

**California Tumor Tissue Registry's
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"Lung and Mediastinum"

Case 1:

An "extremely healthy" 59 y/o woman worked every day at her truck stop establishment. A preretirement PE included a chest x-ray that found a 3 cm lesion in the right upper lobe. She had never smoked. At surgery a 2-3 cm mass was peripherally found. It was well circumscribed and adherent to the visceral pleura.

Santa Barbara (Miramonte Laboratory) - Bronchoalveolar carcinoma

Santa Rosa (Santa Rosa Memorial Hospital) - Well-differentiated adenocarcinoma (3)

Woodland Hills (Kaiser Permanente) - Adenocarcinoma, acinar and lepidic patterns

Arkansas (The Lab of Path, PA) - Bronchoalveolar carcinoma

Georgia, Atlanta - Adenocarcinoma

Kansas (Peterson Laboratory Services) - Bronchoalveolar carcinoma with central scar

Maryland, Baltimore - Adenocarcinoma in-situ (formerly BAC) with focus suspicious for invasion

New Mexico, Albuquerque - Well-differentiated adenocarcinoma

Texas, Victoria - Bronchoalveolar carcinoma

Canada (University of Sherbrooke) - Bronchoalveolar carcinoma

Hong Kong (Hong Kong Baptist Hospital) - Well-differentiated adenocarcinoma arising in scar

India, Kochi - Bronchoalveolar carcinoma of lung

Dx: Bronchoalveolar Ca, lung

Bronchioloalveolar carcinoma: a review of current concepts and evolving issues.

Arch Pathol Lab Med 2007 Jul;131(7): p1027-32

Yousem SA; Beasley MB

Cytopathologic diagnosis of bronchioloalveolar carcinoma: does it correlate with the 1999 World Health Organization definition?

Am J Clin Pathol 2004 Jul;122(1): p44-50

Ohori NP; Santa Maria EL

Bronchoalveolar carcinoma: current treatment and future trends.

Clin Lung Cancer 2004 Dec;6 Suppl 2:S75-9

Laskin JJ

Diffuse consolidation form of bronchoalveolar carcinoma.

J Coll Physicians Surg Pak 2010 Mar;20(3): p216-8

Khalil KF; Saeed W; Zill-e-Hamayun

Synchronous B3 thymoma and lung bronchoalveolar carcinoma.

Interact Cardiovasc Thorac Surg 2011 Jan;12(1): p75-6

Patella M; Anile M; Vitolo D; Venuta F

Case 2

A 58 y/o man required hospitalization for pneumonia. An x-ray showed a suspicious 7 x 5 cm consolidation in the right lower lobe and adjacent pleural thickening. He had smoked 3 to 10 packs a day for 50 years, but quit three months earlier. He also drank ½ gallon of hard liquor per day, but denied significant intake for the past 10 to 15 years. Your slide is from the resection of the right lower lobe.

Santa Barbara (Miramonte Laboratory) - Mucinous carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Adenocarcinoma (3)
Woodland Hills (Kaiser Permanente) - UIP-like changes with mucinous metaplasia
Arkansas (The Lab of Path, PA) - Adenocarcinoma
Georgia, Atlanta - Mucinous bronchioloalveolar carcinoma
Kansas (Peterson Laboratory Services) - Adenocarcinoma
Maryland, Baltimore - Well-differentiated mucinous adenocarcinoma
New Mexico, Albuquerque - Well-differentiated mucinous adenocarcinoma
Texas, Victoria - Adenocarcinoma, peripheral
Canada (University of Sherbrooke) - Adenocarcinoma
Hong Kong (Hong Kong Baptist Hospital) - Well-differentiated mucinous adenocarcinoma
India, Kochi - Adenocarcinoma of lung

Dx: Adenocarcinoma, WD, lung

Small peripheral pulmonary adenocarcinoma: morphologic and molecular update.

