke's Roosevelt Hospital) - Endometrioid adenocarcinoma
New York (SUNY Downstate Medical Center) - Endometrial carcinoma, endometrioid type, adenomyosis
New York (Westchester Medical Center) - Endometrioid endometrial adenocarcinoma, FIGO, grade 1
Ohio (Ohio State Hospital) - Endometrioid adenocarcinoma, FIGO grade 1 (1); Endometrioid adenocarcinoma FIGO, grade 1, involving adenomyosis (1)
Ohio (University of Toledo Medical Center) - Endometrioid adenocarcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Endometrioid adenocarcinoma, FIGO I
Pennsylvania (Magee Women's Hospital) - Endometrioid adenocarcinoma
Philadelphia (Fox Chase Cancer Center) - Superficially invasive endometrioid adenocarcinoma
Puerto Rico (University of Puerto Rico School of Medicine) - Adenocarcinoma of endometrium, endometrioid type, FIGO, grade 1
Tennessee, Knoxville - Endometrioid adenocarcinoma and adenomyosis
Texas, Crystal Beach - Adenocarcinoma, endometrioid
Texas, Lubbock - Endometrioid adenocarcinoma
Texas (Scott & White Hospital) - Endometrioid adenocarcinoma
Texas (University of Texas Health Sciences Center, San Antonio Residents) - Endometrioid adenocarcinoma, FIGO 1/3
Washington (University of Washington Medical Center) - Endometrial carcinoma, endometrioid type, FIGO, grade 1
Wisconsin (St. Mary's Hospital) - Endometrioid adenocarcinoma
Australia (QML Pathology Brisbane Laboratory) - Endometrioid adenocarcinoma, adenomyosis
Australia (Royal Prince Alfred Hospital) - Endometrioid adenocarcinoma with adenomyosis
Canada (University of Sherbrooke) - Endometrioid adenocarcinoma
Canada (Pasqua Hospital) - Endometrioid carcinoma
Japan (Asahi General Hospital) - Endometrioid adenocarcinoma
Japan (Shizuoka Tokushu-Kai Hospital) - Endometrioid adenocarcinoma
Japan (Freelance Practice) - Endometrioid adenocarcinoma, grade 1
Spain (Provisa Medical Center) - Endometrioid adenocarcinoma, grade 2

Case 10 - Diagnosis:

Endometrioid adenocarcinoma, uterus

T-84000, M-83803

Case 10 - References:

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Farias-Eisner G and Su F. Validation of Serum Biomarkers for Detection of Early-and Late Stage Endometrial Cancer. *Am J Obstet Gynecol* 2009; Sep 19.

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