

1327



CALIFORNIA  
TUMOR TISSUE REGISTRY

**“GENERAL PATHOLOGY”**  
**Study Cases, Subscription B**

**March 2003**



**California Tumor Tissue Registry**  
**c/o: Department of Pathology and Human Anatomy**  
**Loma Linda University School of Medicine**  
**11021 Campus Avenue, AH 335**  
**Loma Linda, California 92350**  
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**Web site & Case of the Month: [www.cttr.org](http://www.cttr.org)**

**Target audience:**

Practicing pathologists and pathology residents.

**Goal:**

To acquaint the participant with the histologic features of a variety of benign and malignant neoplasms and tumor-like conditions.

**Objectives:**

The participant will be able to recognize morphologic features of a variety of benign and malignant neoplasms and tumor-like conditions and relate those processes to pertinent references in the medical literature.

**Educational methods and media:**

Review of representative glass slides with associated histories.  
Feedback on consensus diagnoses from participating pathologists.  
Listing of selected references from the medical literature.

**Principal faculty:**

Weldon K. Bullock, MD  
Donald R. Chase, MD

**CME Credit:**

Loma Linda University School of Medicine designates this continuing medical education activity for up to 2 hours of Category I of the Physician's Recognition Award of the American Medical Association.  
CME credit is offered for the subscription year only.

**Accreditation:**

Loma Linda University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to sponsor continuing medical education for physicians.

**Contributor: Paul Thompson, M.D.  
Pasadena, CA**

**Case No. 1 - March 2003**

**Tissue from: Ankle**

**Accession #13929**

**Clinical Abstract:**

This 10-year-old female was born with a giant hairy 'swimming trunk' nevus, as well as multiple nevi of face, extremities, trunk and perineum. From age 1 year onward, she had undergone multiple excisions of nevi. At age 10 she underwent further resection of a partially resected lesion on her ankle.

**Gross Pathology:**

The 6.0 x 3.0 x 0.5 cm ellipse of skin had a coarse 'pigskin' appearance with numerous long dark hairs.

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**Contributor: LLUMC Pathology Group (mtm)  
Loma Linda, CA**

**Case No. 2 - March 2003**

**Tissue from: Left cheek**

**Accession #27679**

**Clinical Abstract:**

Eight years after surgery and radiation for a laryngeal carcinoma, this 72-year-old male developed two masses in the left cheek. A wide excision was performed.

**Gross Pathology:**

The 6.0 x 2.5 x 2.0 cm light tan skin ellipse had a 1.2 cm central region of brown ulceration with an underlying 1.9 cm nodule.

**SPECIAL STUDIES**

S100	strongly positive
Vimentin	strongly positive
Keratin cocktail	negative
HMB45	negative

**Contributor: LLUMC Pathology Group (bhl)**  
**Loma Linda, CA**

**Case No. 3 - March 2003**

**Tissue from: Vulva**

**Accession #27314**

**Clinical Abstract:**

Following one year of vaginal and vulvar pruritis, this is a 75-year-old female underwent biopsy, followed by a radical vulvectomy.

**Gross Pathology:**

The 85.4 gram, 14.0 x 11.0 cm vulvar resection specimen had a 5.5 x 2.0 cm white tan atrophic area.

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**Contributor: James Tenney, M.D.**  
**Mammoth Lakes, CA**

**Case No. 4 - March 2003**

**Tissue from: Left chest**

**Accession #29602**

**Clinical Abstract:**

This 46-year-old male developed a cystic mass on his left chest wall.

**Gross Pathology:**

Specimen consisted of multiple granular tan to white chalky tissue fragments, forming a 5.0 x 5.0 x 1.0 cm aggregate.

**Contributor: Fred Preuss, M.D.**  
**Duarte, CA**

**Case No. 5 - March 2003**

**Tissue from: Skin of forearm**

**Accession #8045**

**Clinical Abstract:**

This 52-year-old male worked as a gardener and had a history of developing raised nodules on his forearm when he sprayed plants with insecticide. Usually the lesions healed spontaneously, leaving small scars. One of the nodules did not regress and was excised after six weeks.

**Gross Pathology:**

The 10.0 x 8.0 cm triangular-shaped piece of skin had a central raised ulcerated gray-white nodule, which apparently arose by coalescence of three separate lesions.

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**Contributor: Raymond Peterson, M.D.**  
**Santa Ana, CA**

**Case No. 6 - March 2003**

**Tissue from: Right hand**

**Accession #17843**

**Clinical Abstract:**

This 48-year-old male had a callous on the hypothenar eminence of his right hand that, for 18 months, was often irritated by use of a lever at work. When the callous became ulcerated and infected, he underwent biopsy, followed by a partial amputation of the right hand.

**Gross Pathology:**

The partially amputated right hand included a 2.0 cm diameter ulcer involving the skin of the hypothenar eminence. When the ulcer was transected, an associated mass appeared to penetrate the underlying muscles.

**Contributor: John Gmelich, M.D.**  
**Pasadena, CA**

**Case No. 7 - March 2003**

**Tissue from: Left cheek**

**Accession #27056**

**Clinical Abstract:**

A mass developed in the upper left cheek of this 51-year-old female.

**Gross Pathology:**

A 74 gram ellipse of skin and underlying muscle had a 4.5 x 4.5 cm raised nodule.

**Special Studies:**

NSE	positive
CK 20	positive (dot-like pattern)

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**Contributor: Howard E. Otto, M.D.**  
**Cheboygan, MI**

**Case No. 8 - March 2003**

**Tissue from: Thigh**

**Accession #27338**

**Clinical Abstract:**

Shortly after blunt trauma to the area, this 39-year-old female developed a mass in her left thigh. After six years ago, without significant enlargement or symptoms, she presented for a cosmetic resection.

**Gross Pathology:**

The 2.5 x 0.8 cm ellipse of skin had a 3.0 x 2.3 x 2.6 cm gray nodule with a homogenous and fibrous cut surface.

**Contributor: Marthe E. Smith, M.D.**  
**San Francisco, CA**

**Case No. 9 - March 2003**

**Tissue from: Great toe**

**Accession #13715**

**Clinical Abstract:**

Two years after developing a large hematoma on the plantar aspect of her right great toe, this 56-year-old female complained that the resultant mass had become firmer and was interfering with walking. There was no pain and no change in size or shape.

**Gross Pathology:**

The 3.3 x 2.3 x 1.5 cm disc of rubbery firm tissue had a central cystic region that contained dark brown sanguinous material.

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**Contributor: Donna Kell, M.D.**  
**Santa Barbara, CA**

**Case No. 10 - March 2003**

**Tissue from: Right buttock**

**Accession #29474**

**Clinical Abstract:**

This 63-year-old female developed a large mass in the subcutaneous tissue of her right buttock. She had a past history of both ovarian and rectal carcinoma, dates unknown.

**Gross Pathology:**

The 2.5 x 2.0 x 3.0 cm well-circumscribed tan mass was fixed to the overlying skin. The cut surface had a lobular appearance with an irregular 0.7 cm area of hemorrhage and eccentric areas of chalky yellow necrosis.



