

1

L2025-1

Tomáš Rozkoš

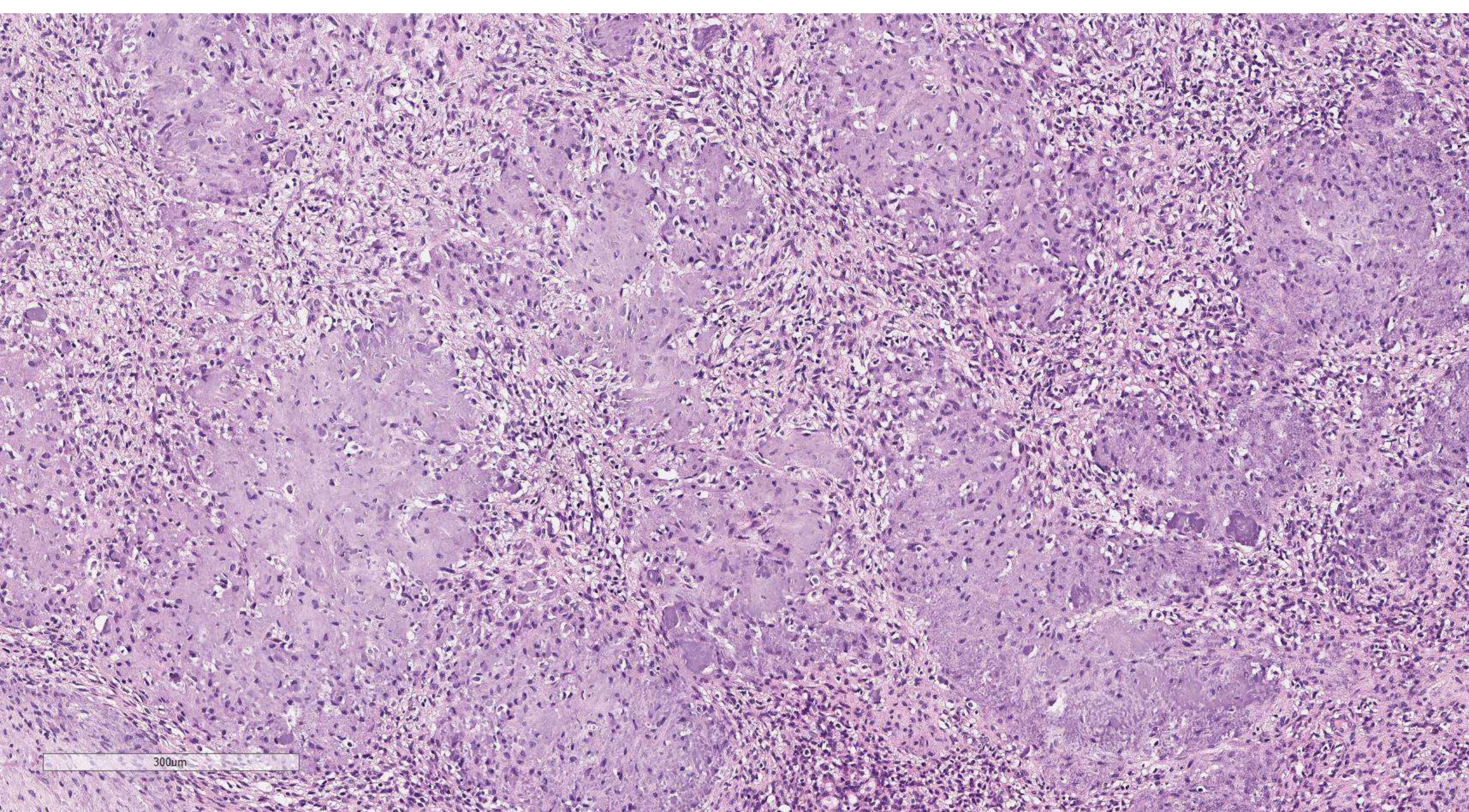
případ č.1

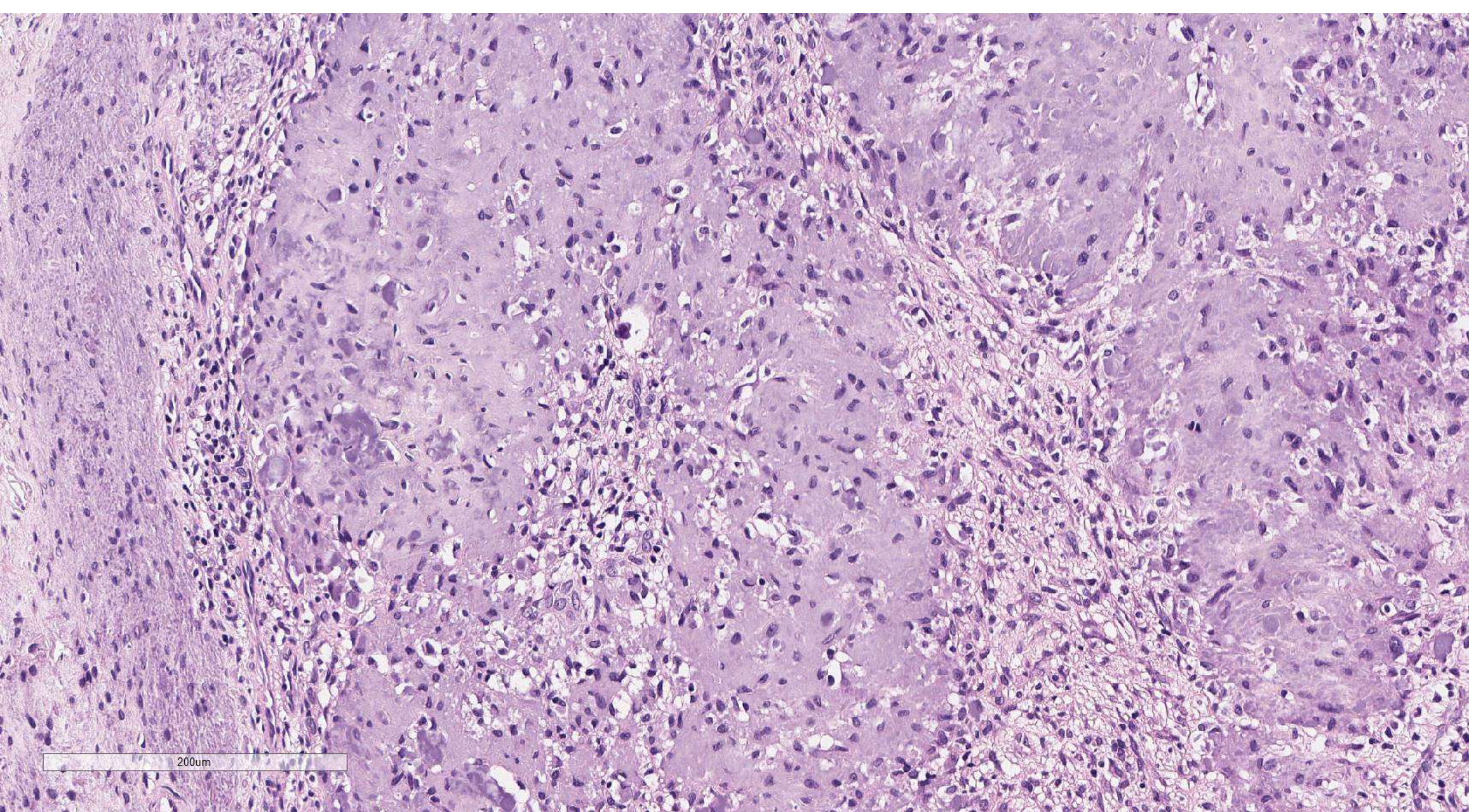
Klinické údaje a makropopis

- žena, 37 let
- tumor v podkoží plosky levé nohy
- potrhaná, tukově vazivová částice 35 x 15 x 15 mm, na řezu s ložiskově prokrváceným tumorem šedé barvy, do průměru 15 mm, který zasahuje do potrhaných resekčních okrajů



