



CALIFORNIA
TUMOR TISSUE REGISTRY

BREAST PATHOLOGY

Minutes – Subscription A

January, 2010



SUGGESTED READING (General Topics from Recent Literature):

Girard N, Deshpande C, et al. Comprehensive Histologic Assessment Help to Differentiate Multiple Lung Primary Nonsmall Cell Carcinomas from Metastases. *Am J Surg Pathol* 2009; 33:1752-1764.

Ben-Selma W, Ben-Kahla I, et al. Rapid Detection of Mycobacterium Tuberculosis in Sputum by Patho-TB Kit in Comparison with Direct Microscopy and Culture. *Diagn Microbiol Infect Dis* 2009; 65:232-235.

Miyamoto H, Hernandez DJ, Epstein JI. A Pathological Reassessment of Organ-Confined, Gleason Score 6 Prostatic Adenocarcinomas That Progress After Radical Prostatectomy. *Hum Pathol* 2009; 40:1693-1698.

Langer R, Ott K, et al. Prognostic Significance of Histopathological Tumor Regression After Neoadjuvant Chemotherapy in Esophageal Adenocarcinomas. *Mod Pathol* 2009; 22:1555-1563.

Meyer JS, Cosatto E and Graf HP. Mitotic Index of Invasive Breast Carcinoma. Achieving Clinically Meaningful Precision and Evaluating Tertial Cutoffs. *Arch Pathol Lab Med* 2009; 133:1826-1833.

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FILE DIAGNOSES

CTTR Subscription A

January 2010

Case 1:

Neurofibroma, breast
T-04000, M-95400

Case 2:

Giant fibroadenoma, breast
T-04000, M-90200

Case 3:

Low grade (“benign”) Phyllodes tumor, breast
T-04000, M-90213

Case 4:

Mucinous carcinoma, breast
T-04000, M-80103

Case 5:

Invasive ductal carcinoma, cribriform type, breast
T-04000, M-82013

Case 6:

Metaplastic carcinoma with heterologous elements, breast
T-04000, M-85003

Case 7:

Metaplastic carcinoma, sarcomatoid/spindle cell type, breast
T-04000, M-80323

Case 8:

Metaplastic carcinoma with giant cells (most slides), breast
T-04000, M-80103

Case 9:

Angiosarcoma
T-04000, M-91203

Case 10:

Dermatofibrosarcoma protuberans (DFSP), skin of breast
T-04000, M-88321

Alameda (Alameda County Medical Center) - Spindle cell tumor
Fontana (Kaiser Foundation Hospital) - Neurofibroma
Glendale - Diffuse neurofibroma
Hayward-Fremont (St. Rose Hospital) - Neurofibroma, diffuse
Long Beach (Long Beach Veterans Hospital) - Benign stromal tumor; DDx: Myofibroblastoma vs. neural origin
Oakland (Kaiser Oakland Medical Center) - Neurofibroma, diffuse
Oxnard (St. John's Regional Medical Center) - Angiomyolipoma
San Diego (San Diego Naval Medical Center) - Diffuse neurofibroma
Santa Barbara (Miramonte Laboratory) - Neurofibroma
Woodland Hills (Kaiser Permanente) - Neurofibroma
Alabama (Cunningham Pathology, LLC) - Fibrolipoma
Colorado (McKee Medical Center) - Neurofibroma
Colorado (University of Colorado) - Neurofibroma
Florida (Naples Pathology Associates) - Diffuse neurofibroma
Georgia, Danwoody - Neurofibroma
Illinois, Burr Ridge - Fibrolipoma
Illinois, Chicago - Fat necrosis (2)
Illinois (Heartland Regional Medical Center) - Diffuse neurofibroma
Illinois, Oakbrook - Neurofibroma
Illinois (St. Mary's Hospital) - Neurofibroma
Indiana, Indianapolis - Fibromatosis
Louisiana (LSU-HSC) - Neurofibroma (1); Fibromatosis (1)
Minnesota (Fairview Ridges Hospital) - Diffuse neurofibroma
Missouri (Missouri Delta Medical Center) - Fibromatosis
Nebraska (Creighton University Medical Center) - Spindle cell lipoma
New York (Albany Medical Center) - Diffuse neurofibroma
New York (Long Island Jewish Medical Center) - Spindle cell lipoma/myofibroblastoma
New York (St. Luke's Roosevelt Hospital) - Myopericytoma (1); fibromatosis vs. myopericytoma vs. fibrolipoma (1); Myopericytoma vs. fibrolipoma (1); Spindle cell lipoma (1)
New York (SUNY Downstate Medical Center) - Neurofibroma (1); Diffuse neurofibroma (1)
New York (Westchester Medical Center) - Neurofibroma, diffuse
North Carolina (North Carolina Baptist Hospital) - Low grade sarcoma vs. neurofibroma vs. mammary type myofibroblastoma (1)
Ohio, Columbus - Hemangiopericytoma (solitary fibrous tumor)
Ohio, Union Town - Fibromatosis
Ohio (University of Toledo) - Fibromatosis
Pennsylvania (Conemaugh Memorial Medical Center) - Myofibroblastoma, infiltrative variant
Pennsylvania (Drexel University College of Medical Residents) - Spindle cell lipoma
Pennsylvania (Lehigh Valley Hospital) - Neurofibroma
Pennsylvania (Magee Women's Hospital) - Plexiform neurofibroma
Pennsylvania (York Hospital) - Inflammatory myofibroblastic tumor
Puerto Rico (University of Puerto Rico) - Diffuse neurofibroma
Texas (Carl R Darnall Army Medical Center) - Neurofibroma
Texas, Crystal Beach - Myofibroblastoma
Texas, Houston - Neurofibroma
Texas, Lubbock - Neurofibroma
Texas (San Antonio University of Texas Health Science Center Residents) - Fibromatosis
Texas (Scott & White Hospital) - Neurofibroma
Washington (Seattle VAMC) - Neural chest neoplasm, benign (schwannoma)
Washington (University of Washington Medical Center) - Diffuse type neurofibroma
West Virginia (Greenbrier Valley Medical Center) - Myolipoma
Australia (Royal Hobart Hospital) - Diffuse neurofibroma, breast
Canada (University of Sherbrooke) - Spindle cell lipoma vs. neurofibroma
Ireland (Kerry General Hospital) - Myofibroblastoma

[Japan \(Shizuoka Tokushu-kai Hospital\)](#) - Neurofibroma
[Japan \(Asashi General Hospital\)](#) - Myofibroblastoma
[Japan \(University of Yamanashi\)](#) - Neurofibroma
[Netherlands, Amstelveen](#) - Neurofibroma
[Singapore \(Freelance/Locum Practice\)](#) - Spindle cell lipoma
[United Kingdom \(John Radcliffe Hospital\)](#) - Diffuse neurofibroma
[United Kingdom \(Princes Risborough Study Group\)](#) - Diffuse neurofibroma

Case 1 - Diagnosis:

Neurofibroma, breast
 T-04000, M-95400

Case 1 - References:

Immunohistochemical Staining for Calretinin is Useful for Differentiating Schwannomas from Neurofibromas. Fine SW, McClain SA and Li M. *Am J Clin Pathol* 2004; 122(4):552-559.
 Solitary Sclerotic Neurofibroma of the Skin. Nakashima K, Yamada N, et al. *Am J Dermatopathol* 2008; 30(3):278-280.
 Solitary Neurofibroma in the Absence of Neurofibromatosis. Alkatan HM. *Can J Ophthalmol* 2007; 42(4):628-629.
 Unbalanced t (2; 19) and t (2; 16) in a Neurofibroma. Nandula SV, Borczuk AC and Murty VV. *Cancer Genet Cytogenet* 2004; 152(2):169-171.
 An Unusual Presentation of Neurofibromatosis of the Breast. Millman SL and Mercado CL. *Breast J* 2004; 10(1):45-47.

