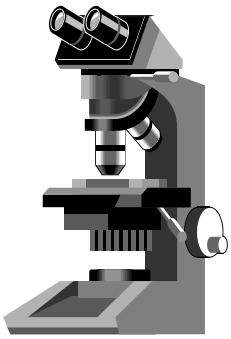
CALIFORNIA
TUMOR TISSUE REGISTRY



BREAST PATHOLOGY

Minutes – Subscription B

January 1999

SUGGESTED READING (General Topics from Recent Literature):

Does Open Biopsy Before Mastectomy Affect the Prevalence of So-Called Axillary Lymph Node Micrometastases Detected Immunohistochemically? *Arch Pathol Lab Med* 1999; 123(2):140-142. De Petris Giovanni, Gnepp, DR and Henley, D.

Differential Expression of Cyclin D1 in Breast Papillary Carcinomas and Benign Papillomas. An Immunohistochemical Study. *Arch Pathol Lab Med* 1999; 123(2):152-158. Saddik M, Lai R, Medeiros LJ, McCourty A and Brynes RK.

Indications for Axillary Dissection in T1 Breast Cancer. *Annals of Surg Oncol* 1998; 5(1):4-8. Mustafa IA and Bland KI.

Prognostic Value of Plasma Prostate Specific Antigen after Megestrol Acetate Treatment in Patients with Metastatic Breast Carcinoma. *Cancer* 1999; 85(4):891-898.

Be sure to visit the new CTTR "Case of the Month" at http://www.llu.edu/llu/cttr/cotm/

California Tumor Tissue Registry
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CASE NO. 1, ACCESSION NO. 26092 JANUARY 1999

GLENDALE - Hamartoma of breast
OAKLAND - Fibroadenoma (4)
SAN DIEGO - Fibroadenoma
KENTUCKY (Louisville) - Juvenile fibroadenoma
INDIANA (Fort Wayne) - Pseudoangiomatous stromal hyperplasia (PASH), left breast (female) consistent with intracanalicular fibroadenoma
TEXAS (Waco) - Fibroadenoma
FLORIDA (Miami) - Adenosis
FLORIDA (Ocala) - Fibroadenoma with giant cells
FLORIDA (Winter Haven) - Sclerosing lobular hyperplasia
LOUISIANNA (River Ridge) - Fibroadenoma
OHIO (Columbus) - Fibroadenoma
PENNSYLVANIA (Philadelphia) - PASH (with fibroadenoma)
MARYLAND (Bethesda) - Fibroadenoma (7); Fibroglandular hyperplasia (4); Hamartoma (3)
NEW JERSEY (Edison) - Hamartoma
MAINE (Longmeadow) - Fibroadenomatoid mastopathy
MAINE (Medford) - Fibroadenoma
CANADA (Vancouver) - Hamartoma
CANADA (St. John's) - Hamartoma
JAPAN (Hamamatsu) - Acinar hyperplasia
JAPAN (Okayama) - Adenosis tumor
JAPAN (Kyoto) - Fibroadenoma (3)
SLOVENIA (Institute of Oncology) - Fibroadenomatoid mastopathy (3)

DIAGNOSIS:

GIANT FIBROADENOMA, BREAST
T04000, M90200

REFERENCES:

Hoffman SH. Giant Fibroadenoma of the breast. Immediate Reconstruction Following Excision. *Br J Plast Surg* 1978; 31(2):170-172.
Deschenes L. Multiple Giant Fibroadenomas. *Can J Surg* 1988; 31(2):79.
Devitt JE. Juvenile Giant Fibroadenoma of the Breast. *Can J Surg* 1974; 17(4):205-207.
Yoshida Y, et al. Carcinoma arising in Fibroadenoma. Case Report and Review of the World Literature. *J Surg Oncol* 1985; 29(2):132-140.
Gupta RK, et al. Fine Needle Aspiration of Breast Carcinoma in a Fibroadenoma. *Cytopathology* 1993; 3(1):49-53.