Adv Anat Pathol 2007 Mar;14(2): p120-8
Weydert JA; Cohen MB

Lessons learned from mistakes and deferrals in the frozen section diagnosis of bronchioloalveolar carcinoma and well-differentiated pulmonary adenocarcinoma: an evidence-based pathology approach.

Am J Clin Pathol 2008 Jul;130(1): p11-20; quiz 146
Gupta R; McKenna R; Marchevsky AM

Influence of cigarette smoking on histological subtypes of stage I lung adenocarcinoma.

J Thorac Oncol 2011 Apr;6(4): p743-50
Maeda R; Ishii G; Yoshida J; Hishida T; Nishimura M; Nagai K

Lung adenocarcinoma originates from retrovirus infection of proliferating type 2 pneumocytes during pulmonary post-natal development or tissue repair.

PLoS Pathog 2011 Mar;7(3): pe1002014
Murgia C; Caporale M; Ceesay O; Di Francesco G; Ferri N; Varasano V; de las Heras M; Palmarini M

Minimally invasive adenocarcinomas of the lung.

Adv Anat Pathol 2009 May;16(3): p166-71
Dacic S

Cytological features of signet-ring cell carcinoma of the lung:
comparison with the goblet-cell-type adenocarcinoma of the lung.
Diagn Cytopathol 2009 Mar;37(3): p159-63
Tsuta K; Shibuki Y; Maezawa N; Tochigi N; Maeshima AM; Sasajima Y;
Asamura H; Matsuno Y

Immunohistochemical algorithm for differentiation of lung
adenocarcinoma and squamous cell carcinoma based on large series of
whole-tissue sections with validation in small specimens.
Mod Pathol 2011 Oct;24(10): p1348-59
Rekhtman N; Ang DC; Sima CS; Travis WD; Moreira AL

Case 3

A 3.2 cm irregular nodule was imaged in the right middle lung of a 51 y/o man. It
spanned the lobe and extended from within 1 cm of the bronchus to the pleural surface.

Santa Barbara (Miramonte Laboratory) - Basaloid squamous carcinoma
Santa Rosa (Santa Rosa Memorial Hospital) - Squamous cell carcinoma (3)
Woodland Hills (Kaiser Permanente) - Squamous cell carcinoma
Arkansas (The Lab of Path, PA) - Squamous cell carcinoma
Georgia, Atlanta - Lymphoepithelial carcinoma
Kansas (Peterson Laboratory Services) - Squamous cell carcinoma
Maryland, Baltimore - Poorly differentiated squamous cell carcinoma
New Mexico, Albuquerque - Moderately differentiated squamous cell carcinoma
Texas, Victoria - Adenosquamous cell carcinoma, peripheral
Canada (University of Sherbrooke) - Squamous cell carcinoma
Hong Kong (Hong Kong Baptist Hospital) - Squamous cell carcinoma
India, Kochi - Poorly differentiated squamous cell carcinoma

Dx: SCC, lung PD

Peripheral squamous cell carcinoma of lung: patterns of growth with
particular focus on airspace filling.
Hum Pathol 2009 Jun;40(6): p861-7
Yousem SA

Immunohistochemical algorithm for differentiation of lung
adenocarcinoma and squamous cell carcinoma based on large series of
whole-tissue sections with validation in small specimens.
Mod Pathol 2011 Oct;24(10): p1348-59
Rekhtman N; Ang DC; Sima CS; Travis WD; Moreira AL

If it's not CK5/6 positive, TTF-1 negative it's not a squamous cell
carcinoma of lung.
APMIS 2008 Jun;116(6): p526-9
Downey P; Cummins R; Moran M; Gulmann C

Clinicopathologic characteristics of peripheral squamous cell
carcinoma of the lung.
Am J Surg Pathol 2003 Jul;27(7): p978-84

Funai K; Yokose T; Ishii G; Araki K; Yoshida J; Nishimura M; Nagai K; Nishiwaki Y; Ochiai A

Papillary endobronchial squamous cell carcinoma.

