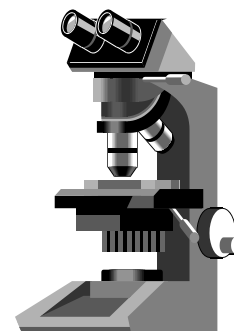


CALIFORNIA
TUMOR TISSUE REGISTRY

GASTROINTESTINAL PATHOLOGY

Minutes – Subscription A

January 2015



SUGGESTED READING (General Topics from Recent Literature):

- Amin MB, Trpkov K, et al. Best Practices Recommendations in the Application of Immunohistochemistry in the Bladder Lesions: Report From the International Society of Urologic Pathology Consensus Conference. *Am J Surg Pathol* 2014; 38: e20-e34.
- Bhatnagar R, Olson MT, et al. Solid-Pseudopapillary Neoplasm of the Pancreas: cytomorphologic Findings and Literature Review. *Acta Cytol* 2014; 58:347-355.
- Paiva B, Chandia M, et al. Multiparameter Flow Cytometry for Staging of Solitary Bone Plasmacytoma: New Criteria for Risk of Progression to Myeloma. *Blood* 2014; 124: 1300-1303.
- Masia R, Peyton S, et al. Gastrointestinal Biopsy Findings of Autoimmune Enteropathy: A review of 25 Cases. *Am J Surg Pathol* 2014;38:1319-1329.
- Yamashita Y, Nagaska T, et al. Napsin A Is a Specific Marker for Ovarian Clear Cell Adenocarcinoma. *Mod Pathol* 2014; epub ahead of print.

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FILE DIAGNOSES

CTTR Subscription A

January 2015

Case 1:

Cloacogenic basaloid squamous cell carcinoma, anus

Case 2:

Goblet cell carcinoid tumor (variant of neuroendocrine carcinoma), rectosigmoid colon

Case 3:

Leiomyoma, stomach

Case 4:

Serous cystadenoma, pancreas

Case 5:

Extramammary Paget disease, perianal skin

Case 6:

Hepatocellular carcinoma, liver

Case 7:

Low grade carcinoid tumor (variant of neuroendocrine carcinoma), small intestine

Case 8:

Metastatic periampullary adenocarcinoma, hepatic artery lymph node

Case 9:

Basaloid squamous cell carcinoma, anus

Case 10:

Metastatic renal cell carcinoma, clear cell type, large intestine

Alameda (Alameda County Medical Center) - Invasive squamous cell carcinoma (6)
Fontana (Kaiser Foundation Hospital) - Squamous cell carcinoma
Glendale - Squamous cell carcinoma
Hayward Alameda (St. Rose Hospital) - Squamous carcinoma, anus
Long Beach (Long Beach Memorial Hospital) - Squamous cell carcinoma
Long Beach Veterans - Keratinizing moderately differentiated squamous cell carcinoma
Orinda (Kaiser Permanente) - Squamous cell carcinoma
Palo Alto (VA Palo Alto) - Squamous cell carcinoma consistent with basaloid features
San Diego (Naval Medical Center) - Squamous cell carcinoma
San Jose - Squamous cell carcinoma
San Francisco (San Francisco General Hospital) - Squamous cell carcinoma
San Francisco (UCSF) - Urothelial carcinoma with squamous differentiation
Torrence (Harbor-UCLA Medical Center) - Invasive high-grade urothelial carcinoma consistent with focal squamous differentiation.
Woodland Hills (Kaiser Permanente) - Invasive squamous cell carcinoma
Arkansas (Associated Pathologists Laboratory) - Invasive squamous cell carcinoma
Colorado, Fort Collins - Invasive poorly differentiated squamous cell carcinoma
Connecticut (Danbury Hospital) - Invasive and in-situ squamous cell carcinoma of anus
Delaware (AFMES) - Invasive squamous cell carcinoma
Florida (Florida Atlantic University) - Squamous cell carcinoma
Florida (GastroEnterology Associates of Ocala) - Squamous cell carcinoma, basaloid pattern
Georgia (Wellstar Healthcare System) - Basaloid squamous cell carcinoma (3)
Illinois (Heartland Regional Medical Center) - Invasive squamous cell carcinoma
Illinois, Oak Brook - Squamous cell carcinoma
Iowa (Allen Memorial Hospital) - Squamous cell carcinoma of basaloid type
Maryland (University of Maryland) - Squamous cell carcinoma
Massachusetts (University of Massachusetts Medical Center Residents) - Invasive squamous cell carcinoma
Michigan (William Beaumont Hospital) - Invasive squamous cell carcinoma
Minnesota (Fairview Ridges Hospital) - Squamous cell carcinoma, moderate, poorly differential
Missouri (Washington University of St. Louis Fellows) - Squamous cell carcinoma
Nebraska (Creighton University Medical Center) - High grade urothelial carcinoma with squamous differentiation
North Carolina, Clemmons - Squamous cell carcinoma (basaloid pattern)
North Carolina (Eastern Carolina Pathology P.A.) - Invasive high-grade urothelial carcinoma
Ohio (Summa Health System Residents) - Invasive moderately differentiated squamous cell carcinoma
Ohio, Union Town - Basaloid squamous cell carcinoma
Ohio (University of Toledo Medical Center Residents) - Squamous cell carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Invasive squamous cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Invasive squamous cell carcinoma
Puerto Rico (University of Puerto Rico) - Squamous cell carcinoma showing a combination of basaloid and squamous features
South Carolina (Medical University of South Carolina) - Squamous cell carcinoma
South Dakota (University of South Dakota Sanford School of Medicine) - Invasive squamous cell carcinoma
Texas, Crystal Beach - Transitional carcinoma (cloacogenic)
West Virginia (Greenbrier Valley Medical Center) - Cloacogenic basaloid squamous cell carcinoma
Wisconsin (Medical Assessment and Consultation SC) - Invasive squamous cell carcinoma with basaloid features
Wisconsin (Medical College of Wisconsin) - Squamous cell carcinoma
Australia (Royal Hobart Hospital) - Squamous cell carcinoma
Canada (Royal Prince Alfred Hospital) - Basaloid carcinoma
Canada (University of Sherbrooke) - Infiltrating squamous cell carcinoma with transitional differentiation (ATZ carcinoma)
Ireland (Bon Secours Hospital) - Keratinizing squamous cell carcinoma
Ireland (Mayo General Hospital) - Basaloid squamous cell carcinoma
Japan, Setagaya-Ku - Basaloid carcinoma
Japan (University of Yamanashi) - Squamous cell carcinoma
Oman (Khoula Hospital) - High grade urothelial carcinoma

Spain (CHUVI, Vigo) - Squamous cell carcinoma

Case 1 - Diagnosis:

Cloacogenic basaloid squamous cell carcinoma, anus

Case 1 - References:

Aggressive treatment approach for cloacogenic carcinoma of the anorectum: report from a single cancer center. *Dig*

Surg 2010;27(4): p297-301. Bertani E; Chiappa A, et al.

Prognostic biomarkers in squamous cell carcinoma of the anus: a systematic review. *Br J Cancer* 2010; Dec 7;103(12): p1858-69. Lampejo T; Kavanagh D, et al.