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“GENERAL PATHOLOGY”

Minutes – Subscription B

March, 2003



**SUGGESTED READING (General Topics from Recent Literature):**

- Simple Clefts, Complex Problems: Reflections of Glandular Lesions of the Uterine Cervix. Young RH. *Int J Gynecol Pathol*, 2002 July; 21(3):216-222.
- Central Zone Histology of the Prostate: A Mimicker of High Grade Prostatic Intraepithelial Neoplasia. Srodon M, Epstein JI. *Human Pathol*, 2002 May; 33(5):518-527.
- Genetics of Synchronous Uterine and Ovarian Endometrioid Carcinoma: Combined Analysis of Loss of Heterozygosity, *PTEN* Mutation and Microsatellite Instability. *Hum Pathol*, 2002 Apr; 33(4):421-428.
- Pathology-Medicine's Search for Meaning in the New Millennium. Editorial. Hardwick DF. *Human Pathol*, 2002 January; 33(1):1.
- Glivec (STI571, Imatinib): A Rationally Developed, Targeted Anticancer Drug. Capdeville R, Buchdunger E, Zimmermann J, Matter A. *Nature Review*, 2002 July; 1(7):493-502.

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## FILE DIAGNOSES

CTTR Subscription B

March, 2003

**Case 1:**

**Congenital intradermal nevus, ankle**

**T-02840, M-87500**

**Case 2:**

**Desmoplastic "spindle cell" melanoma, cheek**

**T-02121, M-87723**

**Case 3:**

**Paget's Disease ("extra-mammary Paget's Disease"), vulva**

**T-80100, M-85423**

**Case 4:**

**Pilomatrxoma ("calcifying epithelioma of Malherbe"), chest wall**

**T-Y2150, M-81100**

**Case 5:**

**Keratoacanthoma (well-differentiated squamous cell carcinoma,  
keratoacanthomatous subtype), hand**

**T-02650, M-72860**

**Case 6:**

**Squamous cell carcinoma, likely viral-related, hand**

**T-02650, M-80703**

**Case 7:**

**Merkel cell (neuroendocrine) carcinoma, cheek**

**T-02121, M-80416**

**Case 8:**

**Dermatofibrosarcoma protuberans (DFSP), thigh**

**T-02810, M-88323**

**Case 9:**

**Clear cell hidradenoma, toe**

**T-02990, M-84020**

**Case 10:**

**Sebaceous carcinoma, buttock**

**T-02471, M-84103**

**Case No. 1, Accession No. 13929**

Escondido - Intradermal nevus, congenital pattern, with neurotization  
Glendale (Glendale Pathology Association) - Intradermal nevus with neurotization  
Loma Linda - Congenital Nevus  
Modesto (Yosemite Pathology Medical Group) - Giant congenital nevus  
Orange (UCI Medical Center Residents) - Intradermal nevus with congenital features  
Sacramento (UC Davis Medical Center) - Congenital melanocytic nevus, deep type (congenital hairy nevus)  
San Diego (Naval Medical Center) - Congenital nevus  
Alabama (Cunningham Pathology) - Congenital nevocellular nevus  
Arizona (Phoenix Memorial Hospital) - Congenital melanocytic nevus  
Colorado, Denver - Neurotizing intradermal nevus  
Florida (Winter Haven Hospital) - Congenital nevus  
Florida, Miami - Non-giant intradermal congenital nevus  
Florida, Ocala - Congenital nevus  
Georgia, Decatur - Dermal nevus with congenital features and neurotization  
Illinois (Heartland Regional Medical Center) - Congenital intradermal nevus  
Indiana, Fort Wayne - Congenital nevus, ankle  
Kansas (Coffeyville Regional Medical Center) - Giant intradermal nevus  
Kansas (Kansas University Medical Center) - Congenital hairy nevus  
Louisiana, Metairie - Intradermal nevus  
Maryland (National Naval Medical Center) - Congenital hairy nevus  
Maryland (University of Maryland Medical Center) - Congenital dermal nevus  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - (Congenital) dermal nevus  
Michigan (St. Joseph Mercy Hospital) - Congenital nevus  
Nebraska (Good Samaritan Hospital) - Dermal melanocytic nevus, congenital type  
Nevada, Las Vegas - Benign intradermal congenital type nevus  
New Mexico (University of New Mexico) - Congenital nevus  
New York (Nassau University Medical Center) - Congenital nevus  
New York (Westchester Medical Center) - Giant congenital melanocytic nevus  
Ohio (Medical College of Ohio) - Congenital intradermal nevus  
Ohio, Columbus - Nevus with congenital features  
Pennsylvania (Allegheny General Hospital) - Giant congenital nevus  
Pennsylvania (Memorial Medical Center) - Compound congenital nevus  
Pennsylvania (Magee Women's Hospital) - Congenital nevus  
Pennsylvania, Pittsburgh - Giant congenital nevus, predominantly dermal  
Texas (Scott & White Hospital) - Congenital nevus  
Texas, Houston - Intradermal melanocytic nevus  
Texas, Lubbock - Congenital nevus  
Texas, San Antonio - Congenital nevus  
Washington, D.C. - Intradermal nevus, congenital type  
Canada (CUSL, Site Fleurimont) - Congenital melanocytic nevus  
China (Sir Run Run Shaw Hospital) - Intradermal nevus  
Japan (Hamamatsu University School of Medicine) - Intradermal nevus  
Japan (Shimada City Hospital) - Congenital nevus  
Japan (Gunma University Hospital) - Congenital melanocytic nevus  
Japan (Saiseikai Shiga Hospital) - Nevus cell nevus, intradermal nevus  
Puerto Rico (University of Puerto Rico) - Congenital intradermal nevus  
Qatar, Doha - Congenital intradermal nevus  
Spain (Povisa) - Naevi giant hairy  
The Netherlands, Amstelveen - Congenital nevus + neuroid features

**Case 1 - Diagnosis:****Congenital intradermal nevus, ankle****T-02840, M-87500****Case 1 - References:**

- Evans MJ, Sanders DS, Grant JH, Blessing K: Expression of Melan-A in Spitz, Pigmented Spindle Cell Nevi, and Congenital Nevi: Comparative Immunohistochemical Study. *Pediatr Dev Pathol*, 2000 Jan-Feb; 3(1):36-9.  
 Gosain AK, Santoro TD, Larson DL, Gingsass RP: Giant Congenital Nevi: A 20-Year Experience and An Algorithm For Their Management. *Plast Reconstr Surg*, 2001 Sep 1; 108(3):622-36.  
 Bittencourt FV, Marghoob AA, Kopf AW, et al: Large Congenital Melanocytic Nevi and the Risk For Development of Malignant Melanoma and Neurocutaneous Melanocytosis. *Pediatrics*, 2000 Oct; 106(4):736-41.