Ann Diagn Pathol 2005 Oct;9(5): p284-8

Cooper L; Hagenschneider JK; Banky S; Rosado-de-Christenson ML; Suster S

Clinicopathologic features of peripheral squamous cell carcinoma of the lung.

Ann Thorac Surg 2004 Jul;78(1): p222-7

Sakurai H; Asamura H; Watanabe S; Suzuki K; Tsuchiya R

Microcystic squamous cell carcinoma of the lung: a clinicopathologic study of three cases.

Am J Clin Pathol 2011 Sep;136(3): p436-41

Weissferdt A; Moran CA

Case 4

A 73 y/o obese woman sustained an acute crushing substernal chest pain, radiating to the back. She was taken to the hospital where she was found to have severe hypotension and pulmonary edema. She died 6 hours later. An autopsy revealed a large myocardial infarction, as well as a dissecting aneurysm in the aorta near the renal arteries. The lung finding was incidental. The right upper lobe had a spherical 7.0 cm diameter mass. It was white-pink, solid, and seemingly separated into small nodules by stroma. Neither necrosis nor cysts were seen. Your virtual slide is from the incidental lung tumor.

Santa Barbara (Miramonte Laboratory) - PEcoma

Santa Rosa (Santa Rosa Memorial Hospital) - Malignant tumor, NOS (1); rule out PEcoma (2)

Woodland Hills (Kaiser Permanente) - Large cell neuroendocrine carcinoma

Arkansas (The Lab of Path, PA) - Carcinoid

Georgia, Atlanta - Sarcomatoid carcinoma

Kansas (Peterson Laboratory Services) - Neuroendocrine neoplasm, grade 2/3

Maryland, Baltimore - Atypical carcinoid

New Mexico, Albuquerque - Poorly differentiated carcinoma

Texas, Victoria - Carcinoid

Canada (University of Sherbrooke) - Atypical carcinoid

Hong Kong (Hong Kong Baptist Hospital) - Metastatic adult granulosa cell tumor

India, Kochi - Atypical carcinoid of lung

Dx: Atypical carcinoid, lung

Update in pulmonary carcinoid tumors: a review article.

Ann Surg Oncol 2003 Jul;10(6): p697-704

Hage R; de la Riviere AB; Seldenrijk CA; van den Bosch JM

TTF-1 expression is specific for lung primary in typical and atypical carcinoids: TTF-1-positive carcinoids are predominantly in peripheral location.

Hum Pathol 2004 Jul;35(7): p825-31
Du EZ; Goldstraw P; Zacharias J; Tiffet O; Craig PJ; Nicholson AG;
Weidner N; Yi ES

Clinico-pathologic study of pulmonary carcinoid tumours--a
retrospective analysis and review of literature.
Respir Med 2008 Nov;102(11): p1611-4
Thomas R; Christopher DJ; Balamugesh T; Shah A

Neuroendocrine tumors of the lung: an update.
Arch Pathol Lab Med 2010 Nov;134(11): p1628-38
Rekhtman N

Pulmonary neuroendocrine carcinomas. A review of 234 cases and a
statistical analysis of 50 cases treated at one institution using a
simple clinicopathologic classification.
Arch Pathol Lab Med 2002 May;126(5): p545-53
Huang Q; Muzitansky A; Mark EJ

Case 5

A 79 y/o man was discovered to have a 6.5 cm mass in the left lower lung lobe. It was white-tan, poorly circumscribed and had central necrosis. It was positive for synaptophysin, keratin cocktail, and focally positive for p63. It was negative for chromogranin, TTF-1, S100, and mucicarmine.