[Human papillomaviruses in the pathogenesis of intraepithelial neoplasia (AIN) and carcinoma of the anus] *Hautarzt* 2010; Jan;61(1): p13-20. von Knebel Doeberitz M; Reuschenbach M.

[Anal intraepithelial neoplasia and anal carcinoma: an increasing problem in HIV patients]. *Hautarzt* 2010; Jan;61(1): p21-6. Kreuter A; Brockmeyer NH; Wieland U.

An update on tumors of the anal canal. *Arch Pathol Lab Med* 2010; Nov;134(11): p1601-11. Shia J.

Case No. 2, Accession No. 30060

January 2015

Alameda (Alameda County Medical Center) - Low grade neuroendocrine tumor (goblet cell carcinoid) (6)

Fontana (Kaiser Foundation Hospital) - Neuroendocrine tumor

Glendale - Goblet cell carcinoid

Hayward Alameda (St. Rose Hospital) - Carcinoid, appendix

Long Beach (Long Beach Memorial Hospital) - Goblet cell carcinoid

Long Beach (Long Beach Veterans Hospital) - Mixed adeno and neuroendocrine carcinoma consistent with areas of signet ring cell pattern

Orinda (Kaiser Permanente) - Neuroendocrine tumor

Palo Alto (VA Palo Alto) - Carcinoma ex goblet cell carcinoma

San Diego (Naval Medical Center) - Typical goblet cell carcinoid

San Jose - Neuroendocrine tumor

San Francisco (San Francisco General Hospital) - Adenocarcinoid

San Francisco (UCSF) - Goblet cell carcinoid

Torrence (Harbor-UCLA Medical Center) - Goblet cell carcinoid

Woodland Hills (Kaiser Permanente) - Neuroendocrine tumor/adenocarcinoid tumor

Arkansas (Associated Pathologists Laboratory) - Invasive carcinoid tumor

Colorado, Fort Collins - Low grade neuroendocrine carcinoma (carcinoid)

Connecticut (Danbury Hospital) - Carcinoid

Delaware (AFMES) - Mixed adenocarcinoma and neuroendocrine tumor

Florida (Florida Atlantic University) - Metastatic goblet cell carcinoid

Florida (GastroEnterology Associates of Ocala) - Malignant neuroendocrine tumor, infiltrating

Georgia (Wellstar Healthcare System) - Goblet cell carcinoid (3)

Illinois (Heartland Regional Medical Center) - Adenocarcinoid (goblet cell carcinoid)

Illinois, Oak Brook - Goblet cell carcinoid tumor

Iowa (Allen Memorial Hospital) - Goblet cell carcinoid tumor

Maryland (University of Maryland) - Neuroendocrine tumor

Massachusetts (University of Massachusetts Medical Center Residents) - Signet ring carcinoma ex-goblet cell carcinoid

Michigan (William Beaumont Hospital) - Goblet cell carcinoid

Minnesota (Fairview Ridges Hospital) - Neuroendocrine carcinoma (goblet cell carcinoid)

Missouri (Washington University of St. Louis Fellows) - Goblet cell carcinoid

Nebraska (Creighton University Medical Center) - Neuroendocrine tumor (carcinoid)

North Carolina, Clemmons - Goblet cell carcinoid

North Carolina (Eastern Carolina Pathology P.A.) - Mixed goblet cell carcinoid-adenocarcinoma

Ohio (Summa Health System Residents) - Neuroendocrine tumor with signet ring cell features

Ohio, Union Town - Goblet cell carcinoid

Ohio (University of Toledo Medical Center Residents) - Goblet cell carcinoid of appendix

Pennsylvania (Drexel University College of Medicine Residents) - Goblet cell carcinoid
Pennsylvania (Lehigh Valley Hospital) - Carcinoid
Puerto Rico (University of Puerto Rico) - Goblet cell carcinoid
South Carolina (Medical University of South Carolina) - Goblet cell carcinoid
South Dakota (University of South Dakota Sanford School of Medicine) - Adenocarcinoid/goblet cell carcinoid
Texas, Crystal Beach - Malignant carcinoid
West Virginia (Greenbrier Valley Medical Center) - Neuroendocrine adenocarcinoma
Wisconsin (Medical Assessment and Consultation SC) - Neuroendocrine carcinoma with signet ring cell differentiation (signet ring cell carcinoid)
Wisconsin (Medical College of Wisconsin) - Adenocarcinoid
Australia (Royal Hobart Hospital) - Adenoneuroendocrine carcinoma (goblet cell carcinoid)
Canada (Royal Prince Alfred Hospital) - Goblet cell carcinoid
Canada (University of Sherbrooke) - Mixed adeno-neuroendocrine carcinoma
Ireland (Bon Secours Hospital) - Neuroendocrine tumor
Ireland (Mayo General Hospital) - Neuroendocrine carcinoma with goblet signet ring cells
Japan, Setagaya-Ku - Adenocarcinoma, poorly differentiated
Japan (University of Yamanashi) - Goblet cell carcinoid (1); Mixed adenoneuroendocrine carcinoma (1)
Oman (Khoulia Hospital) - Well-differentiated neuroendocrine carcinoma
Spain (CHUVI, Vigo) - Adenocarcinoid

Case 2 - Diagnosis:

Goblet cell carcinoid tumor (variant of neuroendocrine carcinoma), rectosigmoid colon

Case 2 - References:

Combined classical carcinoid and goblet cell carcinoid tumor: a new morphologic variant of carcinoid tumor of the appendix. *Am J Surg Pathol* 2010; Aug;34(8): p1163-7. Chetty R; Klimstra DS, et al.
 Epithelial neoplasms of the appendix. *Arch Pathol Lab Med* 2010; Nov;134(11): p1612-20. Tang LH.
 Management of carcinoid tumors. *Ann Thorac Surg* 2010; Mar;89(3): p998-1005. Detterbeck FC.
 Rectal granular-cell tumor difficult to distinguish from carcinoid tumor. *Dig Endosc* 2010; Oct;22(4): p325-8. Nakanome T; Yokoyama K, et al.
 Carcinoid tumors of the rectum: a multi-institutional international collaboration. *Ann Surg* 2010; Nov;252(5): p750-5. Shields CJ; Tired E; Winter DC.