Case No. 2, Accession No. 22175

January 2010

[Alameda \(Alameda County Medical Center\)](#) - Juvenile fibroadenoma
[Fontana \(Kaiser Foundation Hospital\)](#) - Fibroadenoma
[Glendale](#) - Fibroadenoma
[Hayward-Fremont \(St. Rose Hospital\)](#) - Adolescent giant fibroadenoma
[Long Beach \(Long Beach Veterans Hospital\)](#) - Juvenile fibroadenoma
[Oakland \(Kaiser Oakland Medical Center\)](#) - Fibroadenoma
[Oxnard \(St. John's Regional Medical Center\)](#) - Fibroadenoma vs. cystosarcoma
[San Diego \(San Diego Naval Medical Center\)](#) - Fibroadenoma
[Santa Barbara \(Miramonte Laboratory\)](#) - Fibroadenoma
[Woodland Hills \(Kaiser Permanente\)](#) - Juvenile fibroadenoma
[Alabama \(Cunningham Pathology, LLC\)](#) - Juvenile fibroadenoma
[Colorado \(McKee Medical Center\)](#) - Fibroadenoma
[Colorado \(University of Colorado\)](#) - Fibroadenoma
[Florida \(Naples Pathology Associates\)](#) - Fibroadenoma
[Georgia, Danwoody](#) - Fibroadenoma
[Illinois, Burr Ridge](#) - Fibroadenoma
[Illinois, Chicago](#) - Fibroadenoma (2)
[Illinois \(Heartland Regional Medical Center\)](#) - Fibroadenoma
[Illinois, Oakbrook](#) - Cellular fibroadenoma
[Illinois \(St. Mary's Hospital\)](#) - Fibroadenoma
[Indiana, Indianapolis](#) - Juvenile fibroadenoma
[Louisiana \(LSU-HSC\)](#) - Fibroadenoma (1); Granulosa cell tumor, juvenile (1)
[Minnesota \(Fairview Ridges Hospital\)](#) - Giant fibroadenoma
[Missouri \(Missouri Delta Medical Center\)](#) - Pericanalicular fibroadenoma
[Nebraska \(Creighton University Medical Center\)](#) - Juvenile fibroadenoma
[New York \(Albany Medical Center\)](#) - Fibroadenoma
[New York \(Long Island Jewish Medical Center\)](#) - Fibroadenoma
[New York \(St. Luke's Roosevelt Hospital\)](#) - Fibroadenoma
[New York \(SUNY Downstate Medical Center\)](#) - Fibroadenoma (4)

New York (Westchester Medical Center) - Fibroadenoma (2)
North Carolina (North Carolina Baptist Hospital) - Phyllodes tumor, benign
Ohio, Columbus - Fibroadenoma
Ohio, Union Town - Fibroadenoma
Ohio (University of Toledo) - Adolescent giant fibroadenoma
Pennsylvania (Conemaugh Memorial Medical Center) - Juvenile fibroadenoma
Pennsylvania (Drexel University College of Medical Residents) - Fibroadenoma
Pennsylvania (Lehigh Valley Hospital) - Fibroadenoma
Pennsylvania (Magee Women's Hospital) - Hamartoma
Pennsylvania (York Hospital) - Juvenile fibroadenoma
Puerto Rico (University of Puerto Rico) - Fibroadenoma
Texas (Carl R Darnall Army Medical Center) - Fibroadenoma
Texas, Crystal Beach - Fibroadenoma
Texas, Houston - Fibroadenoma
Texas, Lubbock - Juvenile fibroadenoma
Texas (San Antonio University of Texas Health Science Center Residents) - Fibroadenoma
Texas (Scott & White Hospital) - Juvenile fibroadenoma
Washington (Seattle VAMC) - Fibroadenoma
Washington (University of Washington Medical Center) - Fibroadenoma
West Virginia (Greenbrier Valley Medical Center) - Fibroadenoma
Australia (Royal Hobart Hospital) - Fibroadenoma
Canada (University of Sherbrooke) - Fibroadenoma
Ireland (Kerry General Hospital) - Fibroadenoma
Japan (Shizuoka Tokushu-kai Hospital) - Fibroadenoma
Japan (Asashi General Hospital) - Fibroadenoma
Japan (University of Yamanashi) - Fibroadenoma
Netherlands, Amstelveen - Fibroadenoma
Singapore (Freelance/Locum Practice) - Fibroadenoma
United Kingdom (John Radcliffe Hospital) - Juvenile fibroadenoma
United Kingdom (Princes Risborough Study Group) - Giant fibroadenoma

Case 2 - Diagnosis:

Giant fibroadenoma, breast
 T-04000, M-90200

Case 2 - References:

Breast Asymmetry: Presentation of a Giant Fibroadenoma. Park CA, David LR and Argenta LC. *Breast J* 2006; 12(5):451-461.
 FNA of Breast Fibroadenoma: Observer Variability and Review of Cytomorphology with Cytohistological Correlation. Kollur SM and El Hag IA. *Cytopathology* 2006; 17(5):239-244.
 Cytomorphologic and Morphometric Limitations of the Assessment of Atypia in Fibroadenoma of the Breast. Nijhawan R and Rajwanshi A. *Anal Quant Cytol Histol* 2005; 27(5): 273-276.
 Fibroadenoma of the Breast in an 11-Year Old Girl. Stehr KG, Lebeau A, et al. *Eur J Pediatr Surg* 2004; 14(1):56-59.
 Can Hamartoma of the Breast Be Distinguished from Fibroadenoma Using Fine-Needle Aspiration Cytology? Herbert M, Mendlovic S, et al. *Diagn Cytopathol* 2006; 34(5):326-329.

Case No. 3, Accession No. 30897

January 2010

Alameda (Alameda County Medical Center) - Benign Phyllodes tumor
Fontana (Kaiser Foundation Hospital) - Fibroadenoma
Glendale - Benign Phyllodes tumor
Hayward-Fremont (St. Rose Hospital) - Benign Phyllodes tumor
Long Beach (Long Beach Veterans Hospital) - Benign Phyllodes tumor
Oakland (Kaiser Oakland Medical Center) - Phyllodes tumor, benign
Oxnard (St. John's Regional Medical Center) - Cystosarcoma