**Case No. 2, Accession No. 27679**

**March 2003**

- Escondido - Melanoma  
Glendale (Glendale Pathology Association) - Melanoma  
Loma Linda - Neurofibroma  
Modesto (Yosemite Pathology Medical Group) - Nodular spindle cell melanoma  
Orange (UCI Medical Center Residents) - Malignant melanoma  
Sacramento (UC Davis Medical Center) - Malignant fibrous histiocytoma  
San Diego (Naval Medical Center) - Spindle cell malignant melanoma  
Alabama (Cunningham Pathology) - Desmoplastic melanoma  
Arizona (Phoenix Memorial Hospital) - Spindle cell melanoma  
Colorado, Denver - Dermatofibrosarcoma protuberans  
Florida (Winter Haven Hospital) - Melanoma  
Florida, Miami - Malignant fibrohistiocytoma vs. dermatofibrosarcoma protuberans  
Florida, Ocala - Malignant melanoma  
Georgia, Decatur - Malignant peripheral nerve sheath tumor  
Illinois (Heartland Regional Medical Center) - Spindle cell malignant neoplasm, favor desmoplastic melanoma  
Indiana, Fort Wayne - Desmoplastic melanoma, left cheek  
Kansas (Coffeyville Regional Medical Center) - Sarcoma  
Kansas (Kansas University Medical Center) - Desmoplastic melanoma  
Louisiana, Metairie - Pleomorphic liposarcoma  
Maryland (National Naval Medical Center) - Desmoplastic melanoma (4), malignant peripheral nerve sheath tumor (8)  
Maryland (University of Maryland Medical Center) - Malignant melanoma  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Spindle cell melanoma  
Michigan (St. Joseph Mercy Hospital) - Desmoplastic melanoma  
Nebraska (Good Samaritan Hospital) - Desmoplastic melanoma  
Nevada, Las Vegas - Desmoplastic melanoma  
New Mexico (University of New Mexico) - Malignant peripheral nerve sheath tumor  
New York (Nassau University Medical Center) - Malignant peripheral nerve sheath tumor vs Malignant melanoma, spindle cell type  
New York (Westchester Medical Center) - Spindle cell melanoma  
Ohio (Medical College of Ohio) - Malignant spindle cell neoplasm consistent with metastatic desmoplastic/spindle cell melanoma vs. malignant peripheral nerve sheath tumor (MPNST)  
Ohio, Columbus - Melanoma with desmoplastic features  
Pennsylvania (Allegheny General Hospital) - Desmoplastic melanoma  
Pennsylvania (Memorial Medical Center) - Dermatofibrosarcoma protuberans/malignant peripheral nerve sheath tumor  
Pennsylvania (Magee Women's Hospital) - Desmoplastic melanoma  
Pennsylvania, Pittsburgh - Atypical fibroxanthoma  
Texas (Scott & White Hospital) - Spindle cell malignancy  
Texas, Houston - Peripheral nerve sheath tumor, malignant  
Texas, Lubbock - Malignant neurofibroma  
Texas, San Antonio - Malignant peripheral nerve sheath tumor (MPNST)  
Washington, D.C. - Neurogenic tumor, post-radiation  
Canada (CUSI, Site Fleurimont) - Malignant peripheral nerve sheath tumor (MPNST)  
China (Sir Run Run Shaw Hospital) - Myofibroblastoma  
Japan (Hamamatsu University School of Medicine) - Malignant peripheral nerve sheath tumor  
Japan (Shimada City Hospital) - Atypical fibroxanthoma  
Japan (Gunma University Hospital) - Desmoplastic malignant melanoma  
Japan (Saiseikai Shiga Hospital) - Sclerosing liposarcoma  
Japan, Chiba - Malignant peripheral nerve sheath tumor  
Puerto Rico (University of Puerto Rico) - Malignant peripheral nerve sheath tumor  
Qatar, Doha - Post-irradiation malignant peripheral nerve sheath tumor (MPNST)  
Spain (Povisa) - Primary malignant tumors of peripheral nerve due to ionizing radiation  
The Netherlands, Amstelveen - Sarcoma, NOS

**Case 2 - Diagnosis:**

**Desmoplastic "spindle cell" melanoma, cheek  
T-02121, M87223**

### Case 2 - References:

- Thelmo MC, Sagebiel RW, Treseler PA, et al: Evaluation of Sentinel Lymph Node Status in Spindle Cell Melanomas. *J Am Acad Dermatol*, 2001 Mar; 44(3):451-5.
- Hoang MP, Selim MA, Bentley RC, et al: CD34 Expression in Desmoplastic Melanoma. *J Cutan Pathol*, 2001 Nov; 28(10):508-12.
- Jaroszewski DE, Pockaj BA, DiCaudo DJ, Bite U: The Clinical Behavior of Desmoplastic Melanoma. *Am J Surg*, 2001 Dec; 182(6):590-5.
- Robson A, Allen P, Hollowood K: S100 Expression in Cutaneous Scars: A Potential Diagnostic Pitfall in the Diagnosis of Desmoplastic Melanoma. *Histopathology*, 2001 Feb; 38(2):135-40.
- Kaneishi NK, Cockerell CJ: Histologic Differentiation of Desmoplastic Melanoma From Cicatrices. *Am J Dermatopathol*, 1998 Apr; 20(2):128-34.
- Skelton HG, Maceira J, Smith KJ, et al: HMB-45 Negative Spindle Cell Malignant Melanoma. *Am J Dermatopathol*, 1997 Dec; 19(6):580-4.

### Case No. 3, Accession No. 27314

March 2003

#### Escondido - Paget's Disease

Glendale (Glendale Pathology Association) - Extra-mammary Paget's Disease

Loma Linda - Extra-mammary Paget's Disease

Modesto (Yosemite Pathology Medical Group) - Paget's Disease

Orange (UCI Medical Center Residents) - Extra-mammary Paget's Disease

Sacramento (UC Davis Medical Center) - Vulvar Paget's Disease

San Diego (Naval Medical Center) - Extra-mammary Paget's Disease

Alabama (Cunningham Pathology) - Extra-mammary Paget's Disease

Arizona (Phoenix Memorial Hospital) - Paget's Disease of vulva

Colorado, Denver - Extra-mammary Paget's Disease

Florida (Winter Haven Hospital) - Paget's Disease

Florida, Miami - Paget's Disease

Florida, Ocala - Paget's Disease of vulva

Georgia, Decatur - Paget's Disease of the vulva

Illinois (Heartland Regional Medical Center) - Paget's Disease of vulva

Indiana, Fort Wayne - Vulvar Paget's Disease

Kansas (Coffeyville Regional Medical Center) - Paget's Disease of vulva

Kansas (Kansas University Medical Center) - Extra-mammary Paget's Disease

Louisiana, Metairie - Paget's Disease

Maryland (National Naval Medical Center) - Extra-mammary Paget's Disease (12)

Maryland (University of Maryland Medical Center) - Paget's Disease

Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Paget's Disease

Michigan (St. Joseph Mercy Hospital) - Paget's Disease

Nebraska (Good Samaritan Hospital) - Extra-mammary Paget's Disease

Nevada, Las Vegas - Extra-mammary Paget's

New Mexico (University of New Mexico) - Paget's Disease

New York (Nassau University Medical Center) - Extra-mammary Paget's Disease

New York (Westchester Medical Center) - Extra-mammary Paget's Disease, vulva

Ohio (Medical College of Ohio) - Extra-mammary Paget's Disease

Ohio, Columbus - Paget's Disease

Pennsylvania (Allegheny General Hospital) - Extra-mammary Paget's Disease

Pennsylvania (Memorial Medical Center) - Paget's Disease

Pennsylvania (Magee Women's Hospital) - Paget's Disease

Pennsylvania, Pittsburgh - Extra-mammary Paget's Disease

Texas (Scott & White Hospital) - Extra-mammary Paget's Disease

Texas, Houston - Paget's Disease

Texas, Lubbock - Superficial spreading melanoma

Texas, San Antonio - Paget's

Washington, D.C. - Extra-mammary Paget's Disease

Canada (CUSI, Site Fleurimont) - Paget's Disease

China (Sir Run Run Shaw Hospital) - Paget's Disease

Japan (Hamamatsu University School of Medicine) - Malignant melanoma

Japan (Shimada City Hospital) - Superficial spreading melanoma

Japan (Gunma University Hospital) - Paget's disease

Japan (Saiseikai Shiga Hospital) - Extra-mammary Paget's Disease  
Japan, Chiba - Paget's Disease of vulva  
Puerto Rico (University of Puerto Rico) - Paget's disease of vulva/melanoma in-situ  
Qatar, Doha - Paget's Disease of vulva  
Spain (Povisa) - Extra-mammary Paget's Disease  
The Netherlands, Amstelveen - Differential Diagnosis: Paget's Disease of Vulva or Malignant Melanoma in-situ.