Case No. 3, Accession No. 31806

January 2015

Alameda (Alameda County Medical Center) - Leiomyoma (6)
Fontana (Kaiser Foundation Hospital) - GIST
Glendale - Leiomyoma
Hayward Alameda (St. Rose Hospital) - Leiomyoma, stomach
Long Beach (Long Beach Memorial Hospital) - Leiomyoma
Long Beach (Long Beach Veterans Hospital) - Leiomyoma
Orinda (Kaiser Permanente) - Gastrointestinal stromal tumor vs. leiomyoma
Palo Alto (VA Palo Alto) - Leiomyoma
San Diego (Naval Medical Center) - Leiomyoma
San Jose - Leiomyoma
San Francisco (San Francisco General Hospital) - Leiomyoma
San Francisco (UCSF) - Leiomyoma
Torrence (Harbor-UCLA Medical Center) - Leiomyoma
Woodland Hills (Kaiser Permanente) - Gastrointestinal stromal tumor
Arkansas (Associated Pathologists Laboratory) - Gastric leiomyoma
Colorado, Fort Collins - Benign GIST
Connecticut (Danbury Hospital) - Leiomyoma
Delaware (AFMES) - Leiomyoma
Florida (Florida Atlantic University) - Leiomyoma
Florida (GastroEnterology Associates of Ocala) - Leiomyoma

Georgia (Wellstar Healthcare System) - Leiomyoma (3)
Illinois (Heartland Regional Medical Center) - GIST
Illinois, Oak Brook - Leiomyoma
Iowa (Allen Memorial Hospital) - Gastrointestinal stromal tumor
Maryland (University of Maryland) - Leiomyoma
Massachusetts (University of Massachusetts Medical Center Residents) - Leiomyoma
Michigan (William Beaumont Hospital) - Leiomyoma
Minnesota (Fairview Ridges Hospital) - Leiomyoma
Missouri (Washington University of St. Louis Fellows) - Gastrointestinal stromal tumor
Nebraska (Creighton University Medical Center) - Leiomyoma
North Carolina, Clemmons - Leiomyoma
North Carolina (Eastern Carolina Pathology P.A.) - Spindle cell neoplasm, favor leiomyoma
Ohio (Summa Health System Residents) - Leiomyoma
Ohio, Union Town - Leiomyoma
Ohio (University of Toledo Medical Center Residents) - Leiomyoma
Pennsylvania (Drexel University College of Medicine Residents) - Leiomyoma
Pennsylvania (Lehigh Valley Hospital) - Leiomyoma
Puerto Rico (University of Puerto Rico) - Leiomyoma
South Carolina (Medical University of South Carolina) - Leiomyoma
South Dakota (University of South Dakota Sanford School of Medicine) - Spindle cell neoplasm favor leiomyoma
Texas, Crystal Beach - Gastrointestinal stromal tumor
Wisconsin (Medical Assessment and Consultation SC) - Leiomyoma
Wisconsin (Medical College of Wisconsin) - GIST
Australia (Royal Hobart Hospital) - Gastric leiomyoma
Canada (Royal Prince Alfred Hospital) - Leiomyoma
Canada (University of Sherbrooke) - Leiomyoma
Ireland (Bon Secours Hospital) - Leiomyoma
Ireland (Mayo General Hospital) - Gastrointestinal stromal tumor (c-kit)?/leiomyoma ? actin
Japan, Setagaya-Ku - Leiomyoma
Japan (University of Yamanashi) - Leiomyoma
Oman (Khoula Hospital) - Sclerosing epithelioid gastrointestinal stromal tumor
Spain (CHUVI, Vigo) - GIST

Case 3 - Diagnosis:

Leiomyoma, stomach

Case 3 - References:

Gastric volvulus with massive hemorrhage due to leiomyoma. Case report. 1958. *Conn Med* 2008; Apr;72(4): p235-6. Blansfield HN; Egee JB.
 Mast cell-rich leiomyomas should not be mistaken for gastrointestinal stromal tumours. *Histopathology* 2007; Aug;51(2): p273-5. Wong NA; Pawade J.
 Esophageal leiomyoma: a 40-year experience. *Ann Thorac Surg* 2005; Apr;79(4): p1122-5. Mutrie CJ; Donahue DM, et al.
 "Seedling" mesenchymal tumors (gastrointestinal stromal tumors and leiomyomas) are common incidental tumors of the esophagogastric junction. *Am J Surg Pathol* 2007; Nov;31(11): p1629-35. Abraham SC; Krasinskas AM, et al.
 Foregut duplication cysts of stomach masquerading as leiomyoma. *Indian J Pathol Microbiol* 2010; Oct-Dec;53(4): p829-30. Mardi K; Kaushal V; Gupta S.
 Endoscopic alcohol injection therapy of giant gastric leiomyomas: an alternative method to surgery. *Can J Gastroenterol* 2010; Sep;24(9): p533-5 Ozdil B; Akkiz H, et al.

Case No. 4, Accession No. 31932

January 2015

Alameda (Alameda County Medical Center) - Microcystic serous cystadenoma (6)
Fontana (Kaiser Foundation Hospital) - Serous microcystic adenoma
Glendale - Serous cystadenoma

Hayward Alameda (St. Rose Hospital) - Microcystic cystadenoma, probably amyloid stroma
Long Beach (Long Beach Memorial Hospital) - Serous cystadenoma
Long Beach (Long Beach Veterans Hospital) - Serous cystic adenoma
Orinda (Kaiser Permanente) - Microcystic serous cystadenoma
Palo Alto (VA Palo Alto) - Serous cystadenoma
San Diego (Naval Medical Center) - Serous cystadenoma
San Jose - Serous microcystic adenoma
San Francisco (San Francisco General Hospital) - Serous microcystic adenoma
San Francisco (UCSF) - Serous cystadenoma
Torrence (Harbor-UCLA Medical Center) - Pancreatic serous cystadenoma
Woodland Hills (Kaiser Permanente) - Microcystic cystadenoma
Arkansas (Associated Pathologists Laboratory) - Microcystic serous cystadenoma
Colorado, Fort Collins - Microcystic cystadenoma
Connecticut (Danbury Hospital) - Microcystic serous cystadenoma
Delaware (AFMES) - Serous cystadenoma of pancreas
Florida (Florida Atlantic University) - Pancreatic microcystic cystadenoma
Florida (GastroEnterology Associates of Ocala) - Microcystic serous cystadenoma
Georgia (Wellstar Healthcare System) - Microcystic serous cystadenoma (3)
Illinois (Heartland Regional Medical Center) - Microcystic serous cystadenoma
Illinois, Oak Brook - Microcystic cystadenoma pancreas
Iowa (Allen Memorial Hospital) - Microcystic serous cystadenoma
Maryland (University of Maryland) - Serous cystadenoma
Massachusetts (University of Massachusetts Medical Center Residents) - Microcystic serous cystadenoma
Michigan (William Beaumont Hospital) - Serous cystadenoma
Minnesota (Fairview Ridges Hospital) - Serous cystadenoma
Missouri (Washington University of St. Louis Fellows) - Multicystic serous cystadenoma
Nebraska (Creighton University Medical Center) - Serous cystadenoma
North Carolina, Clemmons - Microcystic adenoma
North Carolina (Eastern Carolina Pathology P.A.) - Serous cystadenoma
Ohio (Summa Health System Residents) - Microcystic serous cystadenoma
Ohio, Union Town - Microcystic serous cystadenoma
Ohio (University of Toledo Medical Center Residents) - Microcystic serous cystadenoma
Pennsylvania (Drexel University College of Medicine Residents) - Serous cystadenoma
Pennsylvania (Lehigh Valley Hospital) - Serous microcystic adenoma
Puerto Rico (University of Puerto Rico) - Serous cystadenoma
South Carolina (Medical University of South Carolina) - Serous cystadenoma
South Dakota (University of South Dakota Sanford School of Medicine) - Serous adenoma
Texas, Crystal Beach - Serous microcystic adenoma with papillary features
West Virginia (Greenbrier Valley Medical Center) - Serous cystadenoma
Wisconsin (Medical Assessment and Consultation SC) - Benign serous cystadenoma
Wisconsin (Medical College of Wisconsin) - Serous microcystic cystadenoma
Australia (Royal Hobart Hospital) - Microcystic serous cystadenoma
Canada (Royal Prince Alfred Hospital) - Serous cystadenoma
Canada (University of Sherbrooke) - Pancreatic serous cystadenoma
Ireland (Bon Secours Hospital) - Microcystic serous cystadenoma
Ireland (Mayo General Hospital) - Microcystic cystadenoma
Japan, Setagaya-Ku - Serous cystadenoma
Japan (University of Yamanashi) - Serous cystadenoma
Oman (Khoula Hospital) - Serous cystadenoma
Spain (CHUVI, Vigo) - Microcystic serous cystadenoma

