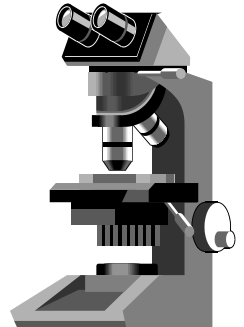


CALIFORNIA
TUMOR TISSUE REGISTRY

ENDOCRINE / THYROID PATHOLOGY

Minutes – Subscription A

May 2015



SUGGESTED READING (General Topics from Recent Literature):

Bergeron JP, Perry KD, et al. Endoscopic Ultrasound-Guided Pancreatic Fine-Needle Aspiration: Potential Pitfalls in One Institution's Experience of 1212 Procedures. *Cancer Cytopathol* 2015;123 (February): 98-107.

Chitkara Y. Upfront Special Staining for *Helicobacter pylori* in Gastric Biopsy Specimens Is Not Indicated. *Am J Clin Pathol* 2015; 143 (January): 84-88

Cannegieter SC, Horvath-Puho E, et al. Risk of Venous and Arterial Thrombotic Events in Patients Diagnosed With Superficial Vein Thrombosis: A Nationwide Cohort Study. *Blood* 2015; 125 (January 8): 229-235.

Larson AR, Cibas ES, et al. Uncovering Bias in the Cytologic Evaluation of Cervical Squamous Lesions. *Am J Clin Pathol* 2015; 143 (January): 143-148.

Arps DP, Chen S, et al. Selected Inflammatory Imitators of Mycosis Fungoides: Histologic Features and Utility of Ancillary Studies. *Arch Pathol Lab Med* 2014; 138 (October): 1319-1327.

Tajudeen BA, Arshi A, et al. Importance of Tumor Grade in Esthesioneuroblastoma Survival: A Population-Based Analysis. *JAMA Otolaryngol Head Neck Surg* 2014; 140 (December): 1124-1129.

California Tumor Tissue Registry
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Loma Linda University School of Medicine
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FILE DIAGNOSES

CTTR Subscription A

May 2015

Case 1: Neuroblastoma with extensive maturation / ganglioneuroblastoma, adrenal

Case 2: Pleomorphic adenoma (mixed tumor), left parapharyngeal

Case 3: Hashimoto thyroiditis, thyroid

Case 4: Immature teratoma, thyroid

Case 5: Lithium-associated diffuse thyroiditis and goiter

Case 6: Papillary carcinoma, classic variant, thyroid

Case 7: Minimally invasive (micro-invasive) follicular carcinoma, thyroid

Case 8: Follicular “Hurthle cell” carcinoma, thyroid

Case 9: Medullary carcinoma, thyroid

Case 10: Undifferentiated (anaplastic) carcinoma, thyroid

Bishop (Northern Inyo Hospital) - Ganglioneuroma
Camarillo, Ca (St Johns Regional) - Ganglioneuroblastoma
Fontana (Kaiser Foundation Hospital) - Ganglioneuroma
Glendale - Ganglioneuroblastoma
Lakewood – Adrenal, Neuroblastoma
Livermore – Ganglioneuroblastoma
Loma Linda (LLU Residents) - Ganglioneuroma
Long Beach (Long Beach VA) - Neuroblastoma
Oakland (ACMC) – Ganglioneuroblastoma (6)
Palo Alto (VA Palo Alto) – Ganglioneuroma
San Francisco (San Francisco General Hospital) - Ganglioneuroma
San Francisco (UCSF) - Ganglioneuroma
Santa Barbara (Miramonte Laboratory) - Ganglioneuroma
Woodland Hills (Kaiser Permanente) - Ganglioneuroblastoma
Arkansas, El Dorado (Associated Path Lab) – Ganglioneuroblastoma
Colorado, Fort Collins - Ganglioneuroma
Delaware, Newark (AFMES) – Ganglioneuroblastoma
Florida (Munroe Hospital) - Ganglioneuroma
Florida (GastroEnterology Associates of Ocala) - Ganglioneuroblastoma
Georgia, Atlanta - Ganglioneuroblastoma
Georgia (Wellstar Healthcare System) - Ganglioneuroblastoma (4)
Illinois (Heartland Regional Medical Center) - Ganglioneuroblastoma
Iowa (Allen Memorial Hospital) - Ganglioneuroblastoma
Kansas (Peterson Labs) – Ganglioneuroblastoma (2)
Louisiana (LSUHC) - Ganglioneuroma
Maryland (University of Maryland Medical System) - Ganglioneuroblastoma, schwannian stroma rich
Minnesota (Fairview Ridges Hospital) - Ganglioneuroblastoma
Mississippi (The University of Mississippi Medical Center) - Ganglioneuroblastoma
Nebraska (Creighton University Medical Center) - Ganglioneuroblastoma
North Carolina (Eastern Carolina Pathology) – Pheochromocytoma
North Carolina, Clemmons – Ganglioneuroblastoma
Ohio, (Summa Health Residents) – Ganglioneuroblastoma (2) v Ganglioneuroma (2)
Ohio, Toledo – Ganglioneuroblastoma
Ohio, Union Town - Ganglioneuroma
Pennsylvania (Drexel University College of Medicine Residents) - Ganglioneuroma
Pennsylvania (Lehigh Valley Hospital) - Ganglioneuroma
Puerto Rico (University of Puerto Rico) – Intermixed ganglioneuroblastoma
Texas, Crystal Beach - Neuroblastoma
Texas, Lubbock - Ganglioneuroblastoma
Texas (Baylor Scott & White) – Ganglioneuroma vs mostly differentiated ganglioneuroblastoma
Washington (Sound Pathology Associates) – Differentiating neuroblastoma
West Virginia (Greenbrier Valley Medical Center) - Ganglioneuroma
Australia (Royal Hobart Hospital) - Ganglioneuroma
Australia (Royal Prince Alfred Hospital) - Ganglioneuroblastoma
Ireland (Bon Secours Hospital) – Ganglioneuroma
Ireland (Kerry General Hospital) - Ganglioneuroblastoma
Ireland (Mayo General Hospital) - Ganglioneuroma
Japan (Asahi General Hospital) - Ganglioneuroma
Japan (Lions Mansion) – Ganglioneuroma, schwannian stroma-dominant, mature, left adrenal
Japan - Ganglioneuroma
Oman (Khoula Hospital) - Ganglioneuroma
Spain (CHIVI Hospital) - Ganglioneuroblastoma

Case 1 - Diagnosis: Neuroblastoma with extensive maturation / ganglioneuroblastoma, adrenal

Case 1 - References:

A composite pheochromocytoma/ganglioneuroblastoma of the adrenal gland.