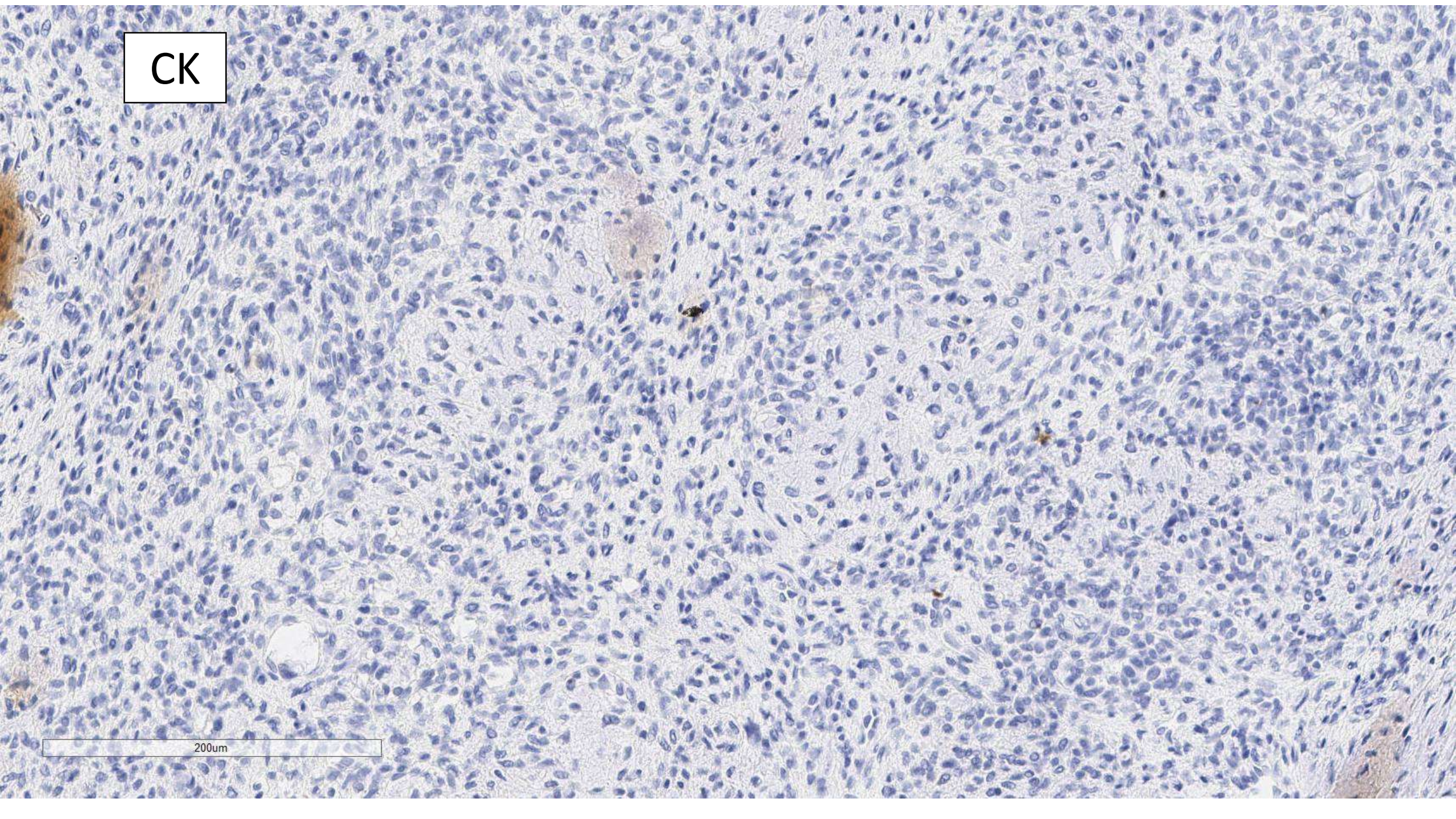




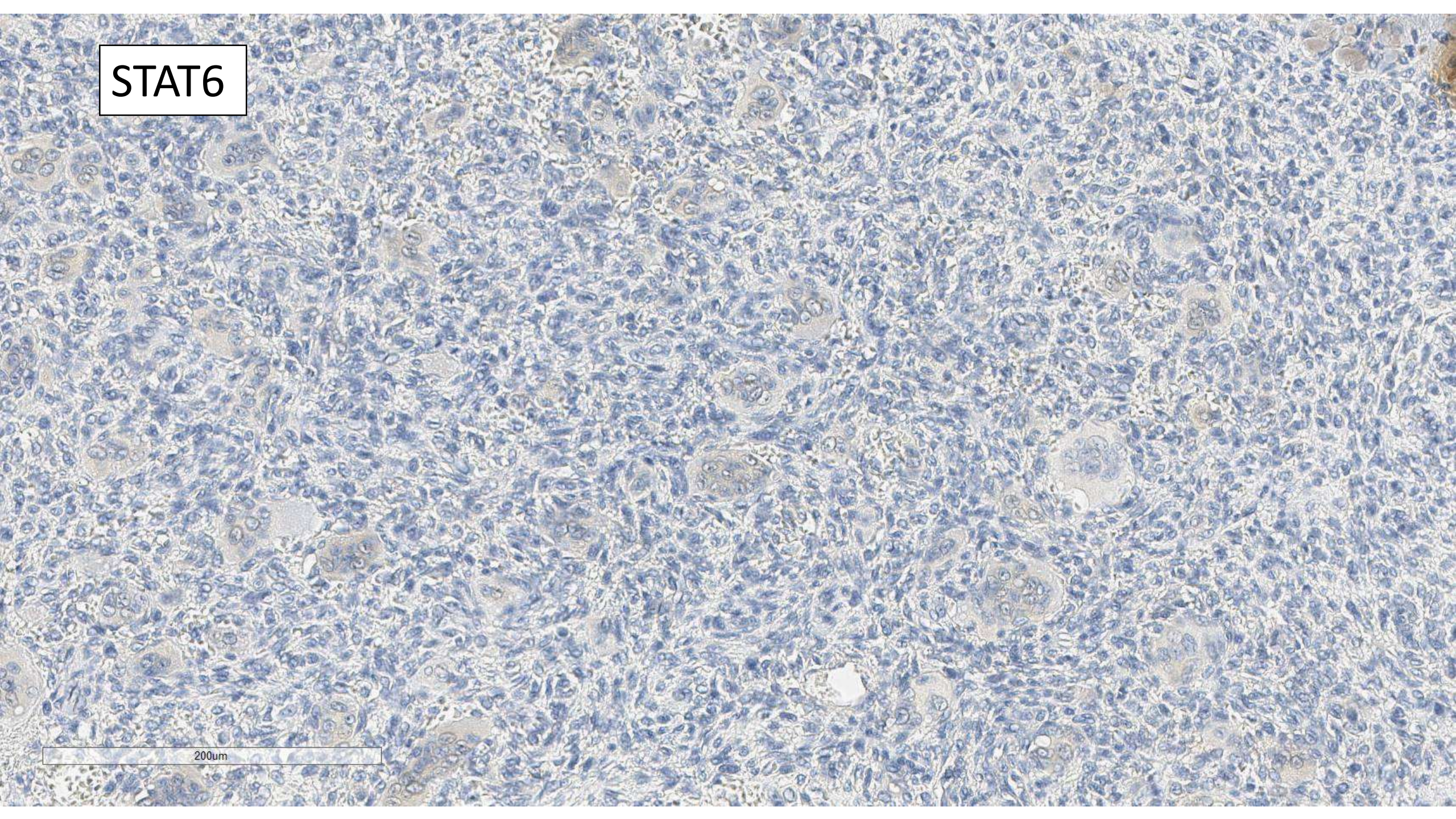


CK

200um

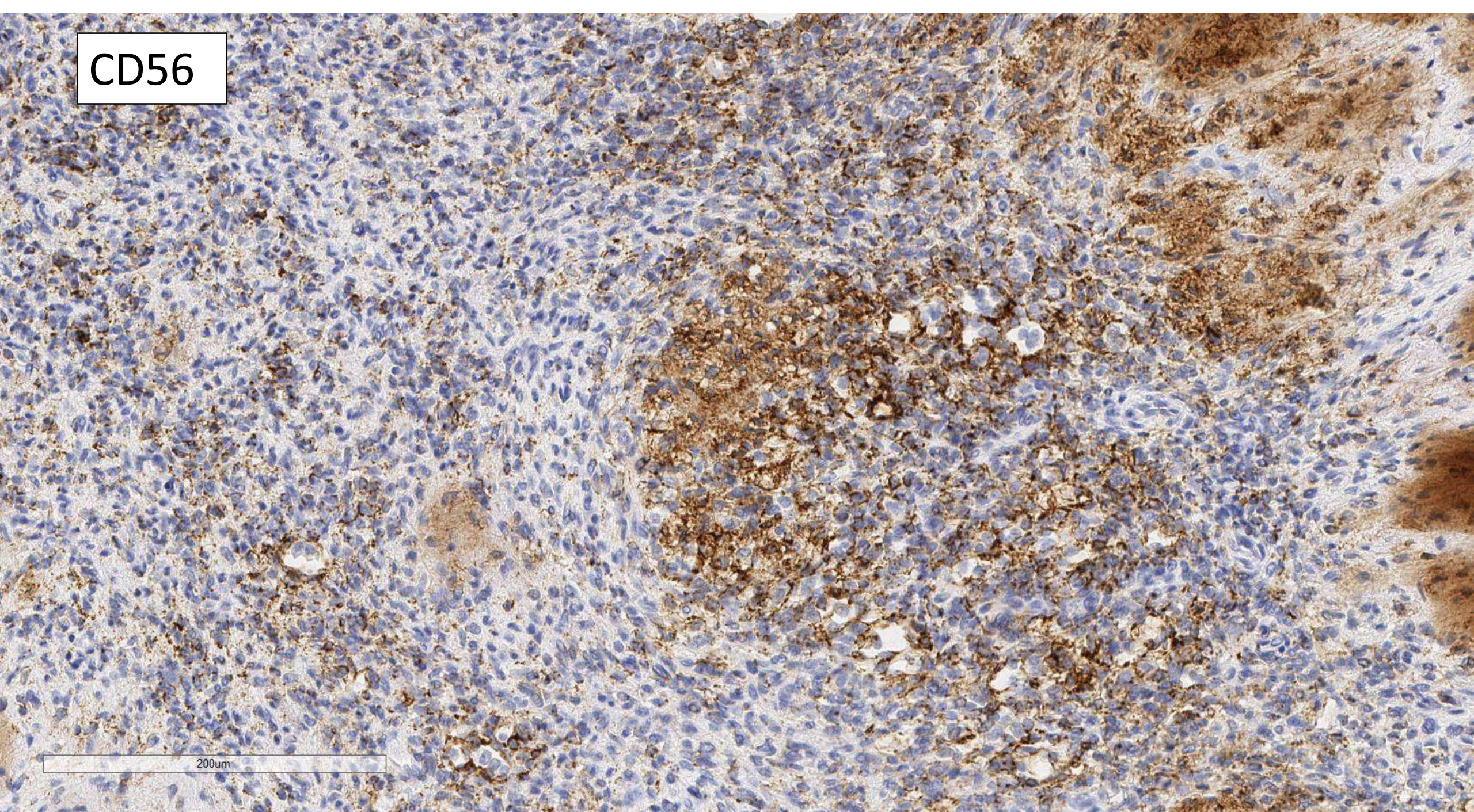


STAT6



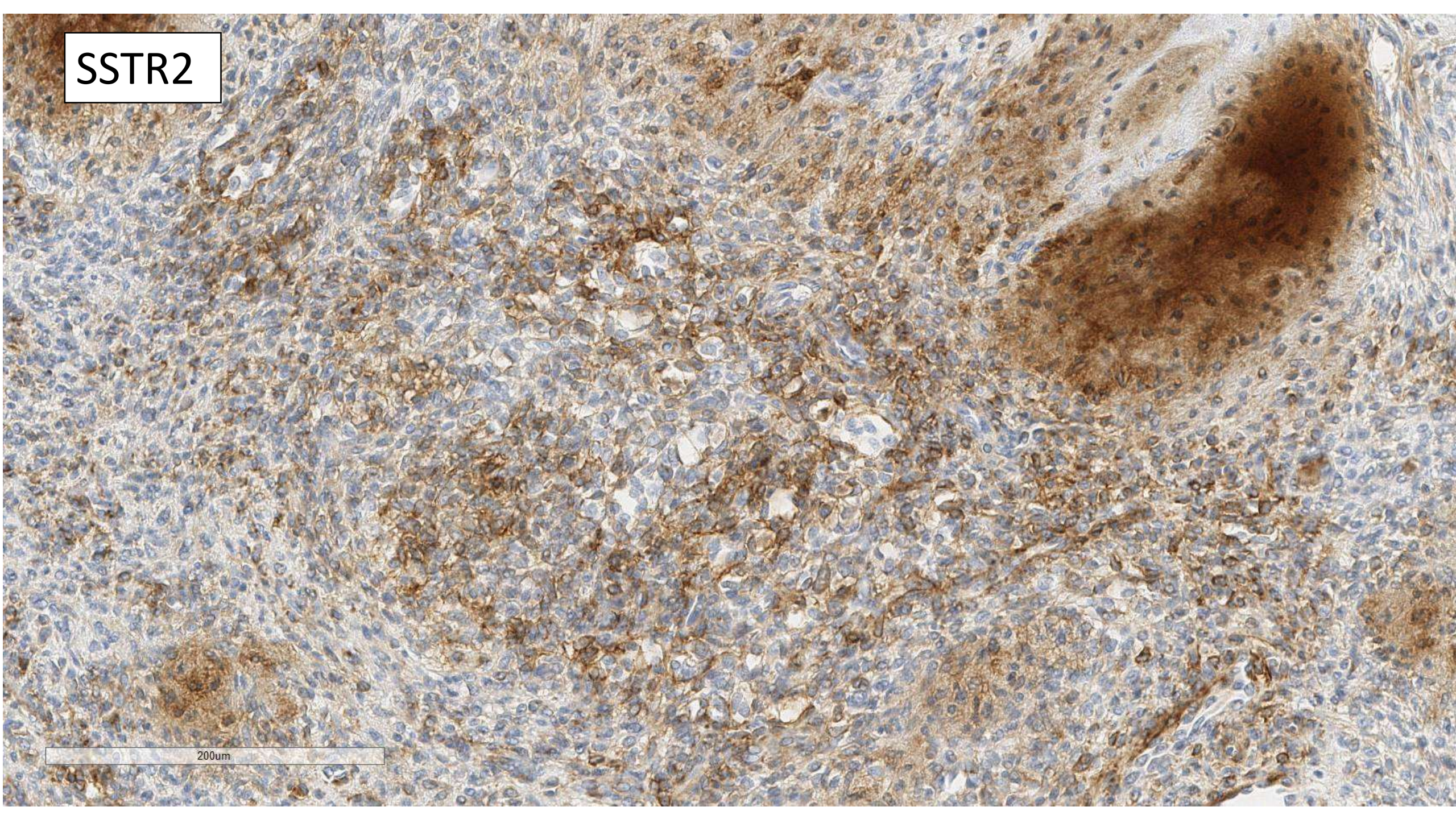
200µm

CD56



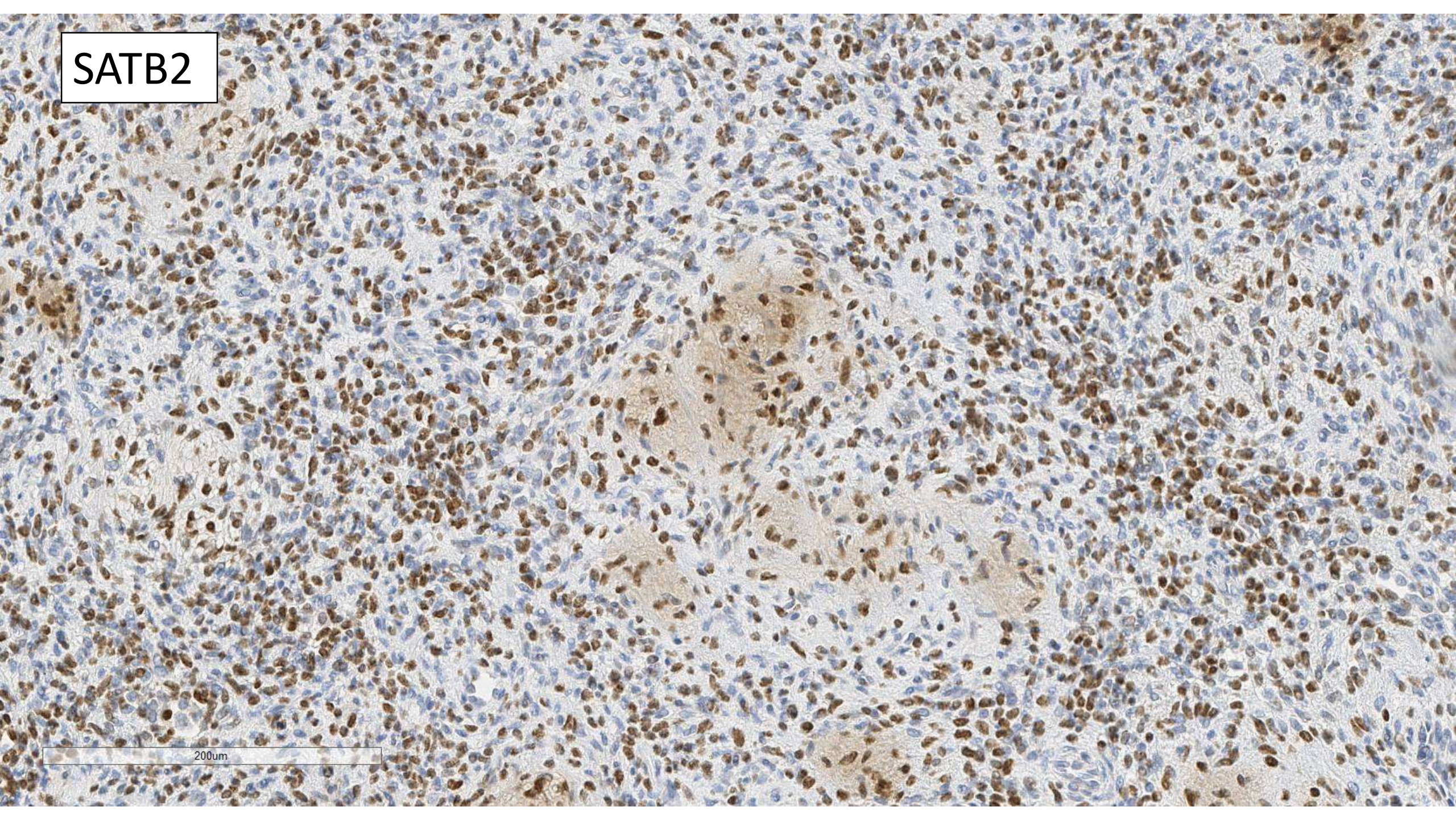
200um

SSTR2



200um

SATB2



200µm

případ č.1

Diagnóza

Fosfaturický mezenchymální tumor

případ č.1

Diskuze



Seminars in Diagnostic Pathology

Volume 36, Issue 4, July 2019, Pages 260-268



Review article

Phosphaturic mesenchymal tumors: A review and update

Andrew L. Folpe

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➤ [Am J Surg Pathol.](#) 2017 Oct;41(10):1371-1380. doi: 10.1097/PAS.0000000000000890.

Phosphaturic Mesenchymal Tumors: Clinicopathologic, Immunohistochemical and Molecular Analysis of 22 Cases Expanding their Morphologic and Immunophenotypic Spectrum

