

Solitary fibrous tumor (SFT)

- A histologic spectrum mesenchymal neoplasms that includes hemangiopericytoma (HPC).
- Tumors & tumor-like conditions of fibroblasts & myofibroblasts.
- SFT (WHO grade I), HPC (grade II), anaplastic HPC (grade III)
- Rarely metastasizing tumors
- Location: every anatomic sites
 - ✓ soft tissue
 - ✓ Viscera
 - ✓ Body cavity sites (**pleura**, peritoneum, and meninges)
 - ✓

Solitary fibrous tumor (SFT)

Microscopy:

- ✓ Fibroblastic spindle cells
- ✓ arranged in a pattern-less pattern
- ✓ wire-like collagen
- ✓ often a thin-walled branching (staghorn) or hemangiopericytoma-like vascular pattern.
- ✓ Other features: myxoid change, mature adipose tissue, floret-like giant cells (formerly referred to as giant cell angiofibroma)
- ✓ IHC markers:
 - ✓ CD34 is virtually always expressed, this marker lacks specificity
Commonly used marker of hematopoietic progenitor cells and endothelial cells
 - ✓ STAT6 has been found to be a more sensitive and specific marker related to inversion at the 12q13 locus that fuses NAB2 & STAT6 genes
- ✓ Most cases are both histologically and clinically malignant, particularly those with areas of high cellularity, necrosis, and greater than four mitotic figures per 10 high power field (HPF)

Poor prognostic factors

- Size > 10 cm
- 4 mitoses/ 10 HPF
- Cellular atypia
- Positive margins
- Malignant histology (histology have less significance in retroperitoneum)

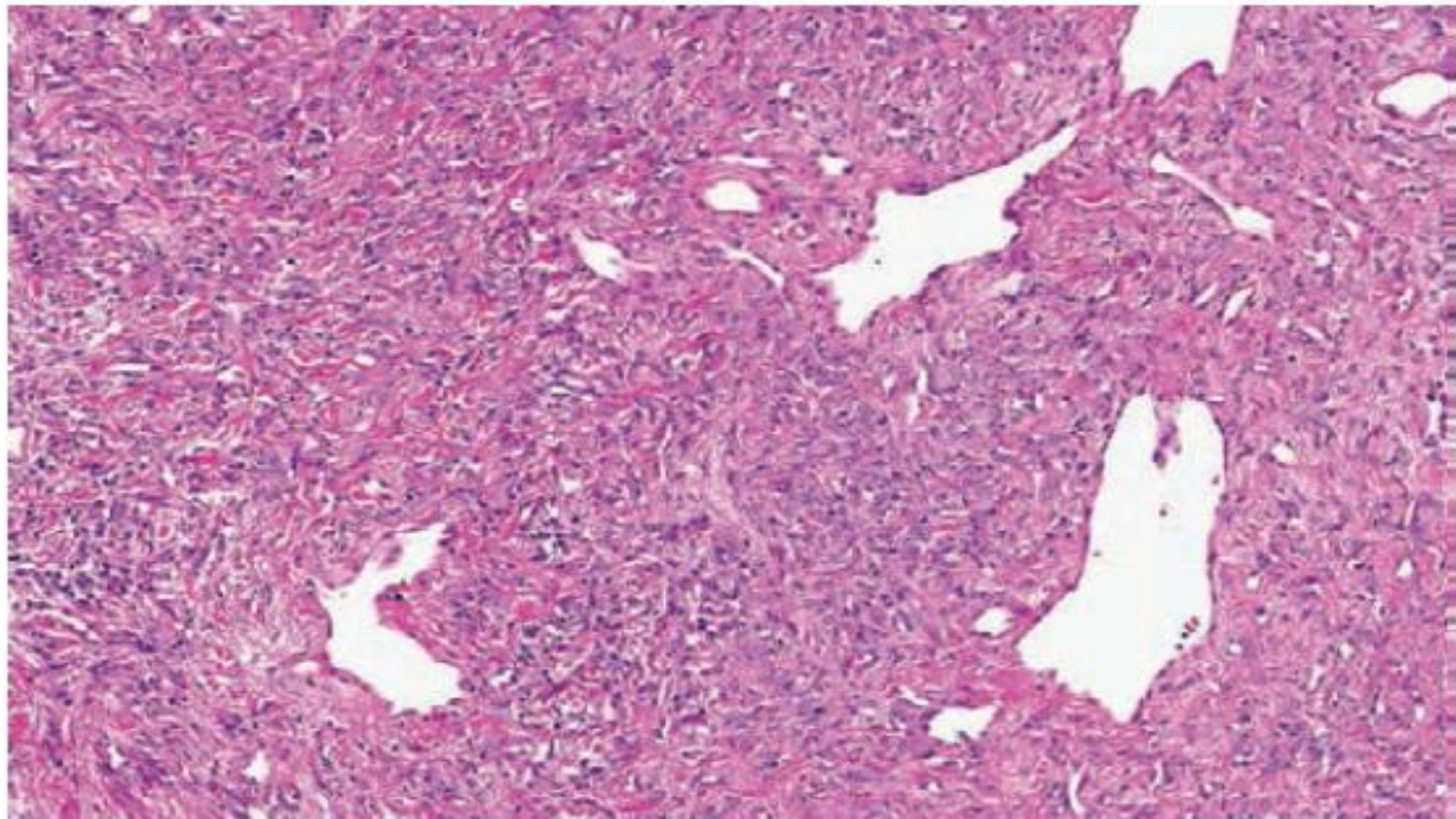


Figure 41.23 Solitary fibrous tumor showing a prominent hemangiopericytoma-like vascular pattern and variable cellularity.

