



CALIFORNIA
TUMOR TISSUE REGISTRY

DERMATOPATHOLOGY

Minutes – Subscription A

April 2001



SUGGESTED READING (General Topics from Recent Literature):

Surgical Progress and Understanding in the Treatment of the Melanoma Epidemic. Polk HC., Jr. *The Am J of Surg* 1999; 178:443-448.

Evaluation of the Prognostic Significance of the Site of Origin of Cutaneous Melanoma. Law MM and Wong JH. *The Am Surg* 1994; 60:362-366.

HMB-45 Immunohistochemical Staining of Sentinel Lymph Node. A Specific Method for Enhancing Detection of Micrometastases in Patients with Melanoma. *Am J Surg Pathol* 2000;24(8):1140-1146.

Sentinel Lymph Node Biopsy for Melanoma. Gogel BM, Kuhn JA, et al. *Am J Surg* 1998; 176:544-547.

The Genetics of Hereditary Melanoma and Nevi. 1998 Update. Greene MH. *Cancer* 1999; 86(11):2464.

Actin-Rich Desmoplastic Malignant Melanoma. Riccioni L, Tommaso LD, et al. *The Am J of Dermatopathol* 1999; 21(6):537-541.

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FILE DIAGNOSES

CTTR Subscription A

April 2001

Case 1:

Pilar Cyst, Scalp

T-Y0160, M-33470

Case 2:

Eccrine Spiradenoma, Calf

T-01000, M-84030

Case 3:

Aggressive Digital Papillary Adenocarcinoma, Finger

T-Y8800, M-82603

Case 4:

Neurocristic Hamartoma, Scalp

T-Y0160, M-75500

Case 5:

Blue Nevus, Scalp

T-Y0160, M-88303

Case 6:

Malignant Melanoma, Anus

T-69900, M-87203

Case 7:

Spindle Cell Melanoma, Shoulder

T-Y1220, M-87723

Case 8:

Cylindroma, Shoulder

T-Y1220, M-82003

Case 9:

Myxoid Neurofibroma, Back

T-Y1100, M-95400

Case 10:

Atypical Fibroxanthoma (AFX), Peri-Orbital Skin

T-XX000, M-88303

Erratum:

In the March 2001 'Minutes', a study group diagnosis was incorrectly reported. Due to difficulties in interpreting handwriting, the word 'carcinoma' was transcribed as 'carcinoid'. The Registry suggests that, in the future, study groups submit their diagnoses directly through our new website at: www.cttr.org

Baldwin Park (Kaiser) - Pilar cyst (3); Trichilemmal cyst (1)
Bay Area - Trichilemmal cyst (3)
Cook County Residents - Trichilemmal cyst
Irvine (UCI Medical Center Residents) - Trichilemmal cyst
Long Beach (Lakewood Regional Medical Center) - Pilar cyst (9)
Monterey (Community Hospital of Monterey Peninsula) - Trichilemmal cyst
Mountain View (El Camino Pathology Group) - Pilar cyst
Sacramento (UC Davis Medical Center) - Isthmus follicular cyst
San Diego (Naval Medical Center) - Trichilemmal cyst
Santa Barbara (Cottage Hospital) - Pilar cyst
Santa Rosa (Memorial Hospital) - Pilar cyst (trichilemmal cyst) (3)
Ventura (Unilab) - Pilar cyst (2)
Alaska (Anchorage) - Pilar (trichilemmal cyst)
Florida (Munroe Regional Medical Center) - Pilar cyst
Florida (Pathology Associates) - Isthmus (pilar) cyst
Florida (Winter Haven Hospital) - Pilar cyst (2)
Illinois (DuPage Pathology Associates) - Trichilemmal (pilar) cyst
Indiana (Ft. Wayne) - Trichilemmal cyst with calcification (calcified sebaceous cyst), scalp
Iowa (University of Iowa Residents) - Pilar cyst
Kansas (Spears Pathology Labs) - Pilar cyst of calcification
Kentucky (University of Louisville Residents) - Pilar cyst - trichilemmal cyst
Maryland (Johns Hopkins Hospital Residents) - Pilar - trichilemmal cyst
Maryland (National Naval Medical Center) - Pilar cyst
Maryland (University of Maryland Residents) - Pilar cyst
Maryland (Woodbine) - Pilar cyst (2)
Massachusetts (New England Medical Center Residents) - Trichilemmal cyst
Michigan (Oakwood Hospital) - Trichilemmal cyst
Michigan (St. Joseph Mercy Hospital) - Pilar (trichilemmal cyst) (4)
Nebraska (Creighton University) - Trichilemmal (pilar) cyst
New Jersey (Overlook Hospital) - Pilar cyst (2); Trichilemmal cyst (1)
New York (Beth Israel Medical Center Residents) - Trichilemmal cyst
New York (LIJ Medical Center) - Pilar cyst
New York (Northport VAMC) - Epidermal inclusion cyst (1); Pilar cyst (1)
New York (SUNY Stony Brook University Hospital Residents) - Pilar (trichilemmal cyst)
North Carolina (Wake Forest University Residents) - Trichilemmal (pilar) cyst
North Carolina (WNC Pathology Group) - Pilar cyst (3)
Oklahoma (Tulsa) - Pilar (isthmus-catagon) cyst
Pennsylvania (Allegheny General Hospital) - Trichilemmal cyst
Pennsylvania (Lehigh Valley Hospital) - Pilar cyst
Australia (North Queensland Pathology Group) - Trichilemmal or pilar cyst
Australia (Royal Prince Alfred Hospital) - Trichilemmal cyst
Canada (Foothills Hospital, Calgary) - Trichilemmal cyst
Japan (Kawasaki Medical School Hospital, Kurashiki) - Trichilemmal cyst (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Trichilemmal cyst (pilar cyst), scalp
Singapore - Trichilemmal cyst

Case 1 - Diagnosis:

Pilar Cyst, Scalp

T-Y0160, M-33470

Case 1 - References:

Textbook of Dermatopathology, First Edition. Editor Raymond L Barnhill, M.D. McGraw-Hill Health Professions Division 1998; 25:481-492.

Athanasou NA and Quinn JM. Bone Resorption by Macrophage Polykaryons of a Pilar Tumor of Scalp. *Cancer* 1992; 70(2):469-475.