San Diego (San Diego Naval Medical Center) - Benign Phyllodes tumor
Santa Barbara (Miramonte Laboratory) - Phyllodes tumor
Woodland Hills (Kaiser Permanente) - Phyllodes tumor
Alabama (Cunningham Pathology, LLC) - Phyllodes tumor, low grade
Colorado (McKee Medical Center) - Low grade Phyllodes tumor
Colorado (University of Colorado) - Benign Phyllodes tumor
Florida (Naples Pathology Associates) - Phyllodes tumor
Georgia, Danwoody - Low grade Phyllodes tumor
Illinois, Burr Ridge - Phyllodes tumor
Illinois, Chicago - Phyllodes tumor (2)
Illinois (Heartland Regional Medical Center) - Fibroadenoma Phyllodes
Illinois, Oakbrook - Phyllodes tumor
Illinois (St. Mary's Hospital) - Fibroadenoma
Indiana, Indianapolis - Phyllodes tumor, benign
Louisiana (LSU-HSC) - Phyllodes tumor (1); Granulosa cell tumor, adult (1)
Minnesota (Fairview Ridges Hospital) - Benign Phyllodes tumor
Missouri (Missouri Delta Medical Center) - Intracanalicular fibroadenoma
Nebraska (Creighton University Medical Center) - Benign Phyllodes tumor
New York (Albany Medical Center) - Phyllodes tumor, benign
New York (Long Island Jewish Medical Center) - Benign Phyllodes tumor
New York (St. Luke's Roosevelt Hospital) - Phyllodes, benign (4)
New York (SUNY Downstate Medical Center) - Phyllodes tumor, low grade (2)
New York (Westchester Medical Center) - Benign Phyllodes tumor
North Carolina (North Carolina Baptist Hospital) - Phyllodes tumor, benign
Ohio, Columbus - Phyllodes tumor, benign
Ohio, Union Town - Phyllodes tumor
Ohio (University of Toledo) - Benign Phyllodes tumor
Pennsylvania (Conemaugh Memorial Medical Center) - Phyllodes tumor of breast, benign
Pennsylvania (Drexel University College of Medical Residents) - Phyllodes tumor
Pennsylvania (Lehigh Valley Hospital) - Phyllodes tumor
Pennsylvania (Magee Women's Hospital) - Benign Phyllodes tumor
Pennsylvania (York Hospital) - Benign Phyllodes tumor
Puerto Rico (University of Puerto Rico) - Benign Phyllodes
Texas (Carl R Darnall Army Medical Center) - Phyllodes tumor
Texas, Crystal Beach - Phyllodes tumor/giant fibroadenoma
Texas, Houston - Benign Phyllodes tumor
Texas, Lubbock - Benign Phyllodes tumor
Texas (San Antonio University of Texas Health Science Center Residents) - Benign Phyllodes tumor
Texas (Scott & White Hospital) - Low grade Phyllodes tumor
Washington (Seattle VAMC) - Phyllodes tumor
Washington (University of Washington Medical Center) - Benign Phyllodes
West Virginia (Greenbrier Valley Medical Center) - Phyllodes tumor
Australia (Royal Hobart Hospital) - Benign Phyllodes tumor
Canada (University of Sherbrooke) - Phyllodes tumor, benign
Ireland (Kerry General Hospital) - Phyllodes tumor
Japan (Shizuoka Tokushu-kai Hospital) - Phyllodes tumor
Japan (Asahi General Hospital) - Phyllodes tumor
Japan (University of Yamanashi) - Phyllodes tumor, borderline
Netherlands, Amstelveen - Benign Phyllodes tumor
Singapore (Freelance/Locum Practice) - Fibroadenoma, juvenile type
United Kingdom (John Radcliffe Hospital) - Low grade Phyllodes tumor
United Kingdom (Princes Risborough Study Group) - Phyllodes tumor (favor benign)

Case 3 - Diagnosis:

Low grade ("benign") Phyllodes tumor, breast
 T-04000, M-90213

Case 3 - References:

Phyllodes Tumor of the Breast: Correlation Between MR Findings and Histologic Grade. Yabuuchi H, Soeda H, et al. *Radiol* 2006; 241(3):702-709.

Fine-Needle Sampling in Malignant Phyllodes Tumors: Clinicopathologic Study of 22 Cases Seen at the Institut Curie. Vladescu T, Klijanienko J, et al. *Diagn Cytopathol* 2004; 31(2):71-76.

Prognostic Factors of Phyllodes Tumor of the Breast. Roa JC, Tapia O, et al. *Pathol Int* 2006; 56(6):309-314.

Phyllodes Tumors of the Breast: The Role of Pathologic Parameters. Tan PH, Jayabaskar T, et al. *Am J Clin Pathol* 2005; 123(4):529-540.

Ductal Carcinoma In-Situ Arising in a Benign Phyllodes Tumor. Report of a Case. Yamaguchi R, Tanaka M, et al. *Surg Today* 2008; 38(1):42-45.

Case No. 4, Accession No. 31038

January 2010

Alameda (Alameda County Medical Center) - Invasive mucinous carcinoma

Fontana (Kaiser Foundation Hospital) - Invasive ductal carcinoma

Glendale - Mucinous carcinoma

Hayward-Fremont (St. Rose Hospital) - Mucinous carcinoma, solid type

Long Beach (Long Beach Veterans Hospital) - Mucinous adenocarcinoma

Oakland (Kaiser Oakland Medical Center) - Mucinous adenocarcinoma, cellular variant

Oxnard (St. John's Regional Medical Center) - Well-differentiated mucinous adenocarcinoma vs. apocrine carcinoma

San Diego (San Diego Naval Medical Center) - Infiltrative ductal carcinoma with mucinous features

Santa Barbara (Miramonte Laboratory) - Mucinous adenocarcinoma

Woodland Hills (Kaiser Permanente) - Mucinous carcinoma

Alabama (Cunningham Pathology, LLC) - Lobular carcinoma in-situ with myxoid cells

Colorado (McKee Medical Center) - Mucinous carcinoma

Colorado (University of Colorado) - Mucinous carcinoma vs. solid papillary carcinoma with mucin

Florida (Naples Pathology Associates) - Mucinous "colloid" adenocarcinoma

Georgia, Danwoody - Invasive ductal carcinoma

Illinois, Burr Ridge - Mucinous carcinoma

Illinois, Chicago - Invasive mucinous carcinoma (2)

Illinois (Heartland Regional Medical Center) - Mucinous carcinoma

Illinois, Oakbrook - Colloid carcinoma

Illinois (St. Mary's Hospital) - Mucinous carcinoma

Indiana, Indianapolis - Mucinous carcinoma

Louisiana (LSU-HSC) - Mucinous carcinoma, type B

Minnesota (Fairview Ridges Hospital) - Carcinoma with endocrine-mucinous differentiation

Missouri (Missouri Delta Medical Center) - Mucinous adenocarcinoma (colloid carcinoma)

Nebraska (Creighton University Medical Center) - Mucinous carcinoma

New York (Albany Medical Center) - Mucinous carcinoma

New York (Long Island Jewish Medical Center) - Mucinous carcinoma

New York (St. Luke's Roosevelt Hospital) - Mucinous carcinoma (4)

New York (SUNY Downstate Medical Center) - Mucinous carcinoma (2)

New York (Westchester Medical Center) - Lobular carcinoma, rhabdoid

North Carolina (North Carolina Baptist Hospital) - Mucinous carcinoma

Ohio, Union Town - Mucinous carcinoma

Ohio (University of Toledo) - Mucinous carcinoma

Pennsylvania (Conemaugh Memorial Medical Center) - Apocrine carcinoma

Pennsylvania (Lehigh Valley Hospital) - Colloid carcinoma

Pennsylvania (Magee Women's Hospital) - Invasive carcinoma, mucinous type

Pennsylvania (York Hospital) - Neuroendocrine carcinoma

Puerto Rico (University of Puerto Rico) - Invasive ductal carcinoma, oncocytic type