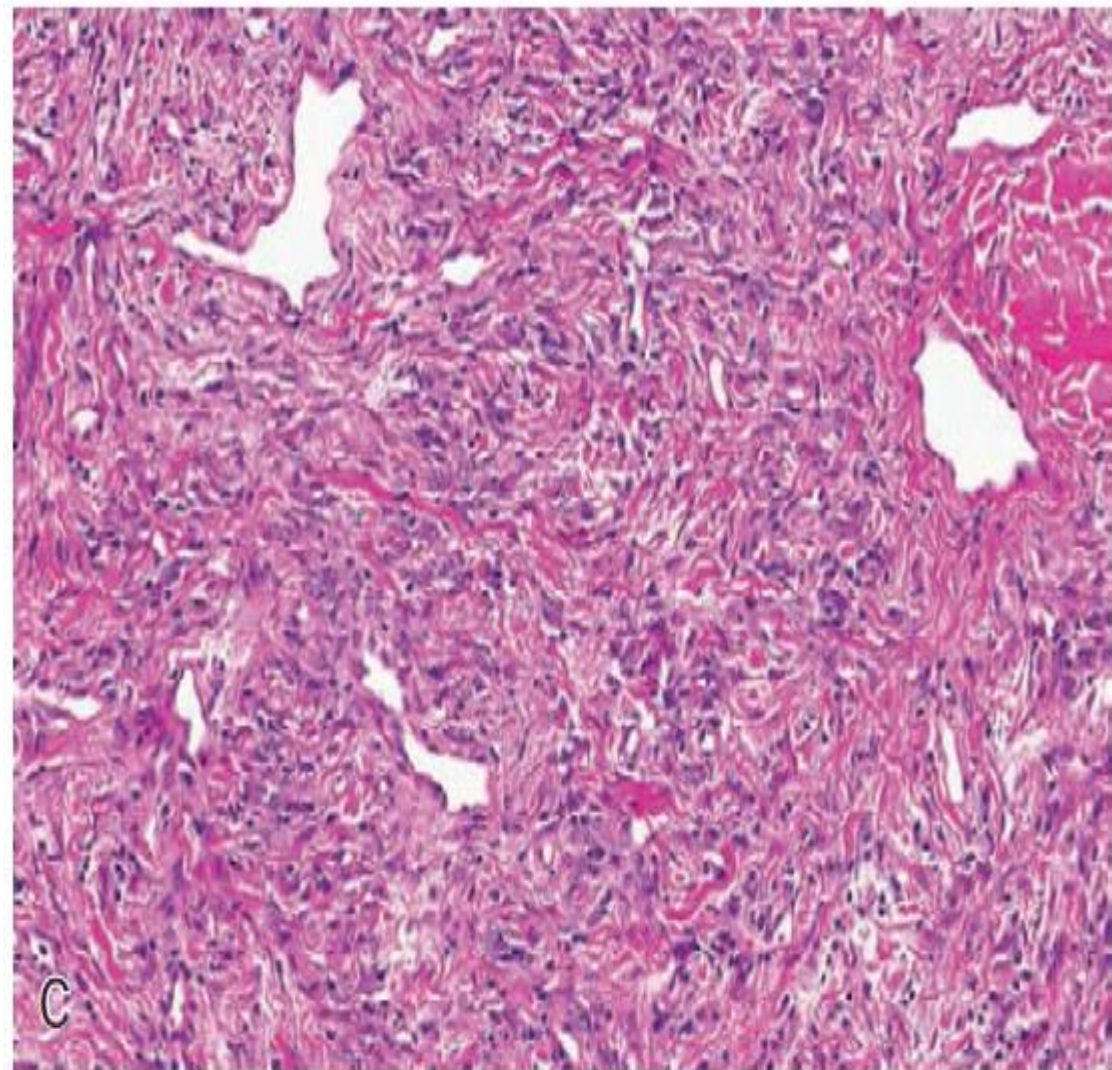
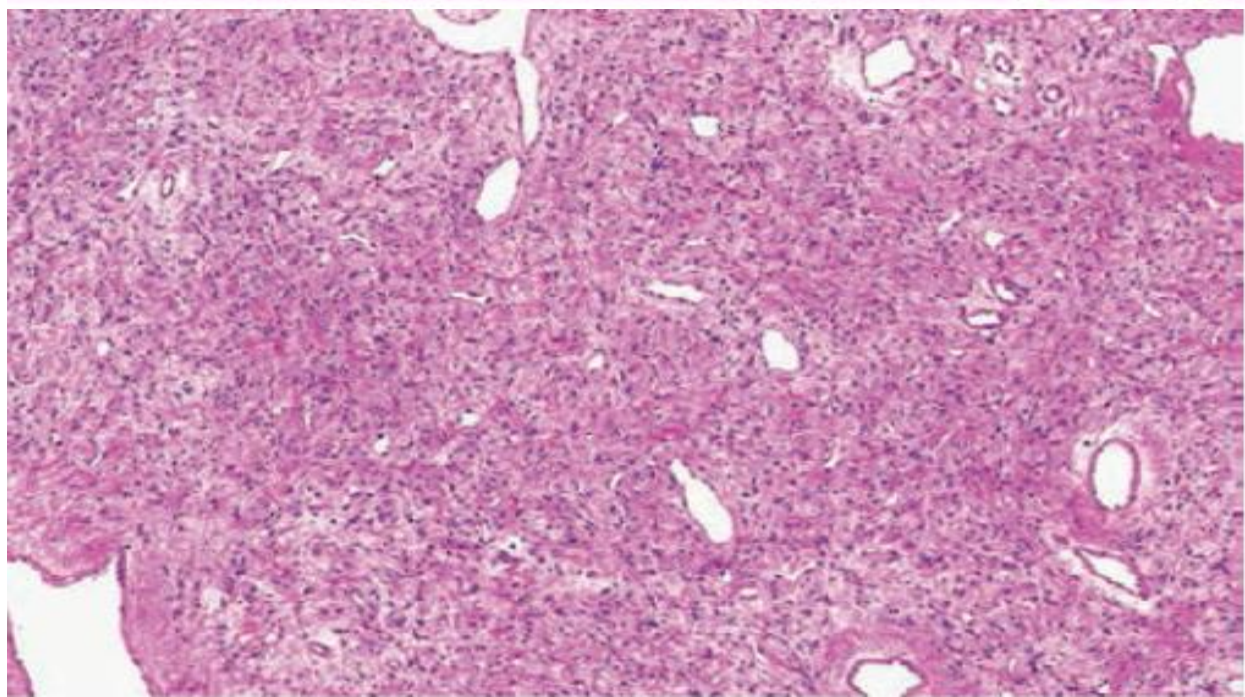