Case 4 - Diagnosis:

Serous cystadenoma, pancreas

Case 4 - References:

Serous cystadenoma of the pancreas: tumor growth rates and recommendations for treatment. *Ann Surg* 2005; Sep;242(3): p413-9; discussion 419-21. Tseng JF; Warshaw AL, et al.

Serous cystic neoplasms of the pancreas: a clinicopathologic and immunohistochemical analysis. *Chin J Dig Dis* 2006;7(1): p39-44. Ji Y; Wang XN, et al.

Serous cystadenoma of the pancreas: limitations and pitfalls of endoscopic ultrasound-guided fine-needle aspiration biopsy. *Cancer* 2008; Apr 25;114(2): p102-10. Belsley NA; Pitman MB, et al.

Serous cystic neoplasms of the pancreas: an immunohistochemical analysis revealing alpha-inhibin, neuron-specific enolase, and MUC6 as new markers. *Am J Surg Pathol* 2004; Mar;28(3): p339-46. Kosmahl M; Wagner J, et al.

Pancreatic incidentalomas: clinical and pathologic spectrum. *Am J Surg* 2008; Mar;195(3): p329-32; discussion 332. Bruzoni M; Johnston E; Sasson AR .

Case No. 5, Accession No. 24975

January 2015

Alameda (Alameda County Medical Center) - Paget's disease (6)

Fontana (Kaiser Foundation Hospital) - Paget's disease

Glendale - Extramammary Paget's disease

Hayward Alameda (St. Rose Hospital) - Paget's disease, extramammary

Long Beach (Long Beach Memorial Hospital) - Extramammary Paget's

Long Beach (Long Beach Veterans Hospital) - Extramammary Paget's disease

Orinda (Kaiser Permanente) - Paget's and superficial invasive adenocarcinoma

Palo Alto (VA Palo Alto) - Extramammary Paget's disease

San Diego (Naval Medical Center) - Anal Paget's

San Jose - Paget's

San Francisco (San Francisco General Hospital) - Paget's disease of perineuroma

San Francisco (UCSF) - Paget's disease

Torrence (Harbor-UCLA Medical Center) - Paget's disease

Woodland Hills (Kaiser Permanente) - Extramammary Paget's disease

Arkansas (Associated Pathologists Laboratory) - Paget's disease (mucinous adenocarcinoma)

Colorado, Fort Collins - Paget's disease

Connecticut (Danbury Hospital) - Extramammary Paget's

Delaware (AFMES) - Paget's disease of anus

Florida (Florida Atlantic University) - Paget's disease of the anus

Florida (GastroEnterology Associates of Ocala) - Paget's disease, anal canal

Georgia (Wellstar Healthcare System) - Paget's disease (3)

Illinois (Heartland Regional Medical Center) - Paget's disease (rule out rectal primary)

Illinois, Oak Brook - Paget, periannal

Iowa (Allen Memorial Hospital) - Extramammary Paget disease

Maryland (University of Maryland) - Paget disease

Massachusetts (University of Massachusetts Medical Center Residents) - Extramammary Paget disease

Michigan (William Beaumont Hospital) - Paget disease

Minnesota (Fairview Ridges Hospital) - Extramammary Paget disease, ? invasion

Missouri (Washington University of St. Louis Fellows) - Adenosquamous carcinoma, superficially invasive

Nebraska (Creighton University Medical Center) - Extramammary Paget disease of anus

North Carolina, Clemmons - Paget disease

North Carolina (Eastern Carolina Pathology P.A.) - Invasive squamous cell carcinoma

Ohio (Summa Health System Residents) - Extramammary Paget disease

Ohio, Union Town - Paget disease with invasion

Ohio (University of Toledo Medical Center Residents) - Extramammary Paget disease

Pennsylvania (Drexel University College of Medicine Residents) - Extramammary Paget disease

Pennsylvania (Lehigh Valley Hospital) - Paget disease in the background of epithelioma-like changes

Puerto Rico (University of Puerto Rico) - Extramammary Paget disease

South Carolina (Medical University of South Carolina) - Paget disease

South Dakota (University of South Dakota Sanford School of Medicine) - Extramammary paget disease

Texas, Crystal Beach - Extramammary Paget disease

West Virginia (Greenbrier Valley Medical Center) - Anal Paget disease

Wisconsin (Medical Assessment and Consultation SC) - Paget disease of perianal area

Wisconsin (Medical College of Wisconsin) - Extramammary Paget disease

Australia (Royal Hobart Hospital) - Paget disease
Canada (Royal Prince Alfred Hospital) - Extramammary Paget
Canada (University of Sherbrooke) - Perianal extramammary Paget disease
Ireland (Bon Secours Hospital) - Extramammary Paget disease
Ireland (Mayo General Hospital) - Paget carcinoma of anus
Japan, Setagaya-Ku - Paget disease
Japan (University of Yamanashi) - Extramammary Paget disease (1); Hemorrhoids (1)
Oman (Khoula Hospital) - Extramammary Paget disease
Spain (CHUVI, Vigo) - Extramammary Paget disease

Case 5 - Diagnosis:

Extramammary Paget disease, perianal skin

Case 5 - References:

Extramammary Paget's disease not only mimicking but also accompanying condyloma acuminatum. A case report. *Dermatology* 2005;210(4): p315-8. Honda Y; Egawa K.
 Extramammary Paget's disease: treatment, prognostic factors and outcome in 76 patients. *Br J Dermatol* 2008; Feb;158(2): p313-8. Hatta N; Yamada M, et al.
 Perianal Paget's disease associated with rectal carcinoma: a rare report. *Int J Colorectal Dis* 2005; Mar;20(2): p199-200. de la Portilla F; de la Rosa A, et al.
 Prognostic indicators in 35 patients with extramammary Paget's disease. *Dermatol Surg* 2012; Dec;38(12): p1938-44. Ito Y; Igawa S, et al.
 HER-2/neu expression in extramammary Paget disease: a clinicopathologic and immunohistochemistry study of 47 cases with and without underlying malignancy. *J Cutan Pathol* 2009; Jul;36(7): p729-33. Plaza JA; Torres-Cabala C, et al.
 Perianal Paget disease: a case report and literature review. *Anticancer Res* 2012; Oct;32(10): p4461-5. Vergati M; Filingeri V, et al.