Texas (Carl R Darnall Army Medical Center) - Colloid carcinoma

Texas, Crystal Beach - Ductal carcinoma, mucinous

Texas, Houston - DCIS

Texas, Lubbock - High grade ductal carcinoma in-situ
Texas (San Antonio University of Texas Health Science Center Residents) - Mucoepidermoid carcinoma
Texas (Scott & White Hospital) - Invasive ductal carcinoma
Washington (Seattle VAMC) - Mucinous carcinoma
Washington (University of Washington Medical Center) - Invasive ductal carcinoma with mucin
Australia (Royal Hobart Hospital) - Mucinous carcinoma
Canada (University of Sherbrooke) - Ductal carcinoma, invasive and mucinous
Ireland (Kerry General Hospital) - Invasive apocrine carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Apocrine carcinoma
Japan (Asashi General Hospital) - Mucinous carcinoma
Japan (University of Yamanashi) - Mucinous carcinoma
Netherlands, Amstelveen - Mucinous adenocarcinoma
Singapore (Freelance/Locum Practice) - Mucinous carcinoma
United Kingdom (John Radcliffe Hospital) - Mucinous carcinoma
United Kingdom (Princes Risborough Study Group) - Mixed ductal NST and mucinous carcinoma

Case 4 - Diagnosis:

Mucinous carcinoma, breast
 T-04000, M-80103

Case 4 - References:

Pure Mucinous Carcinoma of the Breast with Extensive Psammomatous Calcification. Rao P and Lyons B. *Histopathol* 2008; 52(5):650-652.
 Neovascularization in Mucinous Ductal Carcinoma In-Situ Suggests An Alternative Pathway for Invasive. Gadre SA, Perkins GH, et al. *Histopathol* 2008; 53(5):545-553.
 Distinguishing Benign Dissecting Mucin (Stromal Mucin Pools) from Invasive Mucinous Carcinoma. Molavi D and Argani P. *Anat Pathol* 2008; 15(1): 1-17.
 Mucinous Cystadenocarcinoma of the Breast Coexisting with Infiltrating Ductal Carcinoma. Chen WY, Chen CS, et al. *Pathol Int* 2004; 54(10):781-786.
 Surgical Excision is Warranted Following a Core Biopsy Diagnosis of Mucocoele-Like Lesion of the Breast. Carder PJ, Murphy CE and Liston JC. *Histopathol* 2004; 45(2):148-154.

Case No. 5, Accession No. 31001

January 2010

Alameda (Alameda County Medical Center) - Invasive ductal carcinoma with neuroendocrine features
Fontana (Kaiser Foundation Hospital) - Invasive carcinoma, basaloid
Glendale - Cribriform carcinoma
Hayward-Fremont (St. Rose Hospital) - Mucinous carcinoma, solid and cribriform type
Long Beach (Long Beach Veterans Hospital) - Infiltrating ductal carcinoma with foci of cribriform features
Oakland (Kaiser Oakland Medical Center) - Invasive cribriform carcinoma (6); Adenoid cystic carcinoma (1)
Oxnard (St. John's Regional Medical Center) - Adenoid cystic carcinoma vs. mucoepidermoid
San Diego (San Diego Naval Medical Center) - Cribriform carcinoma
Santa Barbara (Miramonte Laboratory) - Carcinoma
Woodland Hills (Kaiser Permanente) - Invasive cribriform carcinoma
Alabama (Cunningham Pathology, LLC) - Adenoid cystic carcinoma
Colorado (McKee Medical Center) - Infiltrating cribriform carcinoma
Colorado (University of Colorado) - Basaloid adenoid cystic carcinoma
Florida (Naples Pathology Associates) - Invasive ductal adenocarcinoma
Georgia, Danwoody - Invasive ductal carcinoma, neuroendocrine differentiation
Illinois, Burr Ridge - Cribriform carcinoma
Illinois, Chicago - Ductal carcinoma (2)
Illinois (Heartland Regional Medical Center) - Invasive ductal carcinoma, NOS
Illinois, Oakbrook - Invasive cribriform carcinoma
Illinois (St. Mary's Hospital) - Well-differentiated neuroendocrine carcinoma
Indiana, Indianapolis - Invasive cribriform carcinoma
Louisiana (LSU-HSC) - Adenoidcystic carcinoma cribriform pattern (1); Pheochromocytoma (1)

Minnesota (Fairview Ridges Hospital) - Infiltrating ductal carcinoma
Missouri (Missouri Delta Medical Center) - Breast cancer with basal phenotype
Nebraska (Creighton University Medical Center) - Invasive cribriform carcinoma
New York (Albany Medical Center) - Adenoid cystic carcinoma
New York (Long Island Jewish Medical Center) - Neuroendocrine carcinoma vs. basaloid carcinoma
New York (St. Luke's Roosevelt Hospital) - Invasive cribriform carcinoma (4)
New York (SUNY Downstate Medical Center) - Neuroendocrine carcinoma (1); Infiltrating ductal carcinoma (1)
New York (Westchester Medical Center) - Cribriform carcinoma
North Carolina (North Carolina Baptist Hospital) - Invasive ductal adenocarcinoma
Ohio, Columbus - Invasive ductal carcinoma, cribriform type (modified bloom-richardson, grade 2/3)
Ohio, Union Town - Invasive cribriform vs. adenoid cystic carcinoma
Ohio (University of Toledo) - Adenoid cystic carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Cribriform carcinoma, invasive
Pennsylvania (Drexel University College of Medical Residents) - Adenoid cystic carcinoma
Pennsylvania (Lehigh Valley Hospital) - Carcinoma of salivary gland type
Pennsylvania (Magee Women's Hospital) - Cribriform carcinoma
Pennsylvania (York Hospital) - Adenoid cystic carcinoma
Puerto Rico (University of Puerto Rico) - Invasive ductal carcinoma with neuroendocrine features
Texas (Carl R Darnall Army Medical Center) - Invasive cribriform carcinoma
Texas, Crystal Beach - Lobular carcinoma, infiltrating
Texas, Houston - Invasive ductal carcinoma
Texas, Lubbock - Apocrine carcinoma
Texas (San Antonio University of Texas Health Science Center Residents) - Acinic cell carcinoma
Texas (Scott & White Hospital) - Invasive cribriform carcinoma
Washington (Seattle VAMC) - Ductal carcinoma with relatively low grade growth pattern
Washington (University of Washington Medical Center) - Invasive ductal carcinoma
West Virginia (Greenbrier Valley Medical Center) - Adenoid cystic carcinoma
Australia (Royal Hobart Hospital) - Adenoid cystic carcinoma
Canada (University of Sherbrooke) - Ductal invasive carcinoma, cribriform type
Ireland (Kerry General Hospital) - Adenoid cystic carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Invasive cribriform carcinoma
Japan (Asashi General Hospital) - Cribriform carcinoma
Japan (University of Yamanashi) - Neuroendocrine carcinoma
Netherlands, Amstelveen - Infiltrating ductal carcinoma
Singapore (Freelance/Locum Practice) - Invasive ductal carcinoma, NOS
United Kingdom (John Radcliffe Hospital) - Ductal NST, with some salivary gland and neuroendocrine features
United Kingdom (Princes Risborough Study Group) - Adenoid cystic carcinoma

Case 5 - Diagnosis:

Invasive ductal carcinoma, cribriform type, breast
 T-04000, M-82013

Case 5 - References:

Invasive Cribriform Carcinoma with Extensive Microcalcifications in the Male Breast. Nishimura R, Ohsumi S, et al. *Breast Cancer* 2005; 12(2):145-148.
 Fine Needle Aspiration Cytology of Invasive Cribriform Carcinoma of the Breast with Osteoclast-Like Giant Cells. A Case Report. Ng WK. *Acta Cytol* 2001; 45(4):593-598.
 Uncommon Breast Tumors in Perspective: Incidence, Treatment and Survival in the Netherlands. Louwman MW, Vriezen, et al. *Int J Cancer* 2007; 121(1):127-135.
 Pathology and Behavior of Small Breast Carcinomas. Meyer JS, Fahrner M and Daniel FC. *Semin Diagn Pathol* 1999; 16(3):257-268.