Santa Barbara (Miramonte Laboratory) - Neuroendocrine tumor
Santa Rosa (Santa Rosa Memorial Hospital) - Large cell neuroendocrine carcinoma (3)
Woodland Hills (Kaiser Permanente) - Squamous cell carcinoma, poorly differentiated
Arkansas (The Lab of Path, PA) - Large cell neuroendocrine carcinoma
Georgia, Atlanta - Pleomorphic large cell carcinoma
Kansas (Peterson Laboratory Services) - Large cell neuroendocrine carcinoma, grade 3/3
Maryland, Baltimore - Poorly differentiated carcinoma with squamous and neuroendocrine features
New Mexico, Albuquerque - Large cell carcinoma with neuroendocrine features
Texas, Victoria - Sarcomatoid carcinoma, pleomorphic
Canada (University of Sherbrooke) - Neuroendocrine carcinoma, mixed
Hong Kong (Hong Kong Baptist Hospital) - Large cell neuroendocrine carcinoma
India, Kochi - Neuroendocrine carcinoma of lung

Dx: Neuroendocrine ca, mixed, lung

Neuroendocrine carcinomas of the lung: a critical analysis.
Am J Clin Pathol 2009 Feb;131(2): p206-21
Moran CA; Suster S; Coppola D; Wick MR

Primary sclerosing neuroendocrine carcinomas of the lung: A
clinicopathologic and immunohistochemical study of 10 cases.
Am J Clin Pathol 2010 Apr;133(4): p618-22
Kalhor N; Suster S; Moran CA

Neuroendocrine tumors of the lung: an update.
Arch Pathol Lab Med 2010 Nov;134(11): p1628-38
Rekhtman N

Large cell/neuroendocrine carcinoma.
Lung Cancer 2010 Jul;69(1): p13-8
Gollard R; Jhatakia S; Elliott M; Kosty M

High-grade neuroendocrine carcinomas of the lung express K homology domain containing protein overexpressed in cancer but carcinoid tumors do not.
Hum Pathol 2007 Apr;38(4): p555-63
Xu H; Bourne PA; Spaulding BO; Wang HL

Small cell carcinoma of the lung and large cell neuroendocrine carcinoma interobserver variability.
Histopathology 2010 Feb;56(3): p356-63
den Bakker MA; Willemsen S; Grunberg K; Noorduijn LA; van Oosterhout MF; van Suylen RJ; Timens W; Vrugt B; Wiersma-van Tilburg A; Thunnissen FB

Case 6

A 39 y/o man had a history of shoulder pain and swelling for the previous four months. A chest CT revealed an anterior mediastinal mass. The excised specimen was 80 grams and 9 x 5 x 4 cm.

Santa Barbara (Miramonte Laboratory) - Thymoma, type AB
Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma, type AB (3)
Woodland Hills (Kaiser Permanente) - Thymoma, type AB
Arkansas (The Lab of Path, PA) - Thymoma
Georgia, Atlanta - Type A (medullary) thymoma
Kansas (Peterson Laboratory Services) - Thymoma, type A
Maryland, Baltimore - Spindle cell thymoma (WHO type A)
New Mexico, Albuquerque - Spindle cell thymoma
Texas, Victoria - Thymoma, spindled
Canada (University of Sherbrooke) - Thymoma, spindled
Hong Kong (Hong Kong Baptist Hospital) - Thymoma, type A
India, Kochi - Spindle cell thymoma

Dx: Thymoma, spindle, WHO A

Spindle cell thymomas (WHO Type A) with prominent papillary and pseudopapillary features: a clinicopathologic and immunohistochemical study of 10 cases.
Am J Surg Pathol 2011 Mar;35(3): p372-7
Kalhor N; Suster S; Moran CA

Invasive spindle cell thymomas (WHO Type A): a clinicopathologic correlation of 41 cases.
Am J Clin Pathol 2010 Nov;134(5): p793-8

Moran CA; Kalhor N; Suster S

Adenomatoid spindle cell thymomas: a clinicopathological and immunohistochemical study of 20 cases.

Am J Surg Pathol 2010 Oct;34(10): p1544-9

Weissferdt A; Kalhor N; Suster S; Moran CA

Spindle cell thymomas: an immunohistochemical study of 30 cases.

