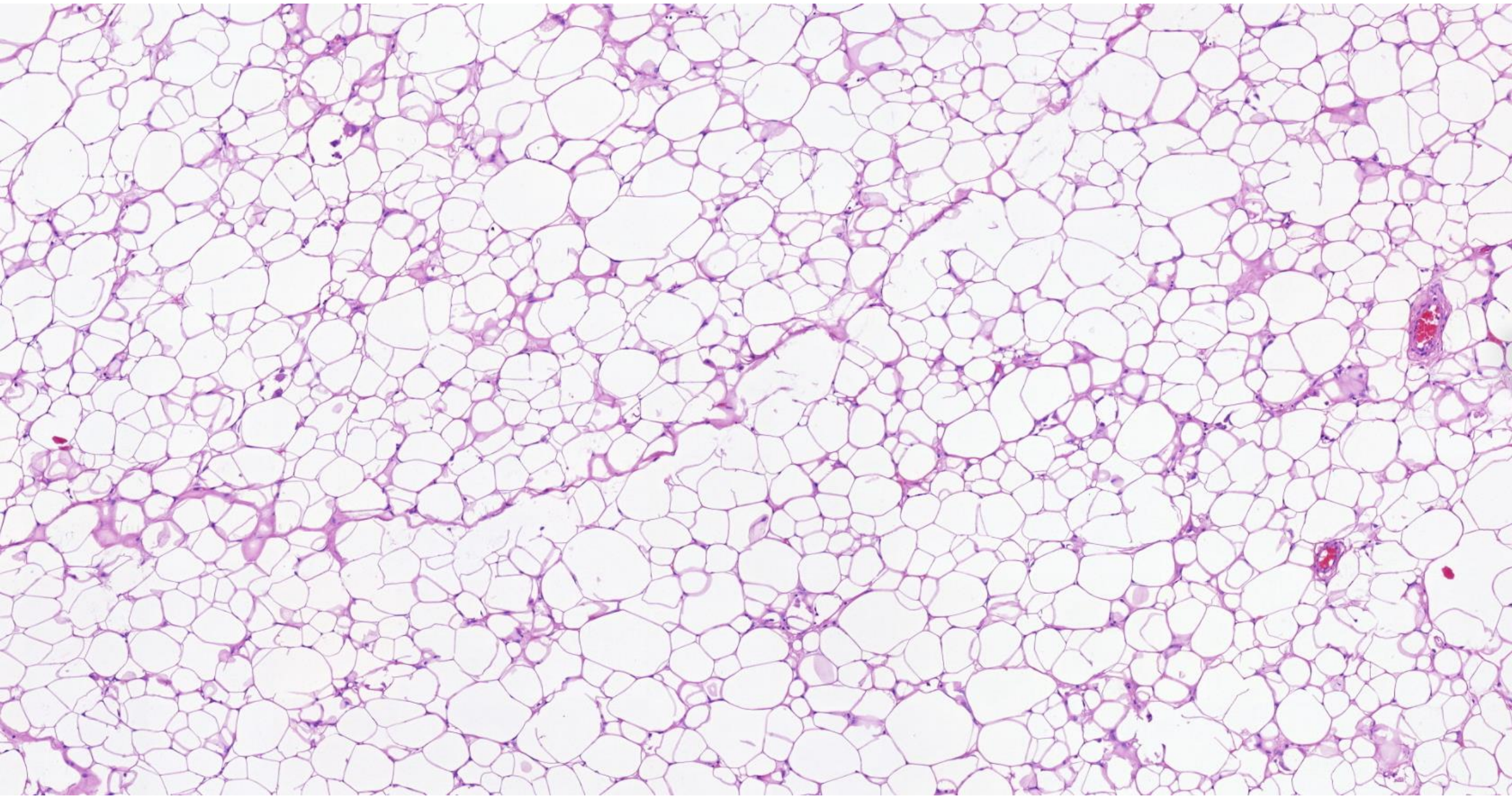


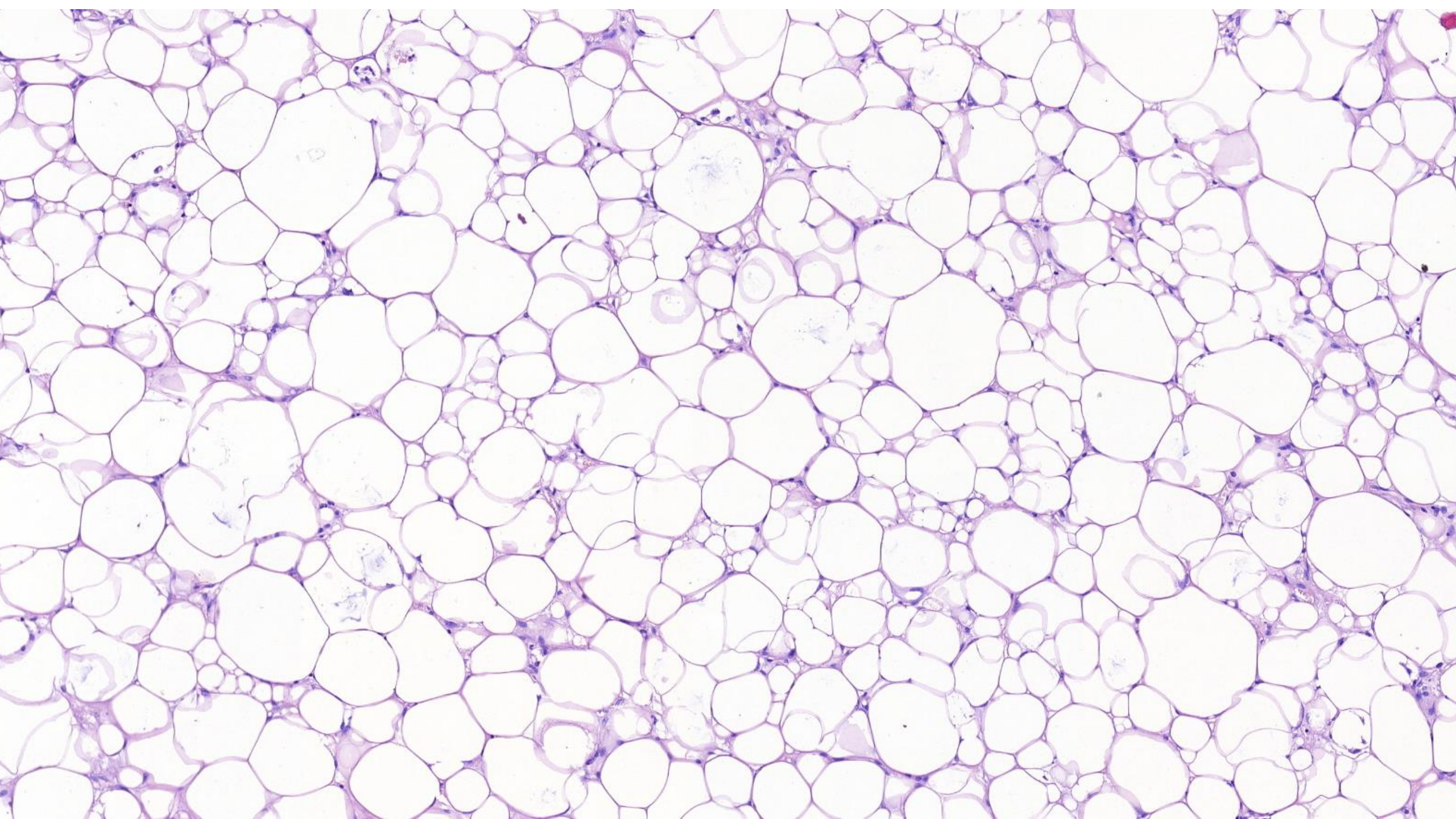
# Skříčkový seminář SD-IAP

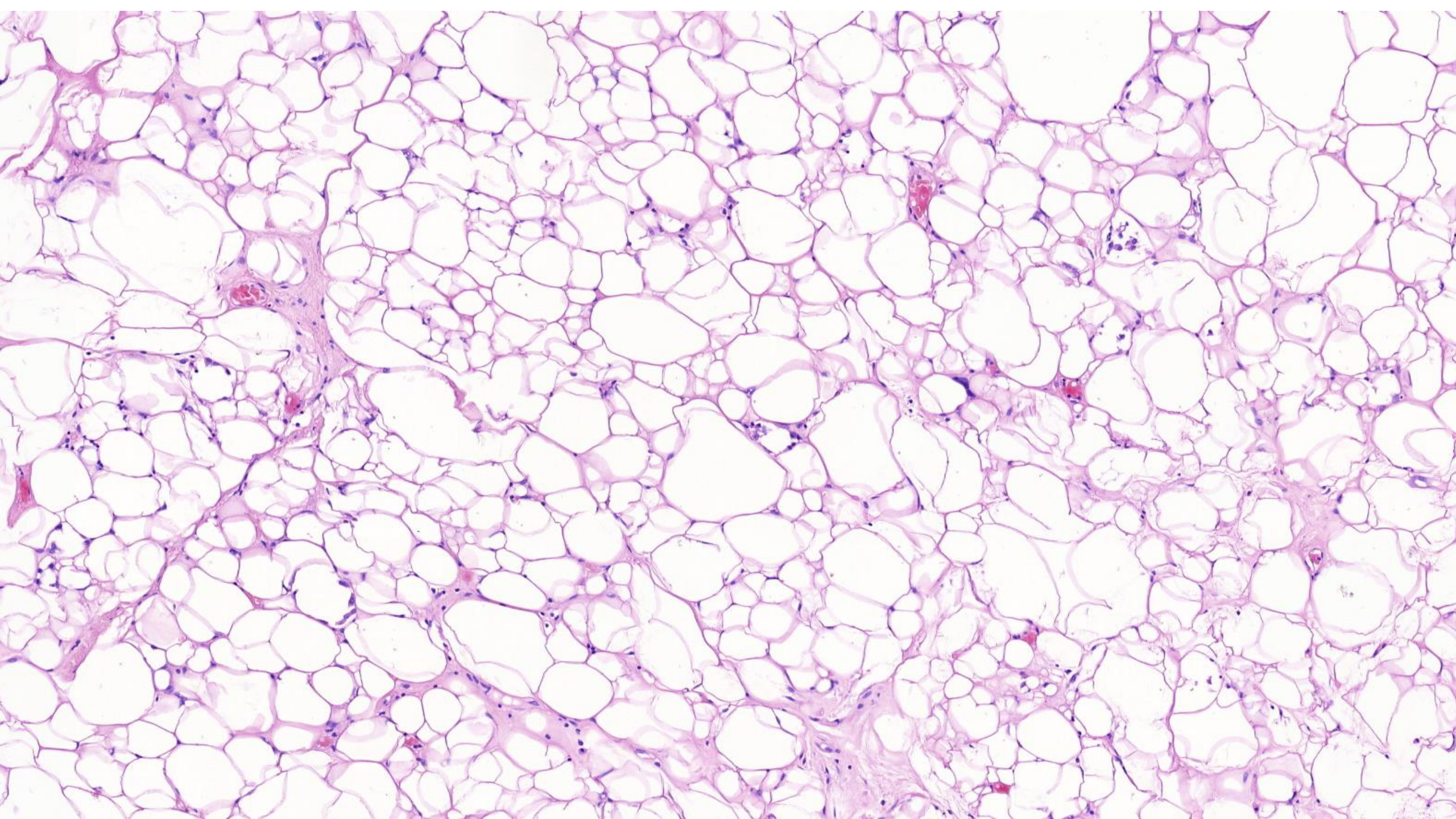