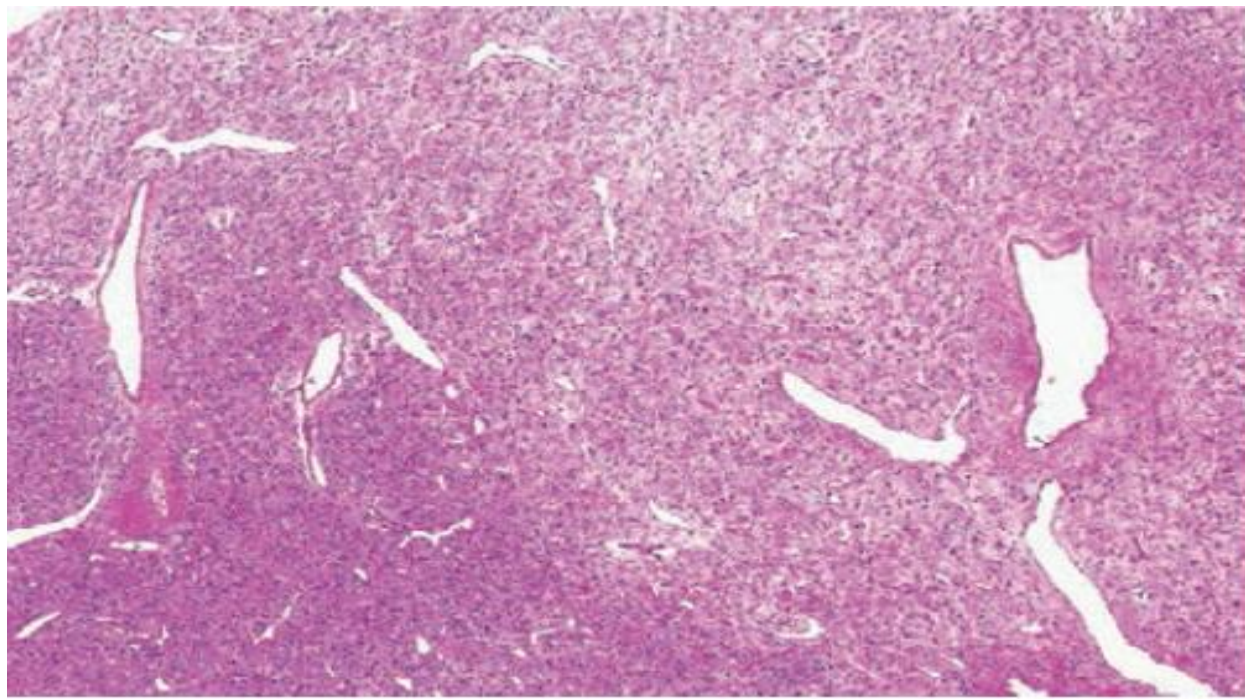