Pediatr Blood Cancer 2010 Jul 1;54(7): p1032-4

Thiel EL; Trost BA; Tower RL

Adult-onset adrenal ganglioneuroblastoma - Bone metastasis two years after surgery: report of a case.

Surg Today 2010 May;40(5): p482-6

Mizuno S; Iida T; Fujita S

Thymoma with ganglioneuroblastomatous component: case report.

Virchows Arch 2008 Mar;452(3): p319-24

Kashiwabara K; Ikota H, et al.

Retroperitoneal ganglioneuroblastoma resected 8 years after mass screening: a case report.

J Pediatr Surg 2007 Nov;42(11): pE29-32

Nakaoka T; Uemura S, et al.

Life-threatening complications of an extremely rare tumor of the kidney: adult-type primary renal ganglioneuroblastoma.

South Med J 2007 Aug;100(8): p852-3

Kurt E; Filiz G, et al.

Metastatic ganglioneuroblastoma in head and neck diagnosed by fine needle aspiration: a case report.

Acta Cytol 2007 May-Jun;51(3): p429-33

Daneshbod Y; Khojasteh HN, et al.

A rare ganglioneuroblastoma secreting dopamine and the value of its measurement in diagnosis and prognosis.

Ann Clin Biochem 2006 Jan;43(Pt 1): p73-6

Sargazi M; Smith ML, et al.

Case No. 2, Accession No. 31863

May 2015

Bishop (Northern Inyo Hospital) - Pleomorphic adenoma

Camarillo, Ca (St Johns Regional) - Mixed tumor

Fontana (Kaiser Foundation Hospital) - Pleomorphic adenoma

Glendale - Benign mixed tumor

Lakewood – Salivary gland, pleomorphic adenoma

Livermore – Pleomorphic adenoma (with adenoid cystic like areas)

Loma Linda (LLU Residents) – Pleomorphic adenoma

Long Beach (Long Beach VA) – Pleomorphic adenoma

Oakland (ACMC) – Benign mixed tumor (Pleomorphic adenoma) (6)

Palo Alto (VA Palo Alto) – Pleomorphic adenoma

San Francisco (San Francisco General Hospital) - Pleomorphic Adenoma

San Francisco (UCSF) - Pleomorphic adenoma

Santa Barbara (Miramonte Laboratory) - Pleomorphic adenoma

Woodland Hills (Kaiser Permanente) - Pleomorphic adenoma

Arkansas, El Dorado (Associated Path Lab) – Pleomorphic adenoma

Colorado, Fort Collins - Benign mixed tumor

Delaware, Newark (AFMES) – Pleomorphic adenoma

Florida (Munroe Hospital) – Pleomorphic adenoma

Florida (GastroEnterology Associates of Ocala) - Pleomorphic Adenoma

Georgia, Atlanta - Pleomorphic adenoma

Georgia (Wellstar Healthcare System) - Pleomorphic adenoma (4)

Illinois (Heartland Regional Medical Center) - Pleomorphic adenoma
Iowa (Allen Memorial Hospital) - Pleomorphic adenoma
Kansas (Peterson Labs) – Pleomorphic adenoma (2)
Louisiana (LSUHC) – Pleomorphic adenoma
Maryland (University of Maryland Medical System) - Mixed tumor
Minnesota (Fairview Ridges Hospital) - Pleomorphic adenoma
Mississippi (The University of Mississippi Medical Center) - Pleomorphic adenoma
Nebraska (Creighton University Medical Center) - Pleomorphic adenoma
North Carolina (Eastern Carolina Pathology) – Pleomorphic adenoma
North Carolina, Clemmons – Pleomorphic adenoma
Ohio, (Summa Health Residents) –Pleomorphic adenoma
Ohio, Toledo – Pleomorphic adenoma
Ohio, Union Town – Pleomorphic adenoma
Pennsylvania (Drexel University College of Medicine Residents) - Pleomorphic adenoma
Pennsylvania (Lehigh Valley Hospital) - Pleomorphic adenoma
Puerto Rico (University of Puerto Rico) – Pleomorphic adenoma
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Cellular mixed tumor salivary gland
Texas, Lubbock - Pleomorphic adenoma
Texas (Baylor Scott & White) – Pleomorphic adenoma
Washington (Sound Pathology Associates) – Pleomorphic adenoma
West Virginia (Greenbrier Valley Medical Center) - Pleomorphic Adenoma
Australia (Royal Hobart Hospital) - Pleomorphic adenoma
Australia (Royal Prince Alfred Hospital) - Pleomorphic adenoma
Ireland (Bon Secours Hospital) – Pleomorphic adenoma
Ireland (Kerry General Hospital) - Pleomorphic salivary adenoma
Ireland (Mayo General Hospital) - Mixed tumor of salivary gland (Pleomorphic Adenoma)
Japan (Asahi General Hospital) - Pleomorphic adenoma
Japan (Lions Mansion) – Pleomorphic adenoma, left parapharyngeal tissue
Japan – Parathyroid adenoma
Oman (Khoula Hospital) – Pleomorphic adenoma
Spain (CHIVI Hospital) - Pleomorphic adenoma

Case 2 - Diagnosis: Pleomorphic adenoma (mixed tumor), left parapharyngeal

Case 2 - References:

Simultaneous pleomorphic adenoma of the left parotid gland and adenoid cystic carcinoma of the contralateral sublingual salivary gland: a case report.

Oral Maxillofac Surg 2009 Dec;13(4): p221-4

Papadogeorgakis N; Kalfarentzos EF, et al.

Update on selected salivary gland neoplasms.

Arch Pathol Lab Med 2009 Nov;133(11): p1763-74

McHugh JB; Visscher DW; Barnes EL

Recurrence of pleomorphic adenoma of the palate after sixteen years: case report and an analysis of the literature.

J Biol Regul Homeost Agents 2009 Oct-Dec;23(4): p225-9

Berardi D; Scoccia A, et al.

Pleomorphic adenoma with mucinous and squamous differentiation: a mimicker of mucoepidermoid carcinoma.

Int J Surg Pathol 2009 Aug;17(4): p335-7

Guo SP; Cheuk W; Chan JK

Adenoid cystic carcinoma ex pleomorphic adenoma of the parotid gland.

Head Neck Pathol 2009 Jun;3(2): p159-62

Ide F; Mishima K, et al.