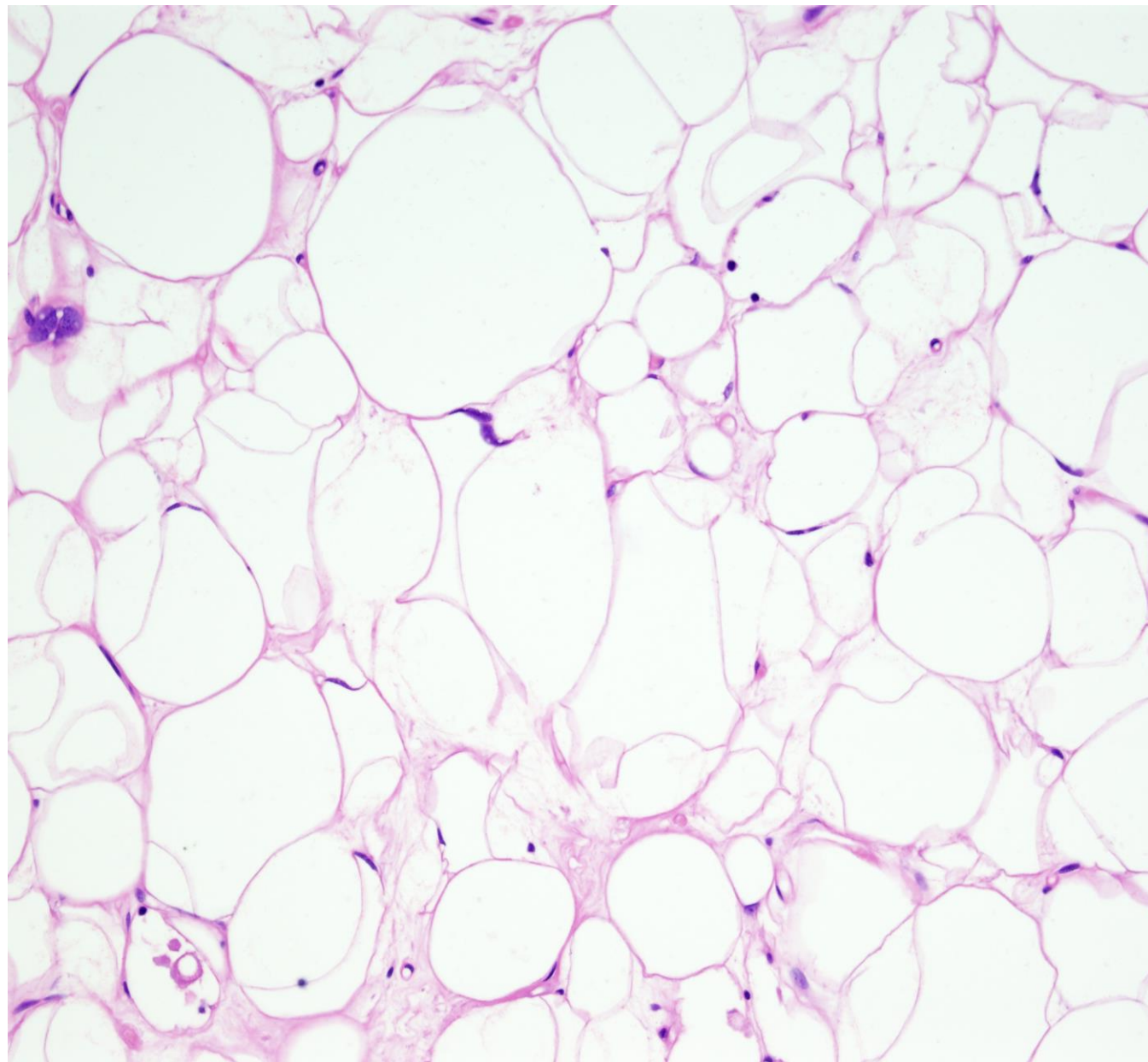
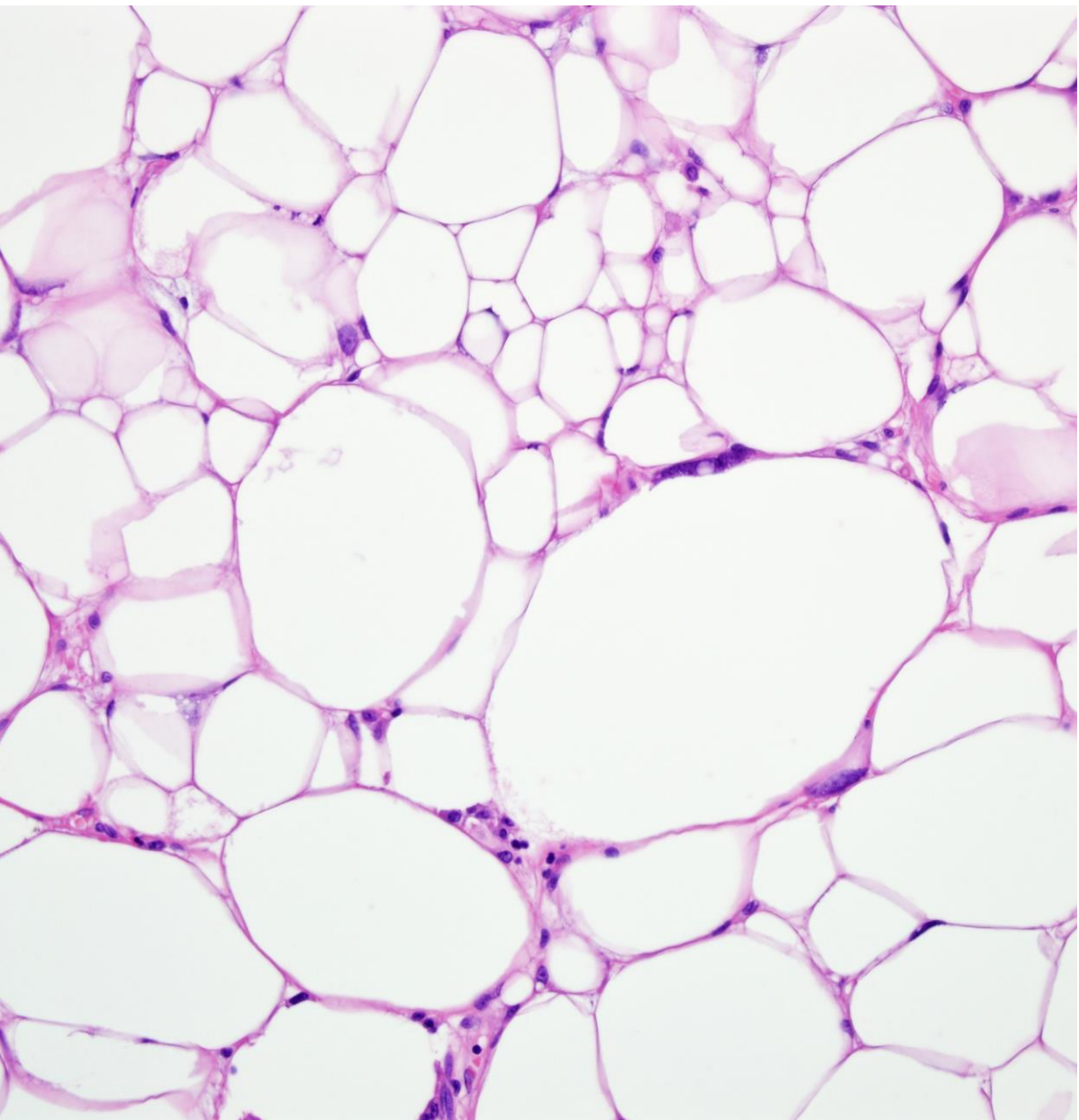
MUDr. Michael Michal  
Šiklův ústav patologie Plzeň  
Bioptická laboratoř s.r.o. Plzeň