Figure 41.24 Solitary Fibrous Tumor. **A**, Prominent hemangiopericytoma-like vascular pattern. **B**, Hypocellular zone. **C**, Wire-like collagen in solitary fibrous tumor.

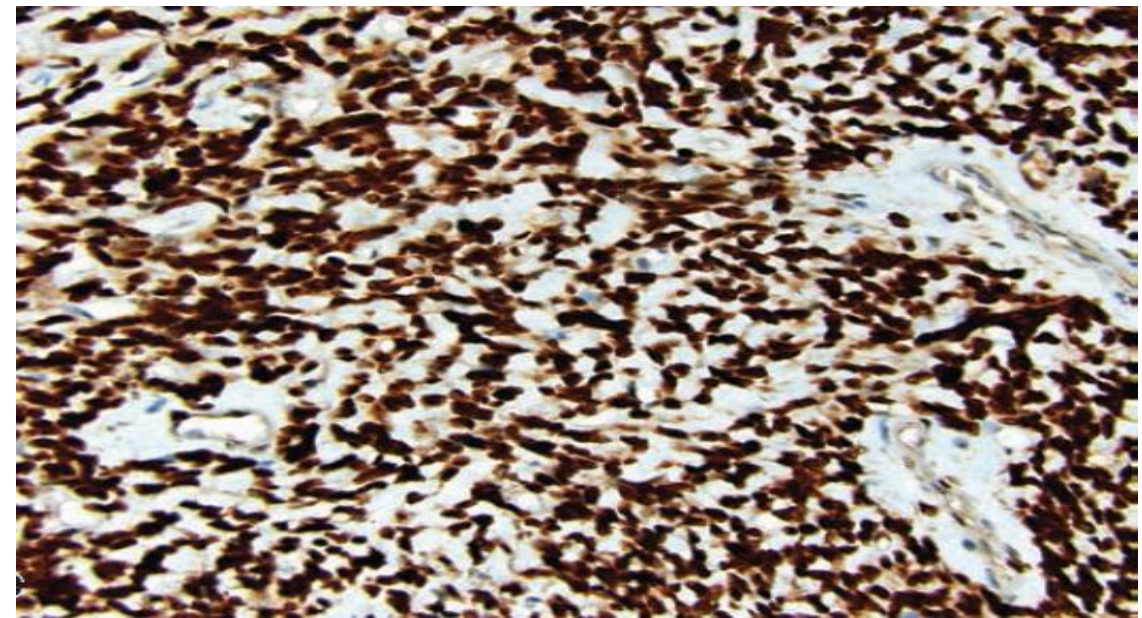