Case No. 6, Accession No. 30872

January 2010

Alameda (Alameda County Medical Center) - Malignant Phyllodes tumor
Fontana (Kaiser Foundation Hospital) - Metaplastic carcinoma

Glendale - Metaplastic carcinoma
Hayward-Fremont (St. Rose Hospital) - Ductal carcinoma with cartilaginous metaplasia
Long Beach (Long Beach Veterans Hospital) - Metaplastic carcinoma
Oakland (Kaiser Oakland Medical Center) - High grade metaplastic carcinoma
Oxnard (St. John's Regional Medical Center) - Metaplastic carcinoma
San Diego (San Diego Naval Medical Center) - Carcinosarcoma
Santa Barbara (Miramonte Laboratory) - Metaplastic carcinoma
Woodland Hills (Kaiser Permanente) - Metaplastic carcinoma/carcinosarcoma
Alabama (Cunningham Pathology, LLC) - Malignant Phyllodes tumor with osseous/chondroid metaplasia
Colorado (McKee Medical Center) - Metaplastic carcinoma
Colorado (University of Colorado) - Metaplastic carcinoma
Florida (Naples Pathology Associates) - Metaplastic carcinoma
Georgia, Danwoody - Invasive mammary carcinoma with metaplastic features
Illinois, Burr Ridge - Metaplastic carcinoma
Illinois, Chicago - Malignant Phyllodes tumor
Illinois (Heartland Regional Medical Center) - Carcinosarcoma
Illinois, Oakbrook - Metaplastic carcinoma
Illinois (St. Mary's Hospital) - Metaplastic carcinoma
Indiana, Indianapolis - Metaplastic carcinoma
Louisiana (LSU-HSC) - Carcinosarcoma (1); Paraganglioma (1)
Minnesota (Fairview Ridges Hospital) - Metaplastic carcinoma
Missouri (Missouri Delta Medical Center) - Carcinosarcoma
Nebraska (Creighton University Medical Center) - Metaplastic carcinoma (carcinosarcoma)
New York (Albany Medical Center) - Phyllodes tumor, high grade
New York (Long Island Jewish Medical Center) - Metaplastic carcinoma, high grade with chondromatous and sarcomatous areas
New York (St. Luke's Roosevelt Hospital) - Invasive ductal carcinoma and malignant phyllodes (4)
New York (SUNY Downstate Medical Center) - Metaplastic carcinoma, possibly arising in a Phyllodes tumor (1); Metaplastic carcinoma (1)
New York (Westchester Medical Center) - Metaplastic carcinoma
North Carolina (North Carolina Baptist Hospital) - Sarcomatoid carcinoma with heteriogenous differentiation
Ohio, Columbus - Undifferentiated pleomorphic sarcoma (MFH)
Ohio, Union Town - Metaplastic carcinoma
Ohio (University of Toledo) - Metaplastic carcinoma, matrix producing type
Pennsylvania (Conemaugh Memorial Medical Center) - Angiosarcoma, high grade
Pennsylvania (Drexel University College of Medical Residents) - Metaplastic carcinoma
Pennsylvania (Lehigh Valley Hospital) - Metaplastic carcinoma
Pennsylvania (Magee Women's Hospital) - Metaplastic carcinoma, matrix producing with heterologous elements
Pennsylvania (York Hospital) - Metaplastic carcinoma
Puerto Rico (University of Puerto Rico) - Metaplastic carcinoma
Texas (Carl R Darnall Army Medical Center) - Metaplastic carcinoma
Texas, Crystal Beach - Carcinosarcoma with Phyllodes changes
Texas, Houston - Carcinosarcoma
Texas, Lubbock - Carcinoma with abundant chondroid differentiation
Texas (San Antonio University of Texas Health Science Center Residents) - Metaplastic carcinoma, high grade, with heterologous elements
Texas (Scott & White Hospital) - Malignant Phyllodes tumor
Washington (Seattle VAMC) - Metaplastic carcinoma
Washington (University of Washington Medical Center) - Metaplastic carcinoma
West Virginia (Greenbrier Valley Medical Center) - Carcinosarcoma
Australia (Royal Hobart Hospital) - Metaplastic carcinoma (carcinosarcoma)
Canada (University of Sherbrooke) - Carcinosarcoma
Ireland (Kerry General Hospital) - Metaplastic carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Metaplastic carcinoma
Japan (Asashi General Hospital) - Adenocarcinoma with chondroid differentiation
Japan (University of Yamanashi) - Phyllodes tumor, malignant
Netherlands, Amstelveen - Malignant Phyllodes tumor with chondrosarcoma

Singapore (Freelance/Locum Practice) - Metaplastic carcinoma, high grade (carcinosarcoma)
United Kingdom (John Radcliffe Hospital) - Metaplastic carcinoma, biphasic pattern
United Kingdom (Princes Risborough Study Group) - Metaplastic carcinoma

Case 6- Diagnosis:

Metaplastic carcinoma with heterologous elements, breast
T-04000, M-85003

Case 6 - References:

Metaplastic Breast Carcinoma: Pathology and Clinical Outcome. Bellino R, Arisio R, et al. *Anticancer Res* 2003; 23:669-673.
Metaplastic Carcinoma of the Breast: Analysis of Eight Asian Patients with Special Emphasis on Two Unusual Cases Presenting with Inflammatory-Type Breast Cancer. Kuo SH, Chen CL, et al. *Anticancer Res* 2000; 20(3B):2219-2222.
Cytodiagnostic Patterns of Metaplastic Breast Carcinoma in Aspiration Samples: A Study of 14 Cases. Gupta RK. *Diagn Cytopathol* 1999; 20(1):10-12.
Malignant Fibrous Histocytoma, Giant Cell Type, of the Breast Mimicking Metaplastic Carcinoma. A Case Report. Wiriosuparto S, Krassilnik N, et al. *Acta Cytol* 2003; 47(4):673-678.
A Case of Breast Carcinoma with Cartilaginous and Osseous Metaplasia. Kijima Y, Umekita Y, et al. *Breast Cancer* 2006; 13(2):214-219.
Metaplastic Carcinoma of the Breast. A Clinicopathological Review. Tse GM, Tan PH, et al. *J Clin Pathol* 2006; 59(10):1079-1083.