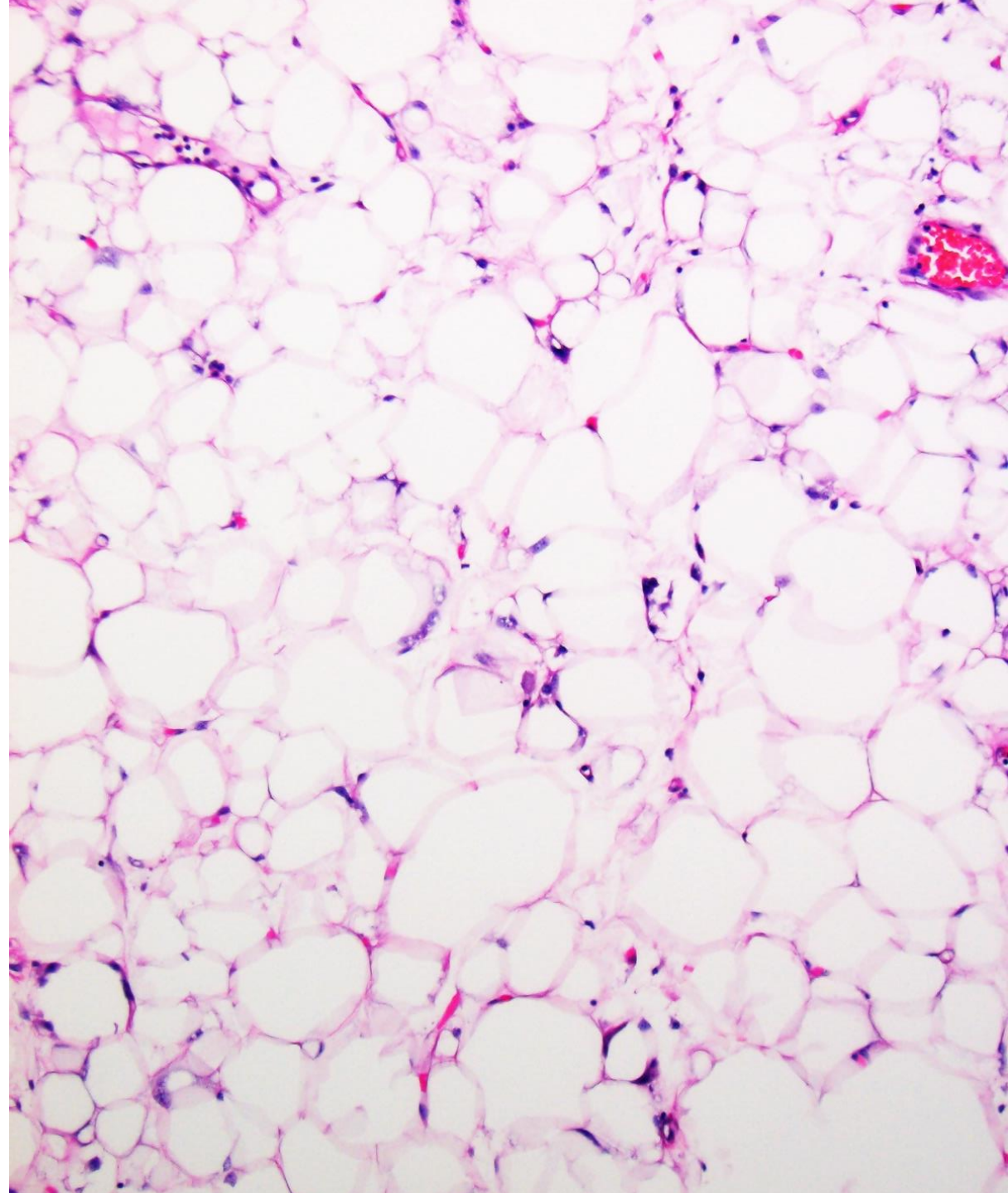
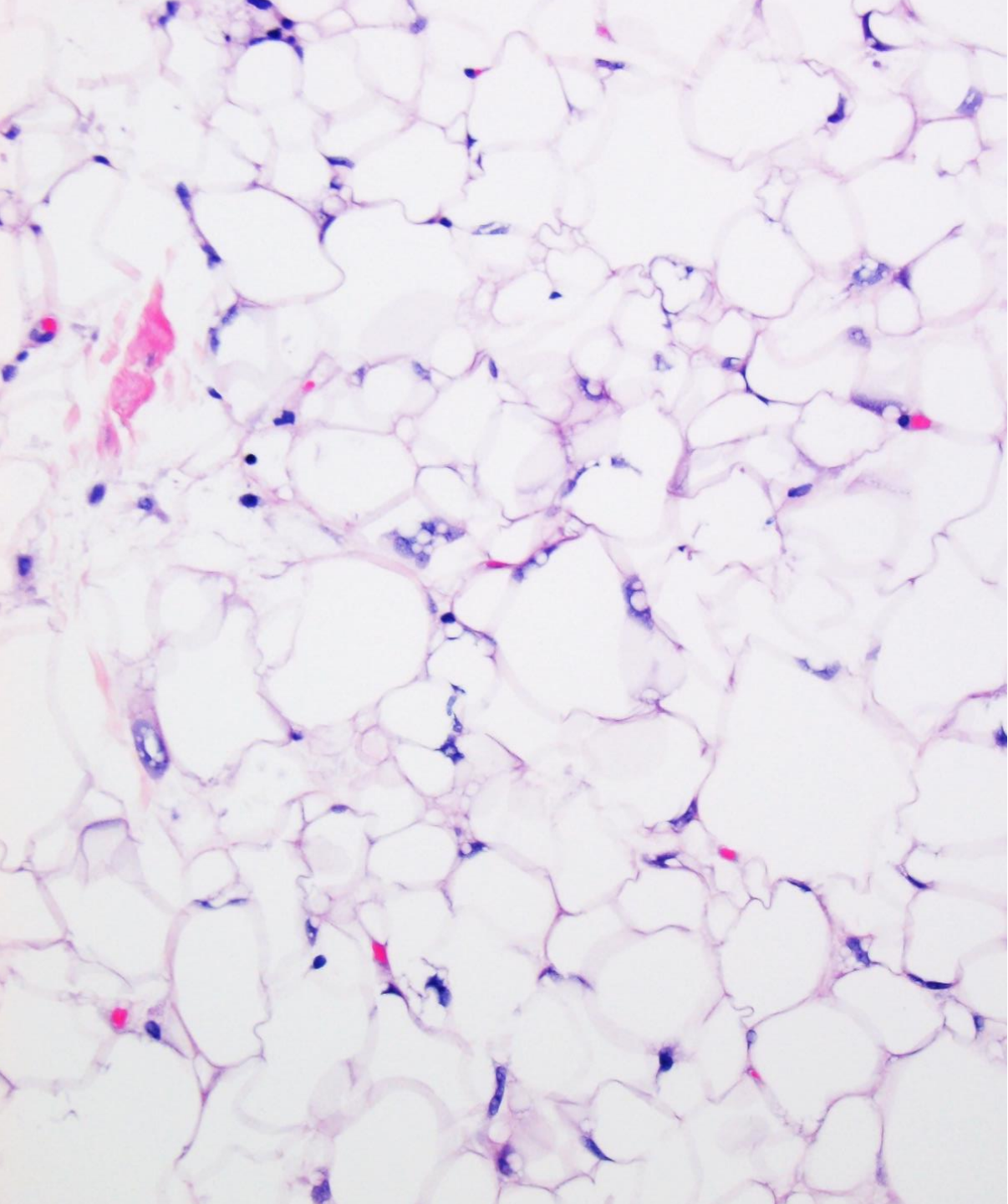