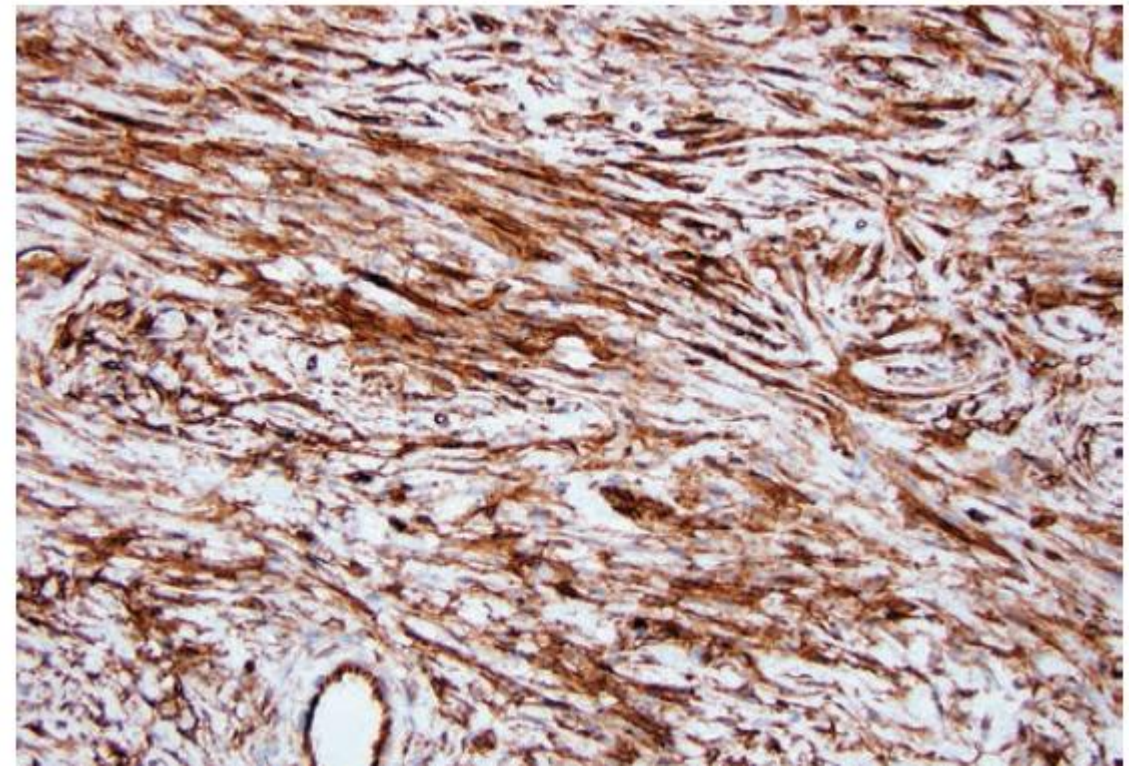
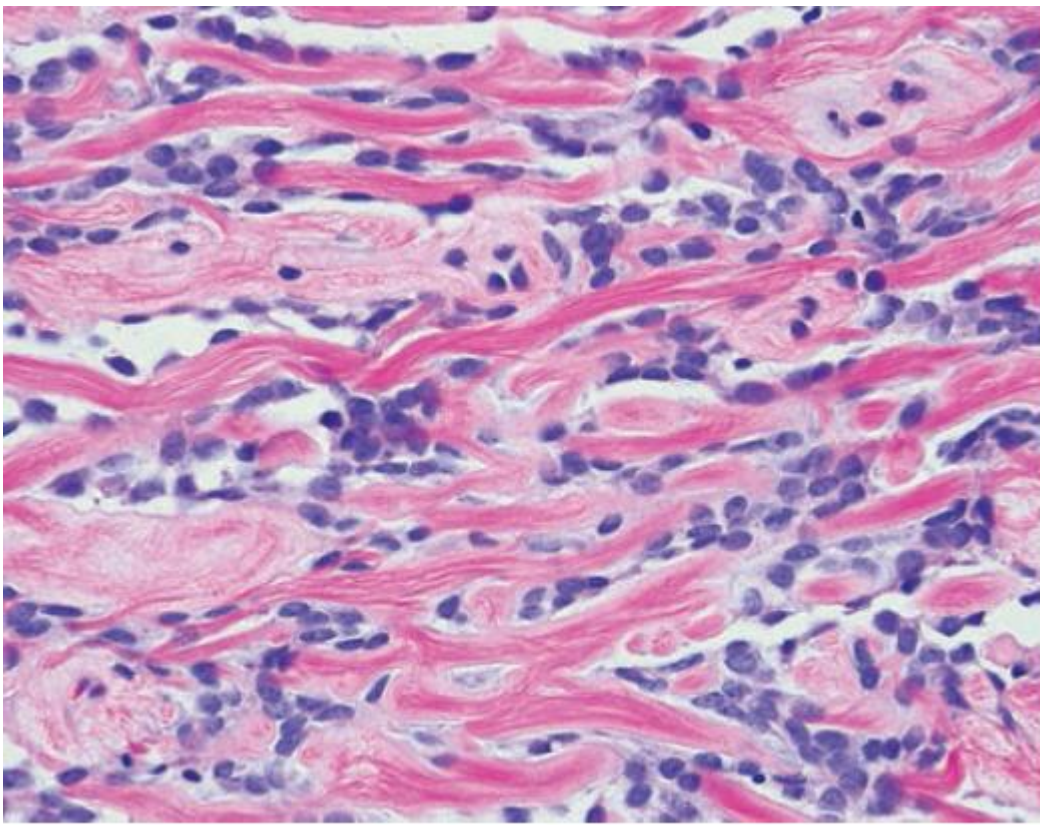