### **CASE 3 - Diagnosis:**

**Paget's Disease ("extra-mammary Paget's Disease"), vulva  
T-80100, M-85423**

### **Case 3 - References:**

van der Putte SC: Mammary-Like Glands of the Vulva and Their Disorders. *Int J Gynecol Pathol*, 1994 Apr; 13(2):150-60.  
Parker LP, Parker JR, Bodurka-Bervers D, et al: Paget's Disease of the Vulva: Pathology, Pattern of Involvement, and Prognosis. *Gynecol Oncol*, 2000 Apr; 77(1):183-9.  
Crawford D, Nimmo M, Clement PB, et al: Prognostic Factors in Paget's Disease of the Vulva: A Study of 21 Cases. *Int J Gynecol Pathol*, 1999 Oct; 18(4):351-9.  
Diaz de Leon E, Carcangiu ML, Prieto VG, et al: Extra-Mammary Paget Disease is Characterized by the Consistent Lack of Estrogen and Progesterone Receptors But Frequently Expresses Androgen Receptor. *Am J Clin Pathol*, 2000 Apr; 113(4):572-5.

### **Case No. 4, Accession No. 29602**

**March 2003**

Escondido - Pilomatricoma  
Glendale (Glendale Pathology Association) - Pilomatricoma  
Loma Linda - Calcifying (mummifying epithelioma of Malherbe)  
Modesto (Yosemite Pathology Medical Group) - Pilomatricoma  
Orange (UCI Medical Center Residents) - Pilomatricoma  
Sacramento (UC Davis Medical Center) - Pilomatricoma  
San Diego (Naval Medical Center) - Pilomatricoma  
Alabama (Cunningham Pathology) - Pilomatricoma  
Arizona (Phoenix Memorial Hospital) - Pilomatricoma (Calcifying epithelioma of Malherbe)  
Colorado, Denver - Calcifying epithelioma of Malherbe  
Florida (Winter Haven Hospital) - Pilomatricoma  
Florida, Miami - Pilomatricoma  
Florida, Ocala - Pilomatricoma  
Georgia, Decatur - Pilomatricoma  
Illinois (Heartland Regional Medical Center) - Pilomatricoma  
Indiana, Fort Wayne - Pilomatricoma, left chest  
Kansas (Coffeyville Regional Medical Center) - Pilomatricoma  
Kansas (Kansas University Medical Center) - Pilomatricoma  
Louisiana, Metairie - Calcifying epithelioma  
Maryland (National Naval Medical Center) - Pilomatricoma (12)  
Maryland (University of Maryland Medical Center) - Pilomatricoma  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Favor pilomatrical carcinoma  
Michigan (St. Joseph Mercy Hospital) - Pilomatricoma  
Nebraska (Good Samaritan Hospital) - Pilomatricoma  
Nevada, Las Vegas - Benign pilomatricoma  
New Mexico (University of New Mexico) - Pilomatricoma  
New York (Nassau University Medical Center) - Pilomatricoma  
New York (Westchester Medical Center) - Pilomatricoma  
Ohio (Medical College of Ohio) - Pilomatrical carcinoma  
Ohio, Columbus - Pilomatricoma  
Pennsylvania (Allegheny General Hospital) - Pilomatricoma  
Pennsylvania (Memorial Medical Center) - Pilomatricoma  
Pennsylvania (Magee Women's Hospital) - Pilomatricoma  
Pennsylvania, Pittsburgh - Pilomatricoma  
Texas (Scott & White Hospital) - Pilomatricoma  
Texas, Houston - Pilomatric carcinoma  
Texas, Lubbock - Calcifying epithelioma of Malherbe  
Texas, San Antonio - Pilomatricoma

Washington, D.C. - Calcified epithelioma of Malherbe  
Canada (CUSI, Site Fleurimont) - Pilomatricoma  
China (Sir Run Run Shaw Hospital) - Calcifying epithelioma  
Japan (Hamamatsu University School of Medicine) - Calcifying epithelioma  
Japan (Shimada City Hospital) - Calcifying epithelioma  
Japan (Gunma University Hospital) - Pilomatricoma  
Japan (Saiseikai Shiga Hospital) - Calcifying epithelioma (Pilomatricoma)  
Japan, Chiba - Pilomatricoma  
Puerto Rico (University of Puerto Rico) - Pilomatricoma  
Qatar, Doha - Calcifying epithelioma of Malherbe (Pilomatricoma)  
Spain (Povisa) - Pilomatricoma (Calcifying epithelioma of Malherbe)  
The Netherlands, Amstelveen - Calcifying epithelioma (Malherbe)

#### **Case 4 - Diagnosis:**

**Pilomatricoma ("calcifying epithelioma of Malherbe"), chest wall  
T-Y2150, M-81100**

#### **Case 4 - References:**

Kaddu S, Soyer HP, Hodl S, Kerl H: Morphological Stages of Pilomatricoma. *Am J Dermatopathol*, 1996 Aug; 18(4):333-8.  
Kishimoto S, Nagata M, Takenaka H, Yasuno H: Detection of Apoptosis By In-Situ Labeling of Pilomatricoma. *Am J Dermatopathol*, 1996 Aug; 18(4):339-43.  
Forbes R Jr, Helwig EB: Pilomatricoma (Calcifying Epithelioma). *Arch Dermatol*, 1961; 83:606-18.  
Vico P, Rahier I, Ghanem G, et al: Pilomatricoma. *Eur J Surg Oncol*, 1997 Aug; 23(4):370-1.