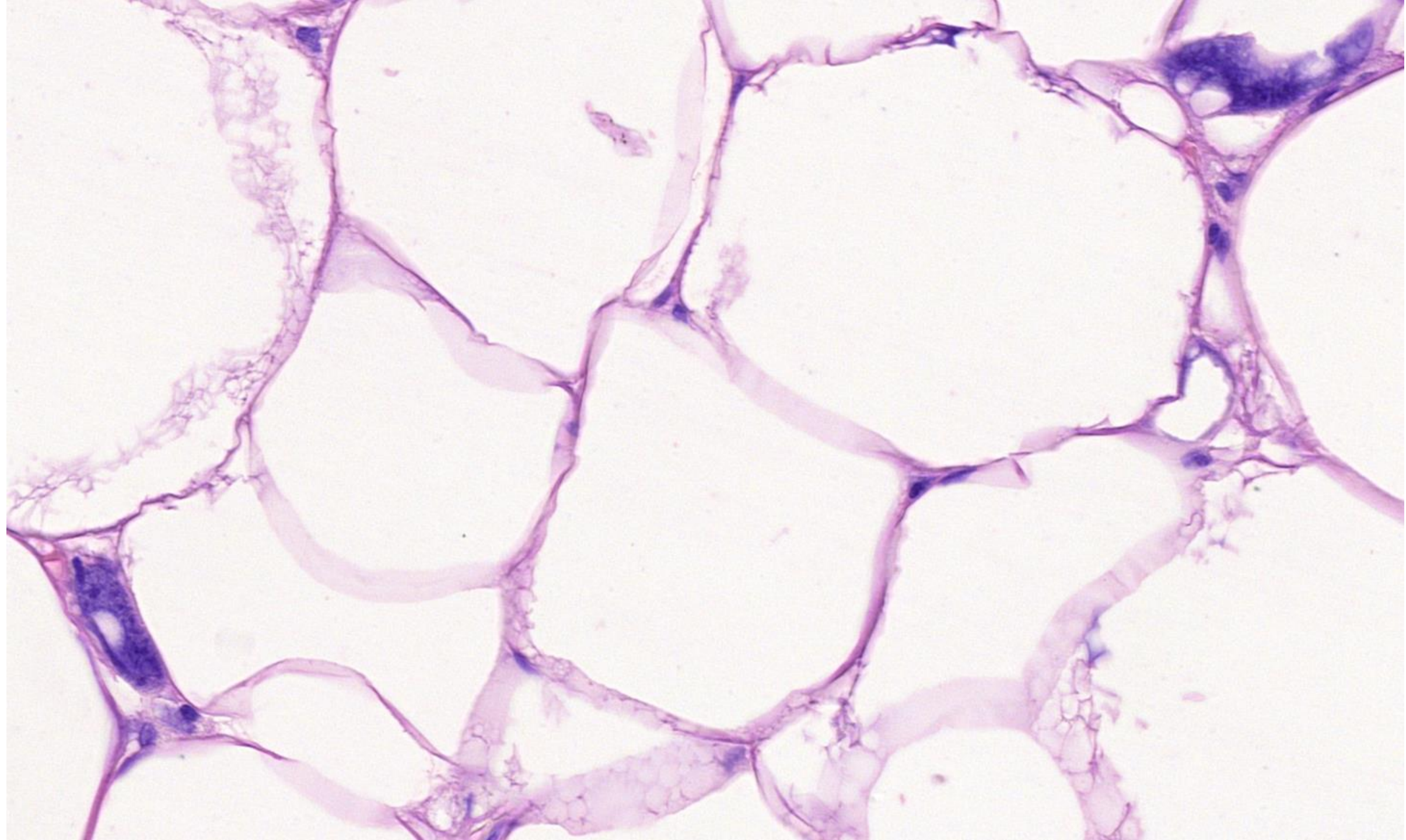


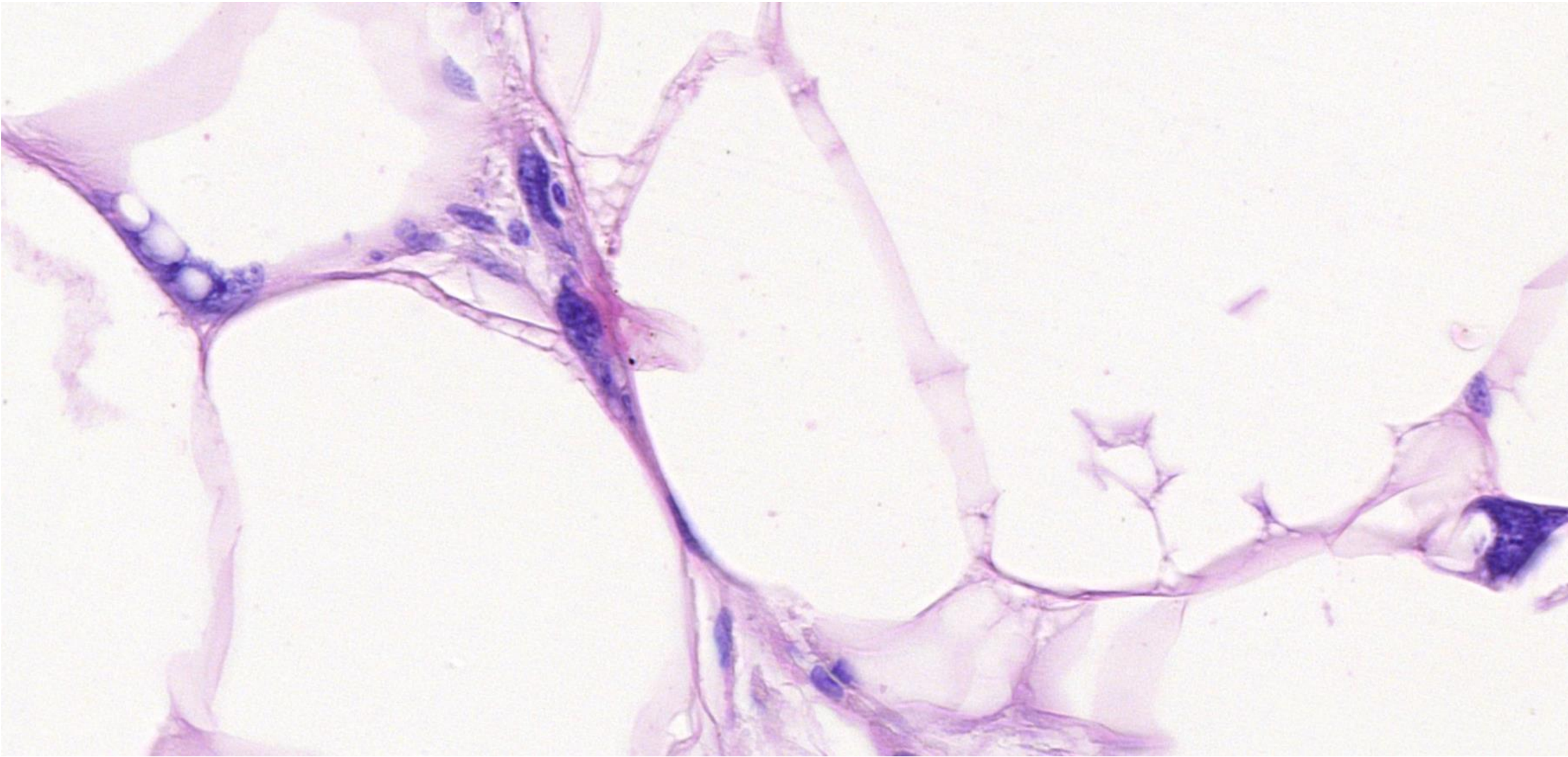




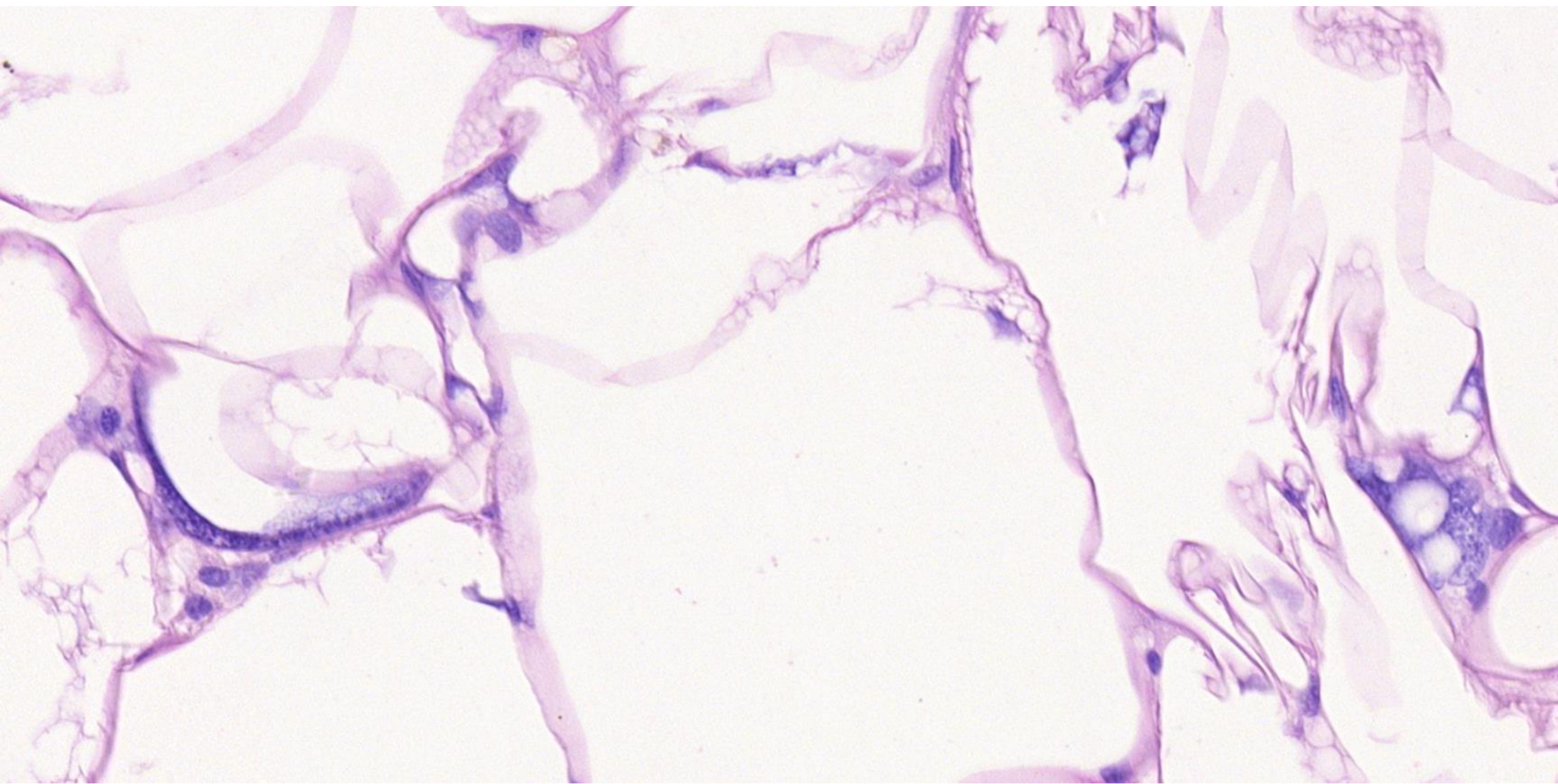












Diagnóza??

Dg: Anisometrický lipom

# Anisometric Cell Lipoma: A Predominantly Subcutaneous Fatty Tumor With Notable Variation in Fat Cell Size But Not More Than Slight Nuclear Enlargement and Atypia

*Harry L. Evans, MD*

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**Abstract:** Having repeatedly encountered at least predominantly subcutaneous lipomatous tumors displaying significant variation in fat cell size but only equivocal to slight nuclear atypia among consultation cases and having been unsure about their appropriate classification and their behavior, I decided to carry out a review. To this end, consultation cases in our files that were originally submitted before 2008 and were described in their reports as showing these features were retrieved. Criteria for includ-

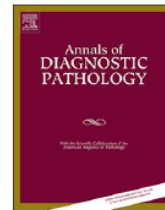
with equivocal to minor nuclear atypia, and appreciable but relatively low rate of local recurrence. The name “anisometric cell lipoma” is suggested for them.

**Key Words:** anisometric cell lipoma, atypical lipomatous tumor, retinoblastoma

*(AJSP: Reviews & Reports 2016;21: 195–199)*

**13 případů dobře diferencovaných podkožních lipomatózních tumorů s minimálními atypiami, 12/13 muži, ramena, krk**

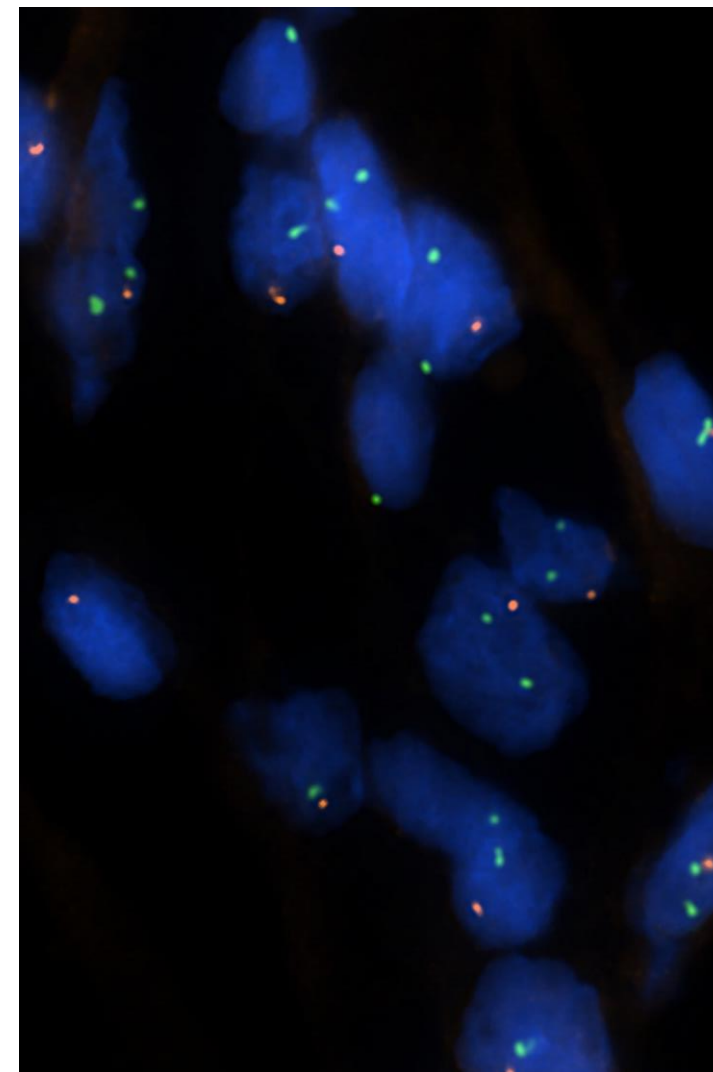
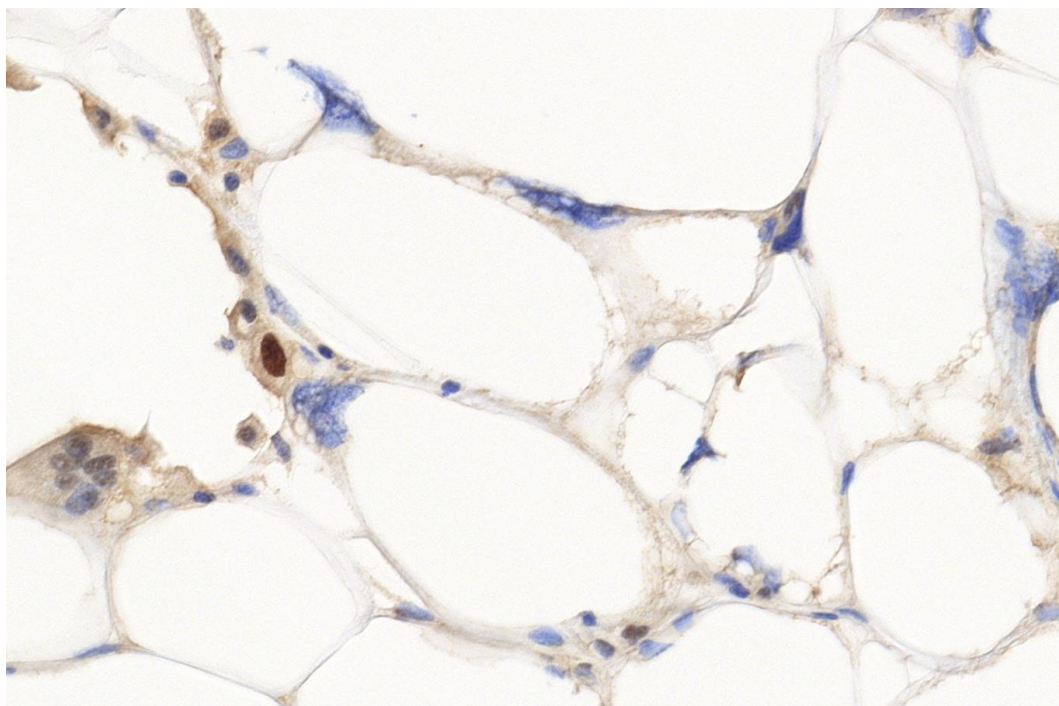
- 3/13 recidivy (vždy follow-up více než 10 let)
- 1/13 s anamnézou retinoblastomu oka



