

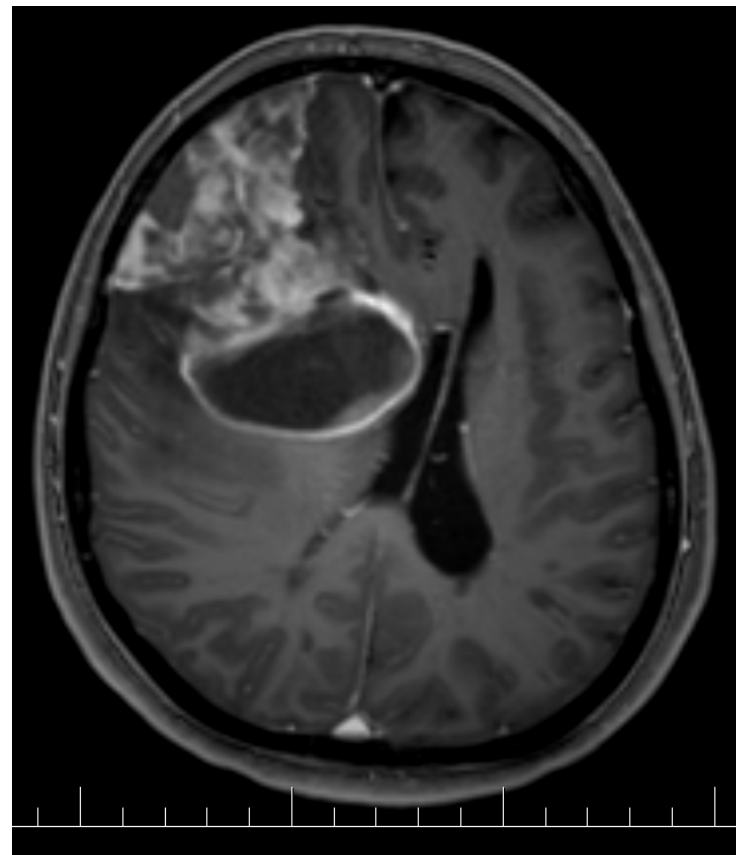
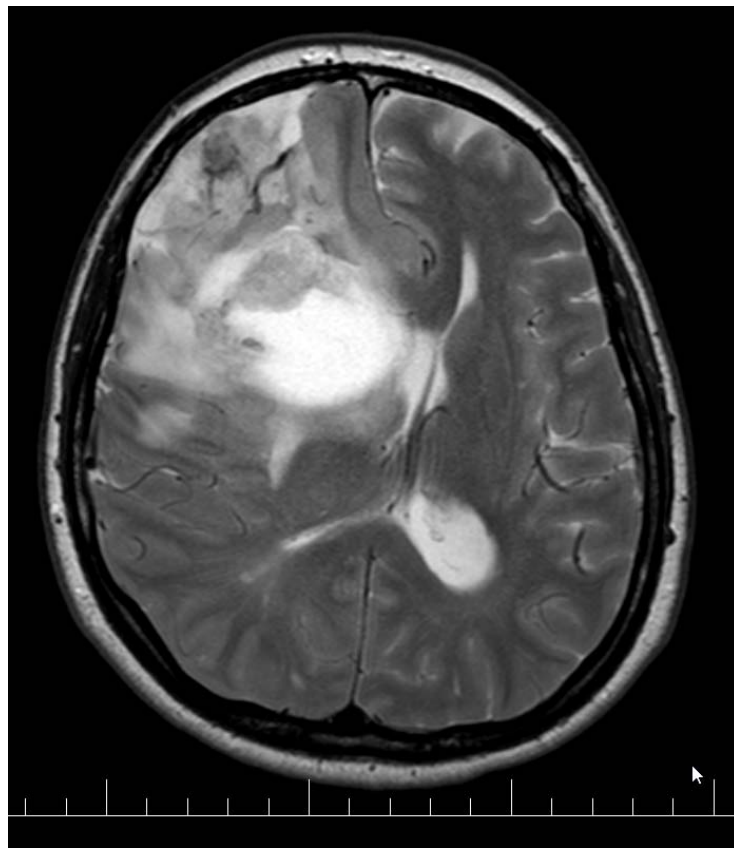
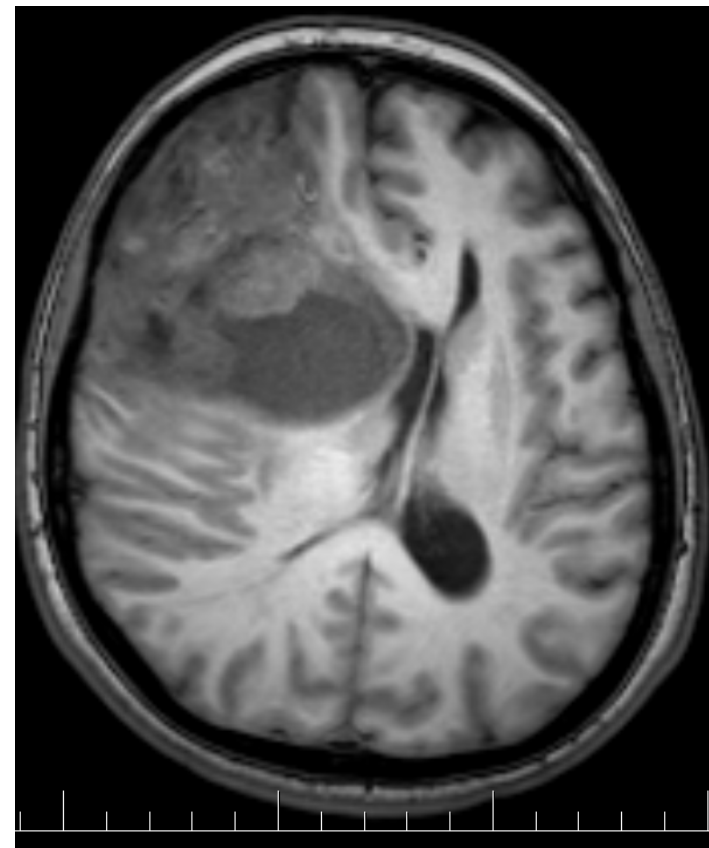
Prípád SD-IAP č.