Hendricks DL, Liang MC, Borochovit D, et al. A Case of Multiple Pilar Tumors and Pilar Cysts Involving the Scalp and Back. *Plast Reconstr Surg* 1991; 87(4):763-767.

Cenetoglu S, Inceoglu S, Celebi C, et al. Giant Pilar Tumor of the Scalp. *Plast Reconstr Surg* 1993; 92(6):1207-1208.

Case No. 2, Accession No. 28829

April 2001

Baldwin Park (Kaiser) - Chondroid syringoma (1); Eccrine skin appendage tumor (2); Nodular hidradenoma (1)

Bay Area - Eccrine adenoma (variant, ? syringoma) (3)

Cook County Residents - Eccrine spiradenoma

Irvine (UCI Medical Center Residents) - Eccrine spiradenoma

Long Beach (Lakewood Regional Medical Center) - Spiradenoma (9)

Monterey (Community Hospital of Monterey Peninsula) - Eccrine spiradenoma

Mountain View (El Camino Pathology Group) - Eccrine spiradenoma

Sacramento (UC Davis Medical Center) - Solid and cystic apocrine pilar hidradenoma

San Diego (Naval Medical Center) - Eccrine spiradenoma

Santa Barbara (Cottage Hospital) - Chondroid syringoma

Santa Rosa (Memorial Hospital) - Eccrine spiradenoma with prominent stromal edema (1); Eccrine spiradenoma (2)

Ventura (Unilab) - Eccrine syringofibroadenoma (2)

Alaska (Anchorage) - Eccrine spiradenoma, cystic variant

Florida (Munroe Regional Medical Center) - Fibroepithelioma of Pinkus

Florida (Pathology Associates) - Spiradenoma (1); Eccrine hydrocystoma (1)

Florida (Winter Haven Hospital) - Eccrine spiradenoma (2)

Illinois (DuPage Pathology Associates) - Nodular hidradenoma

Indiana (Ft. Wayne) - Mucinous eccrine spiradenoma

Iowa (University of Iowa Residents) - Chondroid syringoma

Kansas (Spears Pathology Labs) - Eccrine spiradenoma

Kentucky (University of Louisville Residents) - Chondroid syringoma

Maryland (Johns Hopkins Hospital Residents) - Eccrine spiradenoma

Maryland (National Naval Medical Center) - Eccrine spiradenoma

Maryland (University of Maryland Residents) - Eccrine spiradenoma

Maryland (Woodbine) - Eccrine spiradenoma (1); Nodular hidradenoma (1)

Massachusetts (New England Medical Center Residents) - Spiradenoma

Michigan (Oakwood Hospital) - Eccrine acrospiroma, clear cell

Michigan (St. Joseph Mercy Hospital) - Eccrine spiradenoma (4)

Nebraska (Creighton University) - Cylindroma

New Jersey (Overlook Hospital) - Eccrine syringofibroadenoma (2); Syringoadenoma (1)

New York (Beth Israel Medical Center Residents) - Apocrine cystadenoma

New York (LIJ Medical Center) - Eccrine syringofibroadenoma

New York (Northport VAMC) - Eccrine spiradenoma (1); Benign myxoid adnexal tumor with eccrine differentiation (1)

New York (SUNY Stony Brook University Hospital Residents) - Clear cell hidradenoma

North Carolina (Wake Forest University Residents) - Hidradenoma

North Carolina (WNC Pathology Group) - Spiradenoma (1); Eccrine spiradenoma (2)

Oklahoma (Tulsa) - Eccrine spiradenoma

Pennsylvania (Allegheny General Hospital) - ? adnexal tumor

Pennsylvania (Lehigh Valley Hospital) - Chondroid syringoma

Australia (North Queensland Pathology Group) - Myxoid eccrine spiradenoma

Australia (Royal Prince Alfred Hospital) - Cystic eccrine spiradenoma

Canada (Foothills Hospital, Calgary) - Chondroid syringoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Eccrine spiradenoma
Saudi Arabia (King Khalid University Hospital Study Group) - Syringoma/syringofibroadenoma, left calf
Singapore - Nodular hidradenoma

Case 2 - Diagnosis:

Eccrine Spiradenoma, Calf

T-01000, M-84030

Consultation: Ken Cantos, M.D., Dermatopathologist, LLUMC: "Eccrine Spiradenoma."

Case 2 - References:

Mambo NC. Eccrine Spiradenoma. Clinical and Pathological Study of 49 Tumors. *J Cutan Pathol* 1983; 10(5):312-330.
Herzberg AJ, Elenitsas R. An Unusual Case of Early Malignant Transformation in a Spiradenoma. *Dermatol Surg* 1995; 21(8):731-734.
van den Oord JJ and De Wolf-Peeters C. Perivascular Spaces in Eccrine Spiradenoma. A Clue to Its Histological Diagnosis. *Am J Dermatopathol* 1996; 18(2):218.
al-Nafussi A and Blessing K. Non-Epithelial Cellular Components in Eccrine Spiradenoma. A Histological and Immunohistochemical Study of 20 Cases. *Histopathol* 1991; 19(6):576-577.
Argenyi ZB, Nguyen AV, et al. Malignant Eccrine Spiradenoma. A Clinicopathologic Study. *Am J Dermatopathol* 1992; 14(5):381-390.