#### **Case No. 5, Accession No. 8045**

**March 2003**

Escondido - Sporotrichosis  
Glendale (Glendale Pathology Association) - Pseudoepitheliomatous hyperplasia  
Loma Linda - Squamous carcinoma, low grade  
Modesto (Yosemite Pathology Medical Group) - Keratoacanthoma  
Orange (UCI Medical Center Residents) - Keratoacanthoma  
Sacramento (UC Davis Medical Center) - Squamous cell carcinoma, keratoacanthomatous type  
San Diego (Naval Medical Center) - Keratoacanthoma vs. pseudo-epitheliomatous hyperplasia  
Alabama (Cunningham Pathology) - Keratoacanthoma  
Arizona (Phoenix Memorial Hospital) - Keratoacanthoma  
Colorado, Denver - Crateriform squamous carcinoma  
Florida (Winter Haven Hospital) - Chemical keratosis  
Florida, Miami - Verrucous carcinoma  
Florida, Ocala - Well-differentiated squamous cell carcinoma  
Georgia, Decatur - Keratinizing squamous cell carcinoma  
Illinois (Heartland Regional Medical Center) - Well-differentiated squamous carcinoma  
Indiana, Fort Wayne - Keratoacanthoma (Keratoacanthoma-like well-differentiated squamous cell carcinoma)  
Kansas (Coffeyville Regional Medical Center) - Keratoacanthoma  
Kansas (Kansas University Medical Center) - Squamous cell carcinoma  
Louisiana, Metairie - Well-differentiated squamous cell carcinoma  
Maryland (National Naval Medical Center) - Keratoacanthoma (11), Pseudo-epitheliomatous hyperplasia (1)  
Maryland (University of Maryland Medical Center) - Squamous cell carcinoma, well-differentiated, invasive  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Well-differentiated squamous cell carcinoma  
Michigan (St. Joseph Mercy Hospital) - Keratoacanthoma  
Nebraska (Good Samaritan Hospital) - Keratoacanthoma  
Nevada, Las Vegas - Invasive well-differentiated squamous cell carcinoma, keratoacanthomatous type  
New Mexico (University of New Mexico) - Keratoacanthoma  
New York (Nassau University Medical Center) - Keratoacanthoma  
New York (Westchester Medical Center) - Keratoacanthoma  
Ohio (Medical College of Ohio) - Pseudo-epitheliomatous hyperplasia  
Ohio, Columbus - Squamous cell carcinoma, keratoacanthoma type  
Pennsylvania (Allegheny General Hospital) - Squamous cell carcinoma, keratoacanthoma type  
Pennsylvania (Memorial Medical Center) - IFK/Squamous cell carcinoma  
Pennsylvania (Magee Women's Hospital) - Squamous cell CA arising in a setting of syndrome of multiple self-healing epitheliomas  
Pennsylvania, Pittsburgh - Sporotrich

Texas (Scott & White Hospital) - Keratoacanthoma  
Texas, Houston - Trichofolliculoma  
Texas, Lubbock - Verrucous carcinoma  
Texas, San Antonio - Trichofolliculoma  
Washington, D.C. - Keratoacanthoma/well-differentiated squamous cell carcinoma  
Canada (CUSI, Site Fleurimont) - Keratoacanthoma  
China (Sir Run Run Shaw Hospital) - Squamous cell carcinoma, keratoacanthoma type  
Japan (Hamamatsu University School of Medicine) - Pseudo-epitheliomatous hyperplasia  
Japan (Shimada City Hospital) - Keratoacanthoma  
Japan (Gunma University Hospital) - Keratoacanthoma  
Japan (Saiseikai Shiga Hospital) - Keratoacanthoma  
Japan, Chiba - Well-differentiated squamous cell carcinoma of skin  
Puerto Rico (University of Puerto Rico) - Keratoacanthoma  
Qatar, Doha - Keratoacanthoma  
Spain (Povisa) - Squamous cell carcinoma, well-differentiated  
The Netherlands, Amstelveen - Invasive squamous cell carcinoma

#### **Case 5 - Diagnosis:**

**Keratoacanthoma (well-differentiated squamous cell carcinoma, keratoacanthomatous subtype), hand  
 T-02650, M-72860**

#### **Case 5 - References:**

Hsi ED, Svoboda-Newman SM, Stern RA, et al: Detection of Human Papillomavirus DNA in Keratoacanthomas By Polymerase Chain Reaction. *Am J Dermatopathol*, 1997 Feb; 19(1):10-5.  
 Le Boit PE: Is Keratoacanthoma A Variant of Squamous Cell Carcinoma. New Insights Into An Old Controversy. . . Soon? *Am J Dermatopathol*, 1995 Aug; 17(4):319-20.  
 Lee YS, Teh M: p53 Expression in Pseudoepitheliomatous Hyperplasia, Keratoacanthoma, and Squamous Cell Carcinoma of Skin. *Cancer*, 1994 May 1; 73(9):2317-23.  
 Le Boit PE: Can We Understand Keratoacanthoma? *Am J Dermatopathol*, 2002 Apr; 24(2):166-8.  
 Beham A, Regauer S, Soyer HP, Beham-Schmid C: Keratoacanthoma: A Clinically Distinct Variant of Well-Differentiated Squamous Cell Carcinoma. *Adv Anat Pathol*, 1998 Sep; 5(5):269-80.

#### **Case No. 6, Accession No. 17843**

**March 2003**

Escondido - Squamous cell carcinoma  
Glendale (Glendale Pathology Association) - Well-differentiated squamous cell carcinoma  
Loma Linda - Squamous carcinoma, low grade  
Modesto (Yosemite Pathology Medical Group) - Invasive squamous cell carcinoma  
Orange (UCI Medical Center Residents) - Squamous cell carcinoma  
Sacramento (UC Davis Medical Center) - Verrucous carcinoma (giant condyloma Buschke)  
San Diego (Naval Medical Center) - Squamous cell carcinoma  
Alabama (Cunningham Pathology) - Cystic invasive squamous cell carcinoma (cannot exclude deep fungal infection)  
Arizona (Phoenix Memorial Hospital) - Invasive squamous cell carcinoma, moderately-differentiated  
Colorado, Denver - Squamous carcinoma arising in epidermal cyst  
Florida (Winter Haven Hospital) - Verrucous carcinoma  
Florida, Miami - Squamous cell carcinoma  
Florida, Ocala - Squamous cell carcinoma  
Georgia, Decatur - Squamous cell carcinoma, keratinizing  
Illinois (Heartland Regional Medical Center) - Well-differentiated squamous carcinoma  
Indiana, Fort Wayne - Verrucous squamous cell carcinoma, right hand  
Kansas (Coffeyville Regional Medical Center) - Well-differentiated squamous cell carcinoma vs. warty dyskeratoma  
Kansas (Kansas University Medical Center) - Squamous cell carcinoma, condylomatous type  
Louisiana, Metairie - Well-differentiated squamous cell carcinoma  
Maryland (National Naval Medical Center) - Squamous cell carcinoma arising in epidermal inclusion cyst (11); Verrucous carcinoma (1)  
Maryland (University of Maryland Medical Center) - Invasive well-differentiated squamous cell carcinoma with condylomatous features  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Invasive squamous cell carcinoma  
Michigan (St. Joseph Mercy Hospital) - Squamous carcinoma

Nebraska (Good Samaritan Hospital) - Warty carcinoma  
Nevada, Las Vegas - Invasive squamous cell carcinoma  
New Mexico (University of New Mexico) - Verrucous carcinoma  
New York (Nassau University Medical Center) - Squamous cell carcinoma  
New York (Westchester Medical Center) - Squamous cell carcinoma  
Ohio (Medical College of Ohio) - Well-differentiated squamous cell carcinoma with prominent HPV cytopathic effect  
Ohio, Columbus - Verrucous carcinoma  
Pennsylvania (Allegheny General Hospital) - Verrucous carcinoma  
Pennsylvania (Memorial Medical Center) - Verruca vulgaris (VV), FIC/squamous cell carcinoma  
Pennsylvania (Magee Women's Hospital) - Well-differentiated squamous cell carcinoma  
Pennsylvania, Pittsburgh - Well-differentiated squamous cell carcinoma  
Texas (Scott & White Hospital) - Squamous cell carcinoma  
Texas, Houston - Malignant proliferating trichilemmal tumor  
Texas, Lubbock - Well-differentiated carcinoma  
Texas, San Antonio - Squamous cell carcinoma  
Washington, D.C. - Verrucous carcinoma  
Canada (CUSI, Site Fleurimont) - Malignant proliferating trichilemmal tumor  
China (Sir Run Run Shaw Hospital) - Well-differentiated squamous cell carcinoma  
Japan (Hamamatsu University School of Medicine) - Well-differentiated squamous cell carcinoma  
Japan (Shimada City Hospital) - Verrucous squamous cell carcinoma  
Japan (Gunma University Hospital) - Well-differentiated squamous cell carcinoma  
Japan (Saiseikai Shiga Hospital) - Squamous cell carcinoma  
Japan, Chiba - Verrucous squamous cell carcinoma of skin  
Puerto Rico (University of Puerto Rico) - Squamous cell carcinoma, bowenoid type  
Qatar, Doha - Well-differentiated keratinizing squamous cell carcinoma  
Spain (Povisa) - Squamous cell carcinoma  
The Netherlands, Amstelveen - Invasive squamous cell carcinoma