CASE NO. 2, ACCESSION NO. 26234 JANUARY 1999

GLENDALE - Low-grade cribriform carcinoma
OAKLAND - Ductal adenoma (4)
SAN DIEGO - Tubular adenoma
KENTUCKY (Louisville) - Adenomyoepithelioma
INDIANA (Fort Wayne) - Pleomorphic adenoma, breast (female)
TEXAS (Waco) - Infiltrating duct cell carcinoma, grade I/II
FLORIDA (Miami) - Apocrine duct cell breast carcinoma
FLORIDA (Ocala) - Sclerosing adenosis with atypical apocrine metaplasia
FLORIDA (Winter Haven) - Adenomyoepithelioma
LOUISIANNA (River Ridge) - Tubular adenoma
OHIO (Columbus) - Invasive ductal carcinoma with apocrine features
PENNSYLVANIA (Philadelphia) - Metastatic adenocarcinoma
MARYLAND (Bethesda) - Pleomorphic adenoma (14)
NEW JERSEY (Edison) - Hypersecretory DCIS with mucocele like lesion vs. tubular adenoma
MAINE (Longmeadow) - Adenosis with aprocrine metaplasia, atypical, breast
MAINE (Medford) - Tubular adenoma
CANADA (Vancouver) - Intraductal adenoma
CANADA (St. John's) - Apocrine carcinoma, tubular variant
JAPAN (Hamamatsu) - Adenoma
JAPAN (Okayama) - Invasive ductal carcinoma
JAPAN (Kyoto) - Intraductal papilloma (3)
SLOVENIA (Institute of Oncology) - Mucoepidermoid carcinoma (3)

DIAGNOSIS:

ATYPICAL APOCRINE NEOPLASM, PROBABLY LOW GRADE MALIGNANCY ("LOW GRADE DUCT CARCINOMA WITH APOCRINE FEATURES"), BREAST
T04000, M85003

REFERENCES:

Abati AD, Kimmel M and Rosen PP. Apocrine Mammary Carcinoma. A Clinicopathologic Study of 72 Cases. *Am J Clin Pathol* 1990; 94(4):371-377.

Pagani A, Eusebi V, Bergnolo P, et al. PIP/GCDFP-15 Gene Expression and Apocrine Differentiation in Carcinomas of the Breast. *Virchows Arch* 1994; 425(5):459-465.

Eusebi V, Betts C, Hoagensen DE Jr., et al. Apocrine Differentiation in Lobular Carcinoma of the Breast. A Morphologic, and Immunologic Ultrastructural Study. *Hum Pathol* 1984; 15(2): 134-140.

GLENDALE - High grade comedo DCIS
OAKLAND - High grade ductal carcinoma in-situ (4)
SAN DIEGO - Extensive high grade ICIS (comedo-type)
KENTUCKY (Louisville) - Ductal carcinoma in-situ, comedo type, focally microinvasive
INDIANA (Fort Wayne) - Infiltrating comedo-carcinoma, right female breast
TEXAS (Waco) - Intraductal carcinoma, comedo carcinoma type
FLORIDA (Miami) - Intraductal carcinoma of breast, comedo type
FLORIDA (Ocala) - DCIS, comedo type, extensive
FLORIDA (Winter Haven) - Ductal carcinoma in-situ
LOUISIANNA (River Ridge) - Comedo carcinoma
OHIO (Columbus) - Ductal carcinoma in-situ, high grade comedo type
PENNSYLVANIA (Philadelphia) - Comedo carcinoma infiltrating to the fat
MARYLAND (Bethesda) - Ductal carcinoma in-situ (14)
NEW JERSEY (Edison) - Comedo intraductal carcinoma
MAINE (Longmeadow) - Intraductal carcinoma, comedo type, high grade breast
MAINE (Medford) - Ductal carcinoma in-situ (comedo type) with probable focal invasion
CANADA (Vancouver) - High grade DCIS (comedo type with cancerization of lobule)
CANADA (St. John's) - DCIS, high grade with comedonecrosis (comedocarcinoma), with lobular cancerization
JAPAN (Hamamatsu) - Non-invasive ductal carcinoma, comedo carcinoma
JAPAN (Okayama) - DCIS, high-grade
JAPAN (Kyoto) - Intraductal carcinoma (3)
SLOVENIA (Institute of Oncology) - Ductal carcinoma in-situ, comedo type, with cancerization of lobules