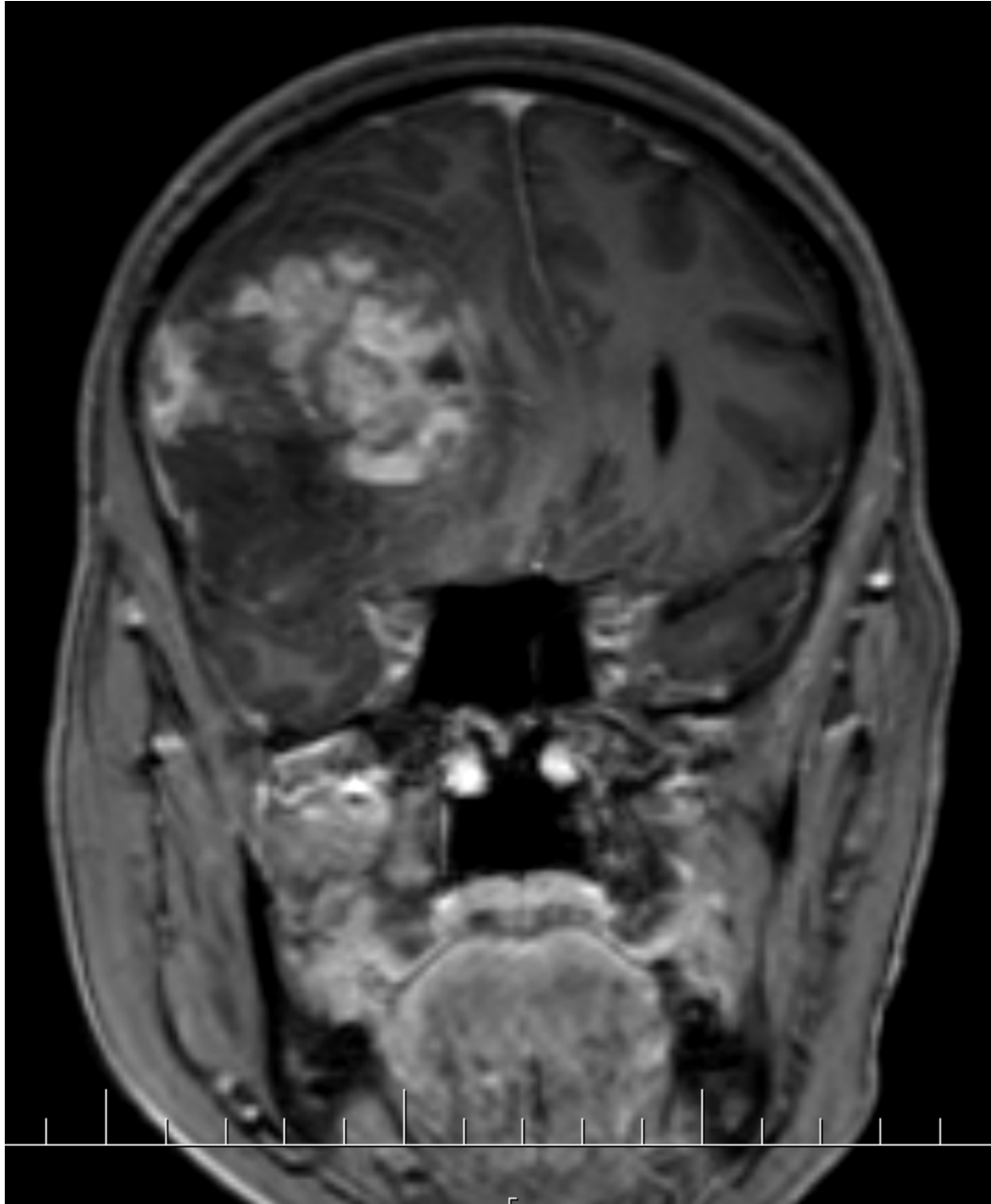
Marián Švajdler

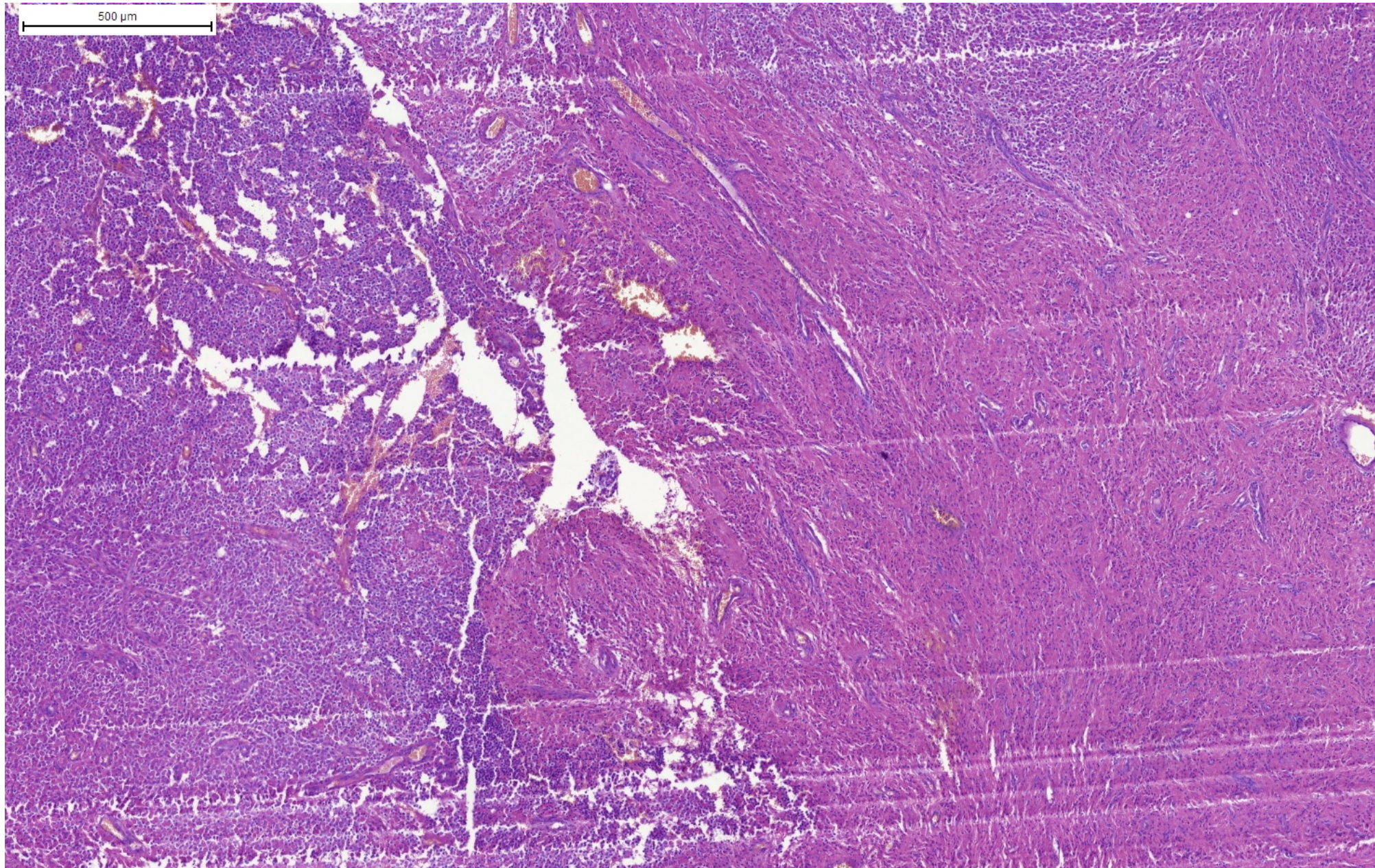


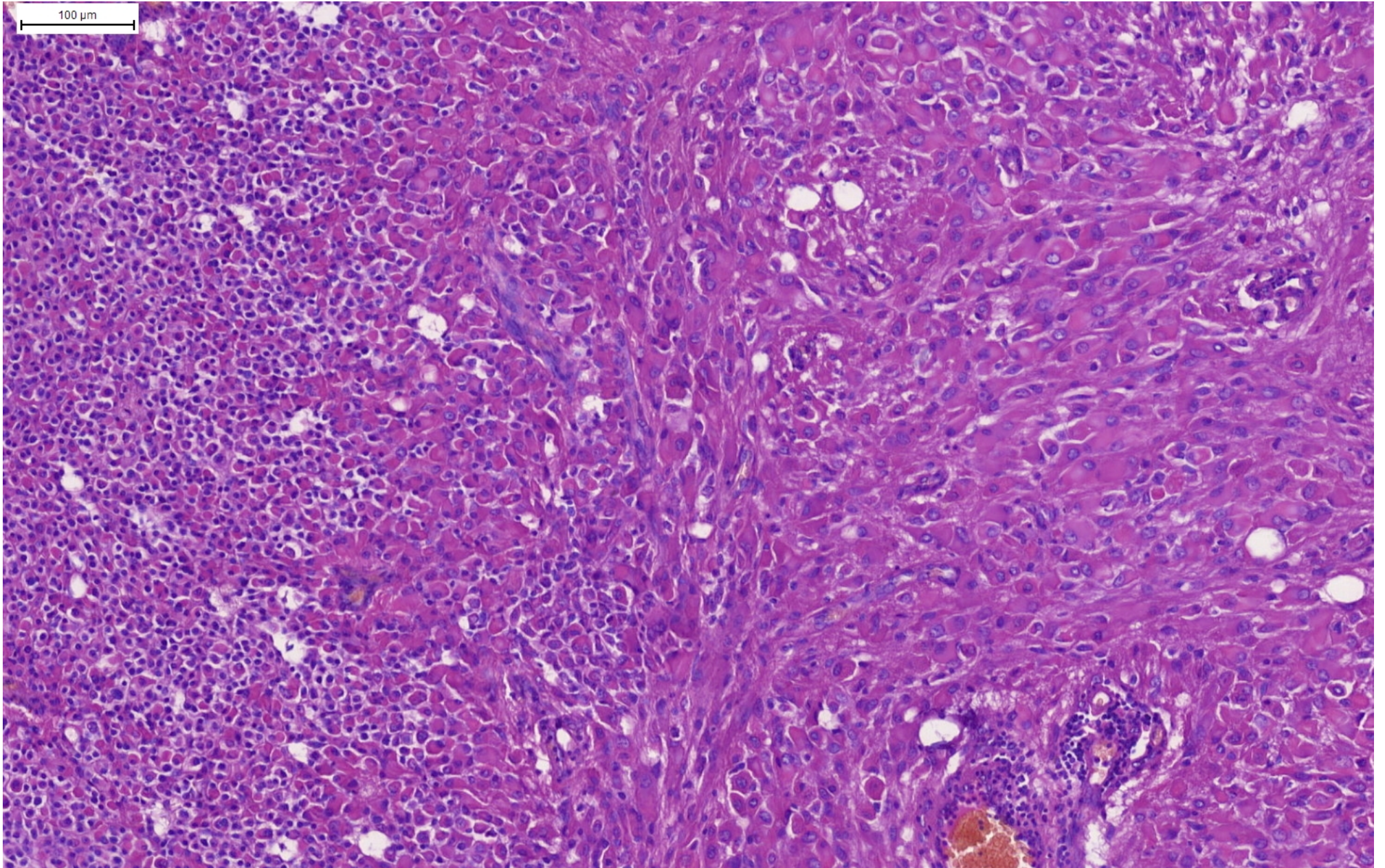
Klinické údaje

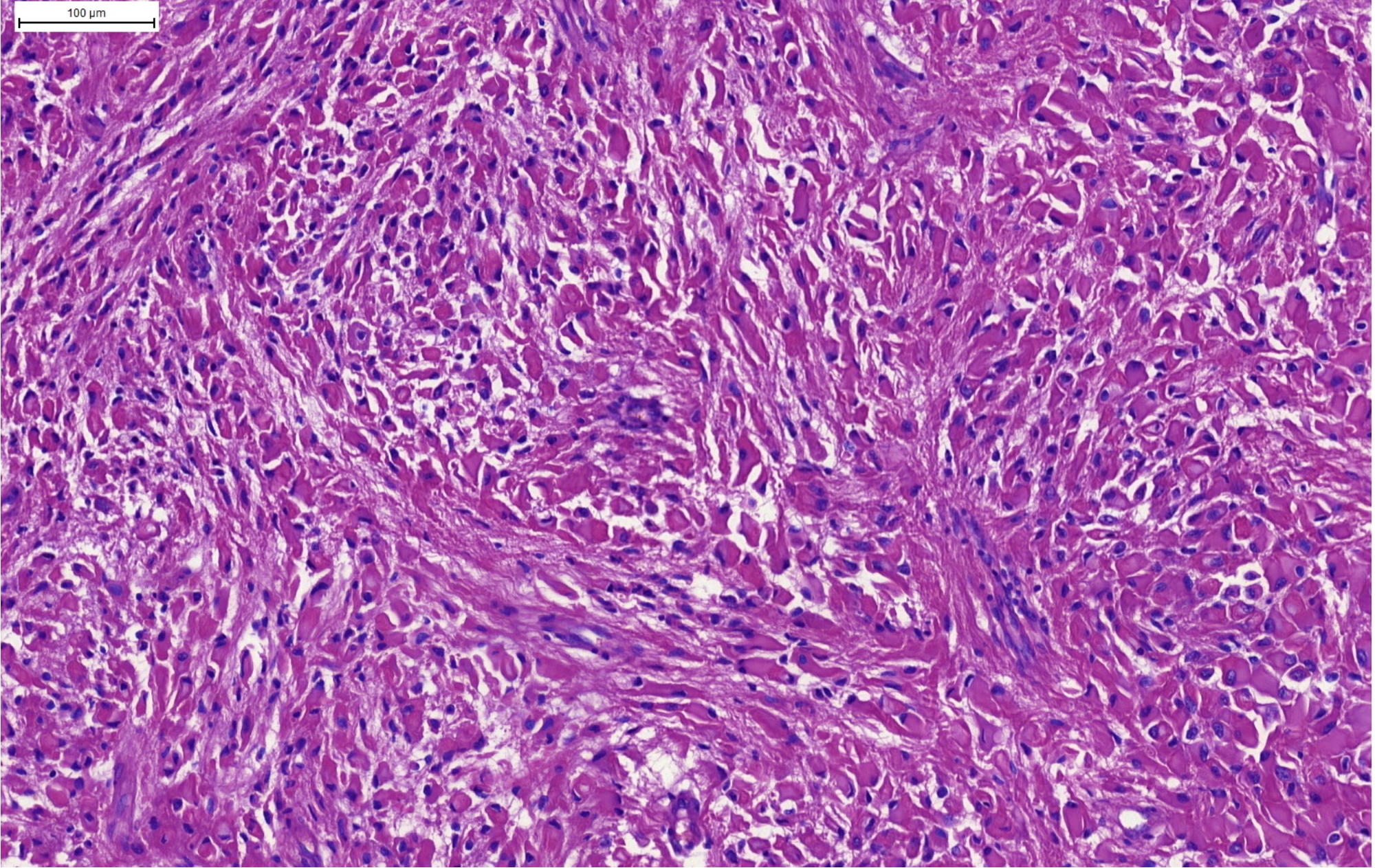
- 53-ročná žena
- Mesiac bolesti hlavy
- Tumor pravého čelového laloka