Case No. 3, Accession No. 28794

April 2001

Baldwin Park (Kaiser) - Aggressive digital papillary adenocarcinoma (3); Carcinoma (1)
Bay Area - Papillary digital adenocarcinoma (3)
Cook County Residents - Synovial sarcoma (biphasic)
Irvine (UCI Medical Center Residents) - Aggressive digital adenocarcinoma
Long Beach (Lakewood Regional Medical Center) - Eccrine carcinoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Malignant eccrine spiradenoma
Mountain View (El Camino Pathology Group) - Aggressive digital papillary adenocarcinoma
Sacramento (UC Davis Medical Center) - Apocrine carcinoma
San Diego (Naval Medical Center) - Aggressive digital papillary carcinoma
Santa Barbara (Cottage Hospital) - Nodular hidradenoma, malignant
Santa Rosa (Memorial Hospital) - Aggressive digital papillary adenocarcinoma (1); Synovial sarcoma (2)
Ventura (Unilab) - Aggressive digital papillary adenocarcinoma (2)
Alaska (Anchorage) - Malignant adenocarcinoma with eccrine differentiation
Florida (Munroe Regional Medical Center) - Adnexal carcinoma favor malignant eccrine spiradenoma
Florida (Pathology Associates) - Carcinosarcoma (1); Adenocarcinoma (1)
Florida (Winter Haven Hospital) - Papillary digital adenocarcinoma (2)
Illinois (DuPage Pathology Associates) - Aggressive digital papillary adenocarcinoma
Indiana (Ft. Wayne) - Malignant eccrine hidradenoma (acrospiroma)
Iowa (University of Iowa Residents) - Papillary digital eccrine adenocarcinoma
Kansas (Spears Pathology Labs) - Aggressive digital papillary adenocarcinoma vs. a metastases
Kentucky (University of Louisville Residents) - Eccrine adenocarcinoma, favor papillary digital
Maryland (Johns Hopkins Hospital Residents) - Aggressive digital papillary adenocarcinoma
Maryland (National Naval Medical Center) - Aggressive digital papillary adenocarcinoma
Maryland (University of Maryland Residents) - Aggressive digital papillary adenocarcinoma
Maryland (Woodbine) - Malignant mixed tumor (1); Aggressive digital papillary adenocarcinoma (1)
Massachusetts (New England Medical Center Residents) - Aggressive digital papillary adenocarcinoma
Michigan (Oakwood Hospital) - Aggressive digital papillary adenocarcinoma
Michigan (St. Joseph Mercy Hospital) - Eccrine carcinoma - acrospiroma (2); Digital papillary adenocarcinoma (2)
Nebraska (Creighton University) - Aggressive digital papillary adenocarcinoma

New Jersey (Overlook Hospital) - Sweat gland carcinoma (3)
New York (Beth Israel Medical Center Residents) - Malignant nodular hidradenoma
New York (LIJ Medical Center) - Aggressive digital papillary adenocarcinoma
New York (Northport VAMC) - Papillary digital adenocarcinoma (1); Synovial sarcoma (1)
New York (SUNY Stony Brook University Hospital Residents) - Malignant chondroid syringoma
North Carolina (Wake Forest University Residents) - Aggressive digital papillary adenocarcinoma
North Carolina (WNC Pathology Group) - Malignant mixed tumor (3)
Oklahoma (Tulsa) - Aggressive digital papillary adenocarcinoma
Pennsylvania (Allegheny General Hospital) - Adrenal carcinoma
Pennsylvania (Lehigh Valley Hospital) - Malignant eccrine spiradenoma
Australia (North Queensland Pathology Group) - Eccrine carcinoma
Australia (Royal Prince Alfred Hospital) - Digital eccrine adenocarcinoma
Canada (Foothills Hospital, Calgary) - Eccrine adenocarcinoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Aggressive digital papillary adenocarcinoma (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Aggressive digital papillary adenocarcinoma, left middle finger
Singapore - Eccrine carcinoma

Case 3 - Diagnosis:

Aggressive Digital Papillary Adenocarcinoma, Finger

T-Y8800, M-82603

Case 3 - References:

Duke WH, Sherrod TT, et al. Aggressive Digital Papillary Adenocarcinoma (Aggressive Digital Papillary Adenoma and Adenocarcinoma Revisited). *Am J Surg Pathol* 2000; 24(6):775-784.
 Malafa MP, McKesey P, et al. Sentinel Node Biopsy for Staging of Aggressive Digital Papillary Adenocarcinoma. *Dermatol Surg* 2000; 26(6):580-583.
 Singla AK and Shearin JC. Aggressive Surgical Treatment of Digital Papillary Adenocarcinoma. *Plast Reconstr Surg* 1997; 99(7):2058-2060.

Case No. 4, Accession No. 28568

April 2001

Baldwin Park (Kaiser) - Plexiform spindle cell nevus (1); Cellular blue nevus (3)
Bay Area - Malignant melanoma arising from a congenital nevus (3)
Cook County Residents - Blue nevus
Irvine (UCI Medical Center Residents) - Pigmented cellular blue nevus uncertain malignant potential
Long Beach (Lakewood Regional Medical Center) - Blue nevus (9)
Monterey (Community Hospital of Monterey Peninsula) - Malignant Schwannoma
Mountain View (El Camino Pathology Group) - Congenital cellular blue nevus
Sacramento (UC Davis Medical Center) - Blue nevus
San Diego (Naval Medical Center) - Cutaneous neurocristic hamartoma (6); Congenital melanocytic nevus (6); Cellular blue nevus (1)
Santa Barbara (Cottage Hospital) - Pigmented benign neural tumor, favor neurofibroma
Santa Rosa (Memorial Hospital) - Cellular blue nevus (1); Spindle cell nevus, blue type - probably malignant (1); Malignant blue nevus (melanoma) (1)
Ventura (Unilab) - Cellular blue nevus (2)
Alaska (Anchorage) - Melanotic Schwannoma
Florida (Munroe Regional Medical Center) - Pigmented Schwannoma
Florida (Pathology Associates) - Pigmented plexiform neurofibroma (1); Plaque-type blue nevus (1)
Florida (Winter Haven Hospital) - Pigmented neurofibroma (2)
Illinois (DuPage Pathology Associates) - Cellular blue nevus
Indiana (Ft. Wayne) - Cellular blue nevus, child
Iowa (University of Iowa Residents) - No answer
Kansas (Spears Pathology Labs) - Congenital nevus with nodular proliferation vs. melanoma, favor #1