Appl Immunohistochem Mol Morphol 2011 Jul;19(4): p329-35

Weissferdt A; Hernandez JC; Kalhor N; Moran CA

WHO histologic classification is a prognostic indicator in thymoma.

Ann Thorac Surg 2004 Apr;77(4): p1183-8

Kondo K; Yoshizawa K; Tsuyuguchi M; Kimura S; Sumitomo M; Morita J; Miyoshi T; Sakiyama S; Mukai K; Monden Y

Case 7

A 72 y/o woman with metabolic syndrome and a hx of atrial fibrillation presented with worsening fatigue and presyncopal episodes. During her workup, a chest x-ray demonstrated a 7 cm mass in the mediastinum. The mass was well-defined, slightly lobulated, and consisted of tan-yellow tissue fragments.

Santa Barbara (Miramonte Laboratory) - Thymoma, type B

Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma, type B1 (3)

Woodland Hills (Kaiser Permanente) - Thymoma, type B1

Arkansas (The Lab of Path, PA) - Thymoma

Georgia, Atlanta - Type B (lymphocyte predominant) thymoma

Kansas (Peterson Laboratory Services) - Thymoma, type B1

Maryland, Baltimore - Lymphocyte-rich thymoma (WHO, type B1)

New Mexico, Albuquerque - Thymoma

Texas, Victoria - Thymoma, B1

Canada (University of Sherbrooke) - Thymoma B1

Hong Kong (Hong Kong Baptist Hospital) - Thymoma, type B

India, Kochi - Thymoma

Dx: Thymoma, WHO B1

Thymoma classification: current status and future trends.

Am J Clin Pathol 2006 Apr;125(4): p542-54

Suster S; Moran CA

Cytopathology of thymic epithelial neoplasms.

Semin Diagn Pathol 2005 Aug;22(3): p213-22

Wakely PE

Correlation of the WHO schema for the classification of thymic epithelial neoplasms with prognosis: a retrospective study of 90 tumors.

Am J Surg Pathol 2002 Dec;26(12): p1605-11

Chalabreysse L; Roy P; Cordier JF; Loire R; Gamondes JP; Thivolet-Bejui F

Type B thymoma: is prognosis predicted only by World Health Organization classification?

J Thorac Cardiovasc Surg 2010 Jun;139(6): p1431-1435.e1

Kim HK; Choi YS; Kim J; Shim YM; Han J; Kim K

Immunohistochemical differential diagnosis between thymic carcinoma and type B3 thymoma: diagnostic utility of hypoxic marker, GLUT-1, in thymic epithelial neoplasms.

Mod Pathol 2009 Oct;22(10): p1341-50

Kojika M; Ishii G; Yoshida J; Nishimura M; Hishida T; Ota SJ; Murata Y; Nagai K; Ochiai A

Case 8

Due to puffiness in the face, this 53 y/o woman had a CT scan which showed a mass in the anterior mediastinum. The excised tumor was 12 x 8 x 4 cm, rubbery and grey-white with yellow areas.

Santa Barbara (Miramonte Laboratory) - Carcinoid

Santa Rosa (Santa Rosa Memorial Hospital) - Thymoma, sclerosing type (3)

Woodland Hills (Kaiser Permanente) - Atypical thymoma

Arkansas (The Lab of Path, PA) - Thymic carcinoma

Georgia, Atlanta - Invasive thymoma

Kansas (Peterson Laboratory Services) - Thymic carcinoma

Maryland, Baltimore - Thymic carcinoma (WHO, type C)

New Mexico, Albuquerque - Well-differentiated neuroendocrine carcinoma

Texas, Victoria - Paraganglioma

Canada (University of Sherbrooke) - Thymoma C

Hong Kong (Hong Kong Baptist Hospital) - Neuroendocrine carcinoma

India, Kochi - Thymic carcinoma

Dx: Thymoma, WHO C (Thymic carcinoma)

Thymic carcinoma: update of current diagnostic criteria and histologic types.