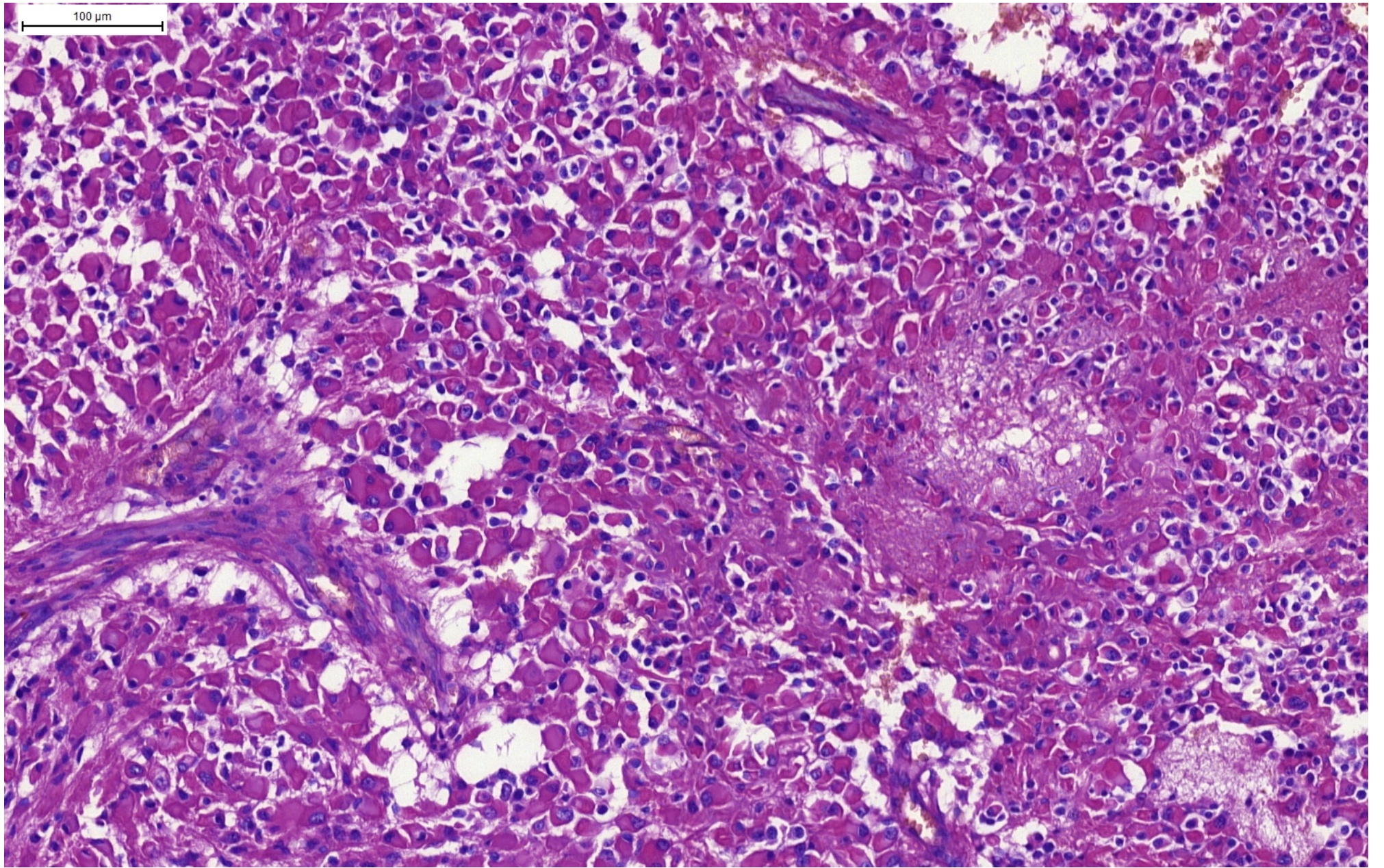


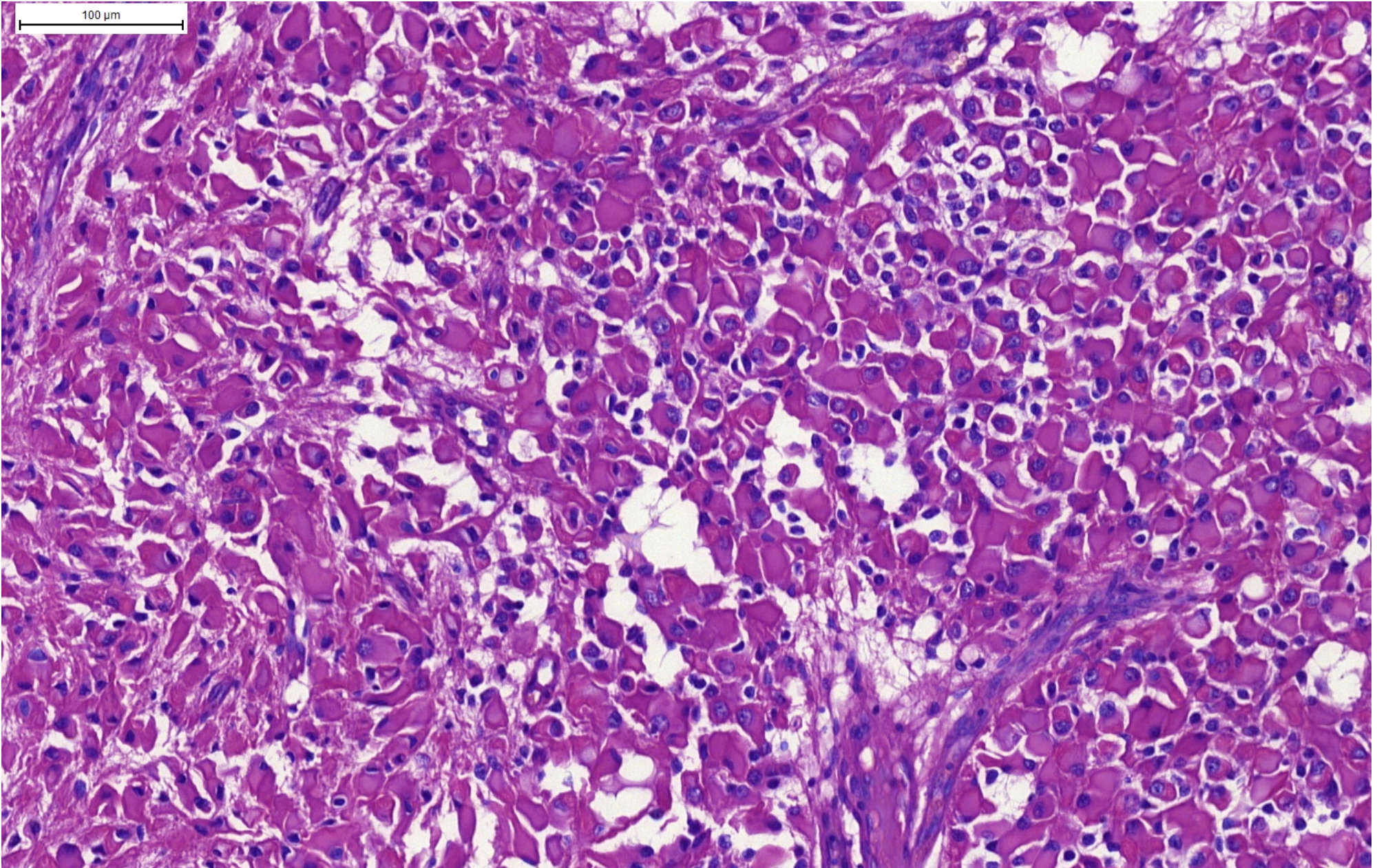


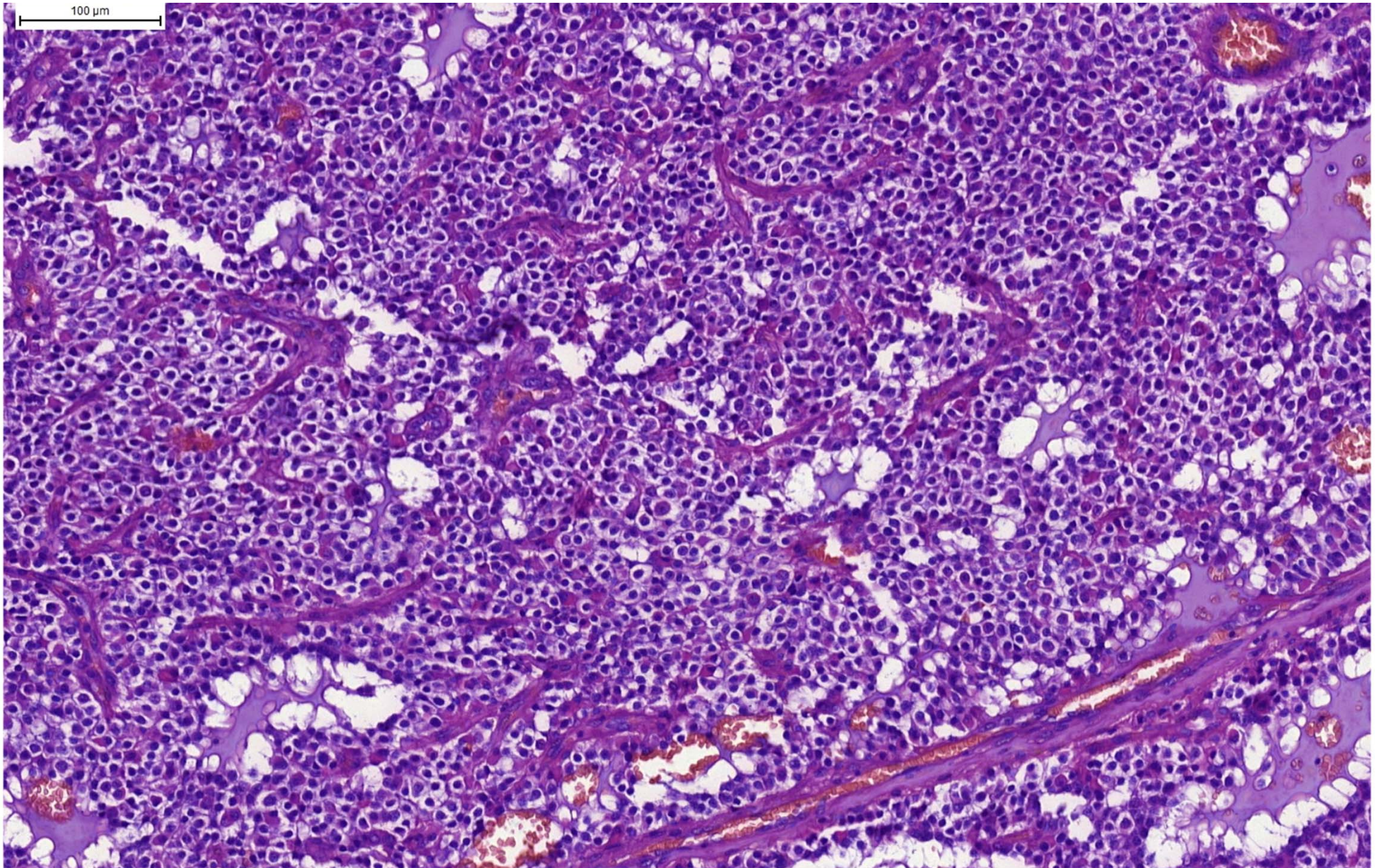