Anisometric cell lipoma: Insight from a case series and review of the literature on adipocytic neoplasms in survivors of retinoblastoma suggest a role for RB1 loss and possible relationship to fat-predominant (“fat-only”) spindle cell lipoma

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- MDM2 FISH negativní v 6/6 případů
- Retinoblastoma IHC – ztráta exprese ve všech případech
- FISH – delece *RB1* genu ve 4/5 případů

**Dysplastic lipoma: a distinctive atypical lipomatous neoplasm with anisocytosis, focal nuclear atypia, p53 overexpression and a lack of MDM2 gene amplification by FISH. A report of 66 cases demonstrating occasional multifocality and a rare association with retinoblastoma.**

Running head: Dysplastic Lipoma

**Michael Michal<sup>1,2,3</sup>; Abbas Agaimy<sup>4</sup>; Alejandro Luina Contreras<sup>5</sup>; Marian Svajdler<sup>1,3</sup>; Dmitry V. Kazakov<sup>1,3</sup>; Petr Steiner<sup>1,3</sup>; Petr Grossmann<sup>1,3</sup>; Petr Martinek<sup>1,3</sup>; Ladislav Hadravsky<sup>6</sup>; Kvetoslava Michalova<sup>1,3</sup>; Peter Svajdler<sup>7</sup>; Zoltan Szep<sup>8</sup>; Michal Michal<sup>1,3</sup>; John F. Fetsch<sup>5</sup>**

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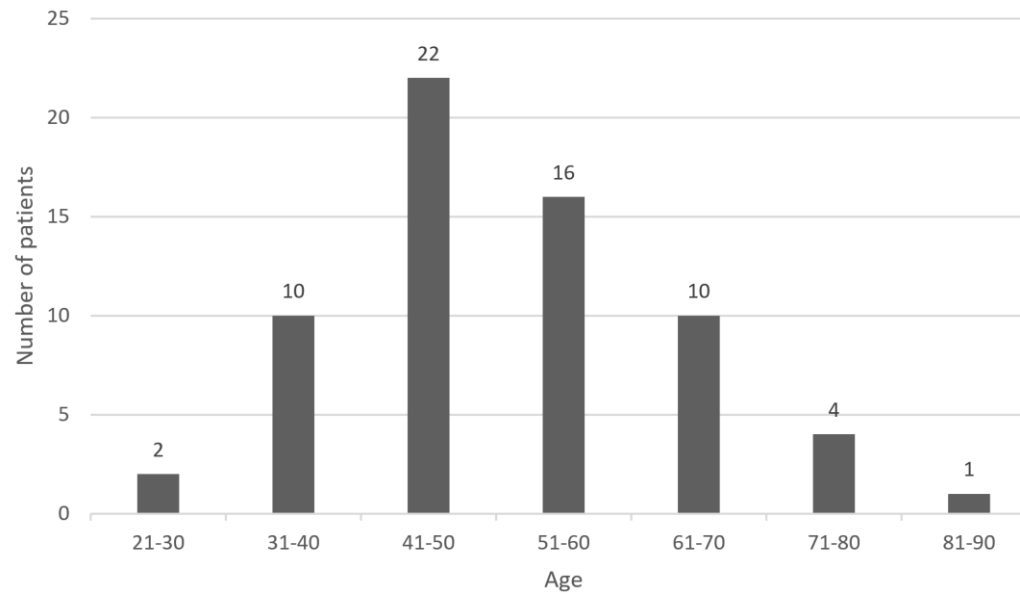
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<sup>8</sup>Cytopathos, Ltd., Bratislava, Slovakia

# Dysplastický lipom

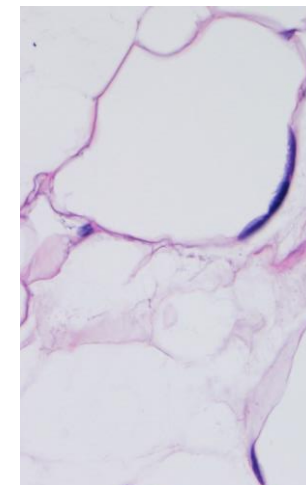
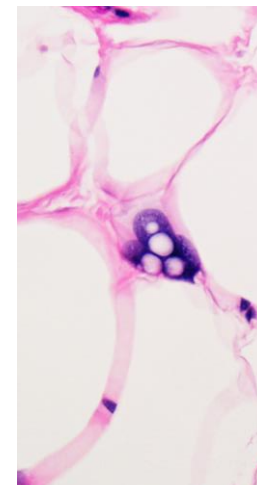
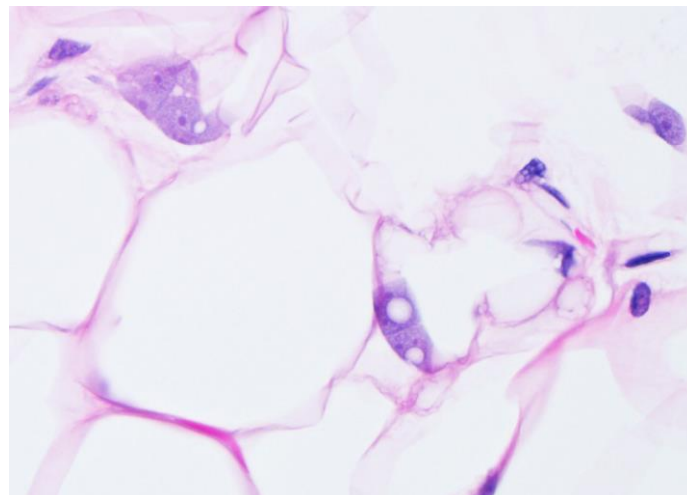
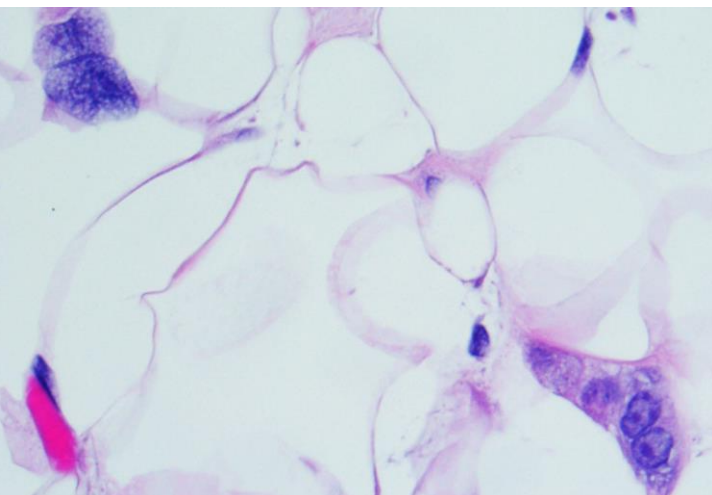
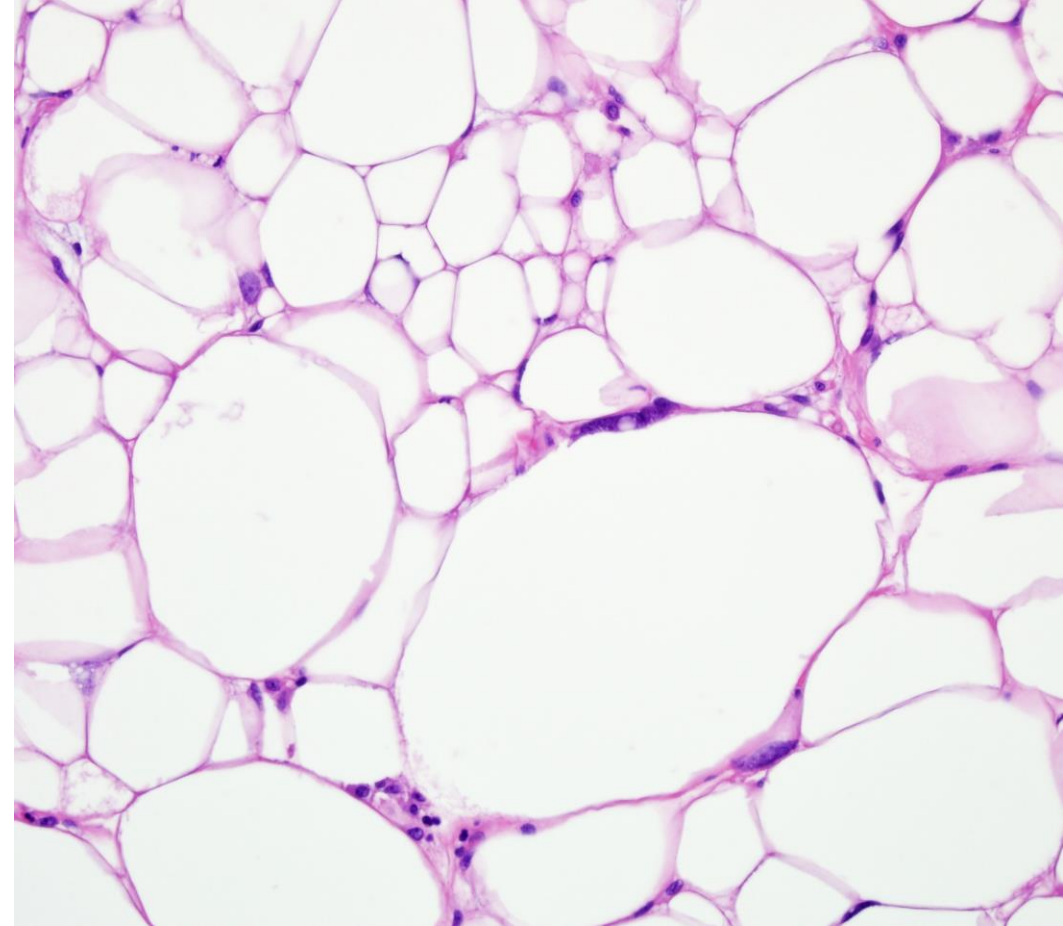
- Nová vznikající jednotka mezi lipomatózními tumory
- Nejčastěji diagnostikován jako **ALT nebo lipom s nekrózami**
- Muži středního věku: 57 mužů, 8 žen, 1 pacient bez informací
- 22-87 let, průměr 51 let
- **Oblast horních partií zad, zátylku, ramen**
- **Povrchově uložené**
- Velmi často **mnohočetné (19%)**
- **2/80** pacientů mají anamnézu **retinoblastomu oka**