Bishop (Northern Inyo Hospital) - Hashimotos thyroiditis
Camarillo, Ca (St Johns Regional) - Chronic thyroiditis
Fontana (Kaiser Foundation Hospital) - Hashimoto thyroiditis
Glendale - Hashimotos thyroiditis
Lakewood – Hashimotos thyroiditis
Livermore – Hashimoto disease
Loma Linda (LLU Residents) – Goiter involved by chronic lymphocytic thyroiditis (Hashimotos thyroiditis)
Long Beach (Long Beach VA) – Hashimotos thyroiditis
Oakland (ACMC) – Nodular hyperplasia (6)
Palo Alto (VA Palo Alto) – Hashimotos thyroiditis/Chronic lymphocytic thyroiditis
San Francisco (San Francisco General Hospital) - Chronic lymphocytic thyroiditis
San Francisco (UCSF) - Chronic lymphocytic thyroiditis
Santa Barbara (Miramonte Laboratory) - Lymphocytic thyroiditis
Woodland Hills (Kaiser Permanente) - Lymphocytic thyroiditis
Arkansas, El Dorado (Associated Path Lab) – Hashimotos thyroiditis
Colorado, Fort Collins - Lymphocytic thyroiditis
Delaware, Newark (AFMES) – Hashimotos thyroiditis
Florida (Munroe Hospital) – Hashimotos thyroiditis
Florida (GastroEnterology Associates of Ocala) - Chronic lymphocytic thyroiditis “Thyroiditis with hyperplasia”
Georgia, Atlanta - Lymphocytic thyroiditis
Georgia (Wellstar Healthcare System) - Hashimotos thyroiditis / Lymphocytic thyroiditis (2) / Nodular hyperplasia, thyroiditis
Illinois (Heartland Regional Medical Center) - Adenomatous nodules and Hashimotos thyroiditis
Iowa (Allen Memorial Hospital) - Lymphocytic thyroiditis
Kansas (Peterson Labs) – Lymphocytic thyroiditis / Hashimotos thyroiditis
Louisiana (LSUHC) – Nodular goiter
Maryland (University of Maryland Medical System) - Goiter with Hashimotos thyroiditis
Minnesota (Fairview Ridges Hospital) - Hashimotos thyroiditis with nodular hyperplasia
Mississippi (The University of Mississippi Medical Center) - Lymphocytic thyroiditis
Nebraska (Creighton University Medical Center) - Hashimotos thyroiditis
North Carolina (Eastern Carolina Pathology) – Hashimoto thyroiditis
North Carolina, Clemmons – Adenomatoid nodules with lymphocytic thyroiditis
Ohio, (Summa Health Residents) – Chronic lymphocytic thyroiditis
Ohio, Toledo – Hashimoto’s Thyroiditis
Ohio, Union Town – Hashimoto’s Thyroiditis
Pennsylvania (Drexel University College of Medicine Residents) - Lymphocytic thyroiditis
Pennsylvania (Lehigh Valley Hospital) - Goiter with lymphocytic thyroiditis
Puerto Rico (University of Puerto Rico) – Nodular lymphocytic thyroiditis
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Hashimoto thyroiditis
Texas, Lubbock - Hashimoto thyroiditis
Texas (Baylor Scott & White) – Nodular goiter with lymphocytic thyroiditis
Washington (Sound Pathology Associates) – Chronic lymphocytic thyroiditis
West Virginia (Greenbrier Valley Medical Center) - Hashimoto thyroiditis
Australia (Royal Hobart Hospital) - Hashimotos thyroiditis
Australia (Royal Prince Alfred Hospital) - Hashimoto thyroiditis
Ireland (Bon Secours Hospital) – Hashimoto’s thyroiditis
Ireland (Kerry General Hospital) - Lymphocytic thyroiditis
Ireland (Mayo General Hospital) - Lymphocytic / Hashimotos thyroiditis
Japan (Asahi General Hospital) - Hashimoto thyroiditis

Japan (Lions Mansion) – Adenomatous goiter, thyroid
Japan – Nodular hyperplasia
Oman (Khoulia Hospital) – Nodular hyperplasia with lymphocytic thyroiditis
Spain (CHIVI Hospital) - Lymphocytic thyroiditis

Case 3 - Diagnosis: Hashimoto thyroiditis, thyroid

Director's note: *We no longer are putting possessives in our diagnoses. For example: it's now "Hashimoto thyroiditis" not "Hashimoto's thyroiditis". Hodgkin's disease is now "Hodgkin disease", etc.* (drc)

Case 3 - References:

The natural history of euthyroid Hashimoto's thyroiditis in children.
J Pediatr 2006 Dec;149(6): p827-32
Radetti G; Gottardi E, et al.

Cervical lymphadenopathy associated with Hashimoto's thyroiditis: an analysis of 22 cases by fine needle aspiration cytology.
Acta Cytol 2009 Sep-Oct;53(5): p491-6
Paksoy N; Yazal K

Coexistence of chronic lymphocytic leukemia and Hashimoto's thyroiditis.
Ann Hematol 2006 Nov;85(11): p811-2
Beyan C; Kaptan K; Ifran A

Hashimoto's thyroiditis in children and adolescents: a retrospective study on clinical, epidemiological and laboratory properties of the disease.
J Pediatr Endocrinol Metab 2007 Nov;20(11): p1199-205
Demirbilek H; Kandemir N, et al.

Increased incidence of well-differentiated thyroid cancer associated with Hashimoto thyroiditis and the role of the PI3k/Akt pathway.
J Am Coll Surg 2007 May;204(5): p764-73; discussion 773-5
Larson SD; Jackson LN, et al.

Case No. 4, Accession No. 31969

May 2015

Bishop (Northern Inyo Hospital) - Thymic mature teratoma
Camarillo, Ca (St Johns Regional) - Wilms tumor
Fontana (Kaiser Foundation Hospital) - Immature teratoma
Glendale - Angioinvasive encapsulated follicular carcinoma
Lakewood – Immature teratoma
Livermore – Immature teratoma, thymus
Loma Linda (LLU Residents) – Benign Mature teratoma
Long Beach (Long Beach VA) – Immature teratoma
Oakland (ACMC) – Immature Teratoma(6)
Palo Alto (VA Palo Alto) – Mature teratoma
San Francisco (San Francisco General Hospital) - Immature Teratoma
San Francisco (UCSF) - Immature teratoma
Santa Barbara (Miramonte Laboratory) - Follicle atrophy
Woodland Hills (Kaiser Permanente) - (Immature) teratoma
Arkansas, El Dorado (Associated Path Lab) – Immature teratoma
Colorado, Fort Collins - Immature teratoma
Delaware, Newark (AFMES) – Immature teratoma