Case No. 7, Accession No. 30999

January 2010

Alameda (Alameda County Medical Center) - Metaplastic carcinoma
Fontana (Kaiser Foundation Hospital) - Metaplastic carcinoma
Glendale - Metaplastic carcinoma
Hayward-Fremont (St. Rose Hospital) - Metaplastic carcinoma
Long Beach (Long Beach Veterans Hospital) - Spindle cell (sarcomatoid) carcinoma
Oakland (Kaiser Oakland Medical Center) - Sarcomatoid carcinoma
Oxnard (St. John's Regional Medical Center) - Metaplastic sarcoma
San Diego (San Diego Naval Medical Center) - Poorly differentiated carcinoma
Santa Barbara (Miramonte Laboratory) - Metaplastic carcinoma
Woodland Hills (Kaiser Permanente) - Carcinosarcoma
Alabama (Cunningham Pathology, LLC) - Metaplastic carcinoma, spindle cell type
Colorado (McKee Medical Center) - Spindle cell carcinoma
Colorado (University of Colorado) - Spindle cell carcinoma
Florida (Naples Pathology Associates) - Pleomorphic carcinoma
Georgia, Danwoody - Sarcomatoid carcinoma
Illinois, Burr Ridge - Spindle cell carcinoma
Illinois, Chicago - Metaplastic carcinoma (2)
Illinois (Heartland Regional Medical Center) - Metaplastic carcinoma, spindle cell type
Illinois, Oakbrook - Metaplastic carcinoma
Illinois (St. Mary's Hospital) - Spindle cell carcinoma
Indiana, Indianapolis - Metaplastic carcinoma
Louisiana (LSU-HSC) - Spindle cell tumor (1); Castleman's disease (1)
Minnesota (Fairview Ridges Hospital) - Metaplastic carcinoma
Missouri (Missouri Delta Medical Center) - Metaplastic carcinoma
Nebraska (Creighton University Medical Center) - Metaplastic spindle cell carcinoma
New York (Albany Medical Center) - Metaplastic carcinoma
New York (Long Island Jewish Medical Center) - Metaplastic carcinoma
New York (St. Luke's Roosevelt Hospital) - Metaplastic carcinoma (4)
New York (SUNY Downstate Medical Center) - Metaplastic carcinoma (2)
New York (Westchester Medical Center) - Metaplastic carcinoma
North Carolina (North Carolina Baptist Hospital) - Favor sarcomatoid carcinoma
Ohio, Columbus - Undifferentiated liposarcoma vs. poorly differentiated carcinoma
Ohio, Union Town - Monophasic spindle cell tumor

Ohio (University of Toledo) - Metaplastic carcinoma, spindle cell, keloidal type
Pennsylvania (Conemaugh Memorial Medical Center) - Metaplastic carcinoma
Pennsylvania (Drexel University College of Medical Residents) - Metaplastic carcinoma
Pennsylvania (Lehigh Valley Hospital) - Sarcomatoid carcinoma
Pennsylvania (Magee Women's Hospital) - Metaplastic carcinoma, spindle cell
Pennsylvania (York Hospital) - High grade pleomorphic sarcoma, metaplastic carcinoma
Puerto Rico (University of Puerto Rico) - Metaplastic carcinoma, spindle cell variant
Texas (Carl R Darnall Army Medical Center) - Poorly differentiated spindle cell carcinoma
Texas, Crystal Beach - Squamous cell carcinoma
Texas, Houston - Spindle cell carcinoma
Texas, Lubbock - Metaplastic carcinoma
Texas (San Antonio University of Texas Health Science Center Residents) - Metaplastic carcinoma
Texas (Scott & White Hospital) - Metaplastic carcinoma
Washington (Seattle VAMC) - Metaplastic carcinoma
Washington (University of Washington Medical Center) - Metaplastic carcinoma
West Virginia (Greenbrier Valley Medical Center) - Spindle cell squamous cell carcinoma
Australia (Royal Hobart Hospital) - Spindle cell carcinoma
Canada (University of Sherbrooke) - Metaplastic carcinoma
Ireland (Kerry General Hospital) - Sarcomatoid carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Myoepithelial carcinoma
Japan (Asashi General Hospital) - Adenocarcinoma with spindle cell differentiation
Japan (University of Yamanashi) - Spindle cell carcinoma
Netherlands, Amstelveen - Metaplastic carcinoma
Singapore (Freelance/Locum Practice) - Sarcoma
United Kingdom (John Radcliffe Hospital) - Metaplastic carcinoma, monophasic pattern
United Kingdom (Princes Risborough Study Group) - Metaplastic carcinoma

Case 7 - Diagnosis:

Metaplastic carcinoma, sarcomatoid/spindle cell type, breast
 T-04000, M-80323

Case 7 - References:

Fine-Needle Aspiration Cytology of Metaplastic Carcinoma of the Breast. Lui PC, Tse GM, et al. *J Clin Pathol* 2007; 60(5):529-533.
 Metaplastic Carcinoma of the Breast: A Clinicopathological Review. Tse GM, Tan PH, et al. *J Clin Pathol* 2006; 59(10):1079-1083.
 P63 is Useful in the Diagnosis of Mammary Metaplastic Carcinoma. Tse GM, Tan PH, et al. *Pathol* 2006; 38(1):16-20.
 Spindle Cell (Sarcomatoid) Carcinoma of the Breast: A Clinicopathologic and Immunohistochemical Analysis of 29 Cases. Carter MR, Hornick JL, et al. *Am J Surg Pathol* 2006; 30(3):300-309.
 Metaplastic Breast Carcinomas: Are They of Myoepithelial Differentiation? Immunohistochemical Profile of the Sarcomatoid Subtype Using Novel Myoepithelial Markers. Leibl S, Gogg-Kammerer M, et al. *Am J Surg Pathol* 2005; 29(3):347-353.

Case No. 8, Accession No. 30984

January 2010

Alameda (Alameda County Medical Center) - Residual ductal carcinoma with treatment effect and Paget's disease
Fontana (Kaiser Foundation Hospital) - Sarcomatoid carcinoma
Glendale - Carcinoma
Hayward-Fremont (St. Rose Hospital) - Pleomorphic lobular carcinoma with giant cells
Long Beach (Long Beach Veterans Hospital) - Residual malignant neoplasm, status possible post treatment
Oakland (Kaiser Oakland Medical Center) - Poorly differentiated carcinoma (3); Sarcomatoid carcinoma (4)
Oxnard (St. John's Regional Medical Center) - Pleomorphic carcinoma
San Diego (San Diego Naval Medical Center) - Metaplastic carcinoma; Treatment effect
Santa Barbara (Miramonte Laboratory) - Liposarcoma
Woodland Hills (Kaiser Permanente) - Carcinosarcoma
Alabama (Cunningham Pathology, LLC) - Metaplastic carcinoma
Colorado (McKee Medical Center) - Infiltrating lobular carcinoma, pleomorphic variant
Colorado (University of Colorado) - Sarcoma, NOS