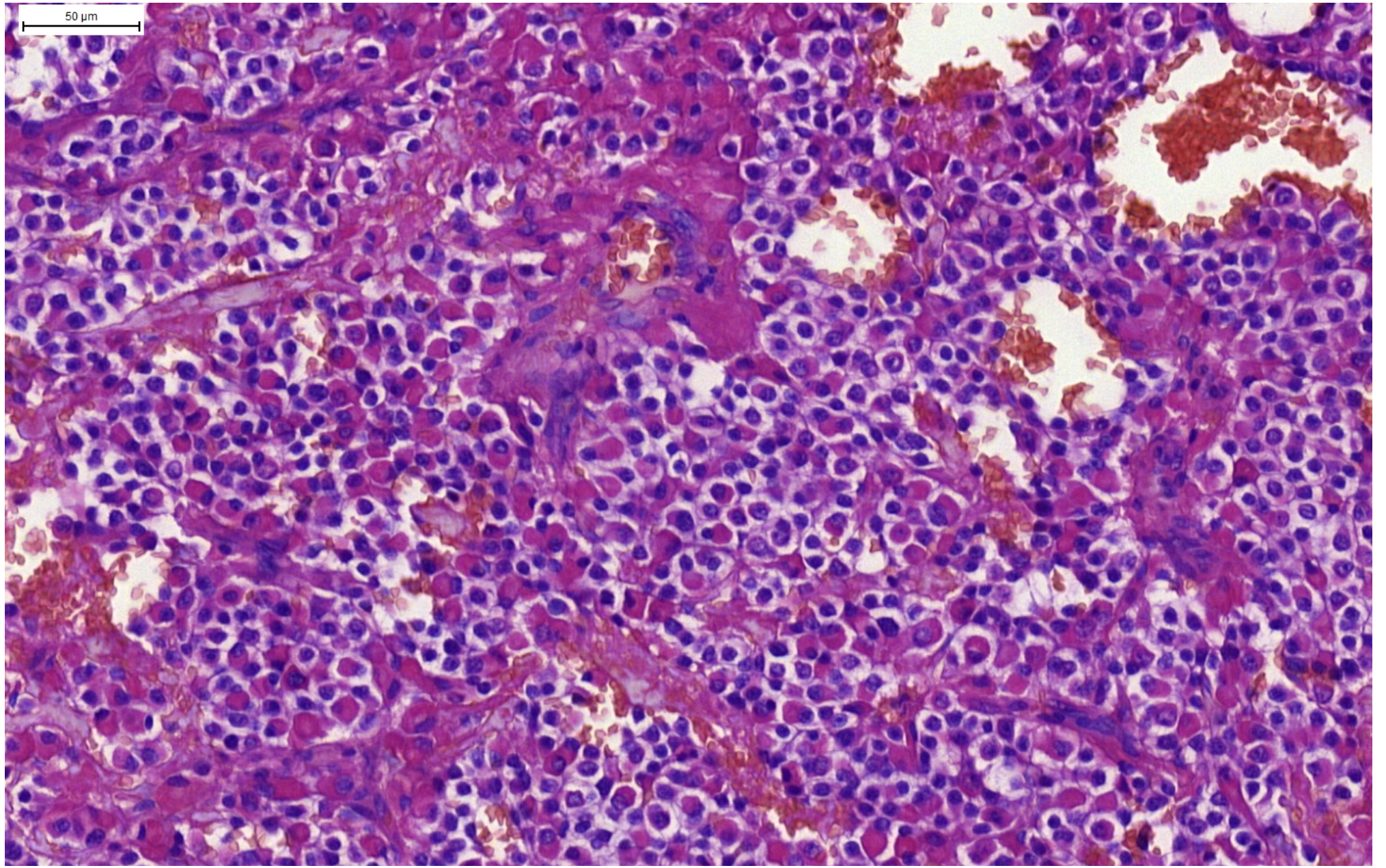


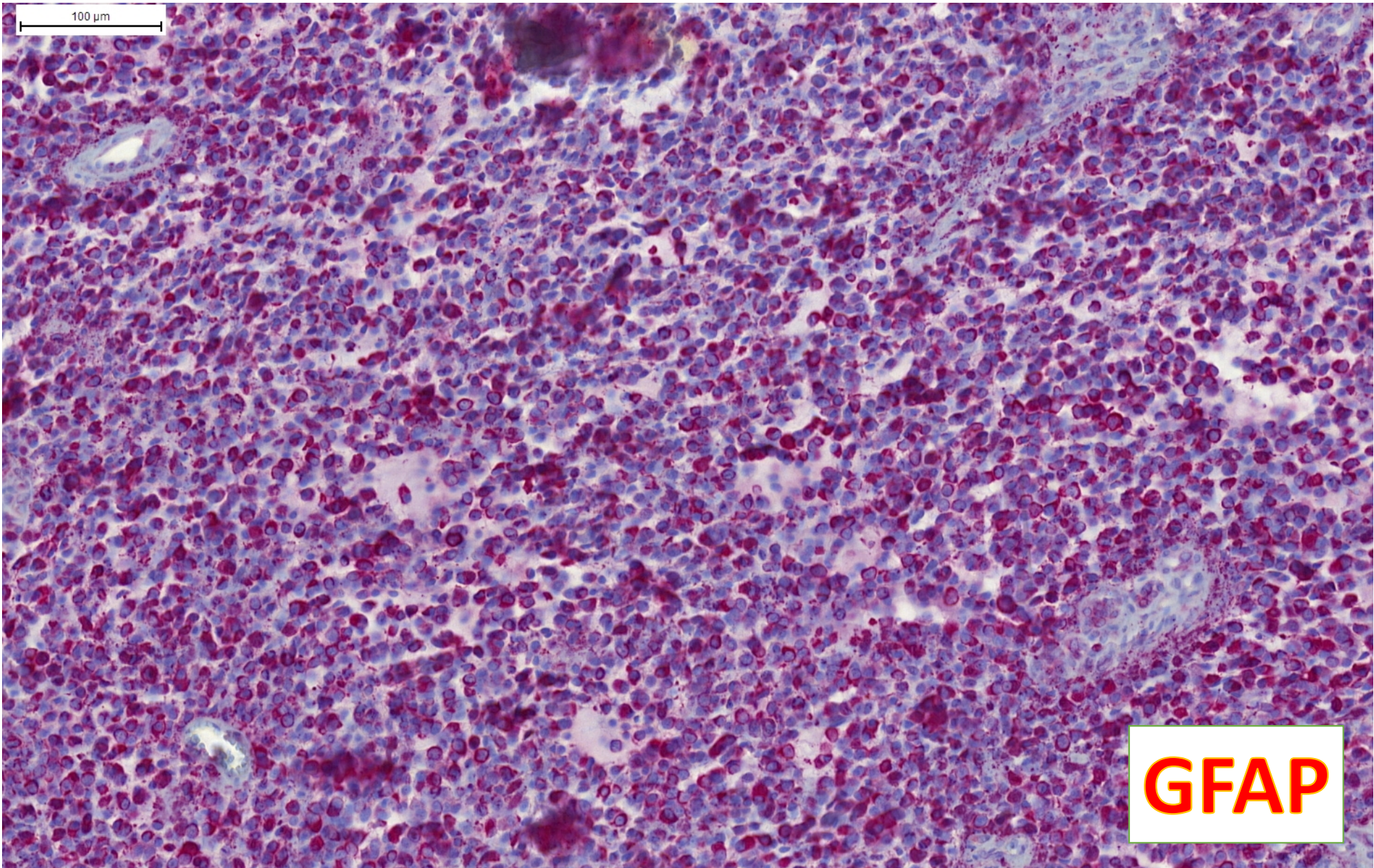






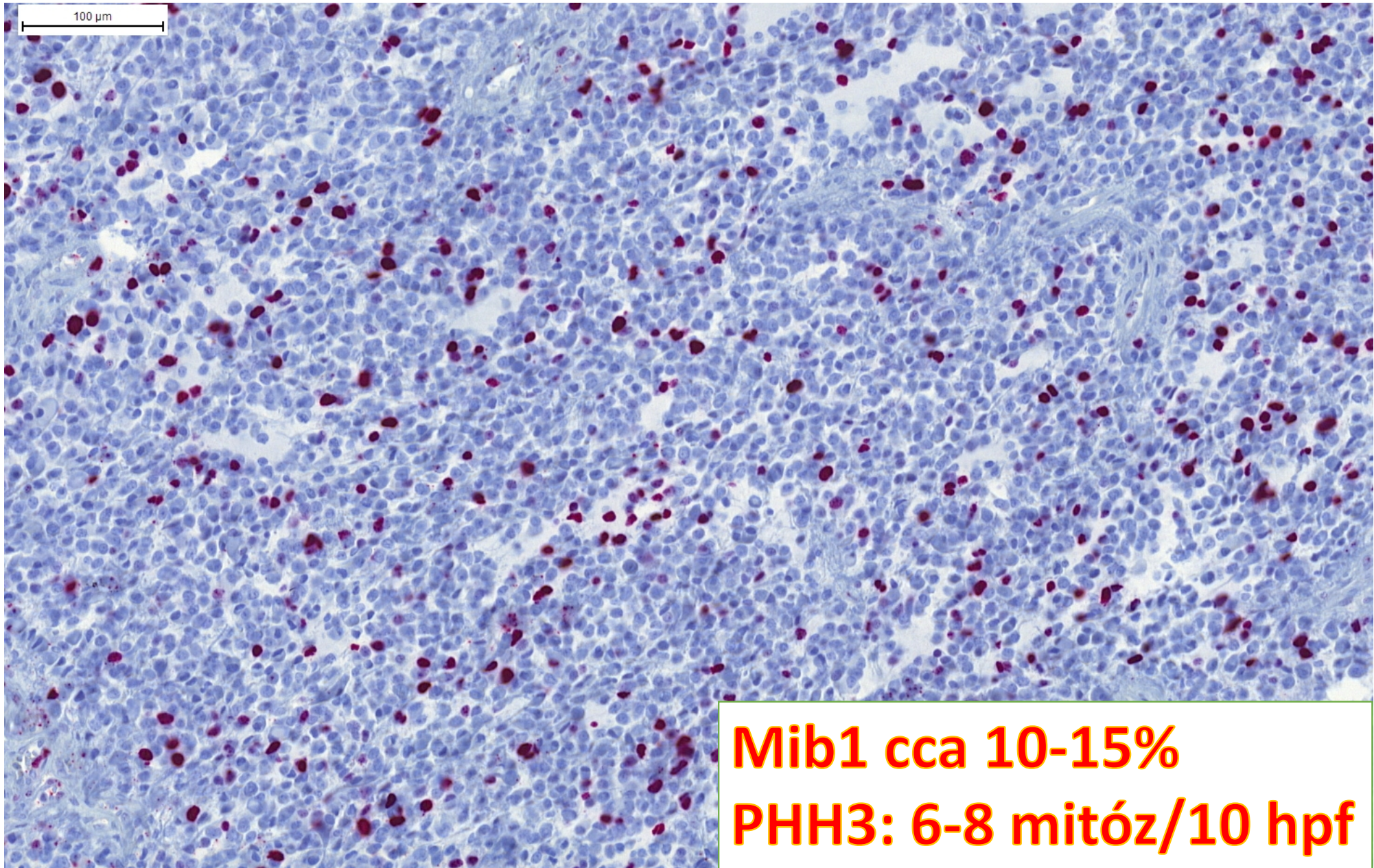