Age	Location	Duration	Tumor size (cm)	Submitting diagnosis	Multiple sites	
1	42/M	Chest	NA	4.8x3.5x1.4	ALT	No
2	64/M	Posterior neck	Months	3.5x3.0x2.0	ALT	No
3	47/M	Back	Years	4.5x2.7x1.3	ALT	No
4	44/M	R scapula	NA	2.8x2.1x0.8	In-house	No
5	51/M	Under L scapula	NA	3x3x1	ALT	No
6	63/M	L shoulder	NA	5	Lipoma vs ALT	No
7	63/F	R shoulder	NA	9	ALT	No
8	48/M	Chest wall	2 yrs	8	Lipoma vs ALT	No
9	55/M	L shoulder, L upper arm	NA	4	Lipoma vs ALT	Yes
10	55/M	L upper arm	NA	6	ALT	No
11	66/M	R arm	Years	5 fragments: 13x8	Exclude ALT	No
12	71/F	Neck	NA	5.4 in diam	ALT	No
13	52/M	Inguinal area	4 yrs	5 and 2 in diam	ALT	No
14	43/M	Posterior neck	Years	2 in diam	ALT	No
15	63/M	Posterior neck	NA	4.5x4x2	ALT	Also had a classic lipoma cr
16	34/M	L arm	NA	2 samples: 5x3x3	ALT	No
17	74/M	L shoulder	Years	6x5x4	Lipoma with atypia	No
18	66/M	NA	NA	2 samples: each 1	ALT	No
19	56/M	Chest	NA	4x2x1.5	In-house	No
20	NA	NA	NA	3.5x1.5x2	Lipoma vs ALT	No
21	48/M	L shoulder	NA	5.5x4.5x2	In-house	No
22	67/F	Right upper arm	NA	7	ALT	No
23	54/M	Neck, trunk, upper arm, bilateral scrotal area	NA	-9	NA	Multiple DL, excisions since t
24	43/M	Posterior neck	NA	NA	NA	No
25	43/M	Posterior neck	NA	4.5	Lipoma vs ALT	No
26	49/M	Posterior neck	NA	2.5	In-house	No
27	69/F	Shoulder left	NA	10	In-house	No
28	72/M	Chest wall right	NA	9	Lipoma vs ALT	No
29	63/F	Right upper arm	NA	>6	ALT	No
30	80/M	Back	NA	14	Spindle cell lipoma	No
31	60/M	Occipital	NA	6	Regressive lipoma vs ALT	No
32	58/M	Neck	NA	7	Regressive lipoma vs ALT	No
33	50/M	Posterior neck	NA	NA	ALT	No
34	47/F	Back	NA	1.7	ALT	No
35	63/M	Posterior mid neck C7-T1 SC 5mo	NA	5.2	Bening fibroadipose tissue with areas of fat necrosis	NA
36	62/F	R shoulder/back	7 months	7.5 cm	Adipocytic proliferation with rare atypical cells	Other lipomatous tumor - not reviewed
37	49/M	R hip-L upper arm	at least 11 mo	5x4.3x1.8	ALT	Yes
38	36/M	R posterior neck	6 mo	6.4x5.8x1.2	aggre Adipose tissue with focal atypia	NA
39	38/M	R chest wall	8 mo	4.6x2.2x1.1 and 2	atypia, favor ALT	NA
40	60/M	R upper chest	1 yr	3.2x2.8x1.6	ALT	NA
41	39/M	R upper back	8 mo	0.2 to 0.8 (8)men	Spindle cell lipoma	NA
42	67/F	R back interscapular	5 yrs	4.5x2.8x1.4	Lipomatous tumor with atypical features	No
43	45/M	R back over scapula	12 months	4.8x4x2.2	Lipomatous neoplasm, ALT?	neck (4.5x3.2x2.5 cm) not reviewed
44	41/M	L scapula	approx 6 mo	6	Lipoma with atypical features	No
45	28/M	L posterior shoulder	Unknown	4x2.2x1.5	Lipomatous neoplasm: ALT?, lipoblastoma or pleomorphic lipoma?	Other lipomatous tumor - right side 5 yrs prior, not reviewed
46	37/M	R neck	Unknown, at least 28 mo.	4.2x3.8x2.6	aggre Lipoma with mild atypia	No
47	38/M	L shoulder	Unknown, several years	3x2.7x2	ALT	No
48	46/M	L shoulder	4 yrs	3.7x2x1.9	Fibrolipoma with mild atypia	No
49	36/M	Under chin	1.5 yrs	2.4x1.3x0.7	Lipomatous proliferation with atypical features	No
50	53/M	Posterior neck	5 yrs	10x7x3.3 and 2.5x	Pleomorphic lipoma	No
51	53/M	R neck	14 to 15 mo	3.5x2.7x1.5	Adipose tissue with variation in the size of the adipocytes and some atypical stroma cells, cannot rule out ALT	No
52	54/M	L posterior neck	Unknown, "many years"	3.2x2.4x1.1	Lipomatous neoplasm, ALT?	No
53	56/M	Back upper central T4	Several months	5x5x3	Adipocytic neoplasm - rule out ALT	NA
54	47/M	Upper back	NA	5x3x1.5 plus frag	Fibroadipose tissue with focal atypical features	NA
55	44/M	L shoulder	NA	4.5x4.1x2	Favor pleomorphic lipoma, cannot exclude ALT	NA
56	57/M	R shoulder	NA	3.3x3.1x1.8	Lipomatous tumor with focal atypia	NA
57	45/M	R scapula	NA	NA	Favor lipoma, cannot exclude ALT	NA
58	43/M	R neck anterior	2.5 yrs	4.5x4x3.5	Lipomatous lesion: lipoma vs ALT	NA
59	48/M	L shoulder	NA	4.4x3.5x1.5	mature adipocytic proliferation, favor ALT	NA
60	51/M	Neck	NA	2.4x2.1x0.9	Adipocytic neoplasm - considering ALT	NA
61	42/M	R shoulder	More than 4 yrs	7.5x7x3	ALT	NA
62	51/M	L inferior back	NA	6.2x3.6x2.6	Lipoma with mild atypia	2 other fatty tumors, superior back (6.6 cm) and left chest (3.4 cm) not reviewed
63	67/M	L anterior shoulder	NA	4x3.2x1	Adipose tissue showing changes of ALT	NA
64	43/M	Posterior neck/Back	NA	3.3x2.6x1.5/	Fibrovascular and mature adipose tissue, lipoma?	Lipomatous tumors 14yrs prior in bilateral biopsies; 7yrs prior in right forearm, Yes - 2 tumors reviewed by
65	70/M	R shoulder	NA	3.2x2.6x1.5	Lipomatous neoplasm	NA
66	53/M	R posterior neck base	NA	6.8x4.4x4.1	ALT	NA