DIAGNOSIS:

HIGH GRADE DCIS, COMEDO TYPE, BREAST
T04000, M85003

REFERENCES:

Chen K-L, Harn HJ, Ho LI, Yu C-P, et al. The Extent of Proliferative and Apoptotic Activity in Intraductal and Invasive Ductal Breast Carcinomas Detected by Ki-67 Labeling and Terminal Deoxynecleotidyl Transferase—Mediated Digoxigenin 11-dUTP nick End Labeling. *Cancer* 1998; 82(12):2373-2381.

Logan-Young W, Dawson AE, Wilbur EE, Tomkiecz ZM, et al. The Cost-Effectiveness of Fine Needle Aspiration Cytology and 14 –Gauge Core Needle Biopsy Compared with Open Surgical Biopsy in the Diagnosis of Breast Carcinoma. *Cancer* 1998; 82(10):1867-1873.

Berardo M, Elledge RM, de-More C, Clark GM, et al. Bcl-2 and Apoptosis in Lymph Node Positive Breast Carcinoma. *Cancer* 1998; 82(7):1296-1302.

Page DL. Prognosis and Breast Cancer. Recognition of Lethal and Favorable Prognostic Types. *Am J Surg Pathol* 1991; 15(4):334-349.

Siitonen SM, Haapisado HK, Rantata IS, et al. Comparison of Different Immunohistochemical Methods in the Assessment of Angiogenesis. Lack of Prognostic Value in a Group of 77 Selected Node Negative Breast Carcinomas. *Mod Pathol* 1995; 8(7):745-752.

Holland R, Peterse JL, Mills RR, Eusebi V, et al. Ductal Carcinoma In-Situ. A Proposal for a New Classification. *Semin Diagn Pathol* 1994; 11(3):167-180.

CASE NO. 4, ACCESSION NO. 8448 JANUARY 1999

GLENDALE - Medullary carcinoma
OAKLAND - Medullary carcinoma (2); Infiltrating ductal carcinoma, grade III (2)
SAN DIEGO - Anaplastic large cell lymphoma
KENTUCKY (Louisville) - Medullary carcinoma
INDIANA (Fort Wayne) - Medullary carcinoma, right female breast
TEXAS (Waco) - Medullary carcinoma
FLORIDA (Miami) - Medullary carcinoma
FLORIDA (Ocala) - Medullary carcinoma
FLORIDA (Winter Haven) - Medullary carcinoma
LOUISIANNA (River Ridge) - Medullary carcinoma
OHIO (Columbus) - Invasive ductal carcinoma, medullary type
PENNSYLVANIA (Philadelphia) - Medullary carcinoma of breast, r/o lymphoma
MARYLAND (Bethesda) - Anaplastic large cell lymphoma (7); Poorly differentiated carcinoma (4); Atypical medullary carcinoma (3)
NEW JERSEY (Edison) - Medullary carcinoma
MAINE (Longmeadow) - Medullary carcinoma, breast
MAINE (Medford) - Hodgkins disease vs. non-Hodgkins lymphoma (large cell type) (Would do markers for Reed-Sternberg cells)
CANADA (Vancouver) - Medullary carcinoma
CANADA (St. John's) - Medullary carcinoma
JAPAN (Hamamatsu) - Malignant lymphoma, diffuse large cell type
JAPAN (Okayama) - Medullary carcinoma, typical
JAPAN (Kyoto) - Medullary carcinoma (3)
SLOVENIA (Institute of Oncology) - Medullary carcinoma (3)

DIAGNOSIS:

MEDULLARY CARCINOMA, BREAST
T04000, M85103

REFERENCES:

Gaffey MJ, Mills SE, Frierson HF, et al. Medullary Carcinoma of the Breast. Interobserver Variability in Histologic Diagnosis. *Mod Pathol* 1995; 8(1):31-38.