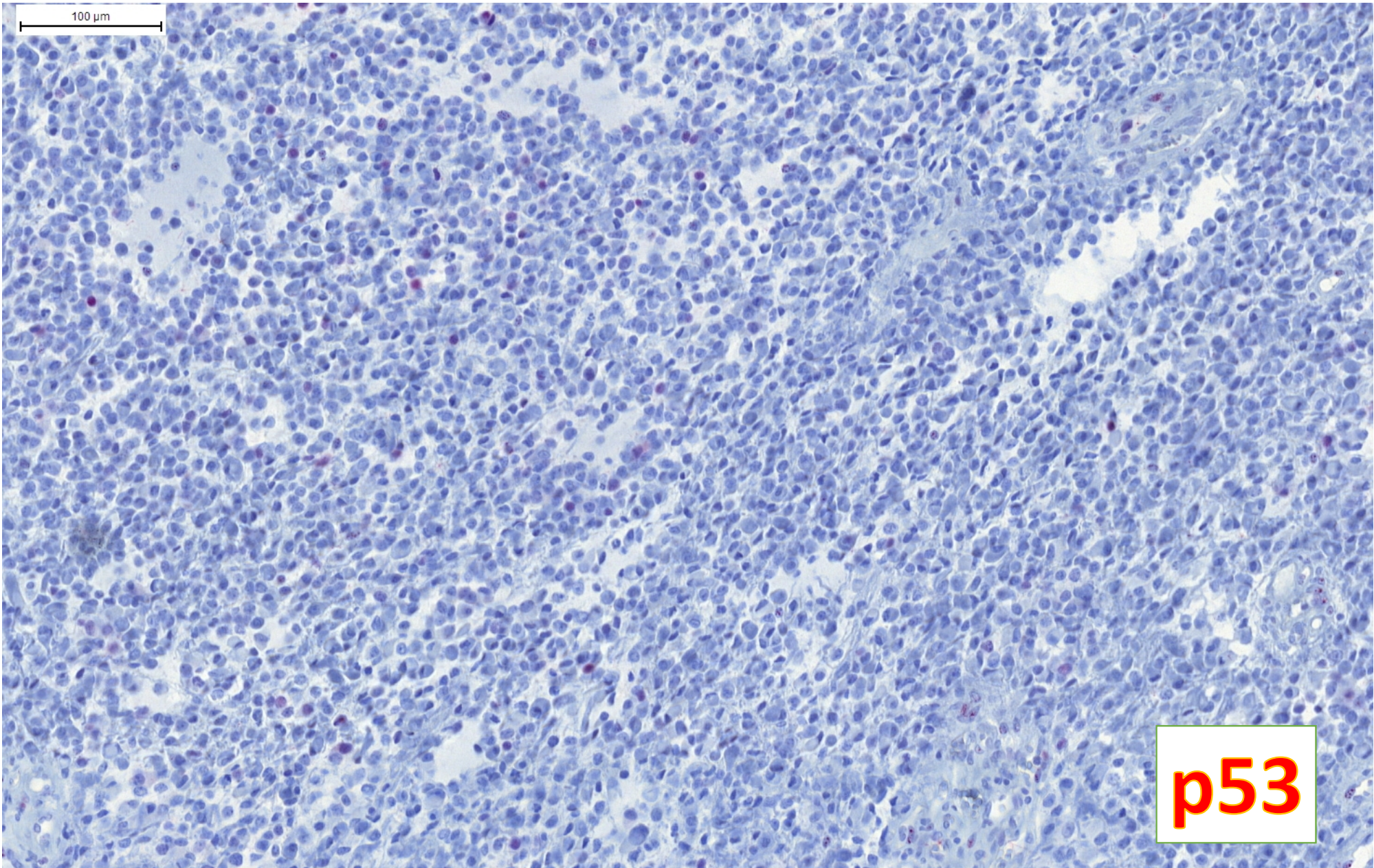
100 μ m

GFAP



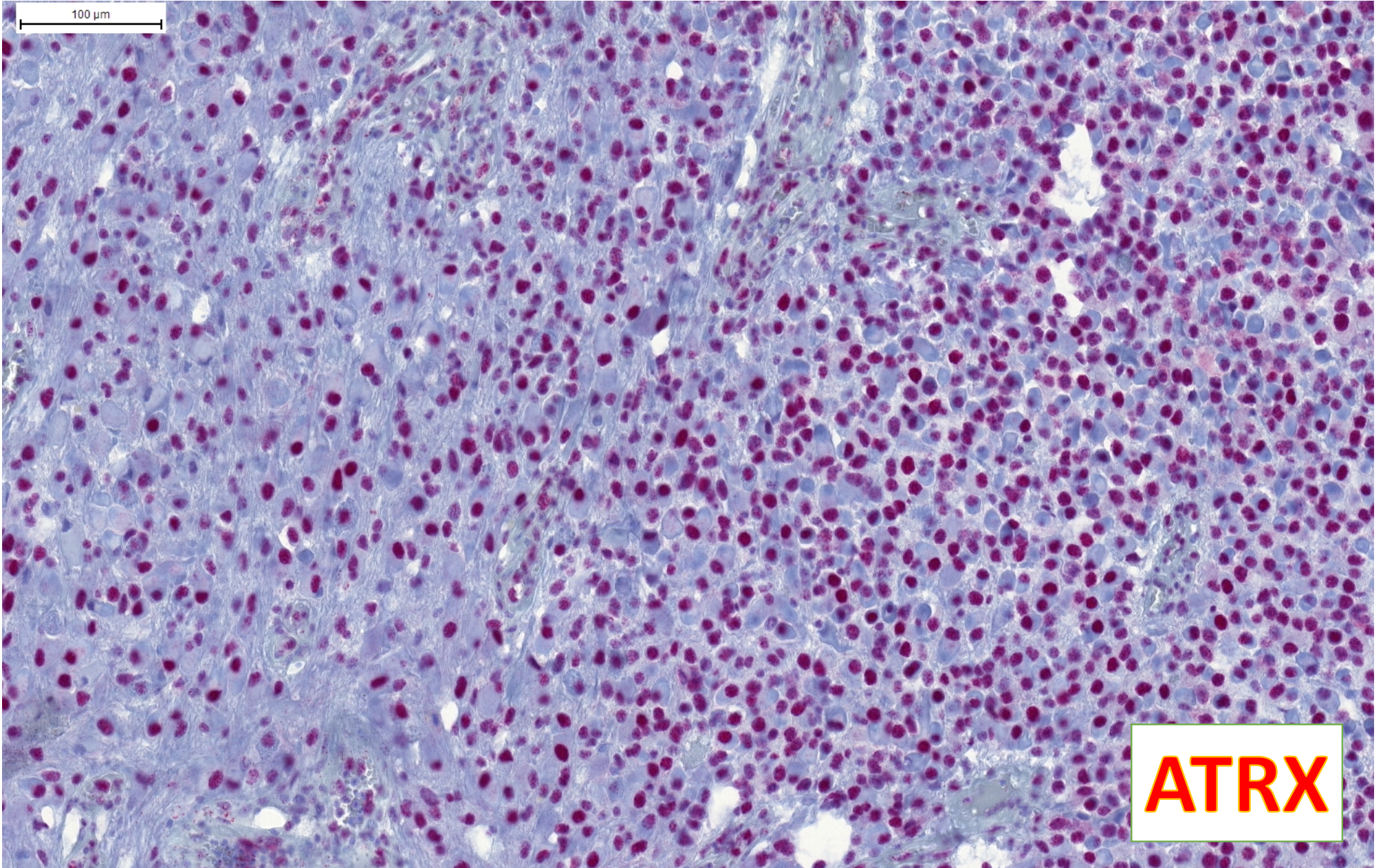
Mib1 cca 10-15%
PHH3: 6-8 mitóz/10 hpf

?