Semin Diagn Pathol 2005 Aug;22(3): p198-212

Suster S

Evidence-based pathology and the pathologic evaluation of thymomas: the World Health Organization classification can be simplified into only 3 categories other than thymic carcinoma.

Cancer 2008 Jun 15;112(12): p2780-8

Marchevsky AM; Gupta R; McKenna RJ; Wick M; Moran C; Zakowski MF;

Suster S

World Health Organization classification of thymomas provides significant prognostic information for selected stage III patients: evidence from an international thymoma study group.

Hum Pathol 2010 Oct;41(10): p1413-21

Marchevsky AM; Gupta R; Casadio C; Hiroshima K; Jambhekar NA; Kim DJ; Nakatani Y; Okumura M; Rena O; Yoshida S

Thymoma and thymic carcinoma: molecular pathology and targeted therapy.

J Thorac Oncol 2010 Oct;5(10 Suppl 4): pS286-90

Strobel P; Hohenberger P; Marx A

Impressive response with imatinib in a heavily pretreated patient with metastatic c-KIT mutated thymic carcinoma.

J Clin Oncol 2011 Nov 20;29(33): pe803-5

Buti S; Donini M; Sergio P; Garagnani L; Schirosi L; Passalacqua R; Rossi G

Case 9

A 63 y/o woman complained of fatigue and weight loss over the previous six months. Two months prior to admission she developed a flu-like illness. Work-up at that time revealed a large mass in the right lower lung area. The mediastinum appeared normal. Previous surgeries included a hysterectomy for "a positive PAP smear". No mention was made about the oviducts or ovaries. A right lower lung lobectomy was performed, and a "huge" mass virtually replaced the entire right lower lobe. It was fixed to the diaphragm and right lateral chest wall. Tumor was 14 cm, and 985 grams. It consisted mostly of yellow necrotic material.

Santa Barbara (Miramonte Laboratory) - Yolk sac tumor

Santa Rosa (Santa Rosa Memorial Hospital) - Metastatic adenocarcinoma (3)

Woodland Hills (Kaiser Permanente) - Adenocarcinoma, acinar and solid patterns

Arkansas (The Lab of Path, PA) - Pulmonary blastoma

Georgia, Atlanta - Metastatic endometrioid adenocarcinoma; rule out pulmonary blastoma

Kansas (Peterson Laboratory Services) - Poorly differentiated carcinoma

Maryland, Baltimore - Adenocarcinoma, primary vs. metastatic

New Mexico, Albuquerque - Metastatic carcinoma, possibly fallopian tube origin

Texas, Victoria - Clear cell carcinoma

Canada (University of Sherbrooke) - Yolk sac carcinoma

Hong Kong (Hong Kong Baptist Hospital) - Metastatic endometrioid adenocarcinoma

India, Kochi - Yolk sac carcinoma of lung

Dx: Yolk sac Ca, lung

Pulmonary pure yolk-sac tumor. A rare anatomopathological entity.

Arch Bronconeumol 2011 Mar;47(3): p157-8

Ramirez Gil ME; Martinez Vallina P; Menal Munoz P; Hernandez

Ferrandez J; Munoz Gonzalez G; Rivas De Andres JJ

Primary yolk sac tumor of the lung.

Ann Thorac Surg 2009 Jun;87(6): p1925-6

Abdel Rahman AR; Ebied EN; Nouh MA; Gal AA; Mansour KA

Pure yolk-sac tumor of the lung.

Asian Cardiovasc Thorac Ann 2008 Oct;16(5): p410-1

Basoglu A; Sengul AT; Buyukkarabacak YB; Yetim TD; Yildiz L

Fine needle aspiration biopsy features with histologic correlation in mediastinal hepatoid yolk sac tumor presenting with sternum metastasis: a case report.