Abbas Agaimy ¹, Michael Michal, Simion Chiosea, Fredrik Petersson, Ladislav Hadravsky, Glenn Kristiansen, Raymund E Horch, Jan Schmolders, Arndt Hartmann, Florian Haller, Michal Michal

Affiliations expand

PMID: 28614212 DOI: [10.1097/PAS.0000000000000890](https://doi.org/10.1097/PAS.0000000000000890)

případ č.1

Diskuze

- 1957 Prader, 1972 Evans, Azzopardi, 1987 Weidner, Santa Cruz
- 450 případů
- střední věk, kdekoliv (1/2 případů na končetinách/akrálně)
- nespecific. příznaky (svalová bolest, progresivní slabost) – 3 roky k dg. TIO a 5 let k resekci tumoru
- „non-fosfaturická“ varianta PMT, maligní PMT
- TIO vzácně i u jiných tumorů (NF1, McCune Albright sy, SCLC, CRC, RCC, Ca prostaty, anaplastický Ca ŠŽ, HG serózní Ca tuby/ovária)

případ č.1

Diskuze

- PET/CT



- FGF23 (osteoblasty) - ↓ reabsorbce fosfátů v prox. tubulech (vzácně SFR4, FGF7)

případ č.1

Diskuze

TABLE 2. Immunohistochemical and Molecular Findings in Phosphaturic Mesenchymal Tumors (n = 22)

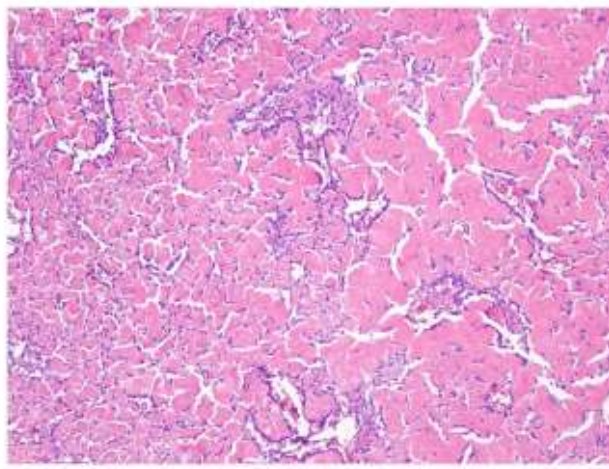
No.	SSTR2A	SATB2	ERG	CD56	S100	CD34	DOG1	STAT6	Beta-catenin	<i>FGFR1</i> FISH
1	+	+++	+	NA	NA	NA	NA	NA	—	—*
2	+	—	+	NA	NA	NA	NA	NA	—	—*
3	—	+++	—	NA	NA	NA	—	NA	NA	+
4	+	+++	+	NA	—	NA	—	NA	NA	+
5	+(F)	—	+	NA	—	NA	—	NA	NA	—
6	+	++	—	NA	NA	NA	NA	NA	—	NA
7	NA	NA	NA	NA	NA	NA	NA	NA	—	NA
8	+	+++	+(F)	NA	NA	NA	—	NA	NA	—*
9	NA	+	+	NA	NA	NA	—	NA	NA	NR
10	—	+++	+	NA	—	NA	NA	NA	NA	+
11	+	+++	+	+	—	+	—	—	—	—*
12	+	+++	+	+	—	—	—	—	NA	—*
13	+	+++	+	+	—	—	—	NA	—	—*
14	+	+++	+	+	—	—	—	—	—	—
15	+	+++	+	+	—	—	—	—	—	+
16	—	+	+	+(F)	—	+	—	—	—	NR
17	+(wk)	+++	+	+	—	—	—	—	—	+
18	+(wk)	+++	+(F)	NA	—	NA	—	NA	—	+
19	NR	++	+	+	—	—	—	NA	NA	+
20	—	++	+	+	NA	—	—	NA	—	NR
21	+	+++	+	+	—	—	—	NA	—	—
22	+(wk)	+++	+	+	—	—	—	—	—	+

*Limited assessability due to poor signal quality.