Case No. 6, Accession No. 31834

January 2015

Alameda (Alameda County Medical Center) - Carcinoma, favor cholangiocarcinoma (6)
Glendale - Synovial sarcoma
Hayward Alameda (St. Rose Hospital) - Epithelioid hemangioendothelioma (HPC pattern)
Long Beach (Long Beach Memorial Hospital) - Hemangioendothelioma
Long Beach (Long Beach Veterans Hospital) - Epithelioid hemangioma
Orinda (Kaiser Permanente) - Epithelioid hemangioendothelioma
Palo Alto (VA Palo Alto) - Epithelioid hemangioendothelioma
San Diego (Naval Medical Center) - Poorly differentiated hepatocellular carcinoma
San Jose - Hemangiopericytoma vs. synovial sarcoma
San Francisco (San Francisco General Hospital) - Sarcomatoid cholangiocarcinoma
San Francisco (UCSF) - Hepatocellular carcinoma
Torrence (Harbor-UCLA Medical Center) - Cholangiocarcinoma
Woodland Hills (Kaiser Permanente) - Synovial sarcoma
Arkansas (Associated Pathologists Laboratory) - Hepatocellular carcinoma, spindle cell variant
Colorado, Fort Collins - Hepatocellular carcinoma
Connecticut (Danbury Hospital) - Malignant hemangiopericytoma
Delaware (AFMES) - Poorly differentiated hepatocellular carcinoma
Florida (Florida Atlantic University) - Hepatocellular carcinoma
Florida (GastroEnterology Associates of Ocala) - Hepatocellular carcinoma, scirrhous variant
Georgia (Wellstar Healthcare System) - Cholangiocarcinoma (1); Poorly differentiated carcinoma (1)
Illinois (Heartland Regional Medical Center) - Cholangiocarcinoma
Illinois, Oak Brook - Hepatocellular carcinoma
Iowa (Allen Memorial Hospital) - Hepatocellular carcinoma
Maryland (University of Maryland) - Angiosarcoma
Massachusetts (University of Massachusetts Medical Center Residents) - Epithelioid hemangioendothelioma

Michigan (William Beaumont Hospital) - Fibrolamellar hepatocellular carcinoma
Minnesota (Fairview Ridges Hospital) - Kaposiform angiosarcoma
Missouri (Washington University of St. Louis Fellows) - Epithelioid hemangioendothelioma
Nebraska (Creighton University Medical Center) - Poorly differentiated hepatocellular carcinoma
North Carolina, Clemmons - Cholangiocarcinoma
North Carolina (Eastern Carolina Pathology P.A.) - Kaposi sarcoma
Ohio (Summa Health System Residents) - Inflammatory myofibroblastic tumor of liver
Ohio, Union Town - Epithelioid hemangioendothelioma
Ohio (University of Toledo Medical Center Residents) - Malignant solitary fibrous tumor
Pennsylvania (Drexel University College of Medicine Residents) - Epithelioid hemangioendothelioma
Pennsylvania (Lehigh Valley Hospital) - Metastatic synovial sarcoma
Puerto Rico (University of Puerto Rico) - Hepatocellular carcinoma r/o epithelioid angiosarcoma
South Carolina (Medical University of South Carolina) - Solitary fibrous tumor
Texas, Crystal Beach - Hepatocellular carcinoma with spindly features
West Virginia (Greenbrier Valley Medical Center) - Combined hepatocellular cholangiocarcinoma
Wisconsin (Medical Assessment and Consultation SC) - Solitary fibrous tumor
Wisconsin (Medical College of Wisconsin) - Sarcomatoid hepatocellular carcinoma
Australia (Royal Hobart Hospital) - Hepatocellular carcinoma
Canada (Royal Prince Alfred Hospital) - Scirrhus hepatocellular carcinoma
Canada (University of Sherbrooke) - Hepatocarcinoma spindle cell type
Ireland (Bon Secours Hospital) - Hepatocellular carcinoma variant
Ireland (Mayo General Hospital) - Epithelioid hemangioendothelioma
Japan, Setagaya-Ku - Hepatocellular carcinoma, poorly differentiated
Japan (University of Yamanashi) - Spindle cell hepatocellular carcinoma (1); Undifferentiated carcinoma (1)
Oman (Khoulia Hospital) - Hepatocellular carcinoma (scirrhus type)
Spain (CHUVI, Vigo) - Hemangioendothelioma vs. hepatocellular carcinoma

Case 6 - Diagnosis:

Hepatocellular carcinoma, liver

Case 6 - References:

Genomic profiling of cell lines for personalized targeted therapy for hepatocellular carcinoma. *Hepatology* 2013; Dec; 58(6): p2207. Deshmukh M; Hoshida Y.
 Statins may protect against hepatocellular carcinoma development in patients infected with hepatitis C virus, but what are the mechanisms? *J Clin Oncol* 2013; Nov 10;31(32): p4160-1. Clement S; Peyrou M, et al.
 Surveillance for hepatocellular carcinoma in alcoholic patients. *Am J Gastroenterol* 2013; Nov;108(11): p1811. Borro P; Testino G.
 Surveillance for hepatocellular carcinoma: how can we do better? *Am J Med Sci* 2013; Oct;346(4): p308-13. Hassett M; Yopp AC; Singal AG.
 Hepatocellular carcinoma presenting with multiple bone and soft tissue metastases and atypical cytomorphological features--a rare case report. *Diagn Cytopathol* 2013; Jul;41(7): p640-3. Rastogi A; Bihari C, et al.

Case No. 7, Accession No. 31730

January 2015

Alameda (Alameda County Medical Center) - Low grade neuroendocrine tumor (carcinoid) (6)
Fontana (Kaiser Foundation Hospital) - Neuroendocrine tumor
Glendale - Well-differentiated neuroendocrine tumor
Hayward Alameda (St. Rose Hospital) - Carcinoid
Long Beach (Long Beach Memorial Hospital) - Well-differentiated neuroendocrine tumor, WHO grade 1
Long Beach (Long Beach Veterans Hospital) - Neuroendocrine tumor, grade I
Orinda (Kaiser Permanente) - Neuroendocrine tumor
Palo Alto (VA Palo Alto) - Gastrointestinal neuroendocrine tumor
San Diego (Naval Medical Center) - Neuroendocrine tumor
San Jose - Carcinoid
San Francisco (San Francisco General Hospital) - Neuroendocrine tumor