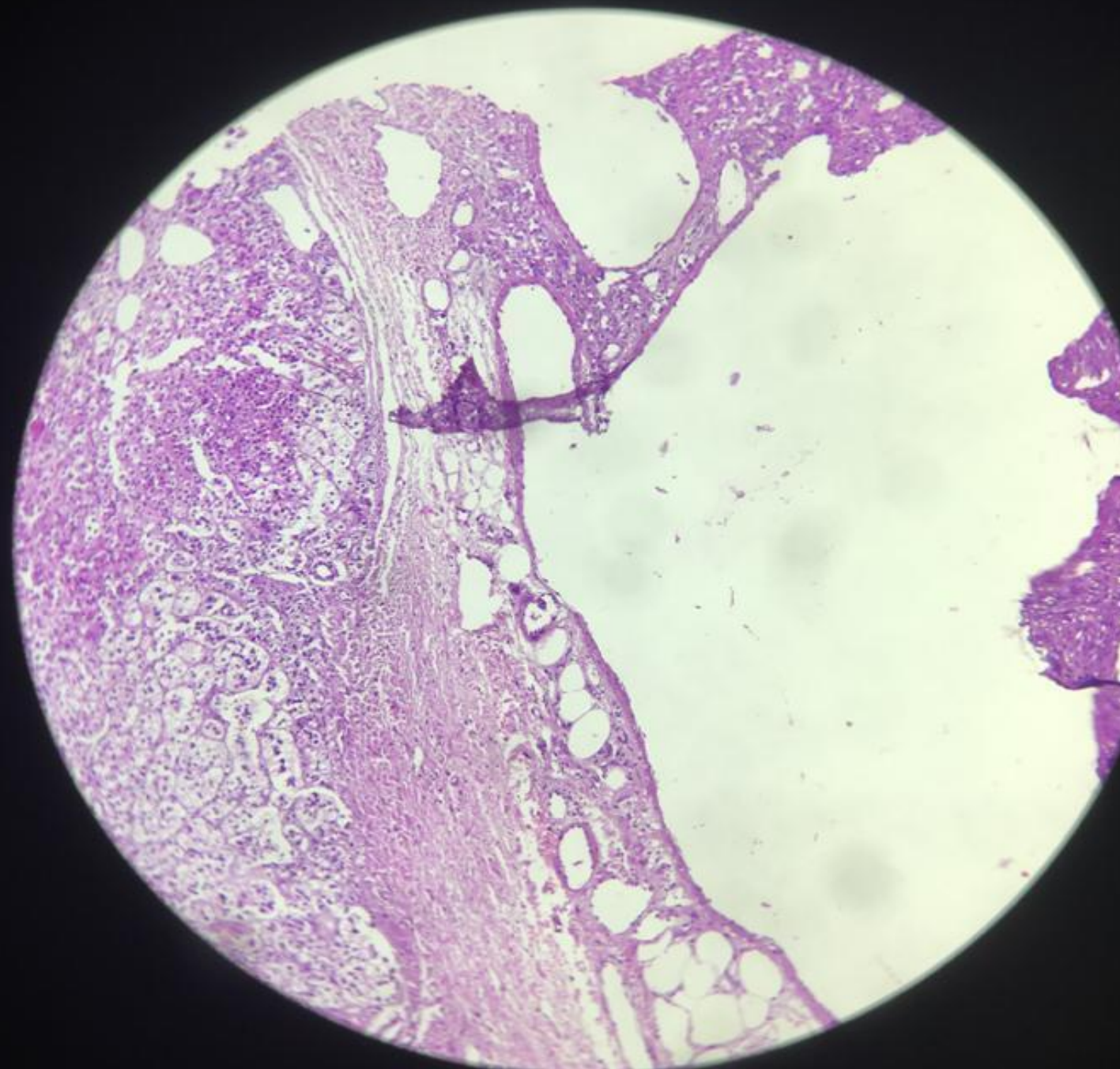
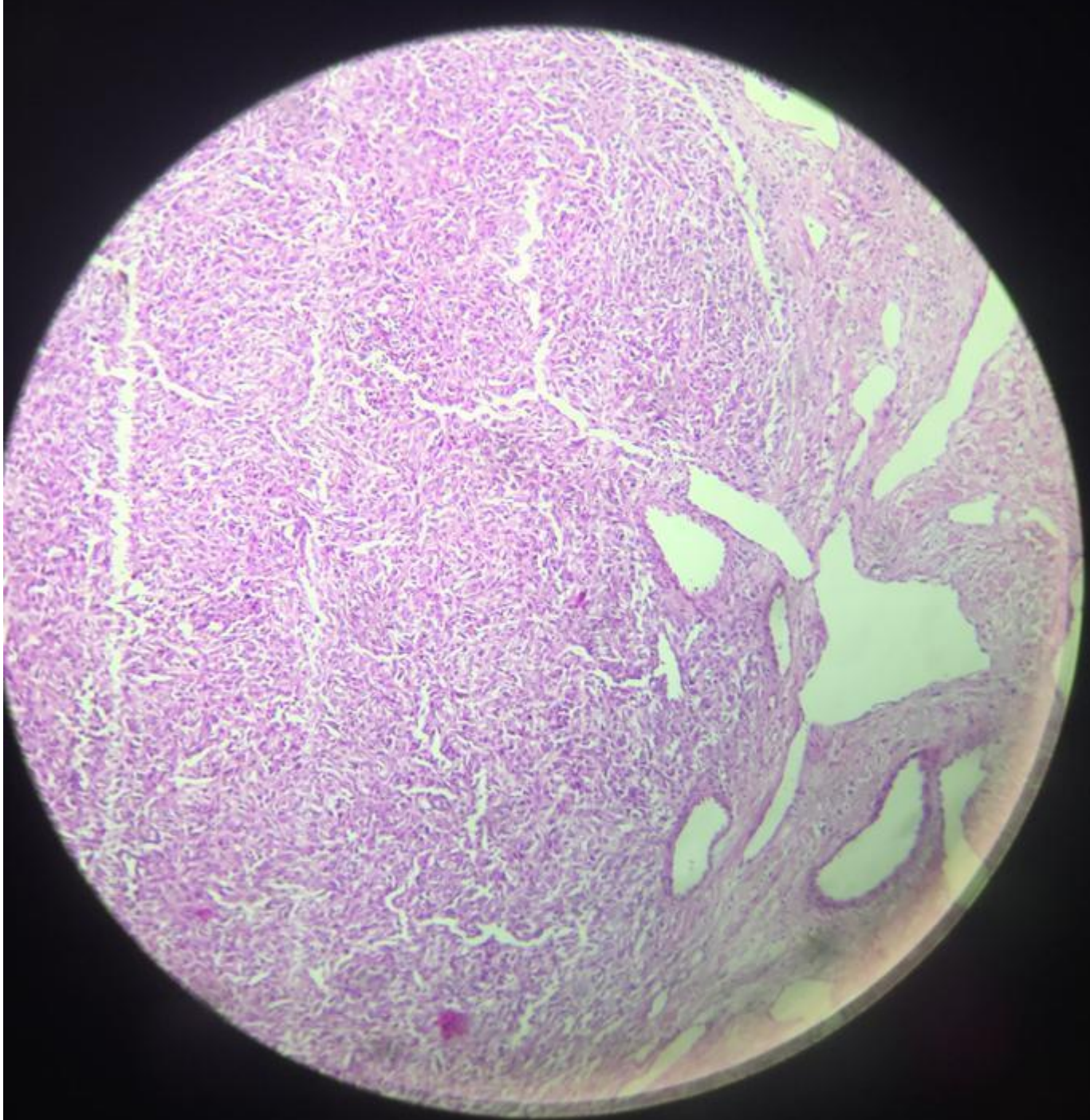
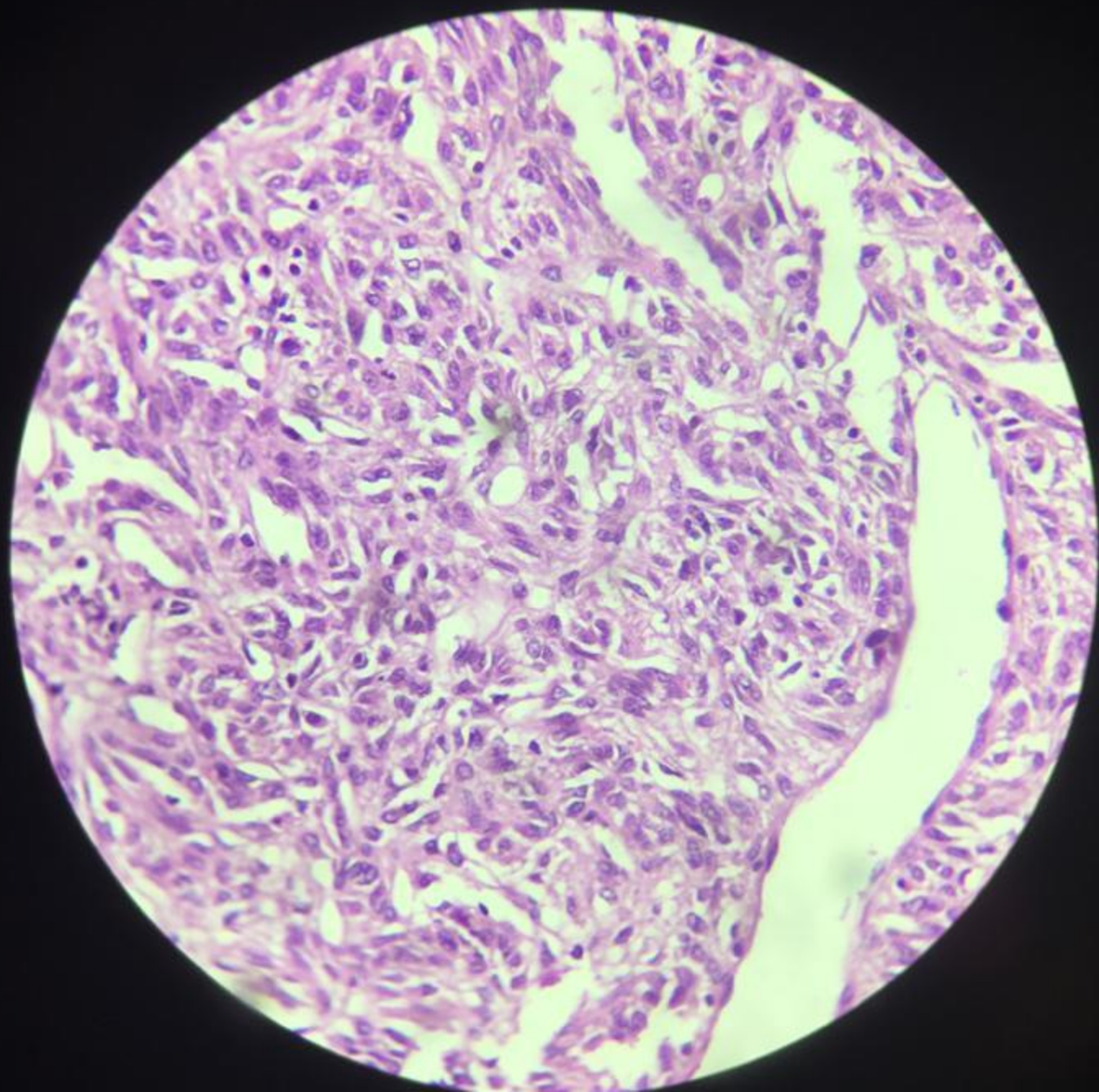