# Dysplastický lipom

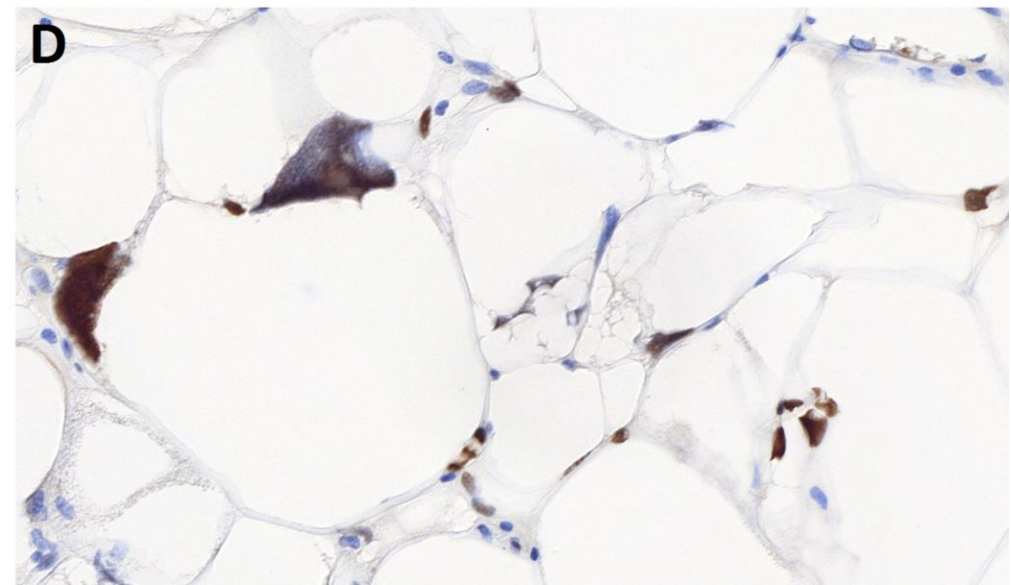
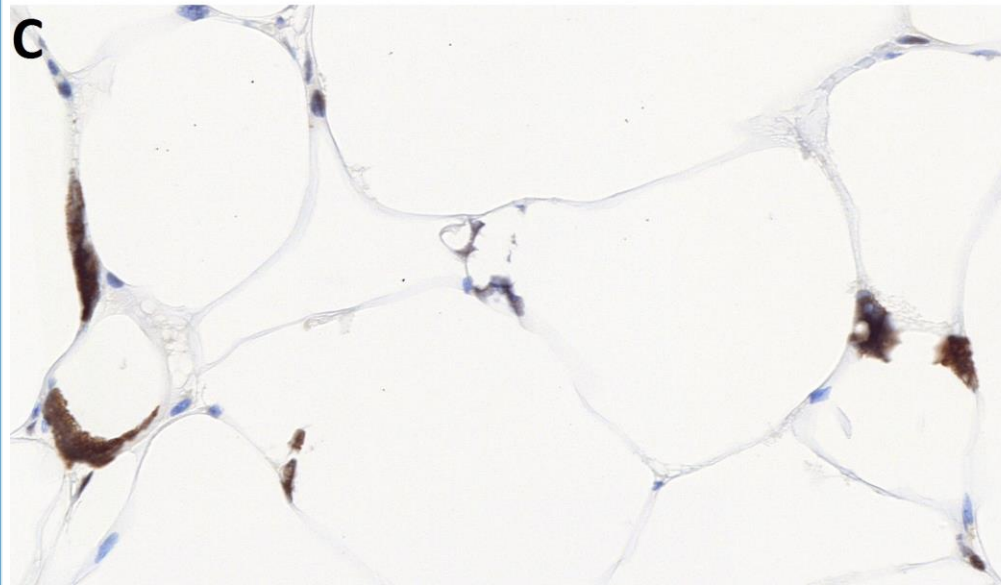
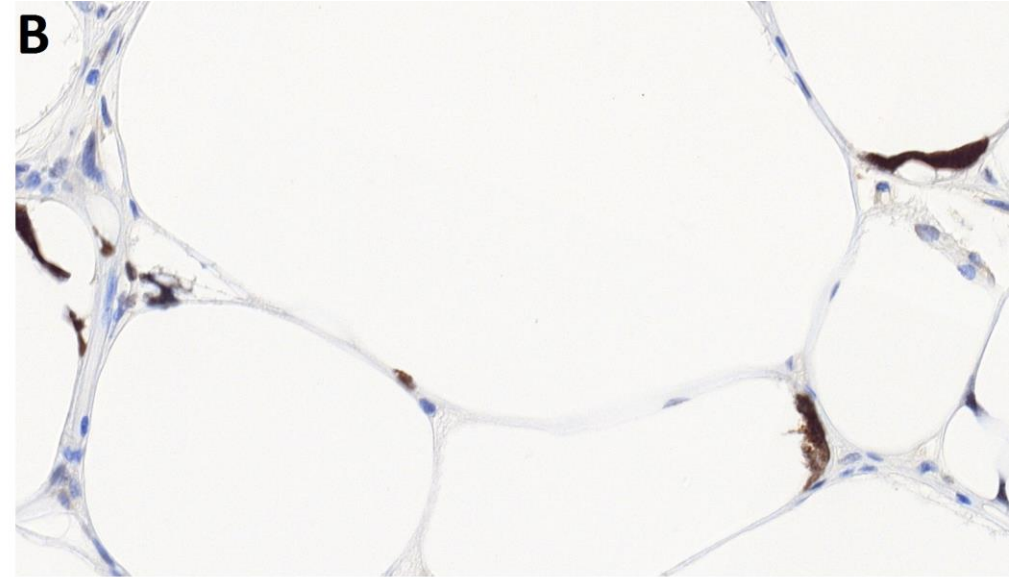
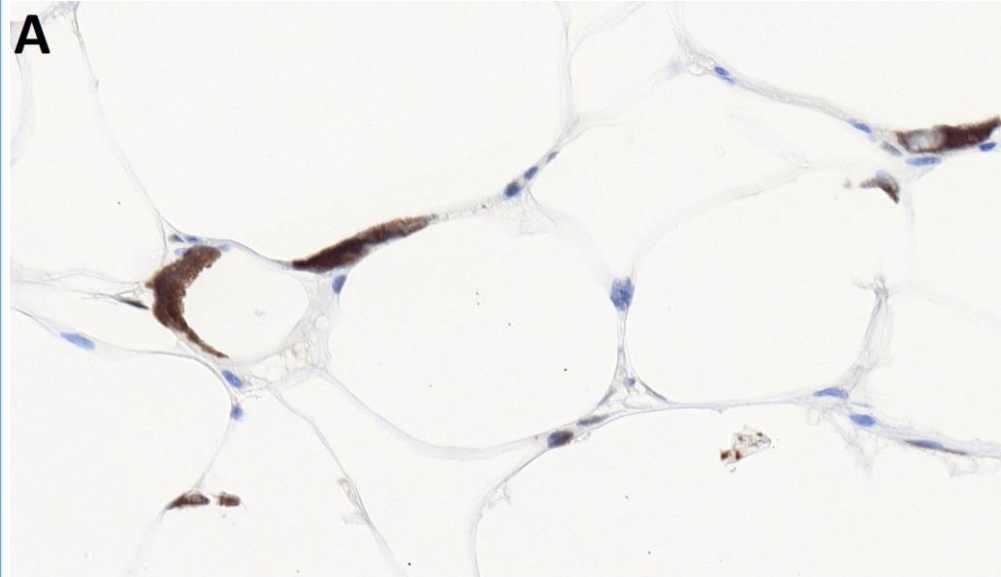
- Nápadná **variace velikosti** adipocytů
- Téměř kompletní **absence vřetenobuněčného** stromatu
- Mírné, ale difúzní a **jednoznačné atypie adipocytů**: zhrubění chromatinu, zvětšení jádra, mnohojadernost, lochkern změny, lipoblast(-like buňky)
- Část případů s výraznějšími atypiami – spektrum
- Nekrózy individuálních adipocytů – **větší okrsky nekroz chybí**
- Biologické chování není ještě zcela stanoveno, **cca 8% recidiv = někde mezi lipomem a ALT**
- Zatím žádný případ dediferenciace





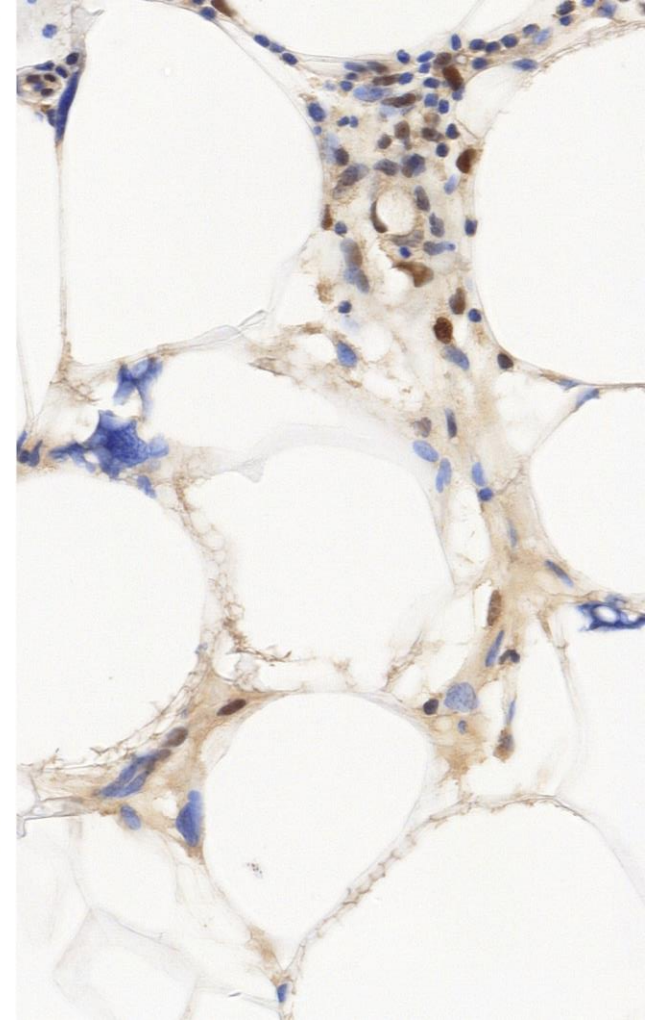
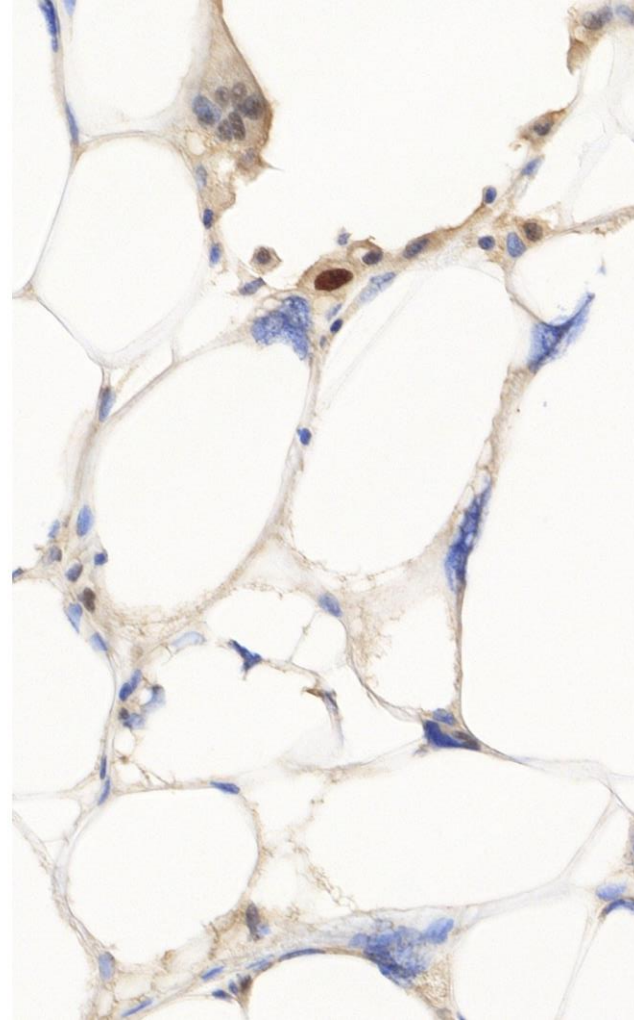
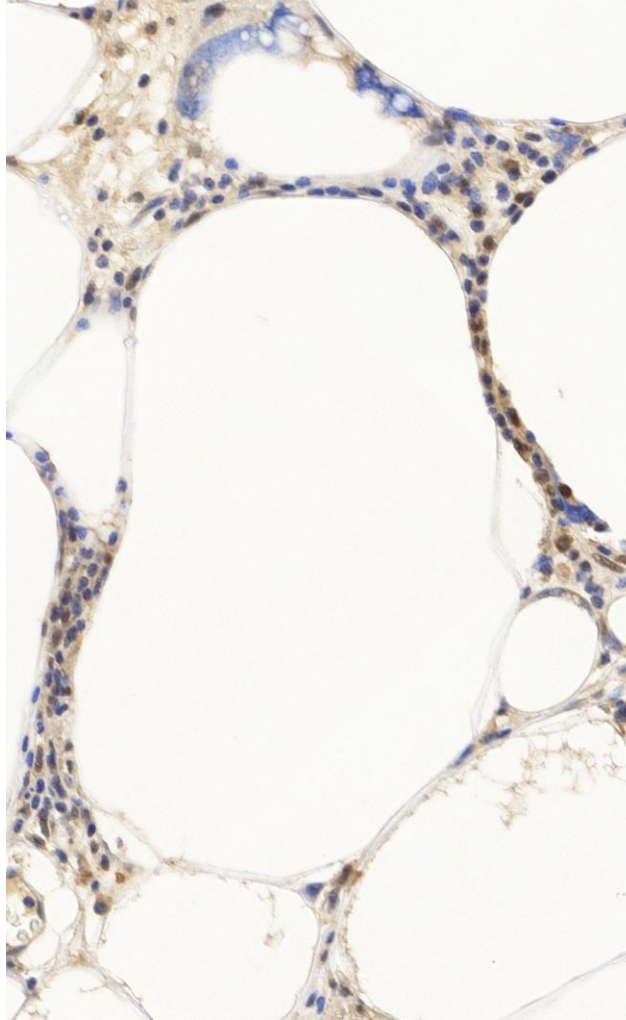
# p53