Kentucky (University of Louisville Residents) - Pigmented storiform neurofibroma
Maryland (Johns Hopkins Hospital Residents) - Congenital nevus (? giant)
Maryland (National Naval Medical Center) - Cutaneous neurocristic hamartoma (5); Cellular blue nevus (5)
Maryland (University of Maryland Residents) - Dermal melanocytic hamartoma - cellular blue nevus
Maryland (Woodbine) - Melanoma (1); Malignant blue nevus (1)
Massachusetts (New England Medical Center Residents) - Extradura meningeal melanocytoma
Michigan (Oakwood Hospital) - Congenital nevus
Michigan (St. Joseph Mercy Hospital) - Neurocristic hamartoma (2); Blue nevus (2)
Nebraska (Creighton University) - Malignant blue nevus
New Jersey (Overlook Hospital) - Congenital cellular blue nevus (3)
New York (Beth Israel Medical Center Residents) - Melanocytic nerve sheath tumor
New York (LIJ Medical Center) - Congenital blue nevus
New York (Northport VAMC) - Blue nevus (2)
New York (SUNY Stony Brook University Hospital Residents) - Cellular blue nevus
North Carolina (Wake Forest University Residents) - Congenital nevus
North Carolina (WNC Pathology Group) - Blue nevus - nevus of Ota (1); Pigmented DFSP vs. nevus of Ota (1); Bednar tumor (1)
Oklahoma (Tulsa) - Cellular blue nevus
Pennsylvania (Allegheny General Hospital) - Congenital benign melanocytic lesion
Pennsylvania (Lehigh Valley Hospital) - Giant blue nevus
Australia (North Queensland Pathology Group) - Malignant pigmented neural tumor ? type
Australia (Royal Prince Alfred Hospital) - Melanophagic nevus (no mitoses)
Canada (Foothills Hospital, Calgary) - Congenital melanocytic nevus
Japan (Kawasaki Medical School Hospital, Kurashiki) - Cellular blue nevus (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Cellular blue nevus, scalp
Singapore - Cellular blue nevus

Case 4 - Diagnosis:

Neurocristic Hamartoma, Scalp

T-Y0160, M-75500

Case 4 - References:

Mezebish D, Smith K, Williams J, et al. Neurocristic Cutaneous Hamartoma. A Distinctive Dermal Melanocytosis with an Unknown Malignant Potential. *Mod Pathol* 1998; 11(6):573-578.
 Smith KJ, Mezebish D, Williams J, et al. The Spectrum of Neurocristic Cutaneous Hamartoma. Clinicopathologic and Immunohistochemical Study of Three Cases. *Ann Diagn Pathol* 1998; 2(4):213-223.
 Pearson JP, Weiss SW, et al. Cutaneous Malignant Melanotic Neurocristic Tumors Arising in Neurocristic Hamartomas. A Melanocytic Tumor Morphologically and Biologically Distinct from Common Melanoma. *Am J Surg Pathol* 1996; 20(6):665-677.
 Crowson AN, Magro CH, et al. Pilar Neurocristic Hamartoma. *J Am Acad Dermatol* 1994; 30(1):153-156.
 Smith KJ, Mezebish D, et al. The Spectrum of Neurocristic Cutaneous Hamartoma. Clinicopathologic and Immunohistochemical Study of Three Cases. *Ann Diagn Pathol* 1998; 2(4):213-223.
 Tutbrill RJ, Clark WH, Jr., Levene A, et al. Pilar Neurocristic Hamartoma. Its Relationship of Blue Nevus and Equine Melanotic Disease. *Arch Dermatol* 1982; 118(8):592-596.

Case No. 5, Accession No. 28786

April 2001

Baldwin Park (Kaiser) - Cellular blue nevus (4)
Bay Area - Cellular blue nevus (3)
Cook County Residents - Blue nevus
Irvine (UCI Medical Center Residents) - Deep penetrating blue nevus vs. cellular blue nevus
Long Beach (Lakewood Regional Medical Center) - Blue nevus (9)
Monterey (Community Hospital of Monterey Peninsula) - Cellular blue nevus
Mountain View (El Camino Pathology Group) - Blue nevus
Sacramento (UC Davis Medical Center) - Blue nevus

San Diego (Naval Medical Center) - Common blue nevus
Santa Barbara (Cottage Hospital) - Blue nevus
Santa Rosa (Memorial Hospital) - Cellular blue nevus (3)
Ventura (Unilab) - Blue nevus (2)
Alaska (Anchorage) - Deep penetrating nevus
Florida (Munroe Regional Medical Center) - Blue nevus
Florida (Pathology Associates) - Bednar tumor - Pilar neurocristic hamartoma
Florida (Winter Haven Hospital) - Blue nevus (2)
Illinois (DuPage Pathology Associates) - Cellular blue nevus
Indiana (Ft. Wayne) - Blue nevus (adult), scalp
Iowa (University of Iowa Residents) - Atypical cellular blue nevus
Kansas (Spears Pathology Labs) - Blue nevus
Kentucky (University of Louisville Residents) - Blue nevus, cellular
Maryland (Johns Hopkins Hospital Residents) - Blue nevus
Maryland (National Naval Medical Center) - Cellular blue nevus
Maryland (University of Maryland Residents) - Blue nevus
Maryland (Woodbine) - Blue nevus (2)
Massachusetts (New England Medical Center Residents) - Blue nevus (common type)
Michigan (Oakwood Hospital) - Incomplete section, suspect cellular blue nevus
Michigan (St. Joseph Mercy Hospital) - Blue nevus (4)
Nebraska (Creighton University) - Benign blue nevus
New Jersey (Overlook Hospital) - Cellular blue nevus (3)
New York (Beth Israel Medical Center Residents) - Blue nevus
New York (LIJ Medical Center) - Blue nevus
New York (Northport VAMC) - Blue nevus
New York (SUNY Stony Brook University Hospital Residents) - Blue nevus
North Carolina (Wake Forest University Residents) - Deep penetrating nevus
North Carolina (WNC Pathology Group) - Blue nevus (3)
Oklahoma (Tulsa) - Blue nevus
Pennsylvania (Allegheny General Hospital) - Cellular blue nevus
Pennsylvania (Lehigh Valley Hospital) - Blue nevus
Australia (North Queensland Pathology Group) - Cellular blue nevus
Australia (Royal Prince Alfred Hospital) - Melanophagic nevus (no mitosis)
Canada (Foothills Hospital, Calgary) - Cellular blue nevus
Japan (Kawasaki Medical School Hospital, Kurashiki) - Blue nevus (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Blue nevus, scalp
Singapore - Blue nevus

Case 5 - Diagnosis:

Blue Nevus, Scalp

T-Y0160, M-88303

Consultation: Ken Cantos, M.D., Dermatopathologist, LLUMC: “Blue nevus”.