Florida (Naples Pathology Associates) - Carcinoma with radiation changes
Georgia, Danwoody - Myxofibrosarcoma
Illinois, Burr Ridge - Paget's disease
Illinois, Chicago - Lobular carcinoma (2)
Illinois (Heartland Regional Medical Center) - Poorly differentiated carcinoma, with treatment effect
Illinois, Oakbrook - Inflammatory carcinoma and Paget's disease
Illinois (St. Mary's Hospital) - Pleomorphic carcinoma
Indiana, Indianapolis - Radiation changes
Louisiana (LSU-HSC) - Invasive lobular carcinoma, pleomorphic variant (1); Hemangioma (1)
Minnesota (Fairview Ridges Hospital) - Metaplastic carcinoma
Missouri (Missouri Delta Medical Center) - Pseudosarcoma
Nebraska (Creighton University Medical Center) - Invasive ductal carcinoma
New York (Albany Medical Center) - Metaplastic carcinoma
New York (Long Island Jewish Medical Center) - Metaplastic carcinoma
New York (St. Luke's Roosevelt Hospital) - Metaplastic carcinoma (4)
New York (SUNY Downstate Medical Center) - Metaplastic carcinoma with treatment effect (1); Metaplastic carcinoma (1)
New York (Westchester Medical Center) - Metaplastic carcinoma
North Carolina (North Carolina Baptist Hospital) - Favor radiation associated changes
Ohio, Columbus - Paget's disease
Ohio, Union Town - Anaplastic carcinoma
Ohio (University of Toledo) - Anaplastic carcinoma
Pennsylvania (Conemaugh Memorial Medical Center) - Metaplastic carcinoma
Pennsylvania (Drexel University College of Medical Residents) - Pleomorphic liposarcoma
Pennsylvania (Lehigh Valley Hospital) - Sarcomatoid carcinoma
Pennsylvania (Magee Women's Hospital) - Malignant neoplasm including pleomorphic liposarcoma with probable carcinomatous component
Pennsylvania (York Hospital) - Sarcomatoid carcinoma
Puerto Rico (University of Puerto Rico) - Paget disease of breast/metaplastic carcinoma
Texas (Carl R Darnall Army Medical Center) - Undifferentiated carcinoma
Texas, Crystal Beach - Metaplastic carcinoma
Texas, Houston - Myxofibrosarcoma
Texas, Lubbock - Myoepithelial carcinoma
Texas (San Antonio University of Texas Health Science Center Residents) - Poorly differentiated carcinoma and Paget's disease
Texas (Scott & White Hospital) - Pseudosarcomatous fibroblastic proliferation secondary to therapy
Washington (Seattle VAMC) - Treatment (radiation and chemotherapy) associated mastopathy
Washington (University of Washington Medical Center) - Carcinoma
West Virginia (Greenbrier Valley Medical Center) - Paget's disease
Australia (Royal Hobart Hospital) - High grade carcinoma showing probable treatment effect
Canada (University of Sherbrooke) - Carcinosarcoma
Ireland (Kerry General Hospital) - Sarcomatoid carcinoma
Japan (Shizuoka Tokushu-kai Hospital) - Mucinous carcinoma
Japan (Asashi General Hospital) - Sarcomatoid carcinoma
Japan (University of Yamanashi) - Pleomorphic carcinoma
Netherlands, Amstelveen - Metaplasia carcinoma
Singapore (Freelance/Locum Practice) - Pleomorphic sarcoma, rhabdomyosarcoma
United Kingdom (John Radcliffe Hospital) - Metaplastic carcinoma, monophasic pattern
United Kingdom (Princes Risborough Study Group) - Pleomorphic sarcoma; DDX: Metaplastic carcinoma

Case 8 - Diagnosis:

Metaplastic carcinoma with giant cells (most slides), breast
 T-04000, M-80103

Case 8 - References:

Breast Carcinoma with Three Coexistent Type of Metaplasia: Sarcomatoid, Giant Cell and Squamous Differentiation. Belenli KO, Markoc F, et al. Ceska Gynecol 2006; 71(1):40-43.

Metaplastic Mammary Carcinoma with Osteoclastic Giant Cells: A Cytological Mimicker of Fibroadenoma. Jogai S, Al-Jassar A, et al. *Cytopathol* 2004; 15(6):334-336.

Mammary Carcinoma with Osteoclast-Like Giant Cells: A Study of Four Cases and a Review of Literature. Cai N, Koizumi J, Vazquez. *Diagn Cytopathol* 2005; 33(4):246-251.

Fine Needle Aspiration Cytology of Mammary Carcinoma with Osteoclast-Like Giant Cells. Vicandi B, Jimenez-Heffernan JA, et al. *Cytopathol* 2004; 15(6):321-325.

Invasive Mammary Carcinoma with Osteoclast-Like Giant Cells Diagnosed by Fine-Needle Aspiration Biopsy: Review of the Cytologic Literature and Distinction from Other Mammary Lesions Containing Giant Cells. Cai G, Simsir A, and Cangiarella J. *Diagn Cytopathol* 2004; 30(6):396-400.

Case No. 9, Accession No. 30631

January 2010

Alameda (Alameda County Medical Center) - Angiosarcoma
Fontana (Kaiser Foundation Hospital) - Angiosarcoma
Glendale - Angiosarcoma
Hayward-Fremont (St. Rose Hospital) - Angiosarcoma
Long Beach (Long Beach Veterans Hospital) - Angiosarcoma
Oakland (Kaiser Oakland Medical Center) - Angiosarcoma
Oxnard (St. John's Regional Medical Center) - Angiosarcoma
San Diego (San Diego Naval Medical Center) - Angiosarcoma
Santa Barbara (Miramonte Laboratory) - Angiosarcoma
Woodland Hills (Kaiser Permanente) - Angiosarcoma
Alabama (Cunningham Pathology, LLC) - Angiosarcoma
Colorado (McKee Medical Center) - Angiosarcoma
Colorado (University of Colorado) - Angiosarcoma
Florida (Naples Pathology Associates) - Angiosarcoma
Georgia, Danwoody - Angiosarcoma
Illinois, Burr Ridge - Angiosarcoma
Illinois, Chicago - Angiosarcoma (2)
Illinois (Heartland Regional Medical Center) - Angiosarcoma
Illinois, Oakbrook - Angiosarcoma, high grade
Illinois (St. Mary's Hospital) - Angiosarcoma
Indiana, Indianapolis - Angiosarcoma
Louisiana (LSU-HSC) - Angiosarcoma, grade II (1); Sclerosing hemangioma (1)
Minnesota (Fairview Ridges Hospital) - Angiosarcoma
Missouri (Missouri Delta Medical Center) - Angiosarcoma
Nebraska (Creighton University Medical Center) - Angiosarcoma
New York (Albany Medical Center) - Angiosarcoma
New York (Long Island Jewish Medical Center) - Angiosarcoma, high grade
New York (St. Luke's Roosevelt Hospital) - Angiosarcoma (4)
New York (SUNY Downstate Medical Center) - Angiosarcoma (2)
New York (Westchester Medical Center) - Angiosarcoma
North Carolina (North Carolina Baptist Hospital) - Angiosarcoma
Ohio, Columbus - Angiosarcoma
Ohio, Union Town - Angiosarcoma
Ohio (University of Toledo) - Angiosarcoma
Pennsylvania (Conemaugh Memorial Medical Center) - Angiosarcoma
Pennsylvania (Drexel University College of Medical Residents) - Angiosarcoma
Pennsylvania (Lehigh Valley Hospital) - Angiosarcoma
Pennsylvania (Magee Women's Hospital) - Angiosarcoma
Pennsylvania (York Hospital) - Angiosarcoma
Puerto Rico (University of Puerto Rico) - Angiosarcoma, high grade
Texas (Carl R Darnall Army Medical Center) - Angiosarcoma
Texas, Crystal Beach - Infiltrating lobular carcinoma
Texas, Houston - Kaposi's sarcoma