- p 53 exprese ve 100% případů
- 2-20% jader adipocytů
- TP53 mutace nebyla nalezena

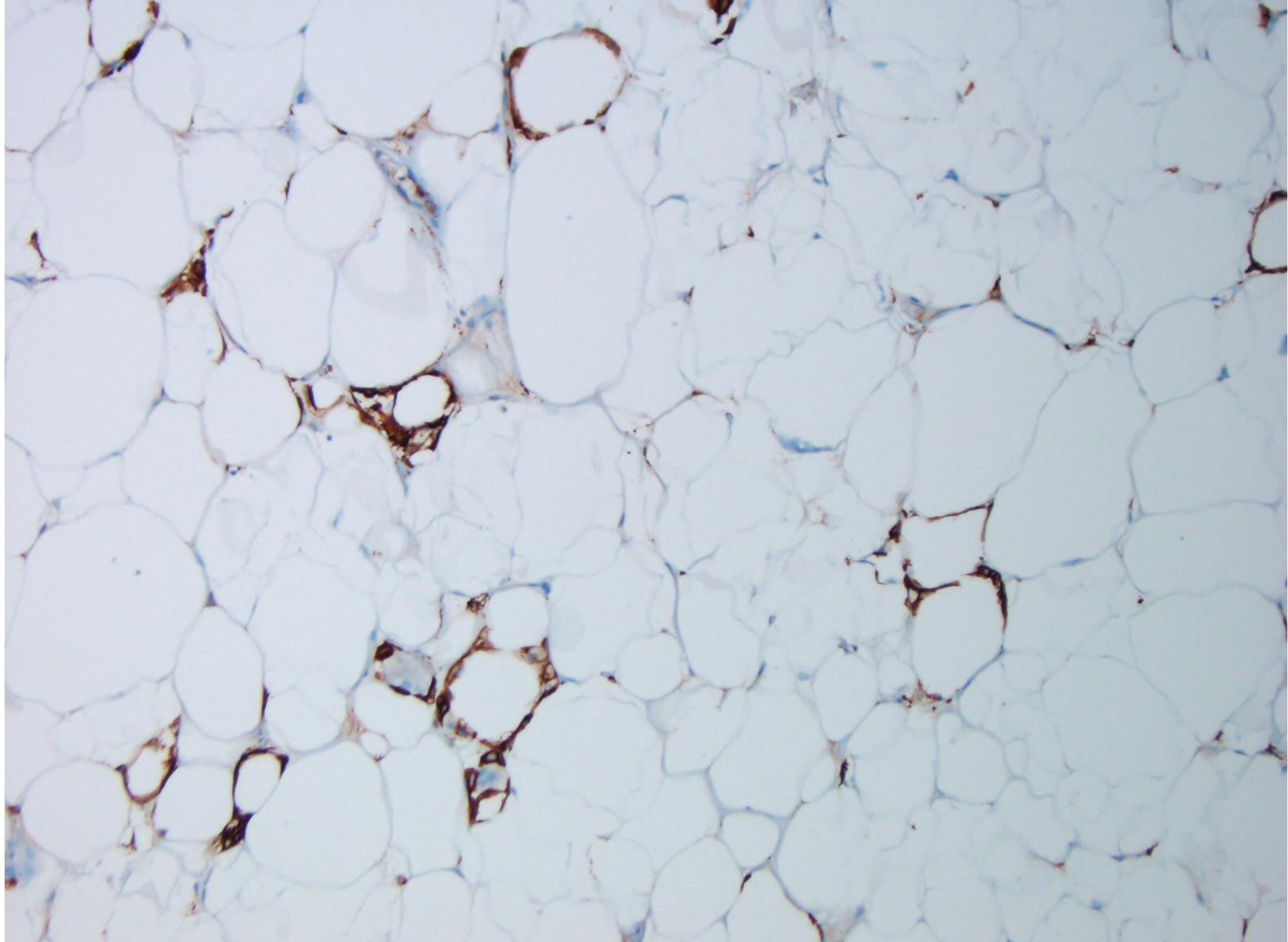


# RB protein

- **2/3** kompletní ztráta exprese
- 1/3 parciální ztráta exprese
- **FISH** potvrzená **delece** pouze v **3/13**, další **3** hraniční

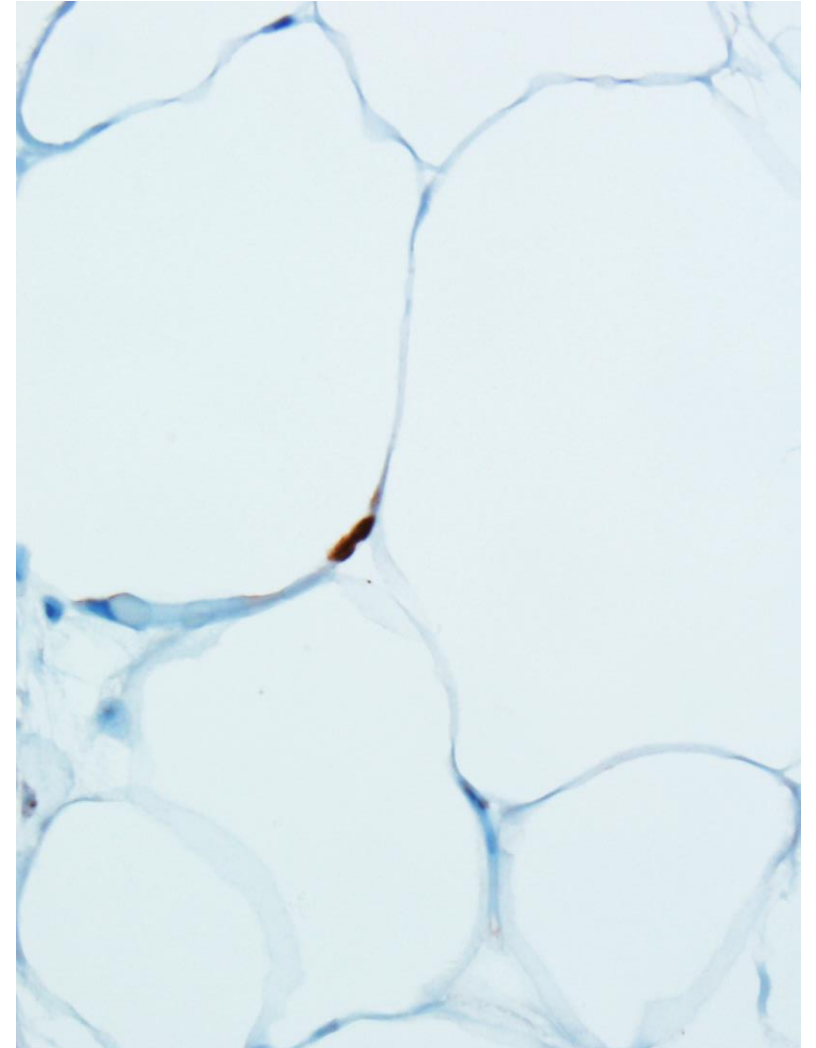
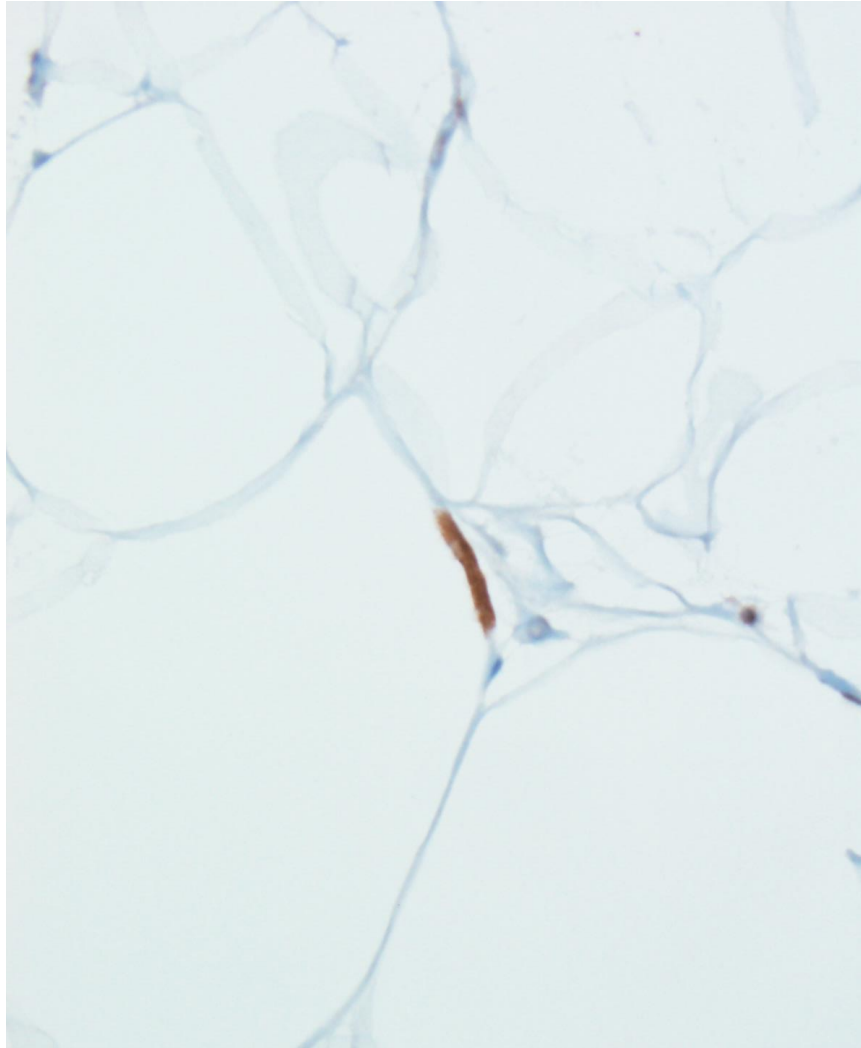


CD163



# MDM2

- 20/50 fokální exprese MDM2 proteinu většinou v méně než 1% buněk
- **MDM2 FISH negativní v 60/60 případech**
- NGS: 3 případy bez rekurentních mutací



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