San Francisco (UCSF) - Carcinoid tumor
Torrence (Harbor-UCLA Medical Center) - Low grade neuroendocrine carcinoma
Woodland Hills (Kaiser Permanente) - Neuroendocrine tumor, grade I
Arkansas (Associated Pathologists Laboratory) - Invasive carcinoid tumor
Colorado, Fort Collins - Low grade neuroendocrine carcinoma (carcinoid)
Connecticut (Danbury Hospital) - Neuroendocrine tumor, metastatic
Delaware (AFMES) - Well-differentiated neuroendocrine tumor
Florida (Florida Atlantic University) - Carcinoid
Florida (GastroEnterology Associates of Ocala) - Malignant neuroendocrine tumor
Georgia (Wellstar Healthcare System) - Well-differentiated neuroendocrine tumor (3)
Illinois (Heartland Regional Medical Center) - Neuroendocrine carcinoma, grade I (carcinoid)
Illinois, Oak Brook - Carcinoid tumor
Iowa (Allen Memorial Hospital) - Carcinoid tumor (low-grade neuroendocrine carcinoma)
Maryland (University of Maryland) - Well-differentiated neuroendocrine tumor
Massachusetts (University of Massachusetts Medical Center Residents) - Neuroendocrine carcinoma
Michigan (William Beaumont Hospital) - Low grade neuroendocrine tumor
Minnesota (Fairview Ridges Hospital) - Well-differentiated neuroendocrine tumor
Missouri (Washington University of St. Louis Fellows) - Neuroendocrine tumor, probable grade 2
Nebraska (Creighton University Medical Center) - Neuroendocrine tumor (well-differentiated, grade I)
North Carolina, Clemmons - Carcinoid (well-differentiated neuroendocrine carcinoma)
North Carolina (Eastern Carolina Pathology P.A.) - Carcinoid tumor
Ohio (Summa Health System Residents) - Well-differentiated neuroendocrine tumor
Ohio, Union Town - Well-differentiated neuroendocrine tumor
Ohio (University of Toledo Medical Center Residents) - Neuroendocrine tumor
Pennsylvania (Drexel University College of Medicine Residents) - Low grade neuroendocrine tumor
Pennsylvania (Lehigh Valley Hospital) - Carcinoid
Puerto Rico (University of Puerto Rico) - Well-differentiated neuroendocrine tumor (carcinoid)
South Carolina (Medical University of South Carolina) - Well-differentiated neuroendocrine tumor
South Dakota (University of South Dakota Sanford School of Medicine) - Neuroendocrine carcinoma
Texas, Crystal Beach - Intestinal carcinoid
West Virginia (Greenbrier Valley Medical Center) - Carcinoid tumor
Wisconsin (Medical Assessment and Consultation SC) - Invasive, well-differentiated neuroendocrine carcinoma (carcinoid)
Wisconsin (Medical College of Wisconsin) - Neuroendocrine tumor
Australia (Royal Hobart Hospital) - Carcinoid tumor, small bowel
Canada (Royal Prince Alfred Hospital) - Carcinoid
Canada (University of Sherbrooke) - Well-differentiated neuroendocrine tumor
Ireland (Bon Secours Hospital) - Neuroendocrine tumor
Ireland (Mayo General Hospital) - Neuroendocrine tumor, well-differentiated, grade I
Japan, Setagaya-Ku - Carcinoid
Japan (University of Yamanashi) - Neuroendocrine tumor
Oman (Khoulia Hospital) - Well-differentiated neuroendocrine carcinoma
Spain (CHUVI, Vigo) - Neuroendocrine tumor

Case 7 - Diagnosis:

Low grade carcinoid tumor (variant of neuroendocrine carcinoma), small intestine

Case 7 - References:

Multiple carcinoid tumors of the small intestine preoperatively diagnosed by double-balloon endoscopy. *Med Sci Monit* 2012; Dec;18(12): pCS109-12. Lee SY; Tomoyoshi S, et al.
 Prognostic significance of Ki-67 expression in rectal carcinoid tumors. *Korean J Gastroenterol* (Korea 2013; Feb;61(2): p82-7. Hong SM; Kim YS; Moon JS; Kim JN; Oh MK; Kwon SO; Jeong SY; Hong SW; Kang YK.
 Carcinoid tumors of the small-bowel: evaluation with 64-section CT-enteroclysis. *Eur J Radiol* 2013; Jun;82(6): p943-50. Soyer P; Dohan A; Eveno C; Dray X; Hamzi L; Hoeffel C; Kaci R; Boudiaf M.
 A pure primary low-grade neuroendocrine carcinoma (carcinoid tumor) of the prostate. *Int Urol Nephrol* 2010; Sep;42(3): p683-7. Giordano S; Tolonen T, et al.

The multiple faces of carcinoid tumor: performance characteristics of low-grade neuroendocrine carcinoma metastatic to the liver in an educational interlaboratory slide comparison program. *Arch Pathol Lab Med* 2011; Mar;135(3): p354-60. Clayton AC; Wasserman PG, et al.
 Composite intestinal adenoma-microcarcinoid. *Am J Surg Pathol* 2012; Feb;36(2): p292-5. Lin J; Goldblum JR, et al.

Case No. 8, Accession No. 31829

January 2015

Alameda (Alameda County Medical Center) - Metastatic adenocarcinoma (6)
Fontana (Kaiser Foundation Hospital) - Metastatic adenocarcinoma
Glendale - Adenocarcinoma
Hayward Alameda (St. Rose Hospital) - Adenocarcinoid
Long Beach (Long Beach Memorial Hospital) - Somatostatin producing neuroendocrine tumor
Long Beach Long Beach Veterans Hospital) - Moderate to poorly differentiated adenocarcinoma consistent with pancreatobiliary type
Orinda (Kaiser Permanente) - Adenocarcinoma with pancreaticobiliary features
Palo Alto (VA Palo Alto) - Metastatic adenocarcinoma
San Diego (Naval Medical Center) - Adenocarcinoma consistent with ampullary primary
San Jose - Metastatic adenocarcinoma
San Francisco (San Francisco General Hospital) - Metastatic adenocarcinoma
San Francisco (UCSF) - Cholangiocarcinoma
Torrence (Harbor-UCLA Medical Center) - Metastatic adenocarcinoma
Woodland Hills (Kaiser Permanente) - Metastatic adenocarcinoma
Arkansas (Associated Pathologists Laboratory) - Metastatic adenocarcinoma
Colorado, Fort Collins - Cholangiocarcinoma
Connecticut (Danbury Hospital) - Metastatic mucin secreting adenocarcinoma
Delaware (AFMES) - Adenocarcinoma
Florida (Florida Atlantic University) - Metastatic pancreatic adenocarcinoma to a lymph node
Florida (GastroEnterology Associates of Ocala) - Hepatocellular carcinoma
Georgia (Wellstar Healthcare System) - Adenocarcinoma (3)
Illinois (Heartland Regional Medical Center) - Adenocarcinoma, metastatic
Illinois, Oak Brook - Adenocarcinoma
Iowa (Allen Memorial Hospital) - Adenocarcinoma
Maryland (University of Maryland) - Adenocarcinoma
Massachusetts (University of Massachusetts Medical Center Residents) - Metastatic cholangiocarcinoma
Michigan (William Beaumont Hospital) - Metastatic adenocarcinoma consistent with peri-ampullary primary
Minnesota (Fairview Ridges Hospital) - Metastatic adenocarcinoma, pancreatic biliary type
Missouri (Washington University of St. Louis Fellows) - Cholangiocarcinoma
Nebraska (Creighton University Medical Center) - Metastatic adenocarcinoma of pancreatobiliary origin
North Carolina, Clemmons - Metastatic adenocarcinoma
North Carolina (Eastern Carolina Pathology P.A.) - Invasive well-differentiated adenocarcinoma
Ohio (Summa Health System Residents) - Poorly differentiated adenocarcinoma
Ohio, Union Town - Adenocarcinoma
Ohio (University of Toledo Medical Center Residents) - Metastatic adenocarcinoma from pancreatobiliary peri-ampulla
Pennsylvania (Drexel University College of Medicine Residents) - Metastatic adenocarcinoma of pancreatobiliary origin
Pennsylvania (Lehigh Valley Hospital) - Adenocarcinoma
Puerto Rico (University of Puerto Rico) - Metastatic adenocarcinoma
South Carolina (Medical University of South Carolina) - Metastatic adenocarcinoma
South Dakota (University of South Dakota Sanford School of Medicine) - Adenocarcinoma
Texas, Crystal Beach - Adenocarcinoma ampulla of vater
West Virginia (Greenbrier Valley Medical Center) - Ampullary adenocarcinoma
Wisconsin (Medical Assessment and Consultation SC) - Metastatic adenocarcinoma with signet ring cells
Wisconsin (Medical College of Wisconsin) - Metastatic adenocarcinoma
Australia (Royal Hobart Hospital) - Poorly differentiated mucinous adenocarcinoma, ampulla