Figure 43.136 Solitary Fibrous Tumor/Hemangiopericytoma, WHO Grade I. **A**, Demonstrating the classic solitary fibrous tumor histology, this tumor is predominantly spindle and shows lace-like brightly eosinophilic intercellular collagen. Immunohistochemistry reveals diffuse CD34 **(B)** and nuclear STAT6 **(C)** positivity.







IHC staining of this case

- CD 34 : Positive in tumor cells

CD34: marker of hematopoietic progenitor cells and endothelial cells

- BCL2: Positive in tumor cells

Positive staining/normal: Lymph node, adrenal cortex, thymus-medullary cells, thyroid gland solid cell nests
Positive staining/normal: Several conditions

- S-100: Negative in tumor cells

S-100: Marker of schwann cells, melanocytes, myoepithelial cell

- Pan-Ck: Negative in tumor cells

Pan-Ck: Diagnose epithelial (cytokeratin+) versus nonepithelial cells / tumors (usually cytokeratin negative)

- EMA: Positive in few tumor cells

EMA: Common epithelial marker

- Ki67: Positive in about 2% of tumor cells

Save

Email

Send to

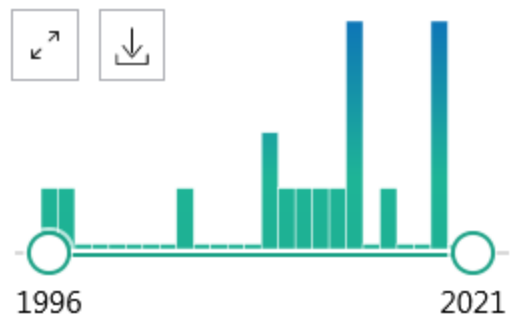
Sorted by: Best match

Display options

MY NCBI FILTERS

17 results

RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- 1 **Solitary fibrous tumor** mimicking **adrenal tumor** concomitant with contralateral **adrenal** pheochromocytoma: A case report of surgical resection after long-term observation.
 Kuribayashi S, Hatano K, Tsuji H, Yumiba S, Nakai Y, Nakayama M, Kakimoto KI, Nishimura K.
 Int J Surg Case Rep. 2019;58:170-173. doi: 10.1016/j.ijscr.2018.11.070. Epub 2019 Apr 17.
 PMID: 31055127 [Free PMC article.](#)
 Metaiodobenzylguanidine scintigraphy showed uptake in the right **adrenal** gland. The **tumor** in the right **adrenal** gland was 5 cm in diameter. ...The histological diagnosis was **solitary fibrous tumor**. There was no recurrence 2 years after surg ...
- 2 **Adrenal solitary fibrous tumor: A case report.**
 Yonli DS, Chakroun M, Mokadem S, Saadi A, Rammeh S, Chebil M.
 Urol Case Rep. 2019 May 22;27:100919. doi: 10.1016/j.eucr.2019.100919. eCollection 2019 Nov.
 PMID: 31687355 [Free PMC article.](#)
Solitary fibrous tumor (SFT) is a rare spindle cell neoplasm, originally described in the pleural cavity. ...A suspect malignant **adrenal** mass has been detected. He underwent right adrenalectomy and

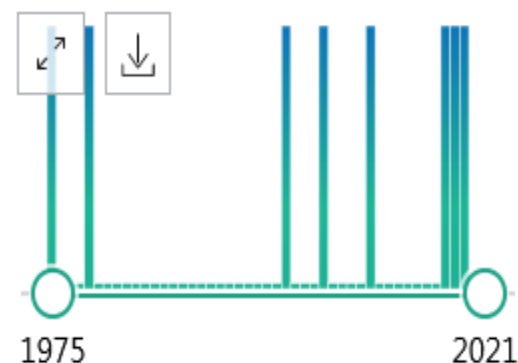


Sorted by: Best match

MY NCBI FILTERS

7 results

RESULTS BY YEAR


 [Papillary Solitary Fibrous Tumor/**Hemangiopericytoma**: An Uncommon Morphological Form With NAB2-STAT6 Gene Fusion.](#)

1

Cite

Yao ZG, Wu HB, Hao YH, Wang XF, Ma GZ, Li J, Li JF, Lin CH, Zhong XM, Wang Z, Wang DZ.

Share

J Neuropathol Exp Neurol. 2019 Jul 4;nlz053. doi: 10.1093/jnen/nlz053. Online ahead of print.

PMID: 31271432

We summarized the clinicopathologic features of 12 patients with papillary SFT/HPCs (8 males and 4 females; median age: 59 years), including 8 previously reported cases. Tumors were present in the meninges (75%, 9/12), **adrenal** gland (8%, 1/12), orbit (8%, 1/12), or spinal ...

TEXT AVAILABILITY

 Abstract

 Free full text

 [Primary Ewing Sarcoma / Primitive Neuroectodermal Tumor of the Kidney: A Clinicopathologic Study of 23 Cases.](#)

2

Cite

Murugan P, Rao P, Tamboli P, Czerniak B, Guo CC.



ELSEVIER

Contents lists available at [ScienceDirect](#)

International Journal of Surgery Case Reports

journal homepage: www.casereports.com



Solitary fibrous tumor mimicking adrenal tumor concomitant with contralateral adrenal pheochromocytoma: A case report of surgical resection after long-term observation



Sohei Kuribayashi, Koji Hatano, Hirotaka Tsuji, Satoru Yumiba, Yasutomo Nakai, Masashi Nakayama, Ken-ichi Kakimoto, Kazuo Nishimura*

Department of Urology, Osaka International Cancer Institute, Osaka, Japan

Urology Case Reports 27 (2019) 100919

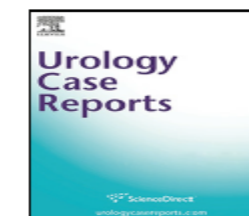


ELSEVIER

Contents lists available at [ScienceDirect](#)

Urology Case Reports

journal homepage: www.elsevier.com/locate/eucr



Oncology

Adrenal solitary fibrous tumor: A case report



Diataga Sylvestre Yonli^{a,*}, Marouene Chakroun^b, Seif Mokadem^b, Ahmed Saadi^b, Soumaya Rammeh^c, Mohamed Chebil^b

^a Department of Urology, Yalgado Ouedraogo University Hospital of Ouagadougou, 03 BP 7022 Ouagadougou 03, Burkina Faso

^b Department of Urology, Charles Nicolle University Hospital of Tunis, Boulevard du 9 Avril 1938, 1006, Tunis, Tunisia

^c Department of Pathology, Charles Nicolle University Hospital of Tunis, Tunis, Tunisia