Case 5 - References:

Sun J, Morton TH and Gowan AM. Antibody HMB-45 Identifies the Cells of Blue Nevus. An Immunohistochemical Study on Paraffin Sections. *Am J Surg Pathol* 1990; 14(8):748-751.
 King H, Temple-Camp CR, Norma S, Saxe FF, et al. Benign and Malignant Cellular Blue Nevus. A Clinicopathological Study of 30 Cases. *Am J Dermatopathol* 1988; 10(4):289-296.
 Misago N. The Relationship Between Melanocytes and Peripheral Nerve Sheath Cells (Part II). Blue Nevus with Peripheral Nerve Sheath Differentiation. *Am J Dermatopathol* 2000; 22(3):230-236.
 Harvell JD and White WL. Persistent and Recurrent Blue Nevus. *Am J Dermatopathol* 1999; 21(6):506-517.
 Bhawan J and Cao SL. Amelanotic Blue Nevus. A Variant of Blue Nevus. *Am J Dermatopathol* 1999; 21(3):225-228.

Baldwin Park (Kaiser) - Melanoma (4)
Bay Area - Malignant melanoma (? epithelioid/clear cell sarcoma) (3)
Cook County Residents - Malignant melanoma
Irvine (UCI Medical Center Residents) - Malignant melanoma
Long Beach (Lakewood Regional Medical Center) - Amelanotic malignant melanoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Melanoma
Mountain View (El Camino Pathology Group) - Anorectal melanoma
Sacramento (UC Davis Medical Center) - Melanoma
San Diego (Naval Medical Center) - Malignant melanoma
Santa Barbara (Cottage Hospital) - Melanoma, anal canal
Santa Rosa (Memorial Hospital) - Malignant melanoma (3)
Ventura (Unilab) - Malignant melanoma (2)
Alaska (Anchorage) - Malignant melanoma
Florida (Munroe Regional Medical Center) - Melanoma
Florida (Pathology Associates) - Malignant melanoma
Florida (Winter Haven Hospital) - Poorly differentiated squamous cell carcinoma (2)
Illinois (DuPage Pathology Associates) - Malignant mucosal melanoma
Indiana (Ft. Wayne) - Anaplastic neoplasm, NOS, rule out lymphoma
Iowa (University of Iowa Residents) - Malignant melanoma
Kansas (Spears Pathology Labs) - Ulcerated malignant tumor vs. adenocarcinoma vs. squamous cell carcinoma
Kentucky (University of Louisville Residents) - Carcinoma, favor sebaceous rule out melanoma
Maryland (Johns Hopkins Hospital Residents) - Favor malignant melanoma of the anal canal (would confirm with S100, HHB45 stains)
Maryland (National Naval Medical Center) - Anal melanoma
Maryland (University of Maryland Residents) - Malignant melanoma
Maryland (Woodbine) - Melanoma (1); Squamous cell carcinoma (1)
Massachusetts (New England Medical Center Residents) - Malignant melanoma
Michigan (Oakwood Hospital) - Melanoma
Michigan (St. Joseph Mercy Hospital) - Melanoma (4)
Nebraska (Creighton University) - Malignant melanoma
New Jersey (Overlook Hospital) - Malignant melanoma (3)
New York (Beth Israel Medical Center Residents) - Achromatic melanoma
New York (LIJ Medical Center) - Melanoma
New York (Northport VAMC) - Malignant melanoma (2)
New York (SUNY Stony Brook University Hospital Residents) - Amelanotic melanoma
North Carolina (Wake Forest University Residents) - Primary malignant melanoma
North Carolina (WNC Pathology Group) - Mucosal melanoma (1); Melanoma (2)
Oklahoma (Tulsa) - Malignant melanoma
Pennsylvania (Allegheny General Hospital) - Melanoma
Pennsylvania (Lehigh Valley Hospital) - Malignant melanoma
Australia (North Queensland Pathology Group) - Melanoma
Australia (Royal Prince Alfred Hospital) - Undifferentiated malignant neoplasm - ? malignant melanoma - ? pleomorphic rhabdomyosarcoma
Canada (Foothills Hospital, Calgary) - Epithelioid malignant melanoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Malignant melanoma (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Malignant melanoma, anus
Singapore - Malignant melanoma

Case 6 - Diagnosis:

Malignant Melanoma, Anus

Case No. 6 - References:

Goldman S, Glimelius B and Pahlam L. Anorectal Malignant Melanoma in Sweden. Report of 49 Patients. *Dis Colon Rectum* 1990; 33(10):874-877.
Bataskis JG and Suarez P. Mucosal Melanomas. A Review. *Adv in Anat Pathol* 2000; 7(3):167-180.
Cooper PH, Mills SE and Allen MS, Jr. Malignant Melanoma of the Anus. Report of 12 Patients and Analysis of 255 Additional Cases. *Dis Colon Rectum* 1982; 25(7):693-703.
Wanebo HJ, Woodruff JM, et al. Anorectal Melanomas. *Cancer* 1981; (47)7:1891-1900.
Klas JV, Rothenberger DA, et al. Malignant Tumors of the Anal Canal. The Spectrum of Disease, Treatment, and Outcomes. *Cancer* 1999; 85(8):1686-1693.