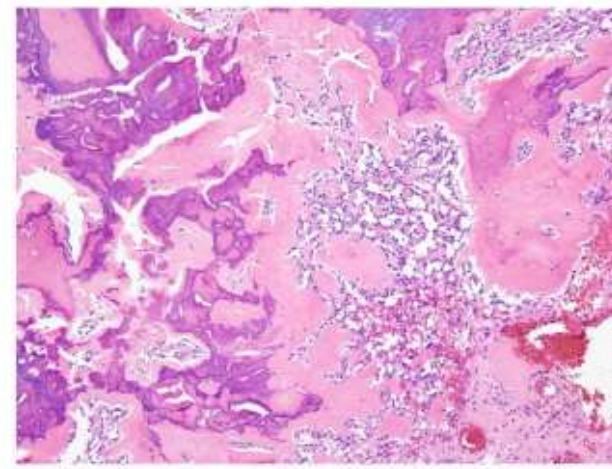
F indicates focal; NA, not available; NR, no results due to poor tissue preservation; wk, weak; —, negative; +, positive in < 25% tumor cells; ++, positive in 26–50% tumor cells; +++, positive in > 50% tumor cells.

- IHC: SATB2, SSTR2, CD56, ERG

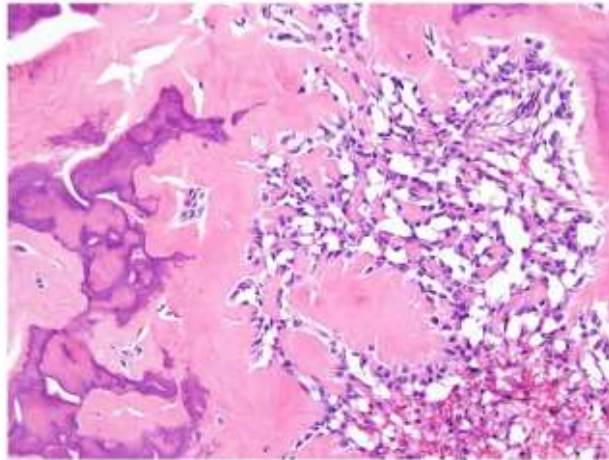
- ISH: *FN1::FGFR1 (FGF1)* (FISH 60 – 70 %)



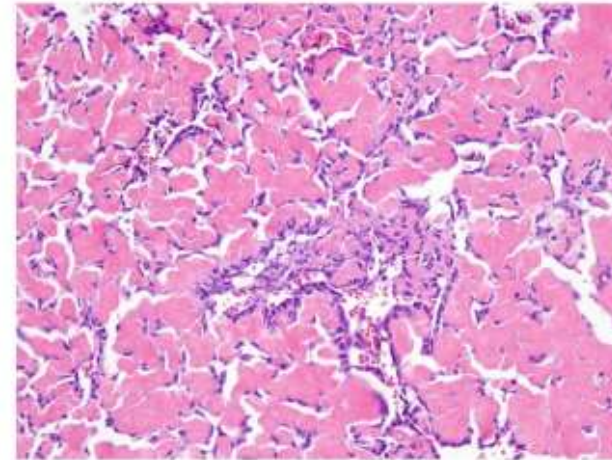
A



B



C



D

Fig. 6. “Osteoblastoma-like” phosphaturic mesenchymal tumor from the femur

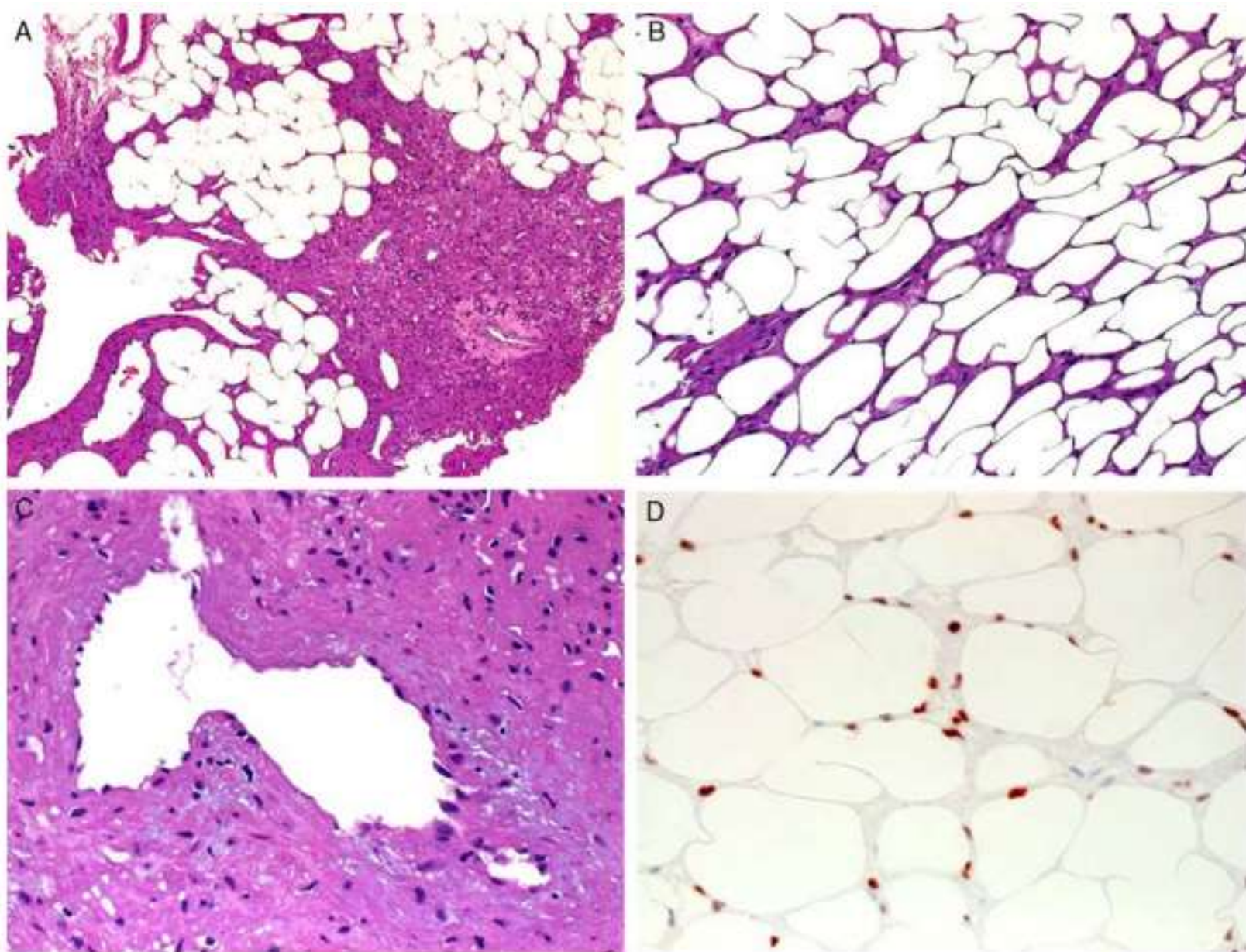
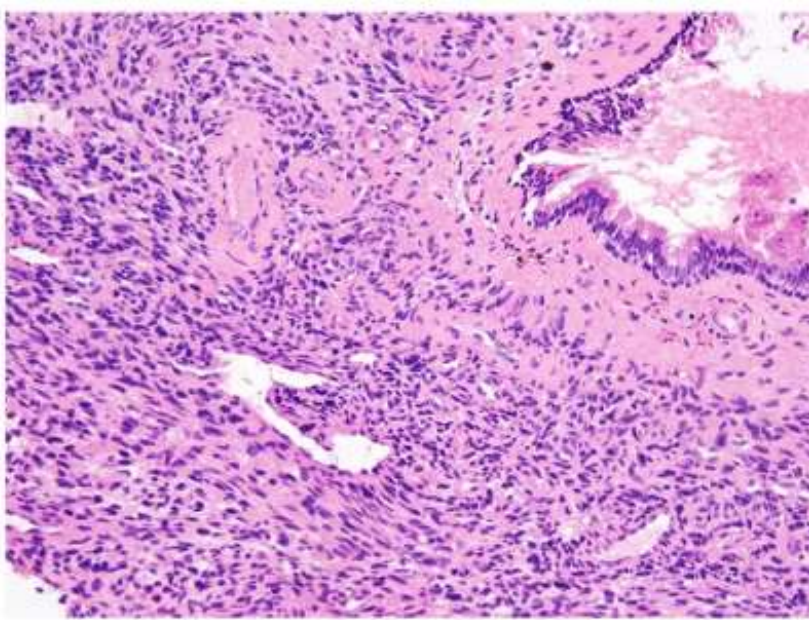
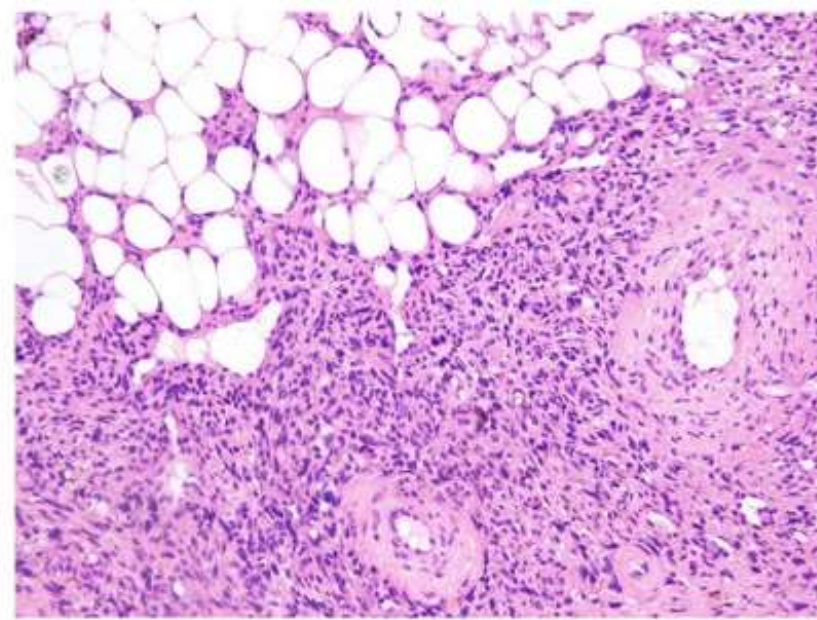