Florida (Munroe Hospital) – Immature teratoma
Florida (GastroEnterology Associates of Ocala) - Malignant teratoma
Georgia, Atlanta - Immature teratoma
Georgia (Wellstar Healthcare System) - Teratoma / Immature teratoma (2)/ Neural neoplasm
Illinois (Heartland Regional Medical Center) - Immature teratoma
Iowa (Allen Memorial Hospital) - Immature teratoma
Kansas (Peterson Labs) – Immature Teratoma (2)
Louisiana (LSUHC) - Teratoma
Maryland (University of Maryland Medical System) - Teratoma
Minnesota (Fairview Ridges Hospital) - Immature teratoma
Mississippi (The University of Mississippi Medical Center) - Immature teratoma
Nebraska (Creighton University Medical Center) - Papillary thyroid carcinoma
North Carolina (Eastern Carolina Pathology) – Thyroglossal duct cyst
North Carolina, Clemmons – Immature teratoma
Ohio, (Summa Health Residents) –Congenital teratoma
Ohio, Toledo – Teratoma, immature
Ohio, Union Town – Congenital teratoma
Pennsylvania (Drexel University College of Medicine Residents) - Immature teratoma
Pennsylvania (Lehigh Valley Hospital) - Teratoma
Puerto Rico (University of Puerto Rico) – Immature teratoma
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Teratoma
Texas, Lubbock - Immature teratoma
Texas (Baylor Scott & White) – Immature teratoma
Washington (Sound Pathology Associates) - Teratoma
West Virginia (Greenbrier Valley Medical Center) - Teratoma
Australia (Royal Hobart Hospital) - Immature teratoma
Australia (Royal Prince Alfred Hospital) - Minimally invasive follicular carcinoma
India (Sri Siddhartha Medical College) -
Ireland (Bon Secours Hospital) – Immature teratoma
Ireland (Kerry General Hospital) - Immature teratoma
Ireland (Mayo General Hospital) - Immature teratoma
Japan (Asahi General Hospital) - Mature teratoma
Japan (Lions Mansion) – Immature teratoma, anterior neck
Japan – Teratoma
Oman (Khoula Hospital) – Immature teratoma
Spain (CHIVI Hospital) - Immature teratoma

Case 4 - Diagnosis: Immature teratoma, thyroid

Case 4 - References:

Immature teratoma of the mediastinum arising in ectopic thyroid tissue: a case report.
 Anal Quant Cytol Histol 2009 Aug;31(4): p233-8
 Ranaldi R; Morichetti D, et al.

Congenital cervical immature teratoma arising in the left lobe of the thyroid gland.
 APMIS 2007 Jan;115(1): p75-9
 Oka K; Okane M, et al.

Teratomas of the neck and mediastinum in children.
 Pediatr Surg Int 2006 Aug;22(8): p627-34
 Martino F; Avila LF, et al.

Malignant thyroid teratoma: report of an aggressive tumor in a 64-year-old man.
 Endocr Pathol 2013 Sep;24(3): p132-5
 Vilallonga R; Zafon C, et al.

Intracranial teratomas in children: a clinicopathological study.
Childs Nerv Syst 2013 Nov;29(11): p2035-42
Goyal N; Kakkar A, et al.

Case No. 5, Accession No. 31968

May 2015

Bishop (Northern Inyo Hospital) - Papillary thyroid carcinoma
Camarillo, Ca (St Johns Regional) - Radiation changes
Fontana (Kaiser Foundation Hospital) - Benign
Glendale - Hurthle cell nodule
Lakewood - Adenomatous goiter with C cell hyperplasia
Livermore - Lithium induced goiter
Loma Linda (LLU Residents) - Lithium Thyroiditis
Long Beach (Long Beach VA) - Adenomatous goiter : C cell hyperplasia
Oakland (ACMC) - Lithium induced nodular hyperplasia (6)
Palo Alto (VA Palo Alto) - Lithium induced thyroiditis
San Francisco (San Francisco General Hospital) - Adenomatoid goiter
San Francisco (UCSF) - Adenomatous hyperplasia/multinodular goiter
Santa Barbara (Miramonte Laboratory) - Papillary carcinoma
Woodland Hills (Kaiser Permanente) - Adenomatoid nodule
Arkansas, El Dorado (Associated Path Lab) - Lithium induced goiter
Colorado, Fort Collins - Dyshormonogenetic goiter
Delaware, Newark (AFMES) - Multinodular Hyperplasia
Florida (Munroe Hospital) - Lithium induced goiter
Florida (GastroEnterology Associates of Ocala) - Chronic thyroiditis; drug associated
Georgia, Atlanta - Adenomatoid nodules
Georgia (Wellstar Healthcare System) - Goiter / C-cell hyperplasia (2) / Drug/Lithium toxicity
Illinois (Heartland Regional Medical Center) - Nodular hyperplasia and slight chronic thyroiditis
Iowa (Allen Memorial Hospital) - Lithium-induced goiter
Kansas (Peterson Labs) - Nodular C-cell hyperplasia (2)
Louisiana (LSUHC) - Dyshormonogenetic goiter vs C-Cell hyperplasia
Maryland (University of Maryland Medical System) - Lithium thyroiditis
Minnesota (Fairview Ridges Hospital) - Lymphocytic thyroiditis ? Lithium-induced
Mississippi (The University of Mississippi Medical Center) - Reactive follicular change consistent with lithium effect
Nebraska (Creighton University Medical Center) - Hurthle cell adenoma
North Carolina (Eastern Carolina Pathology) - C-Cell hyperplasia
North Carolina, Clemmons - Lithium-associated silent thyroiditis
Ohio, (Summa Health Residents) - Multinodular goiter
Ohio, Toledo - Goiter
Ohio, Union Town - Lithium related multinodular goiter
Pennsylvania (Drexel University College of Medicine Residents) - Goitrous nodule
Pennsylvania (Lehigh Valley Hospital) - Patchy atrophy
Puerto Rico (University of Puerto Rico) - Lithium thyroiditis
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Follicular variant papillary carcinoma
Texas, Lubbock - nodular goiter
Texas (Baylor Scott & White) - Lithium thyroiditis
Washington (Sound Pathology Associates) - Dyshormonogenetic goiter, drug induced
West Virginia (Greenbrier Valley Medical Center) - Goiter
Australia (Royal Hobart Hospital) - Lithium associated focal thyroiditis
Australia (Royal Prince Alfred Hospital) - Minimally invasive Hurthle cell carcinoma
Ireland (Bon Secours Hospital) - Multinodular goiter
Ireland (Kerry General Hospital) - Lithium-related thyroid goiter
Ireland (Mayo General Hospital) - Thyroid hyperplasia

Japan (Asahi General Hospital) - Dyshormonogenetic goiter
Japan (Lions Mansion) – Non-specific lymphocytic thyroiditis; possibly lithium-associated thyroiditis, thyroid
Japan – Granulomatous thyroiditis
Oman (Khoula Hospital) – Dominant nodule of multinodular goiter
Spain (CHIVI Hospital) - Goiter related to lithium

Case 5 - Diagnosis: Lithium-associated diffuse thyroiditis and goiter

Case 5 - References:

Lithium-associated hypothyroidism and thyroid papillary carcinoma: a case report.
South Med J 2006 Mar;99(3): p279-81
Aksoy S; Kilickap S; Erman M

Spectrum of lithium induced thyroid abnormalities: a current perspective.
Thyroid Res 2013;6(1): p3
Kibirige D; Luzinda K; Ssekitolesko R

Lithium-associated hyperthyroidism.
Hosp Pract (1995 2013 Aug;41(3): p101-4
Siyam FF; Deshmukh S; Garcia-Touza M

Incidence rate of symptomatic painless thyroiditis presenting with thyrotoxicosis in Denmark as evaluated by consecutive thyroid scintigraphies.
Scand J Clin Lab Invest 2013 Apr;73(3): p240-4
Schwartz F; Bergmann N, et al.