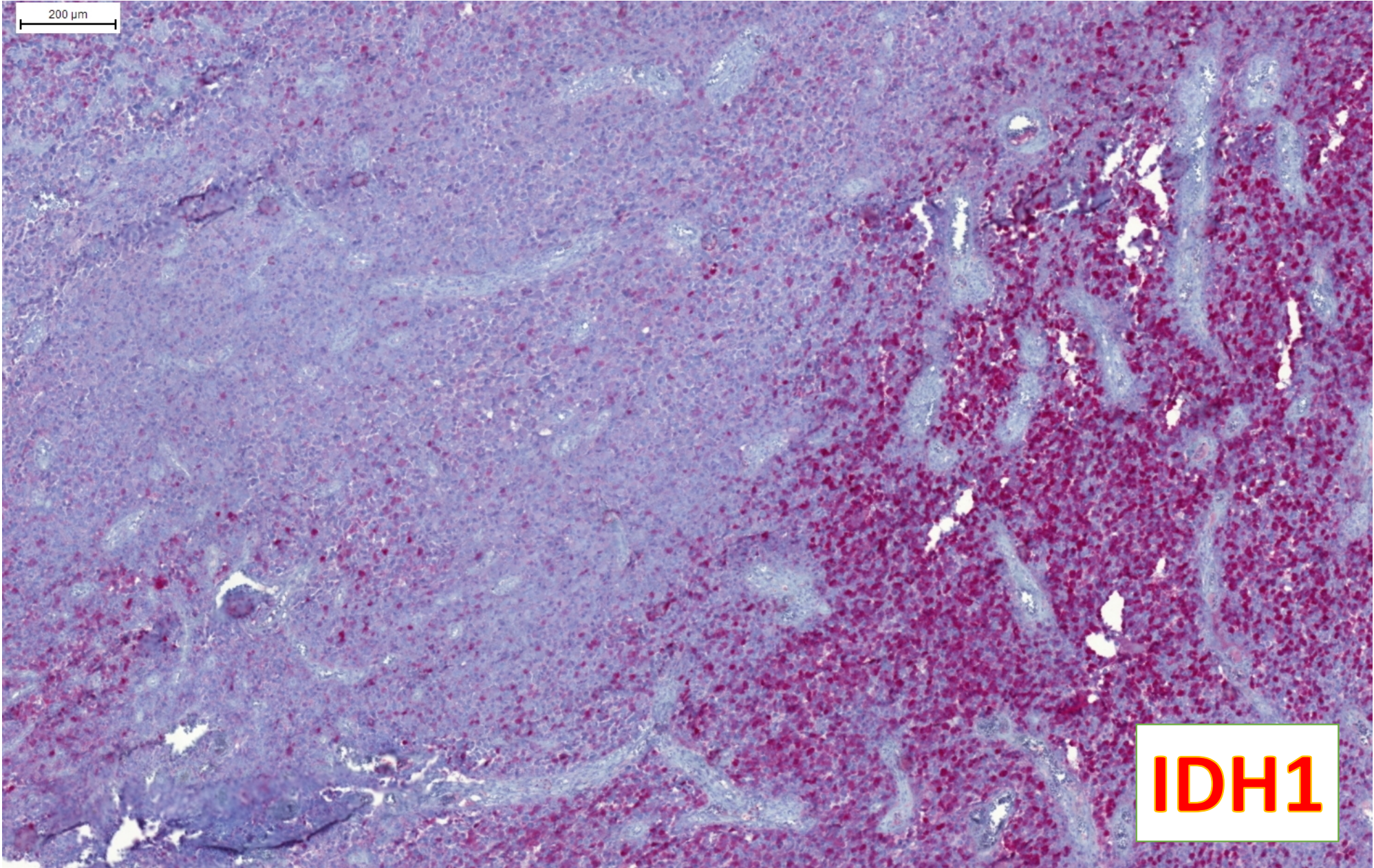


100 μ m

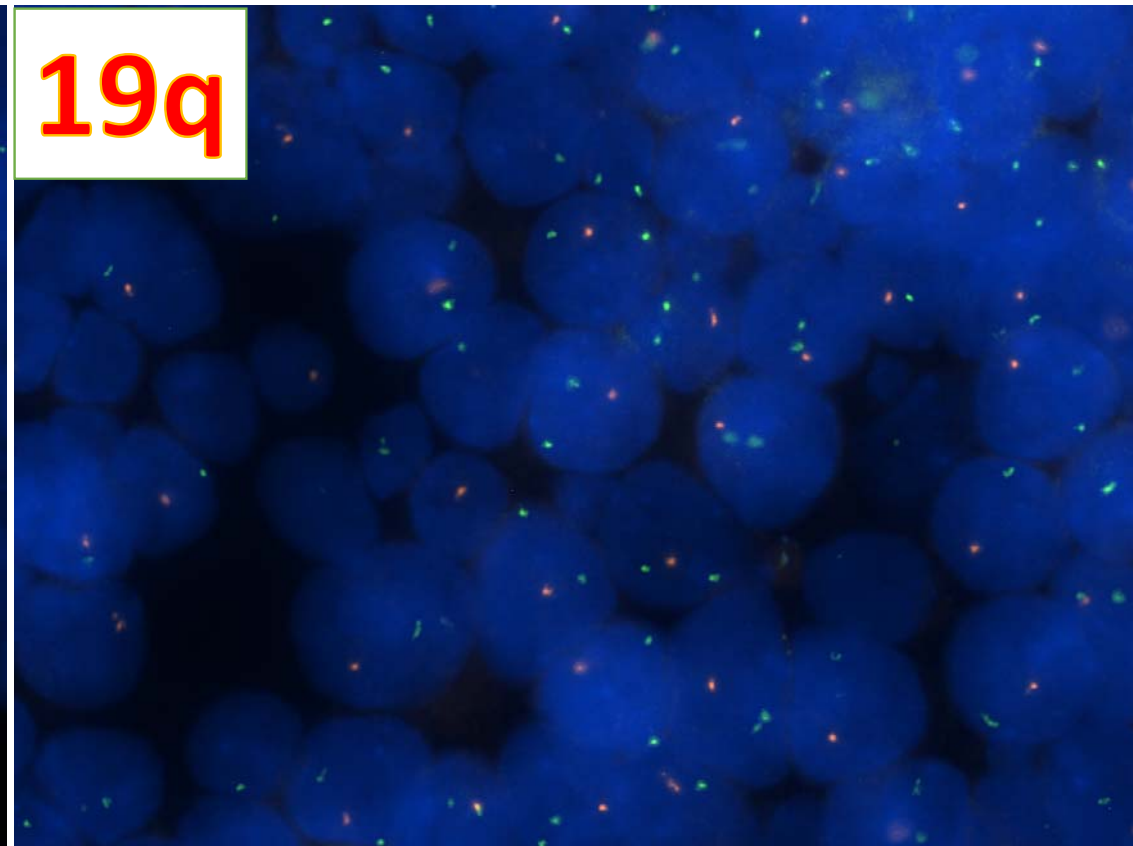
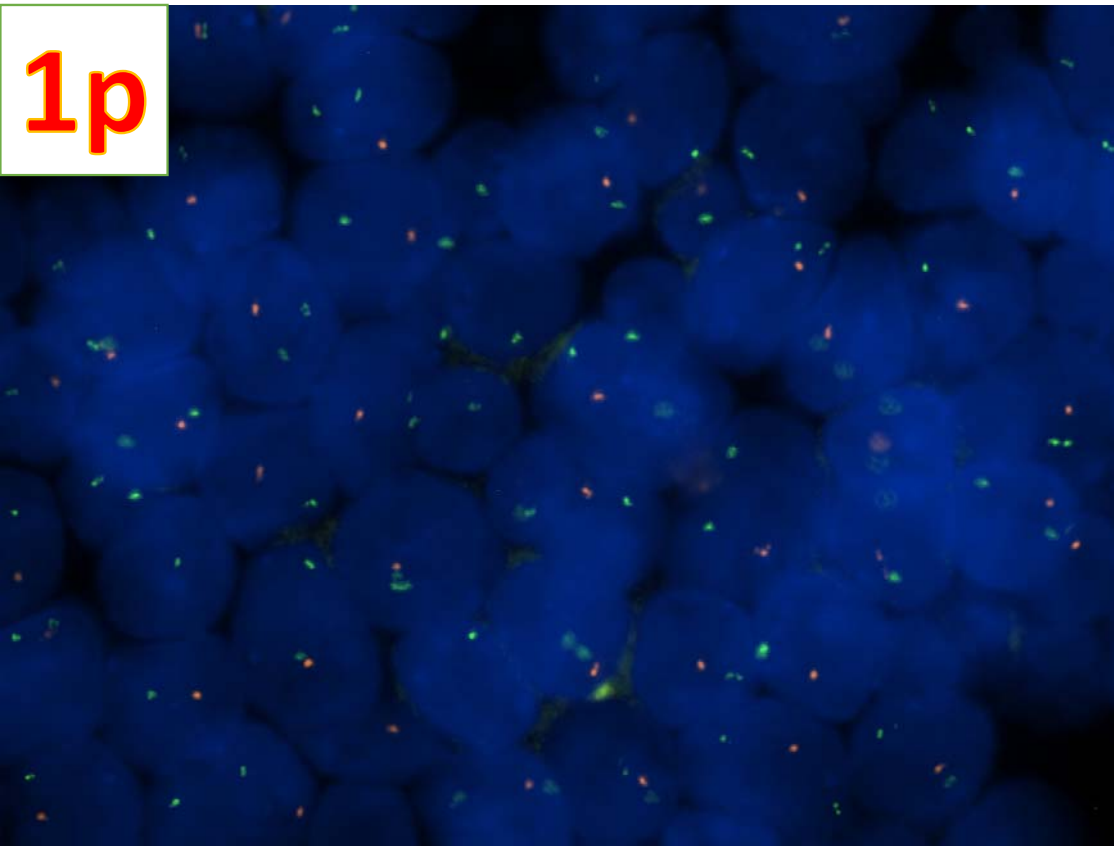
p53



ATRX

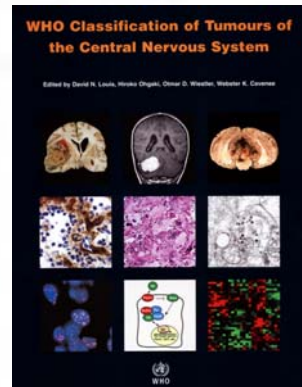


?



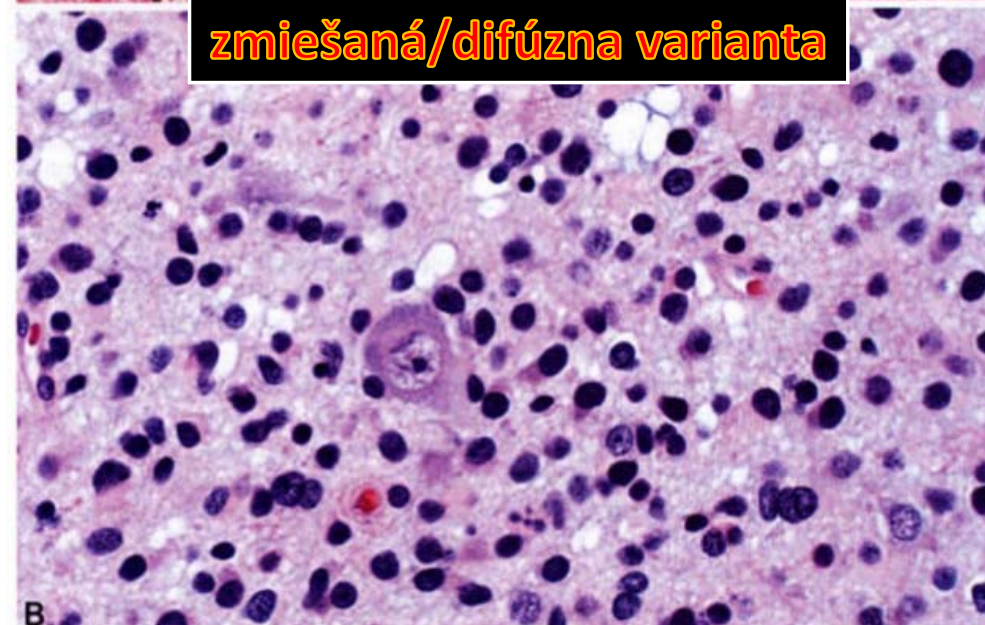
**Anaplastický oligodendroglíóm, WHO grade III
s reaktívnou gliózou**

Oligoastrocytoma



Definition

A diffusely infiltrating glioma composed of a conspicuous mixture of two distinct neoplastic cell types morphologically resembling the tumour cells in oligodendroglioma and diffuse astrocytoma of WHO grade II.



Existuje oligoastrocytóm (OA)?

- Incidencia 0-20%
- Bez definície minimálneho zastúpenia zložiek
- **V podstate nereprodukateľná jednotka / odpadkový kôš**
- Dobrá prognóza OA s del 1p/19q
- Horšia prognóza bez kodelécie alebo so zmenami typickými pre astrocytové nádory (del 10q, 9p, amplifikácia EGFR, del p16)

Existuje oligoastrocytóm (OA)?

- Astrocytómy a oligodendroglíómy sú histologicky a geneticky dobre definované jednotky
- V oboch je častá mutácia **IDH1/2**
- V astrocytómoch je častá konkurentná mutácia **p53/ATRX**
- V ODG častá kodelécia **1p/19q**
- Mutácia **p53/ATRX** a del **1p/19q** sú vzájomne takmer exkluzívne

Farewell to oligoastrocytoma: in situ molecular genetics favor classification as either oligodendroglioma or astrocytoma

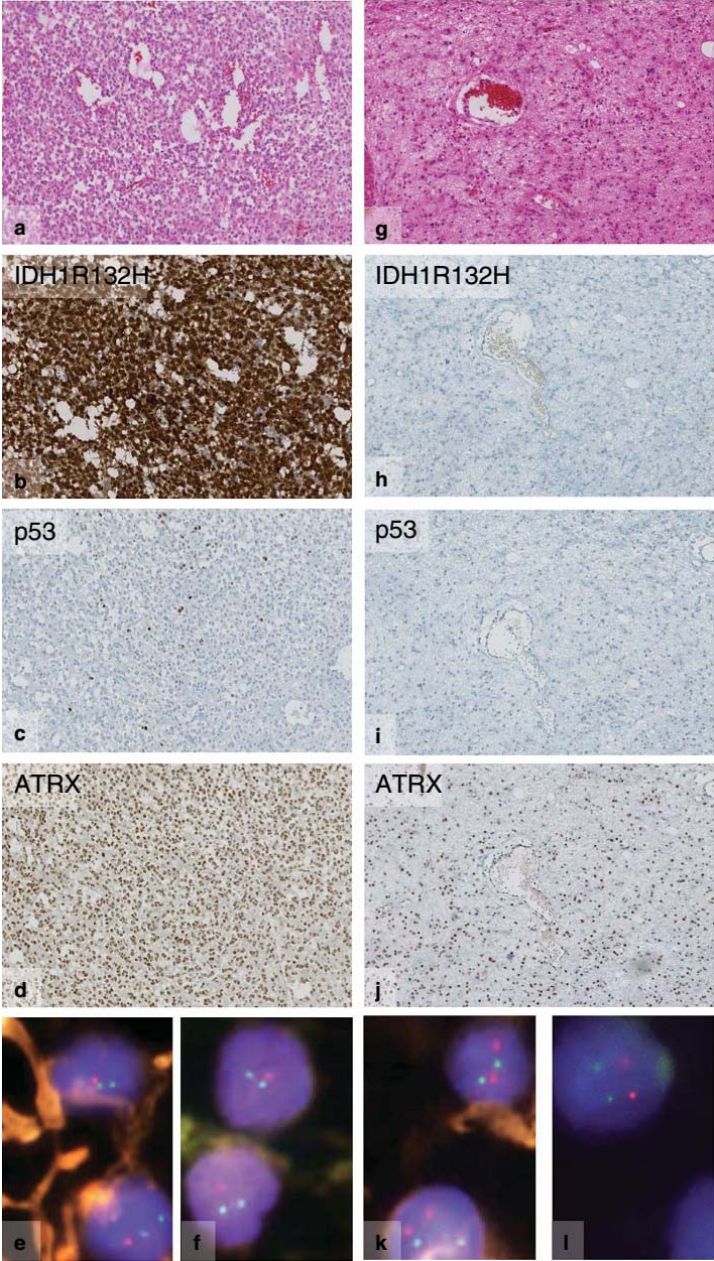
Felix Sahm · David Reuss · Christian Koelsche · David Capper · Jens Schittenhelm · Stephanie Heim · David T. W. Jones · Stefan M. Pfister · Christel Herold-Mende · Wolfgang Wick · Wolf Mueller · Christian Hartmann · Werner Paulus · Andreas von Deimling

- 43 prípadov OA
- **IDH1+/ATRX-/p53+**astrocytóm.... 11x
- **IDH1+/ATRX+/p53-/del 1p/19q**ODG.... 31x