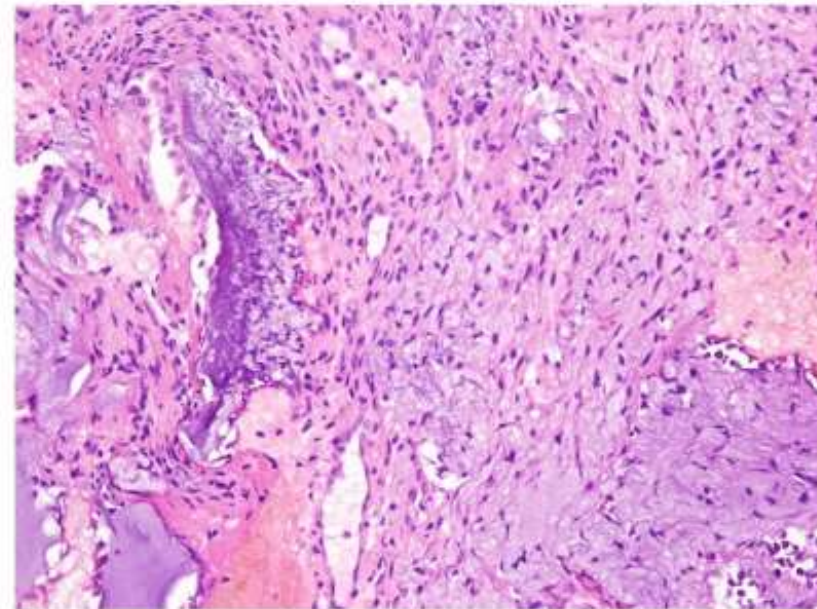
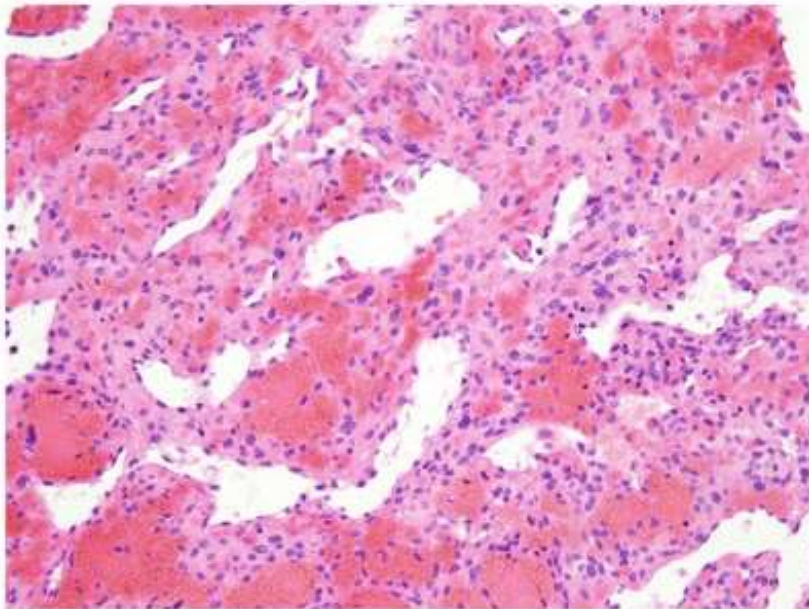
FIGURE 3. A, This angiomyolipoma-like variant PMT contained prominent fatty component imparting biphasic pattern, note prominent thick-walled vessels. B, Tumor cells were intermingled between adipocytic cells. C, thick-walled veins embedded within sclerotic matrix. D, The scattered neoplastic cells are highlighted by SATB2 immunostaining.