Possible dangers of a "nutritional supplement" lithium orotate.
Ann Clin Psychiatry 2013 Feb;25(1): p71
Balon R

Case No. 6, Accession No. 31760

May 2015

Bishop (Northern Inyo Hospital) - Papillary thyroid carcinoma
Camarillo, Ca (St Johns Regional) - Papillary Carcinoma
Fontana (Kaiser Foundation Hospital) - Papillary thyroid ca
Glendale - Medullary carcinoma
Lakewood – Papillary thyroid carcinoma
Livermore – Papillary carcinoma, thyroid
Loma Linda (LLU Residents) – Classical Papillary thyroid carcinoma
Long Beach (Long Beach VA) – Papillary thyroid carcinoma
Oakland (ACMC) – Papillary thyroid carcinoma (6)
Palo Alto (VA Palo Alto) – Papillary thyroid carcinoma with lymphovascular space invasion
San Francisco (San Francisco General Hospital) - Papillary thyroid carcinoma
San Francisco (UCSF) - Papillary thyroid carcinoma, diffuse sclerosing variant
Santa Barbara (Miramonte Laboratory) - Papillary carcinoma
Woodland Hills (Kaiser Permanente) - Papillary thyroid carcinoma
Arkansas, El Dorado (Associated Path Lab) – Papillary carcinoma
Colorado, Fort Collins - Papillary thyroid carcinoma
Delaware, Newark (AFMES) – Papillary thyroid carcinoma
Florida (Munroe Hospital) – Papillary carcinoma
Florida (GastroEnterology Associates of Ocala) - Papillary Carcinoma
Georgia, Atlanta - Dyshormonogenetic goiter
Georgia (Wellstar Healthcare System) - PTC (4)
Illinois (Heartland Regional Medical Center) - Papillary carcinoma

Iowa (Allen Memorial Hospital) - Papillary thyroid carcinoma
Kansas (Peterson Labs) – Papillary carcinoma / Papillary Thyroid Carcinoma
Louisiana (LSUHC) – Papillary thyroid carcinoma
Maryland (University of Maryland Medical System) - Classical papillary thyroid carcinoma
Minnesota (Fairview Ridges Hospital) - Papillary thyroid carcinoma
Mississippi (The University of Mississippi Medical Center) - Papillary carcinoma
Nebraska (Creighton University Medical Center) - Medullary carcinoma
North Carolina (Eastern Carolina Pathology) – Papillary thyroid carcinoma, tall cell variant
North Carolina, Clemmons – Papillary carcinoma
Ohio, (Summa Health Residents) – Papillary thyroid carcinoma, classic variant
Ohio, Toledo – Papillary thyroid carcinoma
Ohio, Union Town – Papillary carcinoma, follicular variant
Pennsylvania (Drexel University College of Medicine Residents) - Papillary thyroid carcinoma
Pennsylvania (Lehigh Valley Hospital) - Papillary carcinoma
Puerto Rico (University of Puerto Rico) – Papillary thyroid carcinoma, classic type
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Papillary carcinoma tall cell variety
Texas, Lubbock - Papillary carcinoma, tall cell variant
Texas (Baylor Scott & White) – Papillary thyroid carcinoma
Washington (Sound Pathology Associates) – Papillary thyroid carcinoma
West Virginia (Greenbrier Valley Medical Center) - Papillary carcinoma
Australia (Royal Hobart Hospital) - Papillary carcinoma
Australia (Royal Prince Alfred Hospital) - Medullary carcinoma
Ireland (Bon Secours Hospital) – Papillary carcinoma
Ireland (Kerry General Hospital) - Papillary carcinoma
Ireland (Mayo General Hospital) - Papillary carcinoma of thyroid gland
Japan (Asahi General Hospital) - Tall cell variant of papillary carcinoma
Japan (Lions Mansion) – Papillary carcinoma, thyroid
Japan – Follicular adenoma
Oman (Khoula Hospital) – Papillary carcinoma thyroid
Spain (CHIVI Hospital) - Papillary carcinoma

Case 6 - Diagnosis: Papillary carcinoma, classic variant, thyroid

Case 6 - References:

Is Hashimoto's thyroiditis a prognostic factor for thyroid papillary microcarcinoma?
 Eur Rev Med Pharmacol Sci 2014 Jul;18(13): p1910-5
 Bircan HY; Koc B, et al.

Pathologic spectrum of lymphocytic infiltration and recurrence of papillary thyroid carcinoma.
 Yonsei Med J (Korea 2014 Jul;55(4): p879-85
 Kim HG; Kim EK, et al.

Study of the histological profile of papillary thyroid carcinomas associated with Hashimoto's thyroiditis.
 Arq Bras Endocrinol Metabol 2013 Aug;57(6): p445-9
 Cordioli MI; Cury AN, et al.

The role of IgG4 (+) plasma cells in the association of Hashimoto's thyroiditis with papillary carcinoma.
 APMIS 2014 Dec;122(12): p1259-65
 Tasli F; Ozkok G, et al.

Hashimoto's thyroiditis as a risk factor of papillary thyroid cancer may improve cancer prognosis.
 Otolaryngol Head Neck Surg 2013 Mar;148(3): p396-402
 Lun Y; Wu X, et al.