Larsimont D, Lespagnard L, Degeyter M, Heimann R. Medullary Carcinoma of the Breast. A Tumour Lacking Keratin 19. *Histopathol* 1994; 24(6):549-552.

Lespagnard L, Cochaux P, Larsimont D, Degeyter M, et al. Absence of Epstein-Barr Virus in Medullary Carcinoma of the Breast as Demonstrated by Immunophenotyping, In-Situ Hybridrization and Polymerase Chain Reaction. *Am J Clin Pathol* 1995; 103(4):449-452.

Moore OS, Foote F. Jr. The Relatively Favorable Prognosis of Medullary Carcinoma of the Breast. *Cancer* 1949; 2:635-642.

Bloom HJG, Richardson WW, Fields JR. Host Resistance and Survival in Carcinoma of Breasts. A Study of 104 Cases of Medullary Carcinoma in a series of 1, 411 Cases of Breast Cancer Followed for 20 years. *Br M.ed J.* 1970; 3(716):181-188.

GLENDALE - High-grade lobular carcinoma
OAKLAND - Poorly differentiated carcinoma with signet ring cells (2); Large cell lymphoma (2)
SAN DIEGO - Malignant lymphoma, NOS
KENTUCKY (Louisville) - Extranodal large cell lymphoma
INDIANA (Fort Wayne) - Lymphoreticular neoplasm – probable lymphoma, large cell type, r/o granulocytic sarcoma
TEXAS (Waco) - Infiltrating lobular carcinoma
FLORIDA (Miami) - Liposarcoma
FLORIDA (Ocala) - Pleomorphic lobular carcinoma
FLORIDA (Winter Haven) - Invasive ductal carcinoma
LOUISIANNA (River Ridge) - Invasive lobular carcinoma
OHIO (Columbus) - Pleomorphic lobular carcinoma
MARYLAND (Bethesda) - Lobular carcinoma (14)
NEW JERSEY (Edison) - Large cell lymphoma
MAINE (Longmeadow) - Invasive lobular carcinoma, breast
MAINE (Medford) - Infiltrating lobular carcinoma
CANADA (Vancouver) - Small blue cell tumor (lymphoma?/? sarcoma)
CANADA (St. John's) - Infiltrating lobular carcinoma, pleomorphic type
JAPAN (Hamamatsu) - Malignant lymphoma
JAPAN (Okayama) - Anaplastic carcinoma, origin unknown
JAPAN (Kyoto) - Invasive lobular carcinoma (3)
SLOVENIA (Institute of Oncology) - Anaplastic plasmacytoma (1); Non-Hodgkin lymphoma (2)

DIAGNOSIS:

PLEOMORPHIC LOBULAR CARCINOMA, BREAST
Directors Note: Tumor was keratin positive (cocktail and CAM 5.2)
T04000, M80223

REFERENCES:

Van Bogaert LJ, Maldaque P. Infiltrating Lobular Carcinoma of the Female Breast. Deviations From the Usual Histopathologic Appearance. *Cancer* 1980; 45(5):979-984.

Page DL, Kidd TE Jr., Dupont WD, Simpson JF, Rogers LW. Lobular Neoplasia of the Breast. Higher Risk for Subsequent Invasive Cancer Predicted by More Extensive Disease. *Hum Pathol* 1991; 22(12):1232-1339.

Fechner RE. Lobular Carcinoma In-Situ in Sclerosing Adenosis. A Potential Source of Confusion with Invasive Carcinoma. *Am J Surg Pathol* 1981; 5(3):233-239.