#### **Case 6 - Diagnosis:**

**Squamous cell carcinoma, likely viral-related, hand  
 T-02650, M-80703**

#### **Case 6 - References:**

Guenther ST, Hurwitz RM, Buckel LJ, Gray HR: Cutaneous Squamous Cell Carcinomas Consistently Show Histologic Evidence of In-Situ Changes: A Clinicopathologic Correlation. *J Am Acad Dermatol*, 1999 Sep; 41(3 Pt 1):443-8.  
 Cherpelis BS, Marcusen C, Lang PG: Prognostic Factors For Metastasis in Squamous Cell Carcinoma of the Skin. *Dermatol Surg*, 2002 Mar; 28(3):268-73.  
 Lohmann CM, Solomon AR: Clinicopathologic Variants of Cutaneous Squamous Cell Carcinoma. *Adv Anat Pathol*, 2001 Jan; 8(1):27-36.  
 Vainio H, Miller AB, Bianchini F: An International Evaluation of the Cancer-Preventive Potential of Sunscreens. *Int J Cancer*, 2000 Dec 1; 88(5):838-42.

#### **Case No. 7, Accession No. 27056**

**March 2003**

Escondido - Merkel cell (neuroendocrine) carcinoma  
Glendale (Glendale Pathology Association) - Merkel cell carcinoma  
Loma Linda - Merkel cell tumor (carcinoma)  
Modesto (Yosemite Pathology Medical Group) - Merkel cell carcinoma  
Orange (UCI Medical Center Residents) - Merkel cell carcinoma  
Sacramento (UC Davis Medical Center) - Merkel cell carcinoma  
San Diego (Naval Medical Center) - Merkel cell carcinoma  
Alabama (Cunningham Pathology) - Merkel cell carcinoma  
Arizona (Phoenix Memorial Hospital) - Merkel cell carcinoma  
Colorado, Denver - Merkel cell tumor  
Florida (Winter Haven Hospital) - Merkel cell carcinoma  
Florida, Miami - Merkel cell tumor  
Florida, Ocala - Merkel cell carcinoma  
Georgia, Decatur - Merkel cell carcinoma  
Illinois (Heartland Regional Medical Center) - Merkel cell carcinoma  
Indiana, Fort Wayne - Merkel cell carcinoma, left cheek



Kansas (Coffeyville Regional Medical Center) - Merkel cell tumor (carcinoma)  
Kansas (Kansas University Medical Center) - Merkel cell tumor  
Louisiana, Metairie - Merkel cell carcinoma  
Maryland (National Naval Medical Center) - Merkel cell carcinoma (12)  
Maryland (University of Maryland Medical Center) - Merkel cell carcinoma  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Merkel cell carcinoma  
Michigan (St. Joseph Mercy Hospital) - Merkel cell tumor  
Nebraska (Good Samaritan Hospital) - Merkel cell carcinoma  
Nevada, Las Vegas - Merkel cell carcinoma  
New Mexico (University of New Mexico) - Merkel cell carcinoma  
New York (Nassau University Medical Center) - Merkel cell carcinoma  
New York (Westchester Medical Center) - Merkel cell carcinoma  
Ohio (Medical College of Ohio) - Merkel cell carcinoma  
Ohio, Columbus - Merkel cell tumor  
Pennsylvania (Allegheny General Hospital) - Merkel cell carcinoma  
Pennsylvania (Memorial Medical Center) - Merkel cell tumor  
Pennsylvania (Magee Women's Hospital) - Merkel cell carcinoma  
Pennsylvania, Pittsburgh - Merkel cell tumor  
Texas (Scott & White Hospital) - Merkel cell carcinoma  
Texas, Houston - Merkel cell tumor  
Texas, Lubbock - Merkel cell tumor  
Texas, San Antonio - Merkel  
Washington, D.C. - Merkel cell carcinoma  
Canada (CUSI, Site Fleurimont) - Merkel cell tumor  
China (Sir Run Run Shaw Hospital) - Merkel cell carcinoma  
Japan (Hamamatsu University School of Medicine) - Merkel cell carcinoma  
Japan (Shimada City Hospital) - Merkel cell tumor  
Japan (Gunma University Hospital) - Merkel cell carcinoma  
Japan (Saiseikai Shiga Hospital) - Merkel cell carcinoma  
Japan, Chiba - Neuroendocrine carcinoma of skin  
Puerto Rico (University of Puerto Rico) - Merkel cell carcinoma  
Qatar, Doha - Merkel cell carcinoma  
Spain (Povisa) - Merkel cell carcinoma  
The Netherlands, Amstelveen - Merkel cell carcinoma

**Case 7 - Diagnosis:**

**Merkel cell (neuroendocrine) carcinoma, cheek**

**T-02121, M-80416**

**Case 7 - References:**

- Tope WD, Sanguenza OP: Merkel Cell Carcinoma: Histopathology, Immunohistochemistry and Cytogenetic Analysis. *J Dermatol Surg Oncol*, 1994 Oct; 20(10):648-52.  
 Battifora H, Silva EG: The Use of Antikeratin Antibodies in the Immunohistochemical Distinction Between Neuroendocrine (Merkel Cell) Carcinoma of the Skin, Lymphoma, and Oat Cell Carcinoma. *Cancer*, 1986 Sept 1; 58(5):1040-6.  
 Ratner D, Nelson BR, Brown MD, Johnson TM: Merkel Cell Carcinoma. *J Am Acad Dermatol*, 1993 Aug; 29(2 Pt 1):143-56. Review.  
 Su LD, Fullen DR, Lowe L, et al: CD117 (KIT Receptor) Expression in Merkel Cell Carcinoma. *Am J Dermatopathol*, 2002 Aug; 24(4):289-93.  
 Leech SN, Kolar AJ, Barrett PD, et al: Merkel Cell Carcinoma Can Be Distinguished From Metastatic Small Cell Carcinoma Using Antibodies to Cytokeratin 20 and Thyroid Transcription Factor 1. *J Clin Pathol*, 2001 Sep; 54(9):727-9.  
 Allen PJ, Busam K, Hill AD, et al: Immunohistochemical Analysis of Sentinel Lymph Nodes From Patients With Merkel Cell Carcinoma. *Cancer*, 2001 Sep 15; 92(6):1650-5.