Case No. 7, Accession No. 29019

April 2001

Baldwin Park (Kaiser) - Melanoma, focally desmoplastic (1); Nodular melanoma (1); Melanoma or malignant nerve sheath tumor (1); Spindle cell melanoma (1)
Bay Area - Epithelioid malignant peripheral nerve sheath tumor (3)
Cook County Residents - Rule out malignant peripheral nerve sheath tumor
Irvine (UCI Medical Center Residents) - Spindle cell melanoma
Long Beach (Lakewood Regional Medical Center) - Malignant melanoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Malignant PNET
Mountain View (El Camino Pathology Group) - Desmoplastic melanoma
Sacramento (UC Davis Medical Center) - Melanoma
San Diego (Naval Medical Center) - Amelanotic spindle cell malignant melanoma
Santa Barbara (Cottage Hospital) - Melanoma, level IV
Santa Rosa (Memorial Hospital) - Malignant melanoma, spindle cell type (1); Malignant melanoma (2)
Ventura (Unilab) - Ulcerated malignant melanoma (2)
Alaska (Anchorage) - Malignant Schwannoma/neurofibrosarcoma
Florida (Munroe Regional Medical Center) - Malignant peripheral nerve sheath tumor
Florida (Pathology Associates) - Spindled malignant melanoma
Florida (Winter Haven Hospital) - Dermatofibrosarcoma protuberans (2)
Illinois (DuPage Pathology Associates) - Malignant melanoma with spindle cell features
Indiana (Ft. Wayne) - Desmoplastic (spindle cell) malignant melanoma, right shoulder
Iowa (University of Iowa Residents) - Nodular malignant melanoma
Kansas (Spears Pathology Labs) - Spindle cell tumor, melanoma vs. Schwannoma
Kentucky (University of Louisville Residents) - Spindle cell melanoma
Maryland (Johns Hopkins Hospital Residents) - Favor spindle cell/desmoplastic melanoma
Maryland (National Naval Medical Center) - Spindle cell melanoma
Maryland (University of Maryland Residents) - Malignant melanoma
Maryland (Woodbine) - Melanoma (2)
Massachusetts (New England Medical Center Residents) - Spindle cell melanoma
Michigan (Oakwood Hospital) - Melanoma
Michigan (St. Joseph Mercy Hospital) - Melanoma (4)
Nebraska (Creighton University) - Spindle cell melanoma
New Jersey (Overlook Hospital) - Malignant melanoma (amelanotic with spindle cell features)
New York (Beth Israel Medical Center Residents) - Desmoplastic melanoma
New York (LIJ Medical Center) - Melanoma
New York (Northport VAMC) - Malignant melanoma (1); Spindle cell melanoma (1)
New York (SUNY Stony Brook University Hospital Residents) - Spindle cell melanoma
North Carolina (Wake Forest University Residents) - Atypical fibroxanthoma
North Carolina (WNC Pathology Group) - Spindle cell melanoma (1); Desmoplastic melanoma (2)
Oklahoma (Tulsa) - Desmoplastic melanoma
Pennsylvania (Allegheny General Hospital) - Desmoplastic melanoma

Pennsylvania (Lehigh Valley Hospital) - Malignant melanoma
Australia (North Queensland Pathology Group) - Malignant peripheral nerve sheath tumor
Australia (Royal Prince Alfred Hospital) - Malignant spindle cell tumor; ? desmoplastic malignant melanoma/? malignant peripheral nerve sheath tumor
Canada (Foothills Hospital, Calgary) - Spindle cell melanoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Malignant melanoma (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Spindle cell malignant melanoma, shoulder
Singapore - Spindle cell melanoma

Case 7 - Diagnosis:

Spindle Cell Melanoma, Shoulder

T-Y1220, M-87723

Case 7 - References:

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 Kobayashi G and Cobb C. A Case of Amelanotic Spindle-Cell Melanoma Presenting as Metastases to Breast and Axillary Lymph Node. Diagnosis by FNA Cytology. *Diagn Cytopathol* 2000; 22(4):246-249.
 Skelton HG, Maceira J, Smith KJ, et al. HMB45 Negative Spindle Cell Malignant Melanoma. *Am J Dermatopathol* 1997; 19(6):580-584.
 Longacre TA, Egbert BM, et al. Desmoplastic and Spindle-Cell Malignant Melanoma. An Immunohistochemical Study. *Am J Surg Pathol* 1996; 20(12):1489-1500.
 Banerjee SS and Harris M. Morphological and Immunophenotypic Variations in Malignant Melanoma. *Histopathol* 2000; 36(5):387-402.

Case No. 8, Accession No. 28969

April 2001

Baldwin Park (Kaiser) - Eccrine cylindroma (4)
Bay Area - Cylindroma with aggressive features (uncertain malignant potential) (3)
Cook County Residents - Basal cell carcinoma
Irvine (UCI Medical Center Residents) - Cylindroma
Long Beach (Lakewood Regional Medical Center) - Dermal cylindroma (9)
Monterey (Community Hospital of Monterey Peninsula) - Cylindroma
Mountain View (El Camino Pathology Group) - Cylindroma
Sacramento (UC Davis Medical Center) - Cylindroma
San Diego (Naval Medical Center) - Cylindroma
Santa Barbara (Cottage Hospital) - Cylindroma
Santa Rosa (Memorial Hospital) - Cylindroma (3)
Ventura (Unilab) - Cylindroma (2)
Alaska (Anchorage) - Cylindroma
Florida (Munroe Regional Medical Center) - Cylindroma
Florida (Pathology Associates) - Cylindroma
Florida (Winter Haven Hospital) - Cylindroma (2)
Illinois (DuPage Pathology Associates) - Cylindroma
Indiana (Ft. Wayne) - Eccrine spiradenoma
Iowa (University of Iowa Residents) - Eccrine cylindroma
Kansas (Spears Pathology Labs) - Cylindroma
Kentucky (University of Louisville Residents) - Cylindroma
Maryland (Johns Hopkins Hospital Residents) - Cylindroma
Maryland (National Naval Medical Center) - Cylindroma
Maryland (University of Maryland Residents) - Cylindroma
Maryland (Woodbine) - Trichoepithelioma (2)
Massachusetts (New England Medical Center Residents) - Cylindroma
Michigan (Oakwood Hospital) - Cylindroma

Michigan (St. Joseph Mercy Hospital) - Cyndroma (4)
Nebraska (Creighton University) - Dermal cyndroma
New Jersey (Overlook Hospital) - Cyndroma (3)
New York (Beth Israel Medical Center Residents) - Cyndroma
New York (LIJ Medical Center) - Cyndroma
New York (Northport VAMC) - Eccrine cyndroma (1); Dermal cyndroma (1)
New York (SUNY Stony Brook University Hospital Residents) - Cyndroma
North Carolina (Wake Forest University Residents) - Cyndroma
North Carolina (WNC Pathology Group) - Cyndroma (3)
Oklahoma (Tulsa) - Cyndroma
Pennsylvania (Allegheny General Hospital) - Cyndroma
Pennsylvania (Lehigh Valley Hospital) - Cyndroma
Australia (North Queensland Pathology Group) - Cyndroma
Australia (Royal Prince Alfred Hospital) - Dermal eccrine cyndroma
Canada (Foothills Hospital, Calgary) - Cyndroma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Dermal cyndroma (4)
Saudi Arabia (King Khalid University Hospital Study Group) - Cyndroma, right shoulder
Singapore - Cyndroma