Bishop (Northern Inyo Hospital) - Microfollicular adenoma with atypical features
Camarillo, Ca (St Johns Regional) - Follicular variant , papillary ca
Fontana (Kaiser Foundation Hospital) - Papillary carcinoma, follicular variant
Glendale - Anaplastic carcinoma
Lakewood – Follicular carcinoma with capsular and vascular invasion
Livermore – Follicular carcinoma, thyroid
Loma Linda (LLU Residents) – Follicular carcinoma
Long Beach (Long Beach VA) – Follicular carcinoma
Oakland (ACMC) – Follicular neoplasm. Favor follicular adenoma (6)
Palo Alto (VA Palo Alto) – Follicular adenoma
San Francisco (San Francisco General Hospital) - Follicular Carcinoma
San Francisco (UCSF) - Papillary thyroid carcinoma, follicular variant
Santa Barbara (Miramonte Laboratory) - Follicular carcinoma
Woodland Hills (Kaiser Permanente) - Follicular thyroid carcinoma
Arkansas, El Dorado (Associated Path Lab) – Minimally invasive follicular carcinoma
Colorado, Fort Collins - Follicular carcinoma
Delaware, Newark (AFMES) – Follicular variant of papillary thyroid carcinoma
Florida (Munroe Hospital) – Follicular variant of papillary carcinoma
Florida (GastroEnterology Associates of Ocala) - Follicular Carcinoma : Minimally invasive
Georgia, Atlanta - Dysshormonogenetic goiter
Georgia (Wellstar Healthcare System) - Follicular carcinoma with vascular invasion / Follicular Carcinoma (3)
Illinois (Heartland Regional Medical Center) - Follicular neoplasm, well differentiated
Iowa (Allen Memorial Hospital) - Encapsulated follicular neoplasm
Kansas (Peterson Labs) – Atypical follicular neoplasm / Follicular variant papillary thyroid carcinoma
Louisiana (LSUHC) – Insular carcinoma
Maryland (University of Maryland Medical System) - Follicular carcinoma with Hurthle cell features, suggestive of widely vascular invasive variant
Minnesota (Fairview Ridges Hospital) - Follicular carcinoma
Mississippi (The University of Mississippi Medical Center) - Follicular neoplasm
Nebraska (Creighton University Medical Center) - Anaplastic carcinoma
North Carolina (Eastern Carolina Pathology) – Follicular adenoma
North Carolina, Clemmons – Follicular carcinoma
Ohio, (Summa Health Residents) – Minimally invasive follicular thyroid carcinoma
Ohio, Toledo – Hurthle cell carcinoma, minimally invasive
Ohio, Union Town – Follicular carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Follicular carcinoma, minimally invasive
Pennsylvania (Lehigh Valley Hospital) - Poorly differentiated follicular carcinoma
Puerto Rico (University of Puerto Rico) – Minimally invasive follicular carcinoma, r/o papillary carcinoma component
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Microfollicular tumor with carcinoma focal
Texas, Lubbock - Papillary carcinoma, follicular variant
Texas (Baylor Scott & White) – Follicular carcinoma
Washington (Sound Pathology Associates) – Papillary carcinoma, follicular variant arising in follicular adenoma
West Virginia (Greenbrier Valley Medical Center) - Follicular carcinoma
Australia (Royal Hobart Hospital) - Follicular lesion – probable follicular adenoma
Australia (Royal Prince Alfred Hospital) - Anaplastic carcinoma
Ireland (Bon Secours Hospital) – Follicular variant papillary carcinoma
Ireland (Kerry General Hospital) - Minimally invasive follicular carcinoma
Ireland (Mayo General Hospital) - Follicular carcinoma
Japan (Asahi General Hospital) - Oncocytic adenoma
Japan (Lions Mansion) – Mixed medullary and follicular cell carcinoma, thyroid
Japan – Follicular adenoma
Oman (Khoula Hospital) – Oncocytic / Hurthle cell neoplasm
Spain (CHIVI Hospital) - Minimally invasive follicular carcinoma

Case 7 - Diagnosis: Minimally invasive (micro-invasive) follicular carcinoma, thyroid

Case 7 - References:

[Minimally invasive follicular thyroid carcinoma : Not always total thyroidectomy]

Chirurg 2010 Jul;81(7): p627-30, 632-5

Hermann M; Tonninger K, et al.

Childhood minimally invasive follicular carcinoma: clinical features and immunohistochemistry analysis.

J Paediatr Child Health 2010 Apr;46(4): p166-70

Zou CC; Zhao ZY; Liang L

A 3-D study of capsular invasion in follicular thyroid tumors. A novel approach to an old dilemma.

Pathologica 2010 Jun;102(3): p93-5

Di Tommaso L; Tresoldi D; Navlignu CI; Destro A; Comi P; Morbiducci U; Roncalli M; Rizzo G

Molecular analysis of minimally invasive follicular carcinomas by gene profiling.

Surgery 2005 Dec;138(6): p1042-8; discussion 1048-9

Lubitz CC; Gallagher LA, et al.

Can minimally invasive follicular thyroid cancer be approached as a benign lesion?: a population-level analysis of survival among 1,200 patients.

Ann Surg Oncol 2013 Mar;20(3): p767-72

Goffredo P; Cheung K, et al.

Case No. 8, Accession No. 31732

May 2015

Bishop (Northern Inyo Hospital) - Hurthle cell tumor/lesion

Camarillo, Ca (St Johns Regional) – Hurthle cell tumor

Fontana (Kaiser Foundation Hospital) - Oncocytic follicular adenoma

Glendale - Immature teratoma

Lakewood – Follicular adenoma with oncocytic changes

Livermore – Hurthle cell adenoma

Loma Linda (LLU Residents) – Oncocytic (Hurthle Cell) adenoma

Long Beach (Long Beach VA) – Follicular adenoma with oncocytic features cannot exclude invasion

Oakland (ACMC) – Hurthle Cell Adenoma (6)

Palo Alto (VA Palo Alto) – Hurthle cell adenoma

San Francisco (San Francisco General Hospital) - Hurthle cell carcinoma

San Francisco (UCSF) - Follicular carcinoma

Santa Barbara (Miramonte Laboratory) - Hurthle cell carcinoma

Woodland Hills (Kaiser Permanente) - Oncocytoma

Arkansas, El Dorado (Associated Path Lab) – Hurthle cell adenoma

Colorado, Fort Collins - Hurthle cell adenoma

Delaware, Newark (AFMES) – Follicular Carcinoma

Florida (Munroe Hospital) – Minimally invasive Hurthle cell carcinoma

Florida (GastroEnterology Associates of Ocala) - Hurthle cell neoplasm (favor low grade)

Georgia, Atlanta - Hurthle cell neoplasm

Georgia (Wellstar Healthcare System) - Hurthle cell adenoma (3) / Follicular adenoma

Illinois (Heartland Regional Medical Center) - Encapsulated well differentiated follicular neoplasm, favor follicular adenoma

Iowa (Allen Memorial Hospital) - Oncocytic carcinoma, angioinvasive

Kansas (Peterson Labs) – Hurthle cell neoplasm (2)