Domagla W, Markrewski M, Kubiak R, et al. Immunohistochemical Profile of Invasive Lobular Carcinoma of the Breast. Predominantly Vimentin and p53 Protein Negative Cathepsin D and Oestrogen Receptor Positive *Virchows Arch Pathol Anat Histopathol* 1993; 423(6):497-502.

Lamovec J, Bracko M. Metastatic Pattern of Infiltrating Lobular Carcinoma of the Breast. An Autopsy Study. *J Surg Oncol* 1991; 48(1):28-31.

CASE NO. 6, ACCESSION NO. 9537 JANUARY 1999

GLENDALE - Mucinosis
OAKLAND - Myxoma (4)
SAN DIEGO - Hamartoma
KENTUCKY (Louisville) - Mucocele-like tumor (minority); Myxoma (majority)
INDIANA (Fort Wayne) - Benign myxoma, right breast (mucocele) (mucinosis benign)
TEXAS (Waco) - Mucocele-like tumor
FLORIDA (Miami) - Mixed tumor of breast
FLORIDA (Ocala) - Myxoma
FLORIDA (Winter Haven) - Neurofibroma
LOUISIANNA (River Ridge) - Myxoma
OHIO (Columbus) - Myxoma
PENNSYLVANIA (Philadelphia) - Mucocele
MARYLAND (Bethesda) - Myxoma (14)
NEW JERSEY (Edison) - Mucocele-like lesion
MAINE (Longmeadow) - Cystosarcoma phyllodes
MAINE (Medford) - Myxoma
CANADA (Vancouver) - Myxoid mesenchymal neoplasm (benign)
CANADA (St. John's) - Myxoma
JAPAN (Hamamatsu) - Cavernous hemangioma with peripheral myxoid change
JAPAN (Okayama) - Myxoid neurofibroma, most likely
JAPAN (Kyoto) - Mucinosis (2); Myxoma (1)
SLOVENIA (Institute of Oncology) - Neurothecoma (2); Benign fibromyxoid (1)

DIAGNOSIS:

MYXOMA, BREAST
T04000, M88400

FOLLOW-UP: At eleven months post-op, there was no evidence of recurrent tumor.

REFERENCES:

Chan YF, et al. Myxoma of the Breast. Report of a Case and Ultrastructural Study. *Pathol* 1986; 18(1):153-157 (English Abstract).
Arihiro K, et al. Myxoma of the Breast. A Report of a Case with Unique Histological and Immunohistochemical Appearances. *Acta Pathol Jpn* 1993; 43(6):340-346.

CASE NO. 7, ACCESSION NO. 8804 JANUARY 1999

GLENDALE - Fibrosarcoma
OAKLAND - Malignant Phyllodes tumor (4)
SAN DIEGO - Inflammatory myofibroblastic tumor (post operative spindle cell nodule)
KENTUCKY (Louisville) - Fibromatosis
INDIANA (Fort Wayne) - Fibrosarcoma
TEXAS (Waco) - Stromal sarcoma
FLORIDA (Miami) - Fibrosarcoma
FLORIDA (Ocala) - Myofibroblastoma
FLORIDA (Winter Haven) - Fibrosarcoma
LOUISIANNA (River Ridge) - Stromal sarcoma
OHIO (Columbus) - Organizing biopsy site changes
PENNSYLVANIA (Philadelphia) - Leiomyosarcoma
MARYLAND (Bethesda) - Sarcoma, NOS (12); Sarcoma, favor MFH (2)
NEW JERSEY (Edison) - Fibromatosis
MAINE (Longmeadow) - Spindle cell sarcoma, NOS, high grade, breast
MAINE (Medford) - Dermatofibrosarcoma protuberans
CANADA (Vancouver) - Sarcoma
CANADA (St. John's) - Fibromatosis
JAPAN (Hamamatsu) - Nodular fasciitis
JAPAN (Okayama) - Low-grade myofibroblastic sarcoma
JAPAN (Kyoto) - Nodular fasciitis (3)
SLOVENIA (Institute of Oncology) - Fibrosarcoma (3)

DIAGNOSIS:

FIBROSARCOMA, BREAST
T04000, M88103

FOLLOW-UP: The patient expired after a prolonged clinical illness characterized by massive recurrence of her chest wall sarcoma

REFERENCES:
Jones MW, Norris HJ, Wagolz ES, Weiss SW. Fibrosarcoma—Malignant Fibrous Histiocytoma of the Breast. A Clinicopathological Study of 32 Cases. *Am J Surg Pathol* 1992; 16(7):667-674.
Norris HJ, Taylor HB. Sarcomas and Related Mesenchymal Tumors of the Breast. *Cancer* 1968; 22(1):22-28.
Pollard SG, Marks PV, Temple LN, Thompson HH. Breast Sarcoma. A Clinicopathologic Review of 25 Cases. *Cancer* 1990; 66(5):941-944.

GLENDALE - Myxoid malignant fibrous histiocytoma
OAKLAND - Myxoid malignant fibrous histiocytoma (4)
SAN DIEGO - Nodular fasciitis
KENTUCKY (Louisville) - Myxoid sarcoma (? recurrence in Phyllodes tumor)
INDIANA (Fort Wayne) - Metaplastic carcinoma (MATRIX-myxochondroid) (mesenchymal chondrosarcoma pattern)
TEXAS (Waco) - Malignant Phyllodes tumor
FLORIDA (Miami) - Myxoid MFH
FLORIDA (Ocala) - Myxoid liposarcoma
FLORIDA (Winter Haven) - Fibrosarcoma
LOUISIANNA (River Ridge) - Stromal sarcoma
OHIO (Columbus) - Myxoid liposarcoma
PENNSYLVANIA (Philadelphia) - Myxoid liposarcoma
MARYLAND (Bethesda) - Sarcoma with myxoid features, NOS (8); Stromal sarcoma (3); Low-grade fibromyoxid sarcoma (3)
NEW JERSEY (Edison) - Myxoid MFH
MAINE (Longmeadow) - Myxoid liposarcoma, breast
MAINE (Medford) - Myxoid liposarcoma
CANADA (Vancouver) - Sarcoma
CANADA (St. John's) - Malignant phyllodes tumor (fibrosarcomatous and myxoid liposarcomatous patterns)
JAPAN (Hamamatsu) - MFH, myxoid type
JAPAN (Okayama) - Pseudosarcomatous myofibroblastic proliferation
JAPAN (Kyoto) - Myxoid leiomyoma (3)
SLOVENIA (Institute of Oncology) - Low grade fibromyxoid sarcoma (3)

DIAGNOSIS:

MYXOID SARCOMA (NOS), BREAST
T04000, M88003

REFERENCES:

Jones MW, Norris HJ, Wargotz ES, Weiss SW. Fibrosarcoma—Malignant Fibrous Histiocytoma of the Breast. A Clinicopathological Study of 32 Cases. *Am J Surg Pathol* 1992; 16(7):667-674.
Norris HJ, Taylor HB. Sarcomas and Related Mesenchymal Tumors of the Breast. *Cancer* 1968; 22(1):22-28.
Pollard SG, Marks PV, Temple LN, Thompson HH. Breast Sarcoma. A Clinicopathologic Review of 25 Cases. *Cancer* 1990; 66(5):941-944.
De Medici A, Cerelli CF, Venegoni A, Sirchi M. Malignant Fibrous Histiocytoma of the Breast. A Clinical Case. *Minerva Chir* 1997; 52(10):1237-1241 (Review of Reported Cases).