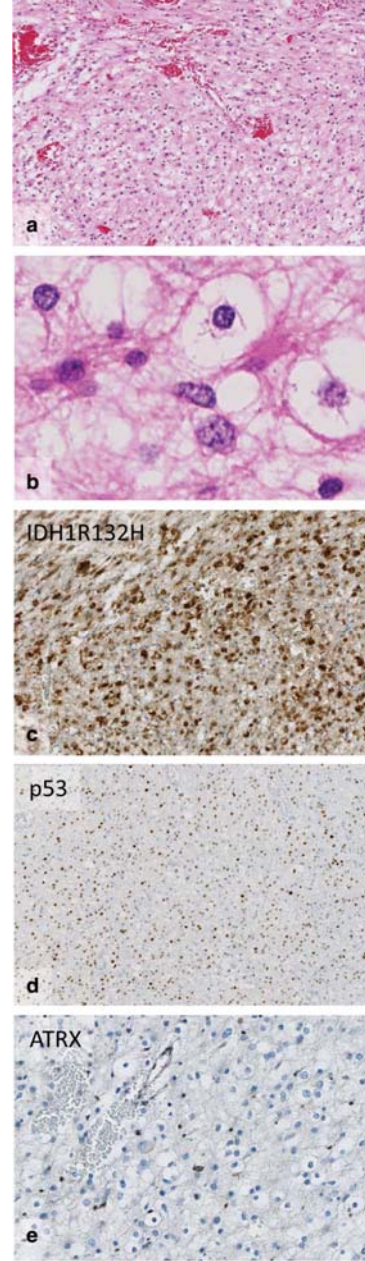
- Jediný prípad (po RAT) **IDH1+/ATRX-/p53+/del 1p/19q**

- **Astrocytárne časti** v molekulárnych ODG boli IDH1-/p53-/ATRX+/bez del 1p/19q a teda **iba reaktívne**
- **„Oligodendroglálne“ časti** v molekulárnych astrocytómoch boli ATRX-/p53+ a teda **neoplastické**

Oligodendroglióm



Astrocytóm



Combined ATRX/IDH1 immunohistochemistry predicts genotype of oligoastrocytomas

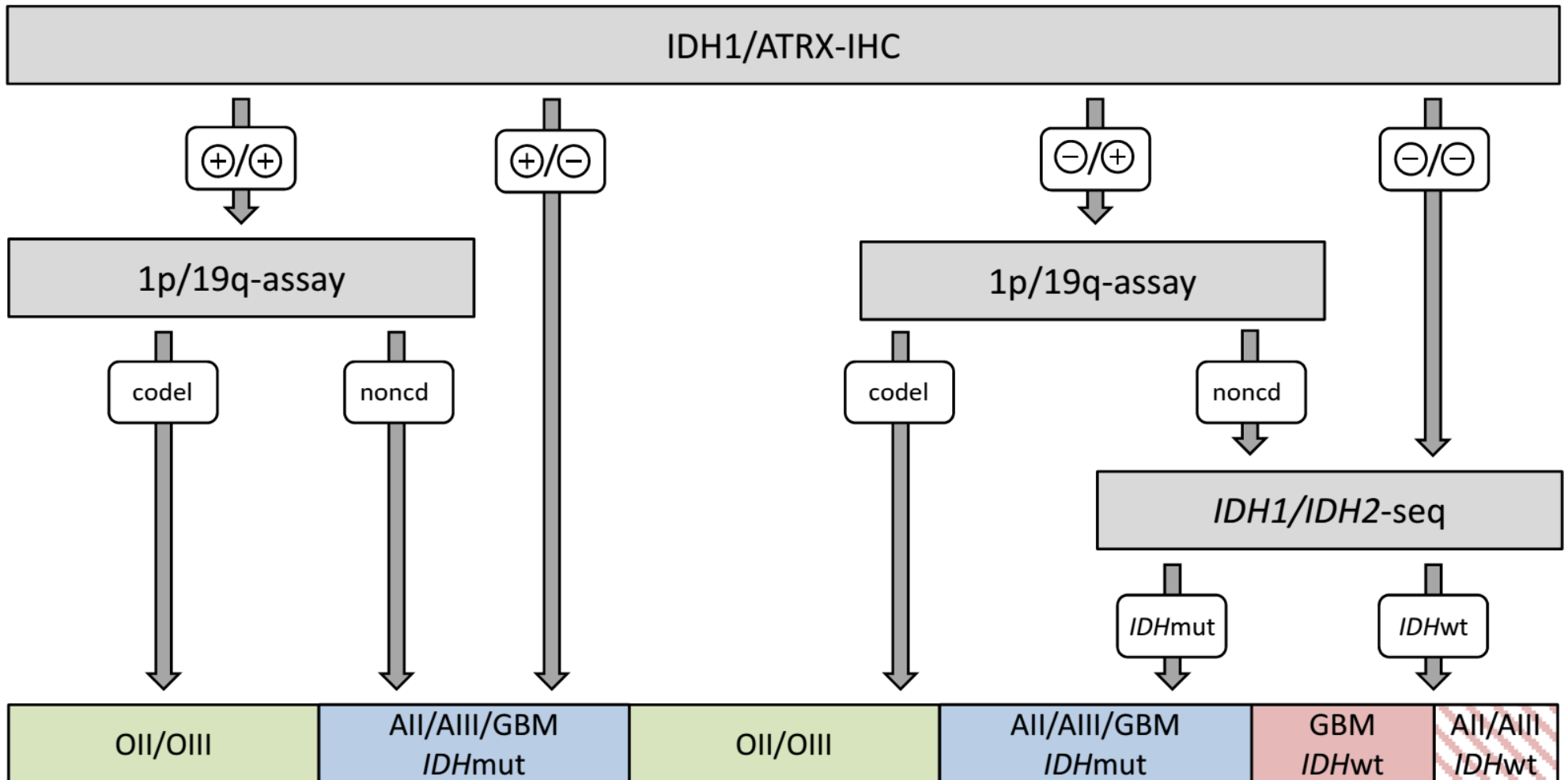
Ekkehard Hewer, Istvan Vajtai,* Matthias S Dettmer, Sabina Berezowska & Erik Vassella
Institute of Pathology, University of Bern, Bern, Switzerland

- 54 prípadov OA
- IDH1+/ATRX+ tumory vykazovali del1p/19q v 85% a **morfológiu viac podobnú prototypickému ODG**

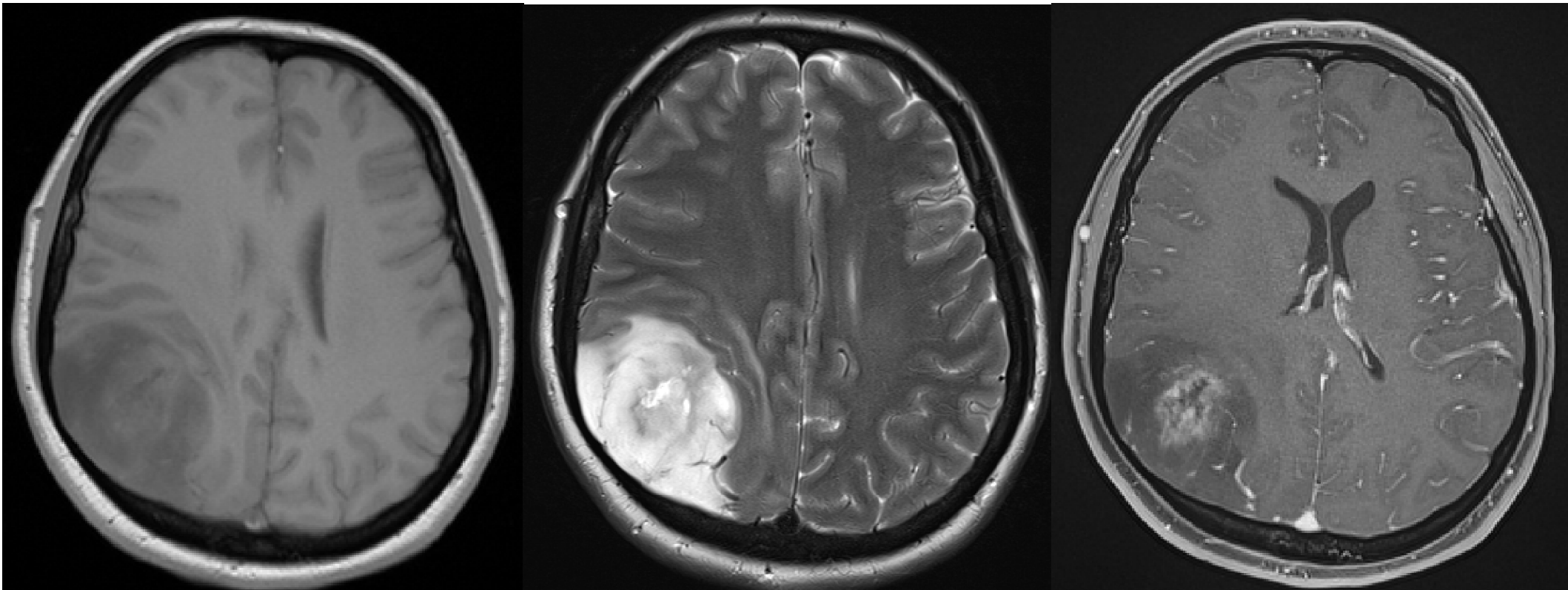
ATRX and IDH1-R132H immunohistochemistry with subsequent copy number analysis and *IDH* sequencing as a basis for an “integrated” diagnostic approach for adult astrocytoma, oligodendroglioma and glioblastoma

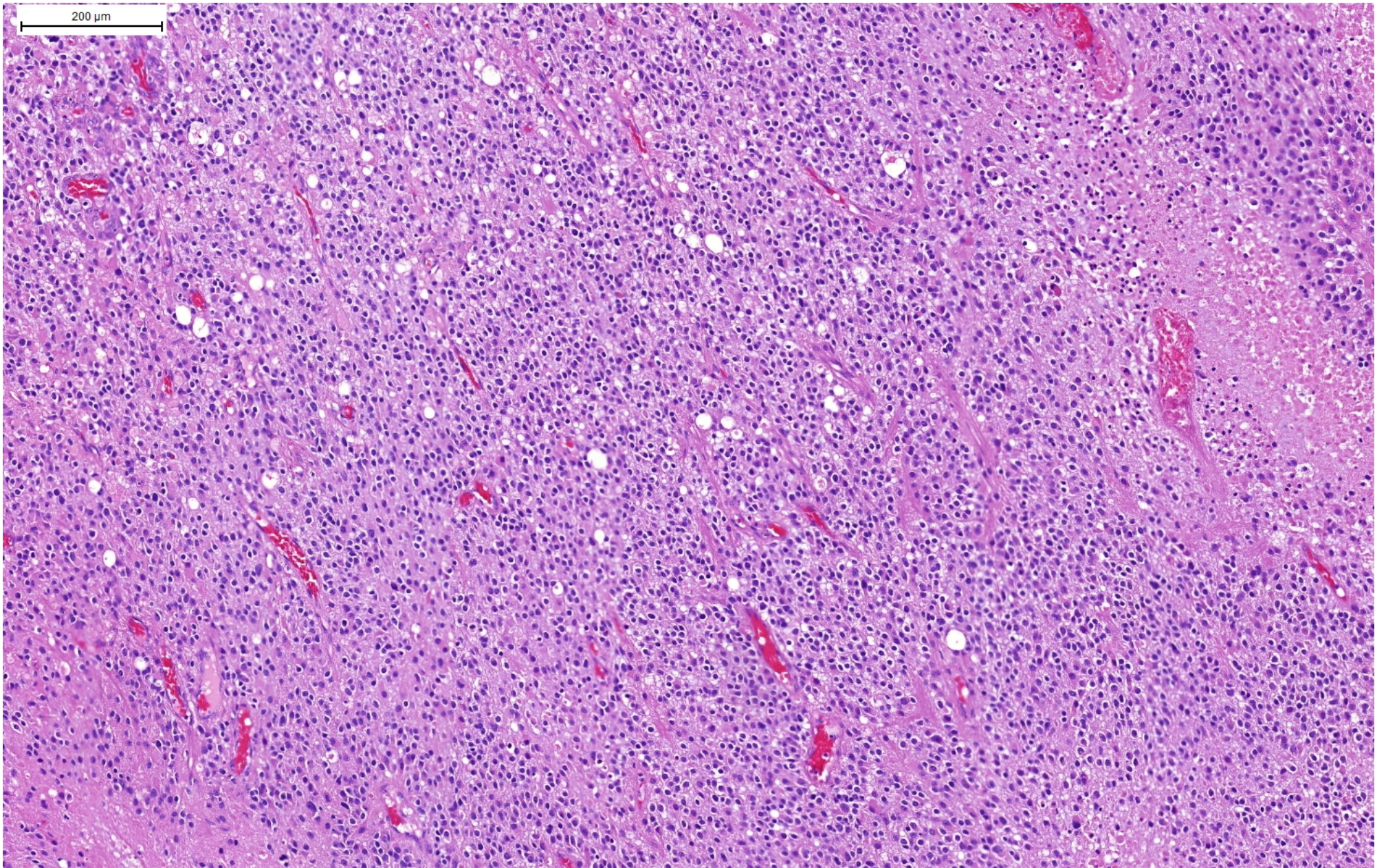
David E. Reuss · Felix Sahm · Daniel Schrimpf · Benedikt Wiestler · David Capper · Christian Koelsche · Leonille Schweizer · Andrey Korshunov · David T. W. Jones · Volker Hovestadt · Michel Mittelbronn · Jens Schittenhelm · Christel Herold-Mende · Andreas Unterberg · Michael Platten · Michael Weller · Wolfgang Wick · Stefan M. Pfister · Andreas von Deimling