A

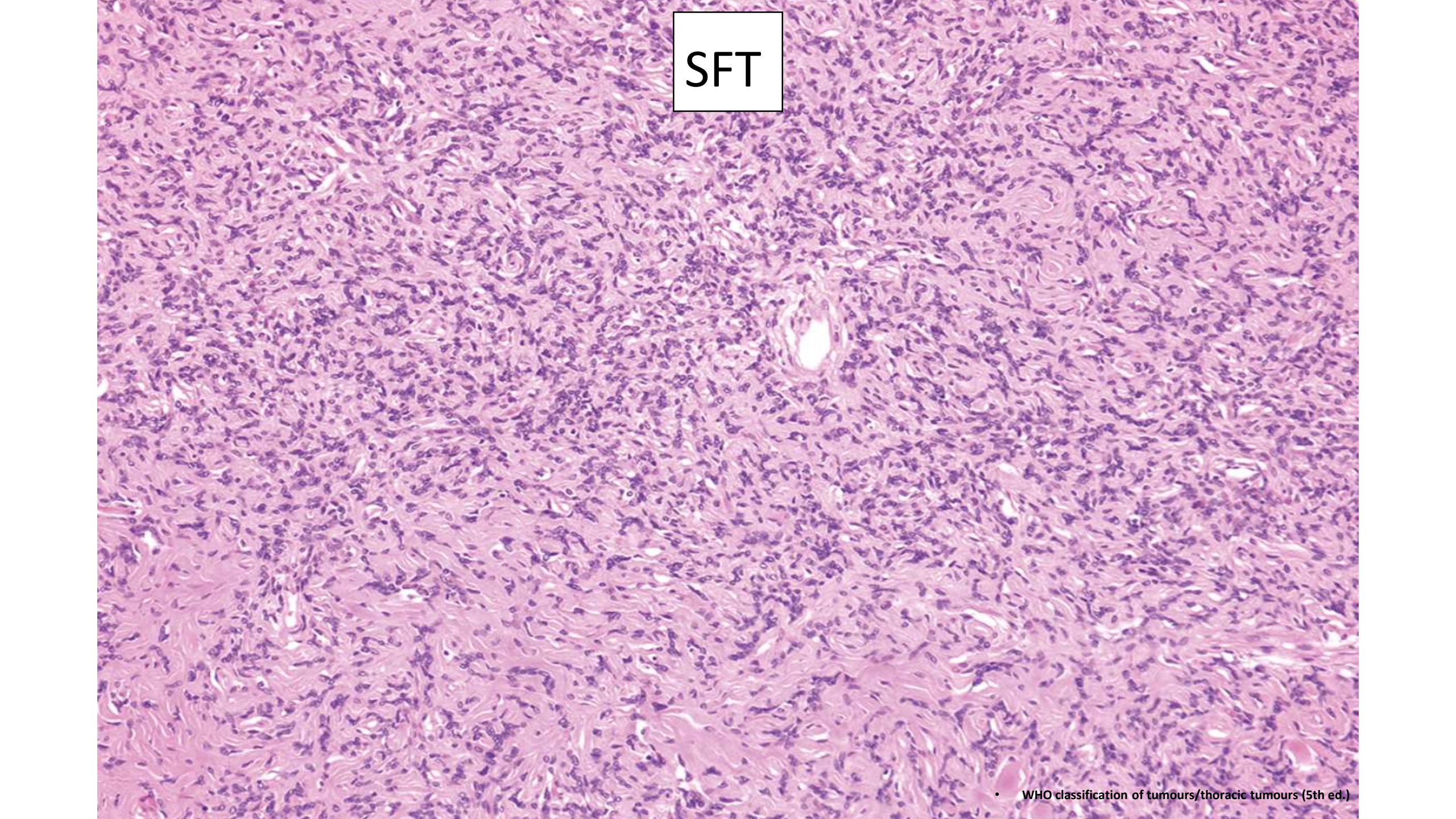


B



případ č.1

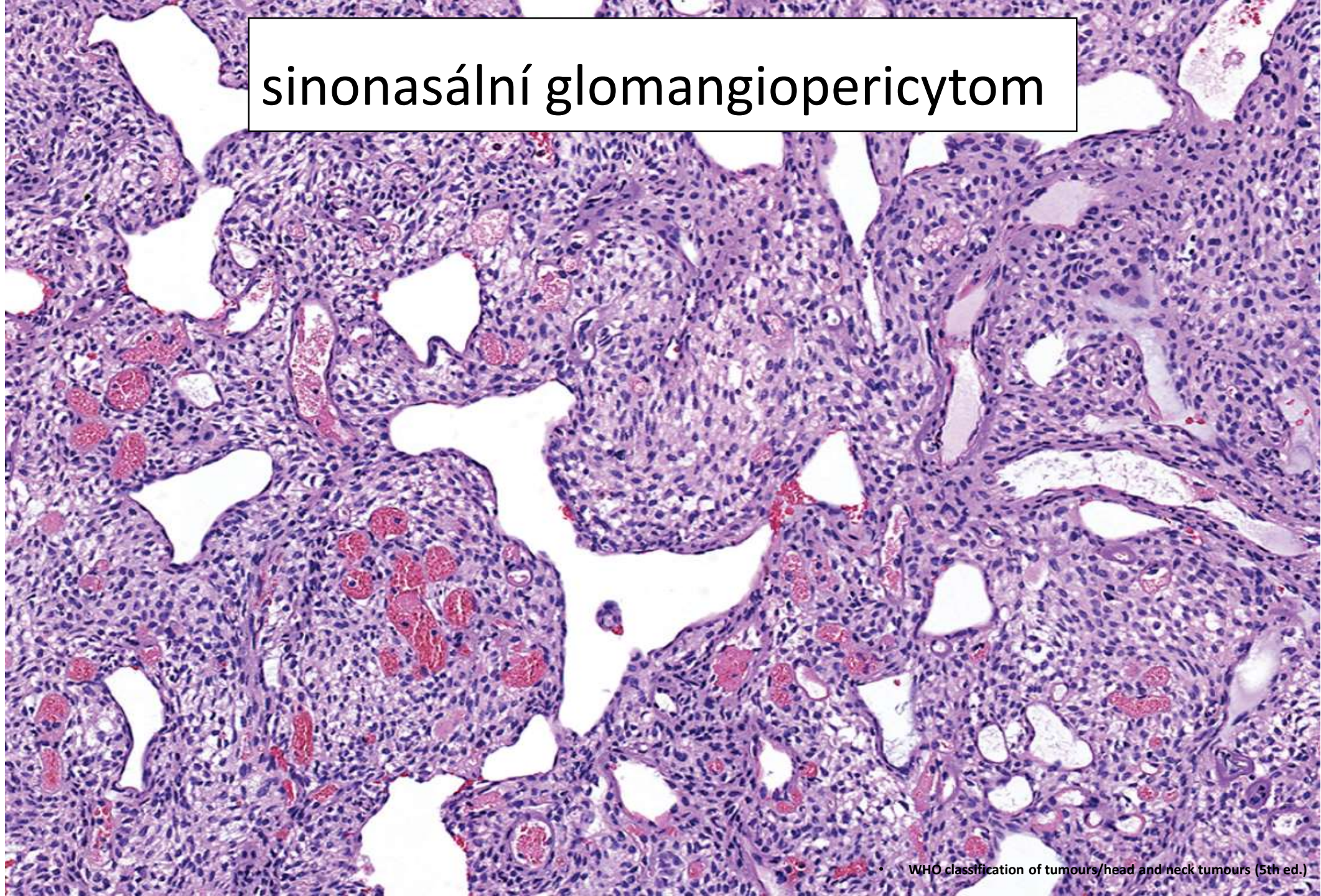
Dif Dg



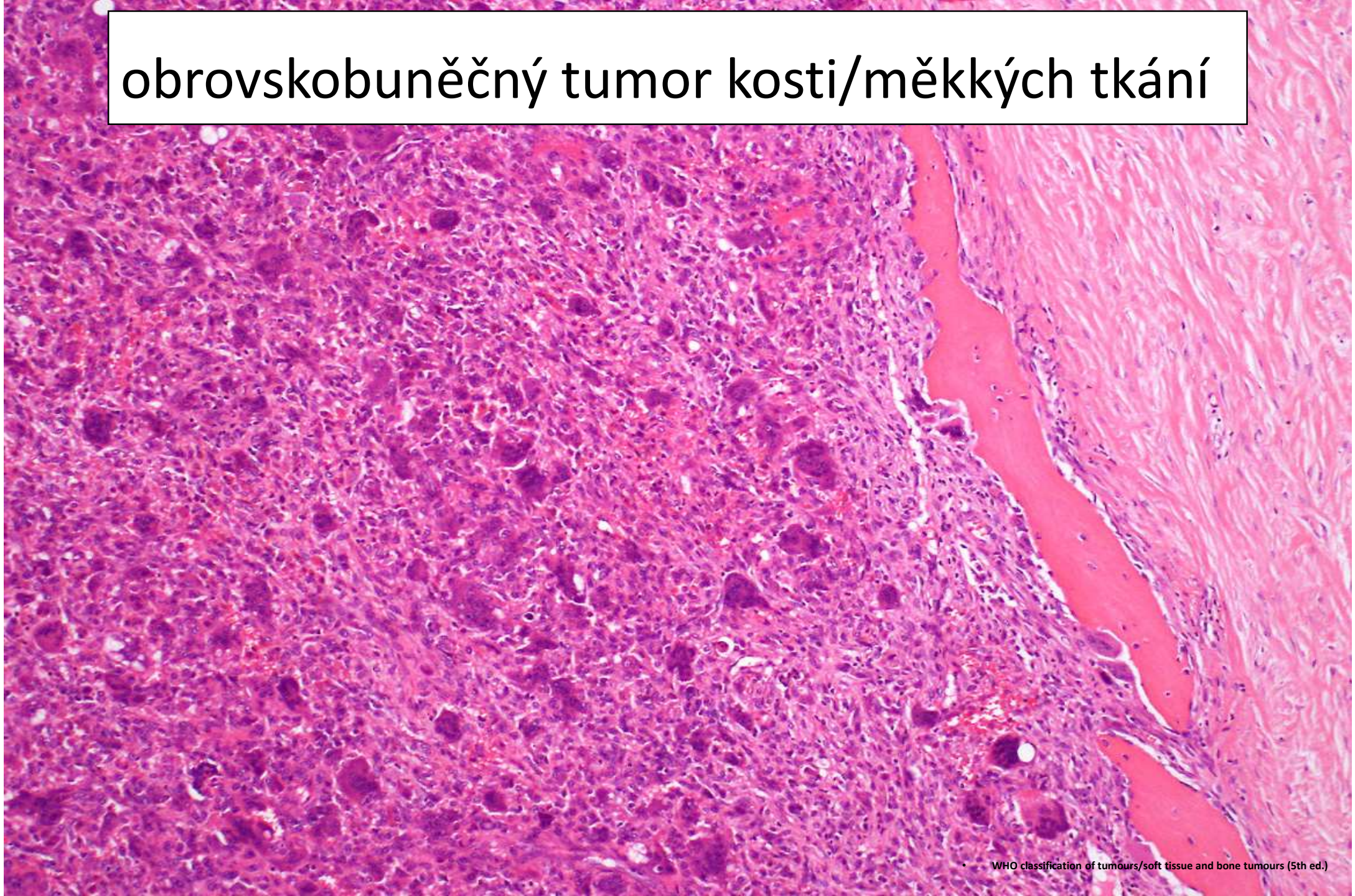
SFT

A histological slide of a Solitary Fibrous Tumor (SFT) stained with hematoxylin and eosin (H&E). The image shows a dense population of spindle-shaped cells arranged in a characteristic fascicular pattern, with alternating areas of high cellularity and pale, collagenous stroma. A small, well-defined, eosinophilic structure, possibly a blood vessel or a cyst, is visible in the center of the field.