CASE NO. 9, ACCESSION NO. 26158 JANUARY 1999

GLENDALE - Carcinoma
OAKLAND - Malignant fibrous histiocytoma (4)
SAN DIEGO - Malignant fibrous histiocytoma
KENTUCKY (Louisville) - Malignant phylloides tumor
INDIANA (Fort Wayne) - Metaplastic carcinoma (MFH pattern), right breast
TEXAS (Waco) - Myxoid malignant fibrous histiocytoma
FLORIDA (Miami) - Sarcoma, NOS
FLORIDA (Ocala) - Malignant fibrous histiocytoma
FLORIDA (Winter Haven) - Malignant fibrous histiocytoma
LOUISIANNA (River Ridge) - Stromal sarcoma
OHIO (Columbus) - Sarcomatoid carcinoma
PENNSYLVANIA (Philadelphia) - Myxoid MFH
MARYLAND (Bethesda) - Malignant fibrous histiocytoma (9); High –grade sarcoma, NOS (4)
NEW JERSEY (Edison) - Pleomorphic liposarcoma
MAINE (Longmeadow) - Cystosarcoma Phyllodes with rhabdomyosarcoma, breast
MAINE (Medford) - Metaplastic carcinoma
CANADA (Vancouver) - Malignant phyllodes tumor
CANADA (St. John's) - Malignant fibrous histiocytoma
JAPAN (Hamamatsu) - Metaplastic carcinoma
JAPAN (Okayama) - Malignant phyllodes tumor
JAPAN (Kyoto) - Malignant phyllodes tumor (3)
SLOVENIA (Institute of Oncology) - Pleomorphic sarcoma (2); MFH (1)

DIAGNOSIS:

MALIGNANT FIBROUS HISTIOCYTOMA (MFH), BREAST
T04000, M88303

REFERENCES:
Liebert CW Jr., et al. Malignant Histioctyoma of the Breast. *South Med J* 1982; 75(10):1281-1283.
Tamir G, et al. Malignant Fibrous Histioctyoma of the Breast. *Eur J Surg Oncol* 1995; 21(2):210-211.
De Medici A, Cebrelli CF, Venegoni A, et al. Malignant Fibrohistiocytoma of the Breast. A Clinical Case. *Ninerva Chir* 1997; 51(10):1237-1241 (Italian).

CASE NO. 10, ACCESSION NO. 28475 JANUARY 1999

GLENDALE - Leiomyosarcoma
OAKLAND - Myofibroblastoma (4)
SAN DIEGO - Myofibroblastoma
KENTUCKY (Louisville) - Myofibroblastoma
INDIANA (Fort Wayne) - Myoepithelioma, left breast
TEXAS (Waco) - Myofibroblastoma
FLORIDA (Miami) - Amyloidoma
FLORIDA (Ocala) - Pseudoangiomatous hyperplasia, fascicular type vs. epitheloid variant of myofibroblastoma
FLORIDA (Winter Haven) - Myoepithelioma
LOUISIANNA (River Ridge) - Myofibroblastoma
OHIO (Columbus) - Invasive carcinoma—likely arising in nipple
MARYLAND (Bethesda) - Myofibroblastoma (14)
NEW JERSEY (Edison) - ? myofibroblastoma
MAINE (Longmeadow) - Myofibroblastoma, breast
MAINE (Medford) - Leiomyoblastoma
CANADA (Vancouver) - Myofibroblastoma
CANADA (St. John's) - Myofibroblastoma
JAPAN (Hamamatsu) - Myoepithelioma
JAPAN (Okayama) - Myofibroblastoma
JAPAN (Kyoto) - Myofibroblastoma (3)
SLOVENIA (Institute of Oncology) - Myoepithelioma (2); Cellular myofibroblastoma (1)

DIAGNOSIS:

MYOFIBROBLASTOMA, BREAST
Director Note: A similar case was recently presented on the CTTR Web Page as a "Case of the Month" (Feb). http://www.llu.edu/llu/cttr/cotm/
T04000, M95803

REFERENCES:
Wargotz ES, Weiss SW, Norris HJ. Myofibroblastoma of the Breast. Sixteen Cases of Distinctive Benign Mesenchymal Tumor. *Am J Surg Pathol* 1987; 11(7):493-502.
Damiani S, Miettinen M, Peterse JL, Eusebi V. Solitary Fibrous Tumors (Myofibroblastoma) of the Breast. *Virchows Arch* 1994; 425(1):89-92.