Acta Cytol 2007 Jul-Aug;51(4): p610-5

Ceyhan K; Utkan G; Dincol D; Erdogan N; Erekul S; Umudum H

Fine-needle aspiration cytology of unusual germ cell tumors of the mediastinum: atypical seminoma and parietal yolk sac tumor.

Diagn Cytopathol 2002 Aug;27(2): p69-74

Yang GC; Hwang SJ; Yee HT

A primary pure yolk sac tumor of the lung exhibiting CDX-2 immunoreactivity and increased serum levels of alkaline phosphatase intestinal isoenzyme.

Int J Surg Pathol 2006 Jul;14(3): p247-51

Pelosi G; Petrella F; Sandri MT; Spaggiari L; Galetta D; Viale G

Case 10

A 52 y/o woman was diagnosed as having a mediastinal mass on routine chest x-ray. Employment films showed a right middle lobe mass that was also seen four years earlier. Interval x-rays since that time showed a slowly enlarging mass, with the development of other small nodules in both lungs. A nodule finally showed up in the mediastinum. The patient had never smoked. At surgery, a 5 cm mass was present in the anterior apical segment of the right upper lobe. An additional five other smaller nodules, all with the gross appearance of the large nodule, were found. All were sub-pleural and elevated, but did not dimple the pleura. The cut surface of the nodules was homogeneous, rubbery and gray. Neither necrosis nor hemorrhage was seen.

Santa Barbara (Miramonte Laboratory) - Leiomyoma

Santa Rosa (Santa Rosa Memorial Hospital) - Smooth muscle tumor, low grade (2);

Sarcoma vs mesothelioma (1)

Woodland Hills (Kaiser Permanente) - Leiomyosarcoma

Arkansas (The Lab of Path, PA) - Metastasizing leiomyoma

Georgia, Atlanta - Spindle cell neoplasm; rule out metastatic leiomyosarcoma

Kansas (Peterson Laboratory Services) - Atypical spindle cell neoplasm

Maryland, Baltimore - Benign metastasizing leiomyoma(s)

New Mexico, Albuquerque - Metastasizing leiomyoma

Texas, Victoria - Metastasizing leiomyoma

Canada (University of Sherbrooke) - Metastasizing uterine leiomyoma

Hong Kong (Hong Kong Baptist Hospital) - Smooth muscle tumor/EBV related

India, Kochi - Metastasizing uterine leiomyoma of lung

Dx: B9 metastasizing uterine leiomyoma, lung

Intravascular leiomyomatosis and benign metastasizing leiomyoma: an unusual case.

Int J Gynecol Cancer 2006 May-Jun;16(3): p1448-50
Arif S; Ganesan R; Spooner D

Pulmonary benign metastasizing leiomyoma from the uterus in a
postmenopausal woman: report of a case.
Surg Today 2004;34(1): p55-7
Funakoshi Y; Sawabata N; Takeda S; Hayakawa M; Okumura Y; Maeda H

Benign metastasizing leiomyoma: clonality, telomere length and
clinicopathologic analysis.
Mod Pathol 2006 Jan;19(1): p130-40
Patton KT; Cheng L; Papavero V; Blum MG; Yeldandi AV; Adley BP; Luan
C; Diaz LK; Hui P; Yang XJ

Benign "metastasizing" lipoleiomyoma of the uterus.
Int J Gynecol Pathol 2003 Apr;22(2): p202-4
Fukunaga M

Pulmonary benign metastasizing leiomyoma associated with intravenous
leiomyomatosis of the uterus: clinical behavior and genomic changes
supporting a transportation theory.
Int J Gynecol Pathol 2008 Jul;27(3): p340-5
Lee HJ; Choi J; Kim KR

Benign metastasizing leiomyoma: report of 2 cases and review of the
literature.
Pathologica 2009 Feb;101(1): p9-11
Mlika M; Ayadi-Kaddour A; Smati B; Ismail O; El Mezni F