**Case No. 8, Accession No. 27338**

**March 2003**

Escondido - Schwannoma  
Glendale (Glendale Pathology Association) - Dermatofibrosarcoma protuberans  
Loma Linda - Dermatofibrosarcoma protuberans  
Modesto (Yosemite Pathology Medical Group) - Leiomyoma  
Orange (UCI Medical Center Residents) - Dermatofibrosarcoma protuberans

Sacramento (UC Davis Medical Center) - Dermatofibrosarcoma protuberans  
San Diego (Naval Medical Center) - Monophasic synovial sarcoma  
Alabama (Cunningham Pathology) - Dermatofibrosarcoma protuberans  
Arizona (Phoenix Memorial Hospital) - Cellular schwannoma  
Colorado, Denver - Malignant fibrous histiocytoma  
Florida (Winter Haven Hospital) - Fibromatosis  
Florida, Miami - Dermatofibrosarcoma  
Florida, Ocala - Schwannoma  
Georgia, Decatur - Perineurioma  
Illinois (Heartland Regional Medical Center) - Spindle cell lipoma  
Indiana, Fort Wayne - Dermatofibrosarcoma protuberans, thigh  
Kansas (Coffeyville Regional Medical Center) - Fibroma  
Kansas (Kansas University Medical Center) - Neuroma  
Louisiana, Metairie - Nodular fasciitis  
Maryland (National Naval Medical Center) - (Monophasic) synovial sarcoma (12)  
Maryland (University of Maryland Medical Center) - Dermatofibrosarcoma protuberans  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Dermatofibrosarcoma protuberans  
Michigan (St. Joseph Mercy Hospital) - Dermatofibrosarcoma protuberans  
Nebraska (Good Samaritan Hospital) - Dermatofibrosarcoma protuberans  
Nevada, Las Vegas - Dermatofibrosarcoma protuberans  
New Mexico (University of New Mexico) - Fibromatosis  
New York (Nassau University Medical Center) - Dermatofibrosarcoma protuberans  
New York (Westchester Medical Center) - Dermatofibrosarcoma protuberans/fibrous histiocytoma  
Ohio (Medical College of Ohio) - Dermatofibrosarcoma protuberans  
Ohio, Columbus - Dermatofibrosarcoma protuberans  
Pennsylvania (Allegheny General Hospital) - Dermatofibrosarcoma protuberans  
Pennsylvania (Memorial Medical Center) - Schwannoma, neuroma/Malignant peripheral nerve sheath tumor (MPNST)  
Pennsylvania (Magee Women's Hospital) - Benign fibrous histiocytoma  
Pennsylvania, Pittsburgh - Dermatofibrosarcoma protuberans  
Texas (Scott & White Hospital) - Dermatofibrosarcoma protuberans (DFSP)  
Texas, Houston - Dermatofibrosarcoma protuberans  
Texas, Lubbock - Dermatofibroma  
Texas, San Antonio - Dermatofibrosarcoma protuberans (DFSP)  
Washington, D.C. - Dermatofibrosarcoma protuberans  
Canada (CUSL, Site Fleurimont) - Dermatofibrosarcoma protuberans  
China (Sir Run Run Shaw Hospital) - Dermatofibrosarcoma protuberans  
Japan (Hamamatsu University School of Medicine) - Dermatofibrosarcoma protuberans  
Japan (Shimada City Hospital) - Dermatofibrosarcoma protuberans  
Japan (Gunma University Hospital) - Dermatofibrosarcoma protuberans  
Japan (Saiseikai Shiga Hospital) - Dermatofibrosarcoma protuberans  
Japan, Chiba - Cellular fibrous histiocytoma  
Puerto Rico (University of Puerto Rico) - Nodular fasciitis/dermatofibroma  
Qatar, Doha - Dermatofibrosarcoma protuberans  
Spain (Povisa) - Nodular fasciitis  
The Netherlands, Amstelveen - Dermatofibrosarcoma protuberans?

### **Case 8 - Diagnosis:**

**Dermatofibrosarcoma protuberans (DFSP), thigh  
 T-02810, M-88323**

### **Case 8 - References:**

- Fletcher CDM, Evans BJ, MacArtney JC, et al: Dermatofibrosarcoma Protuberans: A Clinicopathological and Immunohistochemical Study With A Review of the Literature. *Histopathol*, 1985 Sep; 9(9):921-38.
- Harvell JD, Kilpatrick SE, White WL: Histogenetic Relations Between Giant Cell Fibroblastoma and Dermatofibrosarcoma Protuberans: CD34 Staining Showing the Spectrum and A Simulator. *Am J Dermatopathol*, 1998 Aug; 20(4):339-45.
- Zelger B, Zelger B: Sarcomas Arising in Dermatofibrosarcoma Protuberans: Collision or Illusion? *Am J Surg Pathol*, 2001 Aug, 25(8):1106-8.
- Mentzel T, Beham A, Katenkamp D, et al: Fibrosarcomatous ("High-Grade") Dermatofibrosarcoma Protuberans: Clinico-Pathologic and Immunohistochemical Study of a Series of 41 Cases With Emphasis on Prognostic Significance. *Am J Surg Pathol*, 1998 May; 22(5):576-87.
- Bowne WB, Antonescu CR, Leung DH, et al: Dermatofibrosarcoma Protuberans: A Clinicopathologic Analysis of Patients Treated and Followed At a Single Institution. *Cancer*, 2000 Jun 15; 88(12):2711-20.

Escondido - Clear cell hidradenoma  
Glendale (Glendale Pathology Association) - Fibroma  
Loma Linda - Cystic hidradenoma  
Modesto (Yosemite Pathology Medical Group) - Hemangiopericytoma  
Orange (UCI Medical Center Residents) - Glomangioma  
Sacramento (UC Davis Medical Center) - Hidradenoma and gout  
Alabama (Cunningham Pathology) - Synovial cyst  
Arizona (Phoenix Memorial Hospital) - Glomus tumor (glomangioma)  
Colorado, Denver - Angiosarcoma  
Florida (Winter Haven Hospital) - Glomus tumor  
Florida, Miami - Synovial sarcoma  
Florida, Ocala - Glomus tumor  
Georgia, Decatur - Glomus tumor  
Illinois (Heartland Regional Medical Center) - Nodular hidradenoma, cystic variant  
Indiana, Fort Wayne - Hidradenoma, great toe (cystic nodular type)  
Kansas (Coffeyville Regional Medical Center) - Hemorrhagic synovial cyst  
Kansas (Kansas University Medical Center) - Benign synovial cyst  
Louisiana, Metairie - Glomus tumor  
Maryland (National Naval Medical Center) - Glomangioma (12)  
Maryland (University of Maryland Medical Center) - Hemangiopericytoma vs. PEComa  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - (Cystic) glomus tumor  
Michigan (St. Joseph Mercy Hospital) - Eccrine tumor (2), Glomus tumor (2)  
Nebraska (Good Samaritan Hospital) - Nodular hidradenoma, cystic variant  
Nevada, Las Vegas - Glomus tumor (possibly cystic hidradenoma)  
New York (Nassau University Medical Center) - Nodular hidradenoma, cystic variant  
New York (Westchester Medical Center) - Cystic hidradenoma  
Ohio (Medical College of Ohio) - Glomangioma  
Pennsylvania (Allegheny General Hospital) - Nodular hidradenoma  
Pennsylvania (Memorial Medical Center) - Hemangioendothelioma/Pigmented villonodular synovitis (PVNS)  
Pennsylvania (Magee Women's Hospital) - Glomus tumor  
Pennsylvania, Pittsburgh - Benign synovial cyst, ? reaction to bleeding  
Texas (Scott & White Hospital) - Clear cell hidradenoma vs. Glomus tumor  
Texas, Houston - Glomangioma  
Texas, Lubbock - Epithelioid hemangioendothelioma  
Texas, San Antonio - Glomus tumor  
Washington, D.C. - Glomus tumor  
Canada (CUSI, Site Fleurimont) - Glomangioma  
China (Sir Run Run Shaw Hospital) - Syringadenoma (Clear cell myoepithelioma)  
Japan (Hamamatsu University School of Medicine) - Pigmented villonodular bursitis  
Japan (Shimada City Hospital) - Apocrine cystadenoma  
Japan (Gunma University Hospital) - Glomus tumor  
Japan (Saiseikai Shiga Hospital) - Nodular hidradenoma  
Japan, Chiba - Dendritic synovitis  
Puerto Rico (University of Puerto Rico) - Intravascular papillary endothelial hyperplasia/glomangioma  
Qatar, Doha - Benign skin appendage tumour - Eccrine spiradenoma  
Spain (Povisa) - Glomangioma  
The Netherlands, Amstelveen - Mimics a sebaceous epithelioma?