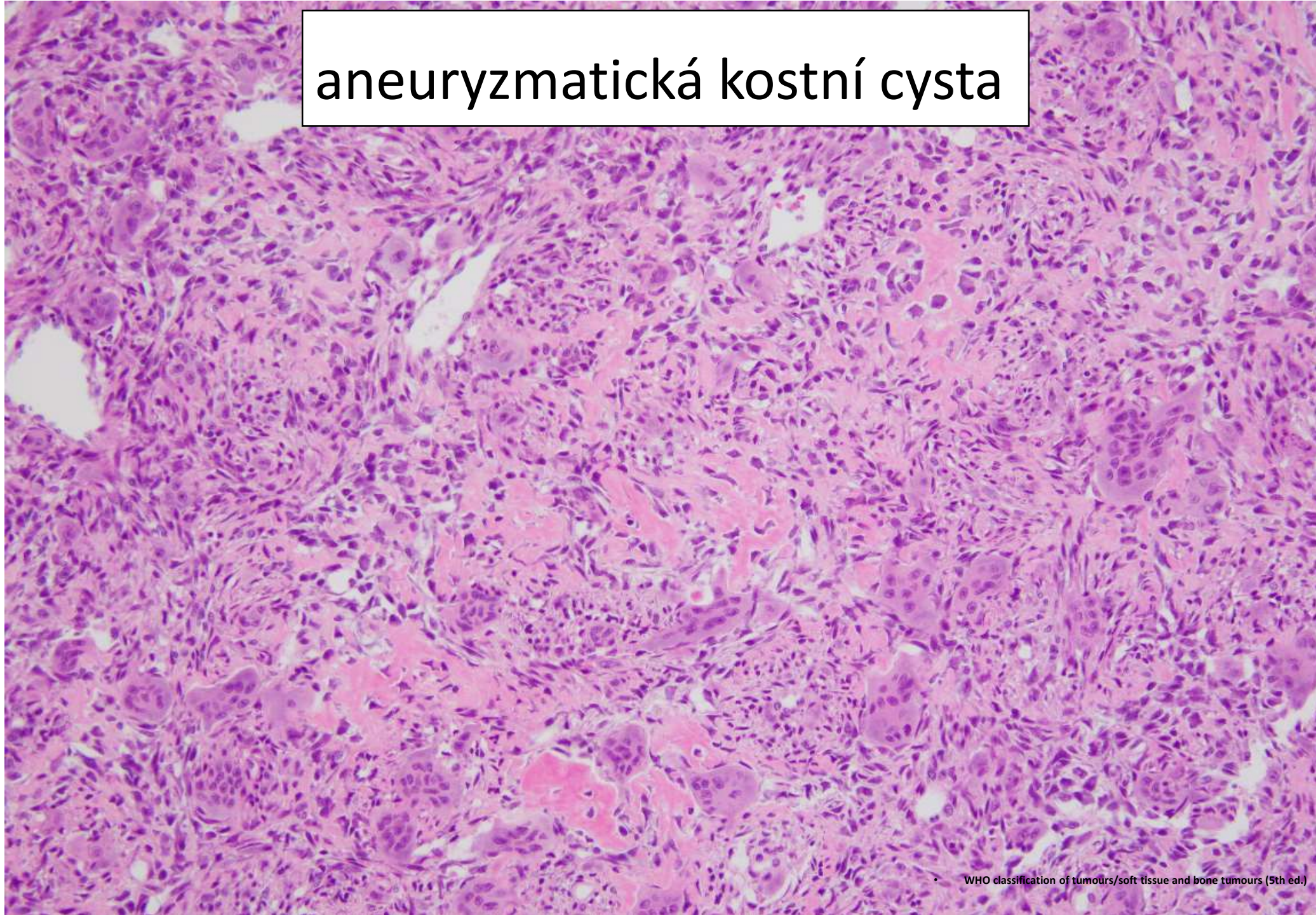
sinonasální glomangiopericytom



obrovskobuněčný tumor kosti/měkkých tkání



aneurysmatická kostní cysta



případ č.1

Dif Dg

- sinonasální glomangiopericytom
- sinonasální angiofibrom
- obrovskobuněčný tenosinoviální tumor (chondroidní)
- neosifikující fibrom
- chondromyxoidní fibrom
- chondrom měkkých částí
- mezenchymální chondrosarkom
- osteosarkom
- osteoblastom
- vřetenobuněčný lipom
- hemangiom/vaskulární malformace
- AML, NET, GIST