Canada (Royal Prince Alfred Hospital) - Adenocarcinoma favor pancreatic ductal
Canada (University of Sherbrooke) - Poorly differentiated adenocarcinoma
Ireland (Bon Secours Hospital) - Adenocarcinoma, probably pancreatic
Ireland (Mayo General Hospital) - Metastatic adenocarcinoma, NOS
Japan, Setagaya-Ku - Cholangiocarcinoma, metastatic
Japan (University of Yamanashi) - Metastasis of adenocarcinoma
Oman (Khoula Hospital) - Metastatic adenocarcinoma
Spain (CHUVI, Vigo) - Adenocarcinoma

Case 8 - Diagnosis:

Metastatic periampullary adenocarcinoma, hepatic artery lymph node

Case 8 - References:

Periampullary carcinoma: better prognosis with early pre-stenting referral to surgery. *Mymensingh Med J* 2013; Jan;22(1): p110-5. Das BC; Khan ZR.
 Hepatobiliary cystadenoma and cystadenocarcinoma: a single center experience. *Tumori* 2013; Mar-Apr;99(2): p261-5. Li X; Zhang JL, et al.
 Education and imaging. Hepatobiliary and pancreatic: intrahepatic biliary cystadenocarcinoma. *J Gastroenterol Hepatol* 2013; Apr;28(4): p753. Okano K; Oshima M, et al.
 The effect of wait times on oncological outcomes from periampullary adenocarcinomas. *J Surg Oncol* 2013; Jun;107(8): p853-8. McLean SR; Karsanji D, et al.
 Ampullary and periampullary adenocarcinoma: new challenges in management of recurrence. *JOP* 2013; Mar;14(2): p158-60. Ramfidis VS; Syrigos KN; Saif MW.

Case No. 9, Accession No. 20453

January 2015

Alameda (Alameda County Medical Center) - Invasive squamous cell carcinoma (6)
Fontana (Kaiser Foundation Hospital) - Squamous cell carcinoma
Glendale - Basaloid squamous cell carcinoma
Hayward Alameda (St. Rose Hospital) - Basaloid carcinoma
Long Beach (Long Beach Memorial Hospital) - Basaloid squamous cell carcinoma
Long Beach (Long Beach Veterans Hospital) - Squamous cell carcinoma consistent with some basaloid pattern
Orinda (Kaiser Permanente) - Invasive squamous cell carcinoma
Palo Alto (VA Palo Alto) - Basaloid squamous cell carcinoma
San Diego (Naval Medical Center) - Squamous cell carcinoma
San Jose - Squamous carcinoma
San Francisco (San Francisco General Hospital) - Poorly differentiated squamous cell carcinoma
San Francisco (UCSF) - Squamous cell carcinoma of the anus
Torrence (Harbor-UCLA Medical Center) - Invasive squamous cell carcinoma, non-keratinizing type
Woodland Hills (Kaiser Permanente) - Invasive squamous cell carcinoma
Arkansas (Associated Pathologists Laboratory) - Invasive squamous cell carcinoma, basaloid variant
Colorado, Fort Collins - Invasive poorly differentiated squamous cell carcinoma
Connecticut (Danbury Hospital) - Squamous cell carcinoma, basaloid type
Delaware (AFMES) - Basaloid squamous cell carcinoma
Florida (Florida Atlantic University) - Verrucous carcinoma of the anus
Florida (GastroEnterology Associates of Ocala) - ACIN-3
Georgia (Wellstar Healthcare System) - Squamous cell carcinoma (3)
Illinois (Heartland Regional Medical Center) - Invasive squamous cell carcinoma (with basaloid features)
Illinois, Oak Brook - Squamous carcinoma of basaloid type
Iowa (Allen Memorial Hospital) - Squamous cell carcinoma of basaloid type
Maryland (University of Maryland) - Cloacogenic squamous cell carcinoma
Massachusetts (University of Massachusetts Medical Center Residents) - Invasive squamous cell carcinoma
Michigan (William Beaumont Hospital) - Basaloid squamous cell carcinoma
Minnesota (Fairview Ridges Hospital) - Squamous cell carcinoma
Missouri (Washington University of St. Louis Follows) - Basaloid squamous cell carcinoma

Nebraska (Creighton University Medical Center) - Squamous cell carcinoma (basaloid/cloacogenic)
North Carolina, Clemmons - Squamous cell carcinoma
North Carolina (Eastern Carolina Pathology P.A.) - Basaloid squamous cell carcinoma
Ohio (Summa Health System Residents) - Poorly differentiated squamous cell carcinoma
Ohio, Union Town - Basaloid squamous cell carcinoma
Ohio (University of Toledo Medical Center Residents) - Basaloid squamous cell carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Invasive squamous cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Basaloid squamous cell carcinoma
Puerto Rico (University of Puerto Rico) - Squamous cell carcinoma showing a combination of basaloid and squamous features
South Carolina (Medical University of South Carolina) - Basaloid squamous cell carcinoma
South Dakota (University of South Dakota Sanford School of Medicine) - Basaloid squamous cell carcinoma
Texas, Crystal Beach - Carcinoma of anus with basaloid features
West Virginia (Greenbrier Valley Medical Center) - Squamous cell carcinoma arising from a condyloma acuminatum
Wisconsin (Medical Assessment and Consultation SC) - Basaloid (cloacogenic) carcinoma
Wisconsin (Medical College of Wisconsin) - Basaloid squamous cell carcinoma
Australia (Royal Hobart Hospital) - Basaloid squamous cell carcinoma, anus
Canada (Royal Prince Alfred Hospital) - Basaloid carcinoma
Canada (University of Sherbrooke) - Basaloid squamous carcinoma
Ireland (Bon Secours Hospital) - Basaloid squamous cell carcinoma
Ireland (Mayo General Hospital) - Basaloid squamous cell carcinoma
Japan, Setagaya-Ku - Squamous cell carcinoma
Japan (University of Yamanashi) - Squamous cell carcinoma
Oman (Khoulia Hospital) - Basaloid squamous cell carcinoma
Spain (CHUVI, Vigo) - Basaloid carcinoma