**Case 9 - Diagnosis:**

Clear cell hidradenoma, toe  
 T-02990, M-84020

**Case 9 - References:**

Keasbey LE, Hadley GG: Clear Cell Hidradenoma: Report of Three Cases With Widespread Metastasis. *Cancer*, 1954; 7: 934-952.  
 O'Hara JM, Bensch K, Ioannides G, Klaus SN: Eccrine Sweat Gland Adenoma, Clear Cell Type: A Histochemical Study. *Cancer*, 1996 Oct; 19(10):1438-50.

Hernandez-Perez E, Cestoni-Parducci R. Nodular Hidradenoma and Hidradenocarcinoma: A 10-Year Review. *J Am Acad Dermatol*, 1985 Jan; 12(1 Pt 1):15-20.  
Will R, Coldiron B: Recurrent Clear Cell Hidradenoma of the Foot. *Dermatol Surg*, 2000 Jul; 26(7):685-6.

**Case No. 10, Accession No. 29474**

**March 2003**

Escondido - Clear cell hidradenoma  
Glendale (Glendale Pathology Association) - Metastatic carcinoma  
Loma Linda - Sebaceous epithelioma  
Modesto (Yosemite Pathology Medical Group) - Liposarcoma  
Orange (UCI Medical Center Residents) - Sebaceous carcinoma  
Sacramento (UC Davis Medical Center) - Sebaceous carcinoma  
San Diego (Naval Medical Center) - Metastatic squamous cell carcinoma  
Alabama (Cunningham Pathology) - Sebaceous carcinoma  
Arizona (Phoenix Memorial Hospital) - Squamous cell carcinoma, anal, metastatic  
Colorado, Denver - Metastatic carcinoma  
Florida (Winter Haven Hospital) - Sebaceous carcinoma  
Florida, Miami - Fibrosarcoma  
Florida, Ocala - Carcinoma ? cloacogenic  
Georgia, Decatur - Nodular/clear cell hidradenoma  
Illinois (Heartland Regional Medical Center) - Poorly-differentiated carcinoma  
Indiana, Fort Wayne - Sebaceous carcinoma, right buttock  
Kansas (Coffeyville Regional Medical Center) - Sebaceous carcinoma  
Kansas (Kansas University Medical Center) - Eccrine porocarcinoma  
Louisiana, Metairie - Metastatic adenocarcinoma  
Maryland (National Naval Medical Center) - Sebaceous carcinoma (11), metastatic (1)  
Maryland (University of Maryland Medical Center) - Sebaceous neoplasm (epithelioma vs. low grade carcinoma) associated with Muir-Torre syndrome  
Massachusetts (Brigham & Women's Hospital, Residents/Fellow) - Sebaceous carcinoma, possibly metastatic  
Michigan (St. Joseph Mercy Hospital) - Sebaceous carcinoma (Muir-Torre)  
Nebraska (Good Samaritan Hospital) - Poorly-differentiated carcinoma  
Nevada, Las Vegas - Sebaceous adenoma  
New Mexico (University of New Mexico) - Sebaceous carcinoma  
New York (Nassau University Medical Center) - Sebaceous carcinoma  
New York (Westchester Medical Center) - Sebaceous carcinoma  
Ohio (Medical College of Ohio) - Sebaceous carcinoma  
Ohio, Columbus - Carcinoma  
Pennsylvania (Allegheny General Hospital) - Sebaceous carcinoma  
Pennsylvania (Memorial Medical Center) - Poorly-differentiated carcinoma with signet ring cell features/liposarcoma  
Pennsylvania (Magee Women's Hospital) - Sebaceous carcinoma arising in a setting of Muir-Torre's Syndrome  
Pennsylvania, Pittsburgh - Malignant adnexal tumor with sebaceous and focal squamous differentiation  
Texas (Scott & White Hospital) - Sebaceous carcinoma  
Texas, Houston - Mucoepidermoid carcinoma  
Texas, Lubbock - Metastatic cloacogenic carcinoma  
Washington, D.C. - Trichilemmoma  
Canada (CUSI, Site Fleurimont) - Sebaceous carcinoma  
China (Sir Run Run Shaw Hospital) - Trichilemmocarcinoma  
Japan (Hamamatsu University School of Medicine) - Synovial sarcoma, biphasic  
Japan (Shimada City Hospital) - Malignant eccrine spiradenoma  
Japan (Gunma University Hospital) - Sebaceous epithelioma  
Japan (Saiseikai Shiga Hospital) - Synovial sarcoma, d.d. metastatic carcinosarcoma from the ovary  
Japan, Chiba - Sebaceous carcinoma of buttock  
Puerto Rico (University of Puerto Rico) - Sebaceous carcinoma/synovial sarcoma  
Qatar, Doha - Sebaceous epithelioma  
Spain (Povisa) - Sebaceous carcinoma  
The Netherlands, Amstelveen - Dermal adnexal cyst, NOS?

**Case 10 - Diagnosis:**

**Sebaceous carcinoma, buttock**

**T-02471, M-84103**

**Case 10 - References:**

- Bayer-Garner IB, Givens V, Smoller B: Immunohistochemical Staining for Androgen Receptors: A Sensitive Marker of Sebaceous Differentiation. *Am J Dermatopathol*, 1999 Oct; 21(5):426-31.
- Steffen C, Ackerman AB: Sebaceous Carcinoma: In: *Neoplasms With Sebaceous Differentiation*. Philadelphia. Lea and Febiger, 1994 Apr; pp 487-574.
- Nelson BR, Hamlet KR, Gillard M, et al: Sebaceous Carcinoma. *J Am Acad Dermatol*, 1995 Jul; 33(1):1-15. Quiz 16-18. Review.
- Misago N, Mihara I, Ansai S, Narisawa Y: Sebaceoma and Related Neoplasms With Sebaceous Differentiation: A Clinico-Pathologic Study of 30 Cases. *Am J Dermatopathol*, 2002 Aug; 24(4):294-304.
- Nelson BR, Hamlet KR, Gillard M, et al: Sebaceous Carcinoma. *J Am Acad Dermatol*, 1995 Jul; 33(1):1-15, quiz 16-8.