Louisiana (LSUHC) – Hurthle cell carcinoma

Maryland (University of Maryland Medical System) - Hurthle cell adenoma

Minnesota (Fairview Ridges Hospital) - Hurthle cell carcinoma
Mississippi (The University of Mississippi Medical Center) - Hurthle cell neoplasm
Nebraska (Creighton University Medical Center) - Immature teratoma
North Carolina (Eastern Carolina Pathology) – Follicular carcinoma
North Carolina, Clemmons – Oxyphilic follicular neoplasm (no definite invasion)
Ohio, (Summa Health Residents) – Hurthle cell nodule
Ohio, Toledo – Hurthle cell adenoma
Ohio, Union Town – Follicular carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Hurthle cell neoplasm
Pennsylvania (Lehigh Valley Hospital) - Hurthle cell carcinoma
Puerto Rico (University of Puerto Rico) – Widely invasive follicular carcinoma, oncocyctic variant
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Adenoma oncocyctic
Texas, Lubbock - Oncocyctic adenoma
Texas (Baylor Scott & White) – Hurthle cell carcinoma
Washington (Sound Pathology Associates) – Hurthle cell carcinoma
West Virginia (Greenbrier Valley Medical Center) - Hurthle cell tumor (Malignant ?)
Australia (Royal Hobart Hospital) - Minimally invasive follicular carcinoma
Australia (Royal Prince Alfred Hospital) - Immature teratoma
Ireland (Bon Secours Hospital) – Hurthle cell adenoma
Ireland (Kerry General Hospital) - Hurthle cell neoplasm
Ireland (Mayo General Hospital) - Hurthle cell adenoma
Japan (Asahi General Hospital) - Oncocyctic variant of papillary carcinoma
Japan (Lions Mansion) – Hurthle cell tumor (follicular tumor, oncocyctic variant), thyroid
Japan – Follicular adenoma
Oman (Khoulia Hospital) – Oncocyctic carcinoma
Spain (CHIVI Hospital) - Oncocyctic follicular carcinoma

Case 8 - Diagnosis: Follicular “Hurthle cell” carcinoma, thyroid

Case 8 - References:

Does Hurthle cell carcinoma of the thyroid have a poorer prognosis than ordinary follicular thyroid carcinoma?

Ann Surg Oncol 2013 Sep;20(9): p2944-50

Sugino K; Kameyama K, et al.

Can abundant colloid exclude oncocyctic (Hurthle cell) carcinoma in thyroid fine needle aspiration? Cytohistological correlation of 127 oncocyctic (Hurthle cell) lesions.

Cytopathology 2013 Jun;24(3): p185-93

Yang GC; Schreiner AM; Sun W

Genomic dissection of Hurthle cell carcinoma reveals a unique class of thyroid malignancy.

J Clin Endocrinol Metab 2013 May;98(5): pE962-72

Ganly I; Ricarte Filho J; Eng S; Ghossein R; Morris LG; Liang Y; Socci N; Kannan K; Mo Q, et al.

Hurthle cell carcinoma: a population-level analysis of 3311 patients.

Cancer 2013 Feb 1;119(3): p504-11

Goffredo P; Roman SA; Sosa JA

Hurthle cell carcinoma: an update on survival over the last 35 years.

Surgery 2013 Dec;154(6): p1263-71; discussion 1271

Nagar S; Aschebrook-Kilfoy B, et al.

Hurthle cell carcinoma: a population-level analysis of 3311 patients.

Cancer 2013 Feb 1;119(3): p504-11

Goffredo P; Roman SA; Sosa JA

Patients with follicular and Hurthle cell microcarcinomas have compromised survival: a population level study of 22,738 patients.

Surgery 2013 Dec;154(6): p1246-53; discussion 1253-4

Kuo EJ; Roman SA; Sosa JA

Case No. 9, Accession No. 31967

May 2015

Bishop (Northern Inyo Hospital) - Medullary carcinoma with amyloid
Camarillo, Ca (St Johns Regional) – Medullary ca
Fontana (Kaiser Foundation Hospital) - Medullary thyroid ca
Glendale - Benign thyroid nodule
Lakewood – Medullary thyroid carcinoma
Livermore – Medullary carcinoma (w/a/s)
Loma Linda (LLU Residents) – Medullary carcinoma
Long Beach (Long Beach VA) – Medullary carcinoma
Oakland (ACMC) – Medullary thyroid carcinoma (6)
Palo Alto (VA Palo Alto) – Medullary carcinoma
San Francisco (San Francisco General Hospital) - Medullary Carcinoma
San Francisco (UCSF) - Medullary carcinoma
Santa Barbara (Miramonte Laboratory) - Medullary carcinoma
Woodland Hills (Kaiser Permanente) - Medullary carcinoma with amyloid
Arkansas, El Dorado (Associated Path Lab) – Medullary carcinoma
Colorado, Fort Collins - Insular carcinoma
Delaware, Newark (AFMES) – Medullary Carcinoma
Florida (Munroe Hospital) – Medullary carcinoma
Florida (GastroEnterology Associates of Ocala) - Medullary carcinoma
Georgia, Atlanta - Medullary thyroid carcinoma
Georgia (Wellstar Healthcare System) - Medullary thyroid carcinoma (4)
Illinois (Heartland Regional Medical Center) - Medullary carcinoma
Iowa (Allen Memorial Hospital) - Poorly differentiated thyroid carcinoma
Kansas (Peterson Labs) – Medullary carcinoma (2)
Louisiana (LSUHC) – Medullary carcinoma
Maryland (University of Maryland Medical System) - Medullary carcinoma
Minnesota (Fairview Ridges Hospital) - Medullary carcinoma of the thyroid
Mississippi (The University of Mississippi Medical Center) - Poorly differentiated carcinoma
Nebraska (Creighton University Medical Center) - Lithium induced multinodular goiter
North Carolina (Eastern Carolina Pathology) – Medullary thyroid carcinoma
North Carolina, Clemmons – Medullary thyroid carcinoma
Ohio, (Summa Health Residents) – Medullary thyroid carcinoma
Ohio, Toledo – Medullary thyroid carcinoma
Ohio, Union Town – Medullary carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Medullary carcinoma
Pennsylvania (Lehigh Valley Hospital) - Medullary carcinoma
Puerto Rico (University of Puerto Rico) – Medullary thyroid carcinoma
South Carolina (Medical University of South Carolina) -
Texas, Crystal Beach - Medullary carcinoma
Texas, Lubbock - Medullary carcinoma
Texas (Baylor Scott & White) – Medullary carcinoma
Washington (Sound Pathology Associates) – Medullary Carcinoma
West Virginia (Greenbrier Valley Medical Center) - Medullary carcinoma
Australia (Royal Hobart Hospital) - Medullary carcinoma
Australia (Royal Prince Alfred Hospital) - Lithium induced goiter
Ireland (Bon Secours Hospital) – Medullary carcinoma
Ireland (Kerry General Hospital) - Poorly differentiated /insular carcinoma
Ireland (Mayo General Hospital) - Medullary carcinoma

Japan (Asahi General Hospital) - Medullary carcinoma
Japan (Lions Mansion) – Medullary carcinoma, thyroid
Japan – Follicular adenoma
Oman (Khoula Hospital) – Medullary carcinoma
Spain (CHIVI Hospital) - Medullary carcinoma

Case 9 - Diagnosis: Medullary carcinoma, thyroid

Case 9 - References:

Medullary thyroid carcinoma in a patient with Hashimoto's thyroiditis diagnosed by calcitonin washout from a thyroid nodule.