Case 8 - Diagnosis:

Cyndroma, Shoulder

T-Y1220, M-82003

Case 8 - References:

Cotton DW and Braye SG. Dermal Cyndromas Originate from the Eccrine Sweat Gland. *Br J Dermatol* 1984; 111(1):53-61.
 Tellechae O, Reis JP, et al. Dermal Cyndroma. An Immunohistochemical Study of Thirteen Cases. *Am J Dermatol* 1995; 17(3):260-265.
 van der Putte SC. The Pathogenesis of Familial Multiple Cyndromas, Trichoepitheliomas, Milia and Spiradenomas. *Am J Dermatol* 1995; 17(3):271-280.
 Cardenas AA, Norton SA, et al. Solitary Violaceous Nodule on the Face. Dermal Cyndroma (Also Known as Cyndroma, Dermal Eccrine Cyndroma, Spiegler's Tumor, Turban Tumor, and Tomato Tumor). *Arch Dermatol* 1993; 129(4):498-501.
 Penneys NS and Kaiser M. Cyndroma Expresses Immunohistochemical Markers Linking it to Eccrine Coil. *J Cutan Pathol* 1993; 20(1):40-43.

Case No. 9, Accession No. 28902

April 2001

Baldwin Park (Kaiser) - Plexiform neurofibroma (1); Ancient Schwannoma (1); Neural lesion (1); Angiomyofibroblastoma (1)
Bay Area - Nodular fasciitis (cannot rule out inflammatory pseudotumor or myxoid cellular neurofibroma)
Cook County Residents - Neurofibroma
Irvine (UCI Medical Center Residents) - Ancient neurofibroma
Long Beach (Lakewood Regional Medical Center) - Neurofibroma (9)
Monterey (Community Hospital of Monterey Peninsula) - Ancient Schwannoma
Mountain View (El Camino Pathology Group) - Low grade fibromyxoid sarcoma
Sacramento (UC Davis Medical Center) - Neurofibrosarcoma
San Diego (Naval Medical Center) - Malignant peripheral nerve sheath tumor (11); Epithelioid hemangioendothelioma (2)
Santa Barbara (Cottage Hospital) - Neurofibroma
Santa Rosa (Memorial Hospital) - Diffuse neurofibroma with degenerative changes, rule out malignant nerve sheath tumor (1); Malignant nerve sheath tumor (1); Malignant mesenchymal tumor, probable nerve sheath sarcoma (1)
Ventura (Unilab) - Ulcerated neurofibroma (2)
Alaska (Anchorage) - Myxoid neurofibroma
Florida (Munroe Regional Medical Center) - Nodular fasciitis
Florida (Pathology Associates) - Neurofibroma
Florida (Winter Haven Hospital) - Neurofibroma (2)
Illinois (DuPage Pathology Associates) - Ganglioneuroma

Indiana (Ft. Wayne) - Angiofibroma, back
Iowa (University of Iowa Residents) - Neurofibroma
Kansas (Spears Pathology Labs) - Schwannoma (1); Neurofibroma (2)
Kentucky (University of Louisville Residents) - Nerve sheath neoplasm, benign, favor Schwannoma
Maryland (Johns Hopkins Hospital Residents) - Neurofibroma
Maryland (National Naval Medical Center) - Ancient Schwannoma
Maryland (University of Maryland Residents) - Neurofibroma
Maryland (Woodbine) - Neurofibroma (2)
Massachusetts (New England Medical Center Residents) - Combined neurofibroma and giant cell fibroblastoma
Michigan (Oakwood Hospital) - Neurofibroma with degenerative areas, no malignant transformation
Michigan (St. Joseph Mercy Hospital) - Neurofibroma (4)
Nebraska (Creighton University) - Nodular fasciitis
New Jersey (Overlook Hospital) - Neurofibroma (1) Neurogenic neoplasm, rule out desmoplastic melanoma (2)
New York (Beth Israel Medical Center Residents) - Neurofibroma
New York (LIJ Medical Center) - Neurofibroma
New York (Northport VAMC) - No answer (1); Neurofibroma (1)
New York (SUNY Stony Brook University Hospital Residents) - Neurofibroma
North Carolina (Wake Forest University Residents) - Schwannoma
North Carolina (WNC Pathology Group) - Neurofibroma (3)
Oklahoma (Tulsa) - Neurofibroma with cystic degeneration
Pennsylvania (Allegheny General Hospital) - Neurofibroma
Pennsylvania (Lehigh Valley Hospital) - Schwannoma
Australia (North Queensland Pathology Group) - Neurofibroma with degenerate change
Australia (Royal Prince Alfred Hospital) - (1) Low grade fibromyxoid sarcoma; (2) ? myxofibrous sarcoma (3) Malignant peripheral nerve sheath tumor
Canada (Foothills Hospital, Calgary) - Kaposi's sarcoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Neurofibroma (3); Schwannoma (1)
Saudi Arabia (King Khalid University Hospital Study Group) - Hemangioendothelioma, back
Singapore - Neurofibrosarcoma

Case 9 - Diagnosis:

Myxoid Neurofibroma, Back

Director's Note: This patient was known to have von Recklinghausen's disease. (drc)

T-Y1100, M-95400

Case 9 - References:

Megahed M. Histopathological Variants of Neurofibroma. A Study of 114 Lesion. *Am J Dermatopathol* 1994; 16(5):486-495.
 Carr NJ and Warren AY. Mast Cell Numbers in Melanocytic Naevi and Cutaneous Neurofibromas. *J Clin Pathol* 1993; 46(1):86-87.
 Skuse GR, Kosciolk BA, et al. The Neurofibroma in von Recklinghausen Neurofibromatosis has a Unicellular Origin. *Am J Hum Genet* 1991; 49(3):600-607.
 Chanoki M, Ishii M, Fukai K, et al. Immunohistochemical Localization of Type I, III, IV, and VI Collagens and Laminin in Neurofibroma and Neurofibrosarcoma. *Am J Dermatopathol* 1991; 13(4):365-373.
 Lin BT, Weiss LM, et al. Neurofibroma and Cellular Neurofibroma with Atypia. A Report of 14 Tumors. *Am J Surg Pathol* 1999; 23(9):1156-1158.
 Khalifa MA, Montgomery EA, et al. What Are the CD34+ Cells in Benign Peripheral Nerve Sheath Tumors? Double Immunostaining Study of CD34 and S-100 Protein. *Am J Clin Pathol* 2000; 114(1):123-126.