Texas, Lubbock - Angiosarcoma
Texas (San Antonio University of Texas Health Science Center Residents) - Angiosarcoma
Texas (Scott & White Hospital) - Angiosarcoma
Washington (Seattle VAMC) - Angiosarcoma
Washington (University of Washington Medical Center) - Angiosarcoma
West Virginia (Greenbrier Valley Medical Center) - Angiosarcoma
Australia (Royal Hobart Hospital) - Angiosarcoma
Canada (University of Sherbrooke) - Angiosarcoma
Ireland (Kerry General Hospital) - Angiosarcoma
Japan (Shizuoka Tokushu-kai Hospital) - Angiosarcoma
Japan (Asashi General Hospital) - Angiosarcoma
Japan (University of Yamanashi) - Angiosarcoma
Netherlands, Amstelveen - Angiosarcoma
Singapore (Freelance/Locum Practice) - Angiosarcoma, high grade
United Kingdom (John Radcliffe Hospital) - Angiosarcoma
United Kingdom (Princes Risborough Study Group) - Angiosarcoma

Case 9 - Diagnosis:

Angiosarcoma
 T-04000, M-91203

Case 9 - References:

Diagnostic Cytopathology in Type II Angiosarcoma of the Breast: A Case Report. Kiyozuka Y, Koyama H, et al. *Acta Cytol* 2005; 49(5):560-566.
 Primary Angiosarcoma of the Breast. Tiwary SK, Singh MK, et al. *Surgery* 2007; 141(6):821-822.
 Skin Angiosarcoma Arising in an Irradiated Breast: Case-Report and Literature Review. Catena F, Santini D, et al. *Dermatol Surg* 2006; 32(3):447-455.
 Angiosarcoma of the Breast. Vorburger SA, Xing Y, et al. *Cancer* 2005; 104(12):2682-2688.
 Primary Angiosarcoma of the Breast. Kiluk JV and Yeh KA. *Breast J* 2005; 11(6):517-518.

Case No. 10, Accession No. 22554

January 2010

Alameda (Alameda County Medical Center) - Solitary fibrous tumor
Fontana (Kaiser Foundation Hospital) - Dermatofibrosarcoma protuberans
Glendale - Dermatofibrosarcoma protuberans
Hayward-Fremont (St. Rose Hospital) - Solitary fibrous tumor
Long Beach (Long Beach Veterans Hospital) - Dermatofibrosarcoma protuberans
Oakland (Kaiser Oakland Medical Center) - Dermatofibrosarcoma protuberans
Oxnard (St. John's Regional Medical Center) - Dermatofibrosarcoma protuberans
San Diego (San Diego Naval Medical Center) - Hemangiopericytoma
Santa Barbara (Miramonte Laboratory) - Dermatofibrosarcoma protuberans
Woodland Hills (Kaiser Permanente) - Dermatofibrosarcoma protuberans (DFSP)
Alabama (Cunningham Pathology, LLC) - Dermatofibrosarcoma protuberans
Colorado (McKee Medical Center) - Hemangiopericytoma
Colorado (University of Colorado) - Myofibroblastoma
Florida (Naples Pathology Associates) - Dermatofibrosarcoma protuberans
Georgia, Danwoody - Dermatofibrosarcoma protuberans
Illinois, Burr Ridge - Dermatofibrosarcoma protuberans
Illinois, Chicago - Fibrosarcoma (2)
Illinois (Heartland Regional Medical Center) - Dermatofibrosarcoma protuberans
Illinois, Oakbrook - Malignant stroma cell tumor, fibroblastic
Illinois (St. Mary's Hospital) - Dermatofibrosarcoma protuberans
Indiana, Indianapolis - Solitary fibrous tumor
Louisiana (LSU-HSC) - Malignant stromal cell tumor with myofibroblastic differentiation vs. dermatofibrosarcoma protuberans (1); Leiomyosarcoma (1)

Minnesota (Fairview Ridges Hospital) - Dermatofibrosarcoma protuberans
Missouri (Missouri Delta Medical Center) - Hemangiopericytoma
Nebraska (Creighton University Medical Center) - Solid fibrous tumor
New York (Albany Medical Center) - Dermatofibrosarcoma protuberans
New York (Long Island Jewish Medical Center) - Hemangiopericytoma
New York (St. Luke's Roosevelt Hospital) - Hemangiopericytoma/SFT (4)
New York (SUNY Downstate Medical Center) - Dermatofibrosarcoma protuberans (2)
New York (Westchester Medical Center) - Myofibroblastoma
North Carolina (North Carolina Baptist Hospital) - Dermatofibrosarcoma protuberans
Ohio, Columbus - Dermatofibrosarcoma protuberans
Ohio, Union Town - Solitary fibrous tumor
Ohio (University of Toledo) - Dermatofibrosarcoma protuberans
Pennsylvania (Conemaugh Memorial Medical Center) - Solitary fibrous nodule
Pennsylvania (Drexel University College of Medical Residents) - Dermatofibroma protuberans
Pennsylvania (Lehigh Valley Hospital) - Solitary fibrous tumor
Pennsylvania (Magee Women's Hospital) - Cellular myofibroblastoma
Pennsylvania (York Hospital) - Hemangiopericytoma
Puerto Rico (University of Puerto Rico) - Dermatofibrosarcoma protuberans
Texas (Carl R Darnall Army Medical Center) - Extrapleural solitary fibrous tumor
Texas, Crystal Beach - Hemangiopericytoma
Texas, Houston - Dermatofibrosarcoma protuberans
Texas, Lubbock - Dermatofibrosarcoma protuberans
Texas (San Antonio University of Texas Health Science Center Residents) - Solitary fibrous tumor
Texas (Scott & White Hospital) - Solitary fibrous tumor
Washington (Seattle VAMC) - Dermatofibrosarcoma protuberans
Washington (University of Washington Medical Center) - Dermatofibrosarcoma protuberans
West Virginia (Greenbrier Valley Medical Center) - Fibrosarcoma
Australia (Royal Hobart Hospital) - Dermatofibrosarcoma protuberans
Canada (University of Sherbrooke) - Dermatofibrosarcoma protuberans
Ireland (Kerry General Hospital) - Solitary fibrous tumor
Japan (Shizuoka Tokushu-kai Hospital) - MSCT-MY
Japan (Asashi General Hospital) - Hemangiopericytoma
Japan (University of Yamanashi) - Solitary fibrous tumor
Netherlands, Amstelveen - Solitary fibrous tumor
Singapore (Freelance/Locum Practice) - Myofibroblastoma
United Kingdom (John Radcliffe Hospital) - Myofibroblastoma
United Kingdom (Princes Risborough Study Group) - Myofibroblastoma

Case 10 - Diagnosis:

Dermatofibrosarcoma protuberans (DFSP), skin of breast
 T-04000, M-88321

Case 10 - References:

Subcutaneous Dermatofibrosarcoma Protuberans in Skin of the Breast: May Mimic A Primary Breast Lesion. Bulliard C, Murali R, et al. *Pathol* 2007; 39(4):446-448.
 Dermatofibrosarcoma Protuberans and Breast Cancer: Genetic Link or Coincidental Association? Beech DJ, Long AB, et al. *Am Surg* 2004; 70(6): 543-545.
 Fine Needle Aspiration Cytology of Dermatofibrosarcoma Protuberans in the Breast: A Case Report. Tsang AK, Wong FC, et al. *Pathol* 2005; 37(1):84-86.
 Aspiration Cytology of Fibrosarcomatous Variant of Dermatofibrosarcoma Protuberans with Osteoclastlike Giant Cells in the Chest Wall: A Case Report. Kim L, Park IS, Han JY, et al. *Acta Cytol* 2005; 49(6):644-649.
 Dermatofibrosarcoma Protuberans. Mendenhall WM, Zlotecki RA, et al. *Cancer* 2004; 101(11):2503-2508.