Case 9 - Diagnosis:

Basaloid squamous cell carcinoma, anus

Case 9 - References:

Clinicopathological analysis of basal cell carcinoma of the anal region and its distinction from basaloid squamous cell carcinoma. *Mod Pathol* 2013; Oct;26(10): p1382-9. Patil DT; Goldblum JR; Billings SD.
 Squamous cell carcinoma antigen: a potentially useful prognostic marker in squamous cell carcinoma of the anal canal and margin. *Cancer* 2013; Jul 1;119(13): p2391-8. Williams M; Swamipillai A, et al.
 Squamous cell carcinoma of the anal canal: a review of the aetiology, presentation, staging, prognosis and methods available for treatment. *Sex Health* 2012; Dec;9(6): p593-609. Szmulowicz UM; Wu JS.
 Squamous-cell carcinoma of the anal canal: room for improvement with targeted therapy. *Clin Res Hepatol Gastroenterol* 2012; Jun;36(3): p209-13. Oliveira S; Teixeira L, et al.
 The reporting of anal cytology and histology samples: establishing terminology and criteria. *Sex Health* 2012; Dec;9(6): p562-7. Roberts JM; Ekman D.

Case No. 10, Accession No. 31827

January 2015

Alameda (Alameda County Medical Center) - Metastatic renal cell carcinoma (6)
Fontana (Kaiser Foundation Hospital) - Metastatic renal cell carcinoma, clear cell type
Glendale - Metastatic renal cell carcinoma
Hayward Alameda (St. Rose Hospital) - Renal cell carcinoma, metastatic
Long Beach (Long Beach Memorial Hospital) - Metastatic renal cell carcinoma
Long Beach (Long Beach Veterans Hospital) - Metastatic clear cell carcinoma consistent with history of prior renal cell carcinoma
Orinda (Kaiser Permanente) - Metastatic renal cell carcinoma
Palo Alto (VA Palo Alto) - Metastatic renal cell carcinoma
San Diego (Naval Medical Center) - Metastatic renal cell carcinoma
San Jose - Metastatic renal cell carcinoma
San Francisco (San Francisco General Hospital) - Metastatic renal cell carcinoma

San Francisco (UCSF) - Metastatic renal cell carcinoma
Torrence (Harbor-UCLA Medical Center) - Metastatic renal cell carcinoma
Woodland Hills (Kaiser Permanente) - Metastatic clear cell renal cell carcinoma
Arkansas (Associated Pathologists Laboratory) - Metastatic renal cell carcinoma, clear cell type
Colorado, Fort Collins - Metastatic clear cell renal cell carcinoma
Connecticut (Danbury Hospital) - Metastatic renal cell carcinoma
Delaware (AFMES) - Metastatic renal cell carcinoma
Florida (Florida Atlantic University) - Metastatic clear cell renal cell carcinoma
Florida (GastroEnterology Associates of Ocala) - Metastatic carcinoma, clear-cell consistent with renal origin
Georgia (Wellstar Healthcare System) - Metastatic renal cell carcinoma (3)
Illinois (Heartland Regional Medical Center) - Metastatic clear cell carcinoma, renal origin
Illinois, Oak Brook - Metastatic renal cell carcinoma
Iowa (Allen Memorial Hospital) - Metastatic renal cell carcinoma, clear cell type
Maryland (University of Maryland) - Metastatic renal cell carcinoma
Massachusetts (University of Massachusetts Medical Center Residents) - Metastatic clear cell renal cell carcinoma
Michigan (William Beaumont Hospital) - Metastatic renal cell carcinoma, clear cell type
Minnesota (Fairview Ridges Hospital) - Metastatic clear cell renal cell carcinoma
Missouri (Washington University of St. Louis Fellows) - Renal cell carcinoma, metastatic
Nebraska (Creighton University Medical Center) - Metastatic renal cell (clear cell) carcinoma
North Carolina, Clemmons - Metastatic renal cell carcinoma
North Carolina (Eastern Carolina Pathology P.A.) - Clear cell renal cell carcinoma
Ohio (Summa Health System Residents) - Metastatic clear cell renal cell carcinoma
Ohio, Union Town - Metastatic renal cell carcinoma
Ohio (University of Toledo Medical Center Residents) - Metastatic renal cell carcinoma, clear cell type
Pennsylvania (Drexel University College of Medicine Residents) - Metastatic clear cell renal cell carcinoma
Pennsylvania (Lehigh Valley Hospital) - Metastatic renal cell carcinoma vs. epithelioid GIST
Puerto Rico (University of Puerto Rico) - Metastatic carcinoma consistent with clear cell renal cell carcinoma, primary
South Carolina (Medical University of South Carolina) - Metastatic renal cell carcinoma
South Dakota (University of South Dakota Sanford School of Medicine) - Metastatic renal cell carcinoma
Texas, Crystal Beach - Clear cell carcinoma renal metastatic
West Virginia (Greenbrier Valley Medical Center) - Metastatic hypernephroma
Wisconsin (Medical Assessment and Consultation SC) - Clear cell renal cell carcinoma, metastatic to colon
Wisconsin (Medical College of Wisconsin) - Metastatic clear cell renal cell carcinoma
Australia (Royal Hobart Hospital) - Metastatic clear cell carcinoma, kidney
Canada (Royal Prince Alfred Hospital) - Metastatic renal cell carcinoma
Canada (University of Sherbrooke) - Metastatic renal cell carcinoma
Ireland (Bon Secours Hospital) - Metastatic clear cell renal cell carcinoma
Ireland (Mayo General Hospital) - Metastatic renal cell carcinoma
Japan, Setagaya-Ku - Metastasis of clear cell carcinoma
Japan (University of Yamanashi) - Metastatic renal clear cell carcinoma
Oman (Khoula Hospital) - Metastatic renal cell carcinoma
Spain (CHUVI, Vigo) - Clear cell renal cell carcinoma

Case 10 - Diagnosis:

Metastatic renal cell carcinoma, clear cell type, large intestine

Case 10 - References:

Multiple intussusceptions revealing metastases from renal carcinoma to the small intestine. *J Visc Surg* 2012; Jun;149(3): pe223-4. Aissa A; Kherifech M, et al.
 Quality of life and supportive care for patients with metastatic renal cell carcinoma. *Cancer Metastasis Rev* 2012; Sep;31 Suppl 1:S33-9. Lambea J; Hinojo C, et al.
 Metastatic renal cell carcinoma in children and adolescents: a 30-year unsuccessful story. *J Pediatr Hematol Oncol* 2012; Oct;34(7): pe277-81. Indolfi P; Spreafico F, et al.
 Tumour burden is an independent prognostic factor in metastatic renal cell carcinoma. *BJU Int* 2012; Dec;110(11): p1747-53. Iacovelli R; Lanoy E, et al.
 Predictors of response to targeted therapy in renal cell carcinoma. *Arch Pathol Lab Med* 2012; May;136(5): p490-5. Eisengart LJ; MacVicar GR; Yang XJ.