Case No. 10, Accession No. 27858

April 2001

Baldwin Park (Kaiser) - Adult rhabdomyoma (1); AFX vs. malignant melanoma (1); Melanoma, nodular (1); Epithelioid malignant melanoma vs. atypical fibroxanthoma (1)
Bay Area - Atypical fibroxanthoma (2); Giant cell reticulohistiocytoma (1)
Cook County Residents - Superficial malignant fibrous histiocytoma

Irvine (UCI Medical Center Residents) - Atypical fibroxanthoma with osteoclastic giant cells
Long Beach (Lakewood Regional Medical Center) - Atypical fibroxanthoma (9)
Monterey (Community Hospital of Monterey Peninsula) - Melanoma
Mountain View (El Camino Pathology Group) - Atypical fibroxanthoma
Sacramento (UC Davis Medical Center) - Atypical fibroxanthoma
San Diego (Naval Medical Center) - Atypical fibrous xanthoma
Santa Barbara (Cottage Hospital) - Atypical fibroxanthoma
Santa Rosa (Memorial Hospital) - Atypical fibroxanthoma (1); Xanthosarcoma (malignant fibrous histiocyte) (1); Atypical fibrous xanthoma vs. malignant fibrous histiocyte (1)
Ventura (Unilab) - Atypical fibroxanthoma
Alaska (Anchorage) - Pleomorphic rhabdomyosarcoma
Florida (Munroe Regional Medical Center) - Atypical fibroxanthoma
Florida (Pathology Associates) - Atypical fibroxanthoma
Florida (Winter Haven Hospital) - Atypical fibroxanthoma (2)
Illinois (DuPage Pathology Associates) - Malignant giant cell tumor of soft parts vs. anaplastic carcinoma
Indiana (Ft. Wayne) - Giant cell reticulohistiocyte, skin, eyebrow
Iowa (University of Iowa Residents) - High grade sarcoma, probable malignant fibrous histiocyte
Kansas (Spears Pathology Labs) - Atypical fibroxanthoma
Kentucky (University of Louisville Residents) - Atypical fibroxanthoma
Maryland (Johns Hopkins Hospital Residents) - Favor atypical fibroxanthoma (would perform S-100, HMB45 stains to rule out melanoma)
Maryland (National Naval Medical Center) - Pleomorphic malignant fibrous histiocyte (5); Angiosarcoma (3); Atypical fibroxanthoma (2)
Maryland (University of Maryland Residents) - Atypical fibroxanthoma
Maryland (Woodbine) - Malignant fibrous histiocyte (2)
Massachusetts (New England Medical Center Residents) - Atypical fibroxanthoma
Michigan (Oakwood Hospital) - Malignant sarcoma vs. metaplastic carcinoma
Michigan (St. Joseph Mercy Hospital) - Atypical fibroxanthoma (4)
Nebraska (Creighton University) - Atypical fibroxanthoma
New Jersey (Overlook Hospital) - Atypical fibroxanthoma (1); Malignant fibrous histiocyte (2)
New York (Beth Israel Medical Center Residents) - Atypical fibroxanthoma
New York (LIJ Medical Center) - Atypical fibroxanthoma
New York (Northport VAMC) - High grade pleomorphic sarcoma, NOS (malignant fibrous histiocyte?) (1); Atypical fibroxanthoma (superficial malignant fibrous histiocyte) (1)
New York (SUNY Stony Brook University Hospital Residents) - Reticulohistiocyte
North Carolina (Wake Forest University Residents) - Anaplastic large cell lymphoma
North Carolina (WNC Pathology Group) - Atypical fibroxanthoma (3)
Oklahoma (Tulsa) - Atypical fibroxanthoma
Pennsylvania (Allegheny General Hospital) - Atypical fibroxanthoma
Pennsylvania (Lehigh Valley Hospital) - Reticulohistiocytosis
Australia (North Queensland Pathology Group) - Atypical fibroxanthoma
Australia (Royal Prince Alfred Hospital) - Atypical fibroxanthoma (classical type)
Canada (Foothills Hospital, Calgary) - Atypical fibroxanthoma
Japan (Kawasaki Medical School Hospital, Kurashiki) - Atypical fibroxanthoma (3); Balloon cell melanoma (1)
Saudi Arabia (King Khalid University Hospital Study Group) - Atypical fibroxanthoma, eyebrow
Singapore - Atypical fibroxanthoma

Case 10 - Diagnosis:

Atypical Fibroxanthoma (AFX), Peri-Orbital Skin

Director's Note: Tumor was negative for cytokeratin cocktail, S-100, HMB-45, and actin. (drc)
 T-XX000, M-88303

Case 10 - References:

- Fretzin DF and Helwig EB. Atypical Fibroxanthoma of the Skin. A Clinicopathologic Study of 140 Cases. *Cancer* 1973; 31(6):1541-1552.
- Longacre TA, Smoller BR and Rouse RV. Atypical Fibroxanthoma. Multiple Immunohistologic Profiles. *Am J Surg Pathol* 1993; 1199-1209.
- Calonje E, Wadden C, Wilson-Jones E, et al. Spindle Cell Non-Pleomorphic Atypical Fibroxanthoma. An Analysis of a Series and Delineation of a Distinctive Variant. *Histopathol* 1993; 22(3):247-254.
- Heintz PW and White CR. Diagnosis. Atypical Fibroxanthoma or Not? Evaluating Spindle Cell Malignancies on Sun Damaged Skin. A Practical Approach. *Semin Cutan Ed Surg* 1999; 18(1):78-83.
- Tomaszewski MM and Lupton GP. Atypical Fibroxanthoma. An Unusual Variant with Osteoclast-Like Giant Cells. *Am J Surg Pathol* 1997; 21(11):1393.
- Lazova R, Moynes R, et al. LN-2 (CD74). A Marker to Distinguish Atypical Fibroxanthoma from Malignant Fibrous Histiocytoma. *Cancer* 1997; 79(11):2115-2124.