Diagn Cytopathol 2013 Jul;41(7): p644-6

Mousa U; Gursoy A, et al.

Current update on medullary thyroid carcinoma.

AJR Am J Roentgenol 2013 Dec;201(6): pW867-76

Ganeshan D; Paulson E, et al.

Fine needle aspiration and medullary thyroid carcinoma: the risk of inadequate preoperative evaluation and initial surgery when relying upon FNAB cytology alone.

Endocr Pract 2013 Nov-Dec;19(6): p920-7

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Mixed medullary-follicular carcinoma of the thyroid.

Case Rep Endocrinol 2013;2013:571692

Tohidi M; Pourbehi G, et al.

Advanced medullary thyroid cancer: pathophysiology and management.

Cancer Manag Res 2013;5:57-66

Ferreira CV; Siqueira DR, et al.

Case No. 10, Accession No. 31935

May 2015

Bishop (Northern Inyo Hospital) - Anaplastic carcinoma

Camarillo, Ca (St Johns Regional) - Hodgkins of thyroid

Fontana (Kaiser Foundation Hospital) - Anaplastic thyroid ca

Glendale - Papillary carcinoma

Lakewood – Anaplastic thyroid carcinoma

Livermore – Poorly differentiated carcinoma, thyroid

Loma Linda (LLU Residents) – Anaplastic carcinoma

Long Beach (Long Beach VA) – Anaplastic carcinoma

Oakland (ACMC) – Anaplastic thyroid carcinoma (6)

Palo Alto (VA Palo Alto) – Anaplastic thyroid carcinoma

San Francisco (San Francisco General Hospital) - Anaplastic Carcinoma

San Francisco (UCSF) - Follicular dendritic cell tumor

Santa Barbara (Miramonte Laboratory) - Anaplastic carcinoma

Woodland Hills (Kaiser Permanente) - Undifferentiated (Anaplastic) Carcinoma vs diffuse large B-cell lymphoma

Arkansas, El Dorado (Associated Path Lab) – Undifferentiated carcinoma

Colorado, Fort Collins - Medullary carcinoma

Connecticut (Danbury Hospital) - Choriocarcinoma

Delaware, Newark (AFMES) – Anaplastic Carcinoma

Florida (Munroe Hospital) – Undifferentiated carcinoma

Florida (GastroEnterology Associates of Ocala) - Poorly differentiated carcinoma (v sarcoma/lymphoma with immunostains)

Georgia, Atlanta - Anaplastic carcinoma; rule out lymphoma

Georgia (Wellstar Healthcare System) - Anaplastic thyroid carcinoma / PD Malignancy: Anaplastic carcinoma ect. / r/o melanoma, anaplastic carcinoma / Anaplastic Carcinoma
Illinois (Heartland Regional Medical Center) - Undifferentiated (anaplastic) carcinoma
Iowa (Allen Memorial Hospital) - Anaplastic thyroid carcinoma
Kansas (Peterson Labs) – Anaplastic carcinoma (2)
Louisiana (LSUHC) – Anaplastic carcinoma
Maryland (University of Maryland Medical System) - Anaplastic thyroid carcinoma
Minnesota (Fairview Ridges Hospital) - Anaplastic carcinoma
Mississippi (The University of Mississippi Medical Center) - Undifferentiated carcinoma
Nebraska (Creighton University Medical Center) - Papillary thyroid carcinoma
North Carolina (Eastern Carolina Pathology) – Anaplastic thyroid carcinoma
North Carolina, Clemmons – Anaplastic thyroid carcinoma
Ohio, (Summa Health Residents) – Anaplastic thyroid carcinoma
Ohio, Toledo – Anaplastic Carcinoma
Ohio, Union Town – Anaplastic carcinoma
Pennsylvania (Drexel University College of Medicine Residents) - Anaplastic carcinoma
Pennsylvania (Lehigh Valley Hospital) - Undifferentiated carcinoma
Puerto Rico (University of Puerto Rico) – Anaplastic thyroid carcinoma r/o pleomorphic lymphoma
Texas, Crystal Beach - Carcinoma poorly differentiated probably metastatic
Texas, Lubbock - Hodgkin lymphoma
Texas (Baylor Scott & White) – Anaplastic carcinoma
Washington (Sound Pathology Associates) – Anaplastic Carcinoma
West Virginia (Greenbrier Valley Medical Center) - Anaplastic Carcinoma
Australia (Royal Hobart Hospital) - Anaplastic carcinoma thyroid
Australia (Royal Prince Alfred Hospital) - Papillary carcinoma
Ireland (Bon Secours Hospital) – Undifferentiated (anaplastic) carcinoma
Ireland (Kerry General Hospital) - Undifferentiated neoplasm consistent with anaplastic ca
Ireland (Mayo General Hospital) - Anaplastic carcinoma vs High grade lymphoma
Japan (Asahi General Hospital) - Undifferentiated carcinoma
Japan (Lions Mansion) – Undifferentiated (anaplastic) carcinoma, thyroid
Japan – Follicular carcinoma
Oman (Khoula Hospital) – Anaplastic carcinoma
Spain (CHIVI Hospital) - Anaplastic Carcinoma

Case 10 - Diagnosis: Undifferentiated (anaplastic) carcinoma, thyroid

Case 10 - References:

Anaplastic thyroid cancer.

Oral Oncol 2013 Jul;49(7): p702-6

O'Neill JP; Shaha AR

New targeted therapies and other advances in the management of anaplastic thyroid cancer.

Curr Opin Oncol 2013 Jan;25(1): p44-9

Deshpande HA; Roman S; Sosa JA

Undifferentiated (anaplastic) thyroid carcinoma and iodine intake in Salta, Argentina.

Endocr Pathol 2013 Sep;24(3): p125-31

Harach HR; Galindez M, et al.

Sites of metastases of anaplastic thyroid carcinoma: autopsy findings in 45 cases from a single institution.

Thyroid 2013 Jun;23(6): p709-13

Besic N; Gazic B

PAX8 is expressed in anaplastic thyroid carcinoma diagnosed by fine-needle aspiration: a study of three cases with histological correlates.

Eur J Endocrinol 2013 Sep;169(3): p307-11
Bellevicine C; Iaccarino A, et al.

Insular thyroid carcinoma: a retrospective clinicopathologic study.
Am J Otolaryngol 2013 Jul-Aug;34(4): p292-5
Hod R; Bachar G, et al.