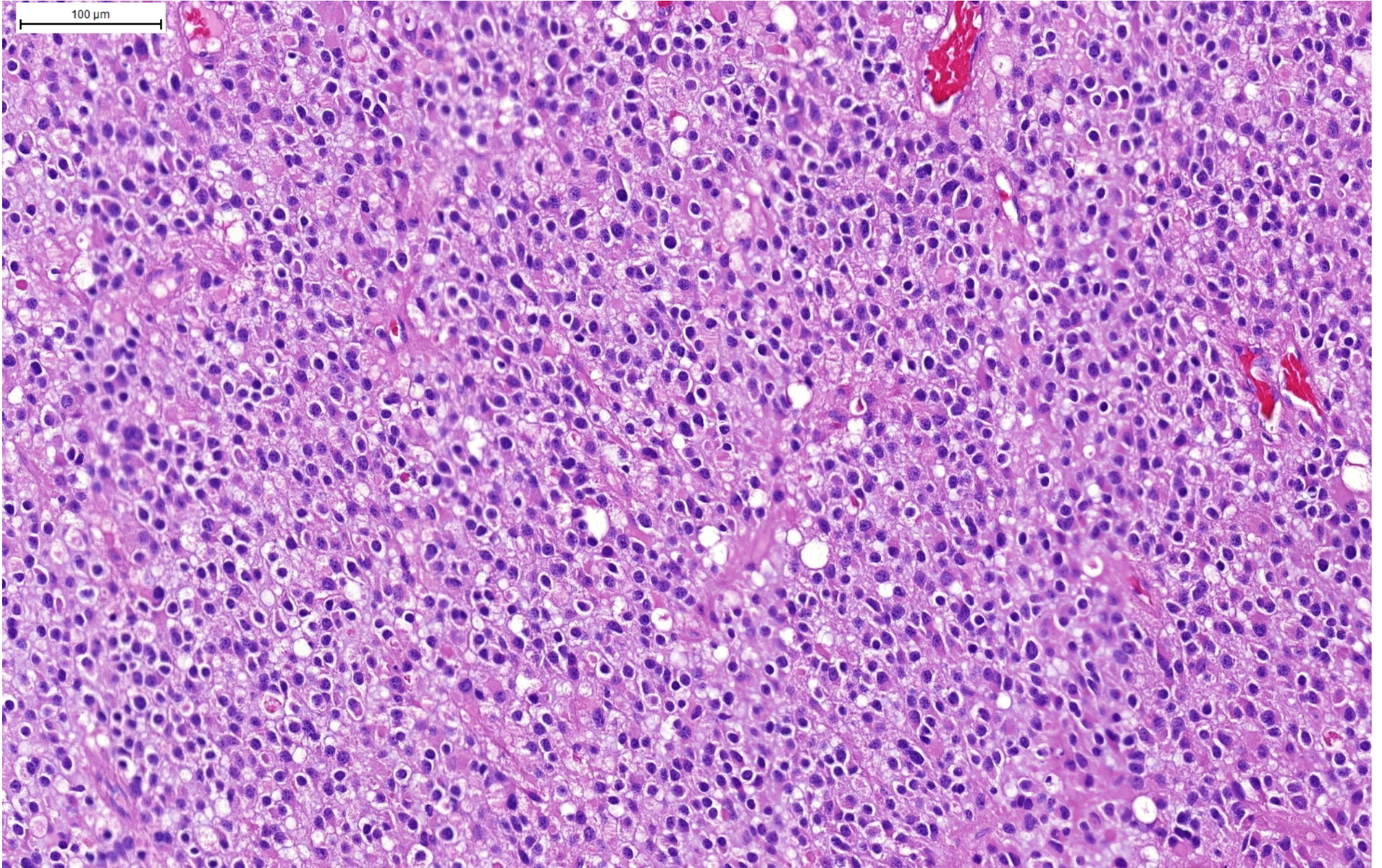
Algoritmus diagnostiky adultných difúzných gliómov

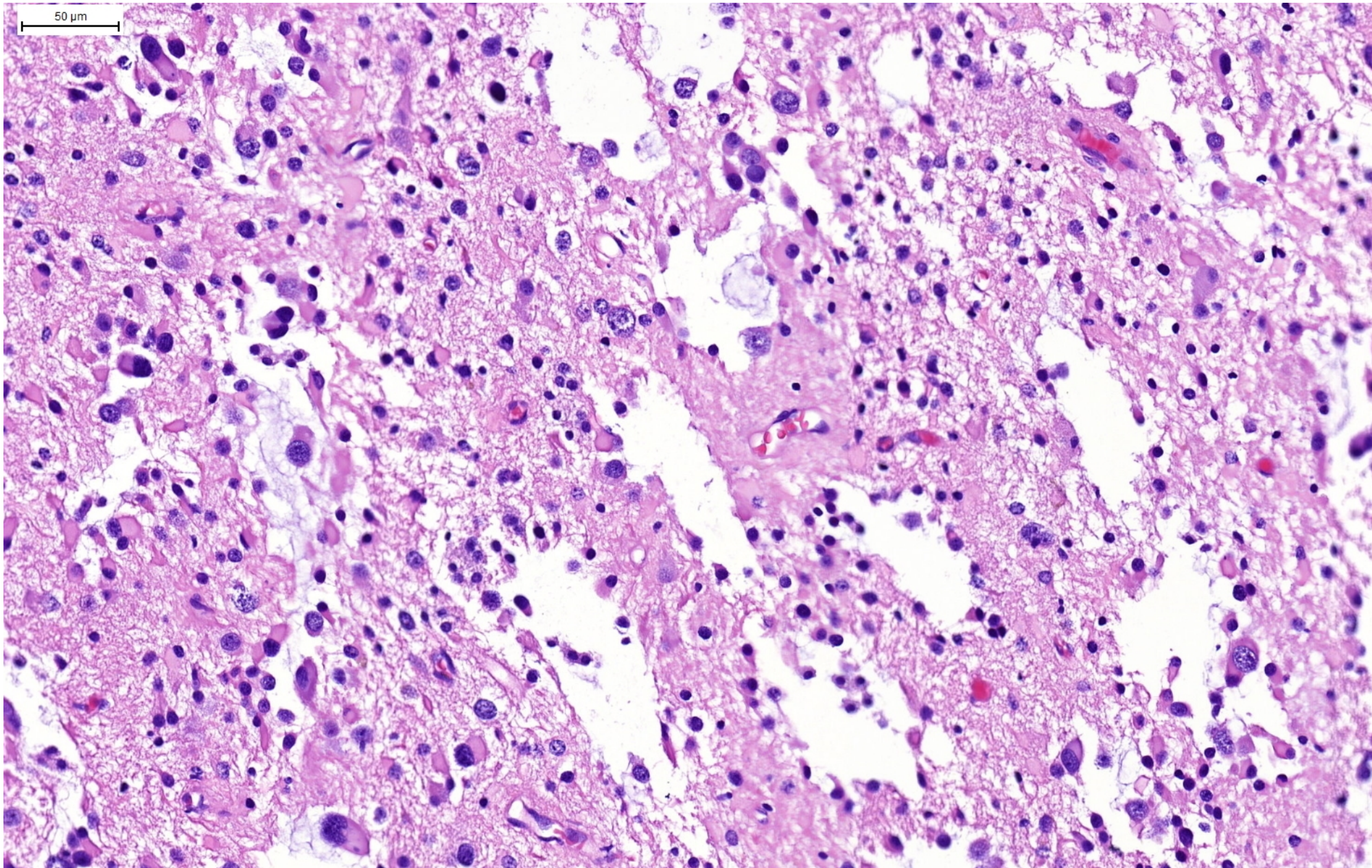


- 36 ročná žena
- Tumor parietálneho laloku vpravo

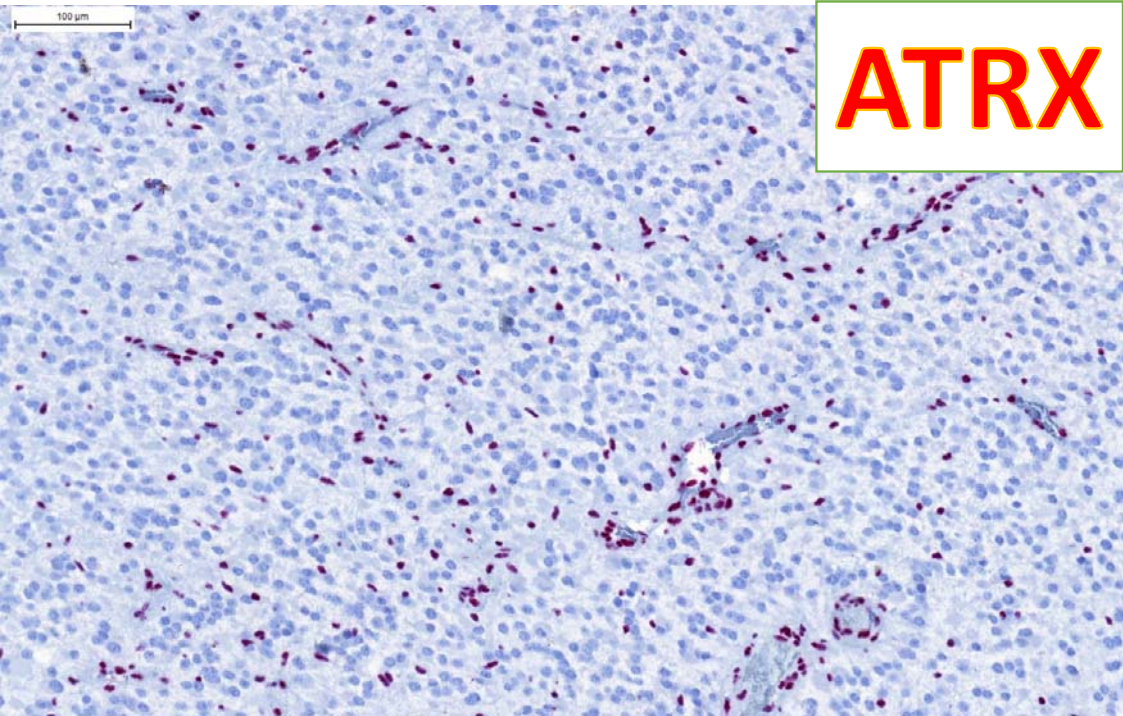
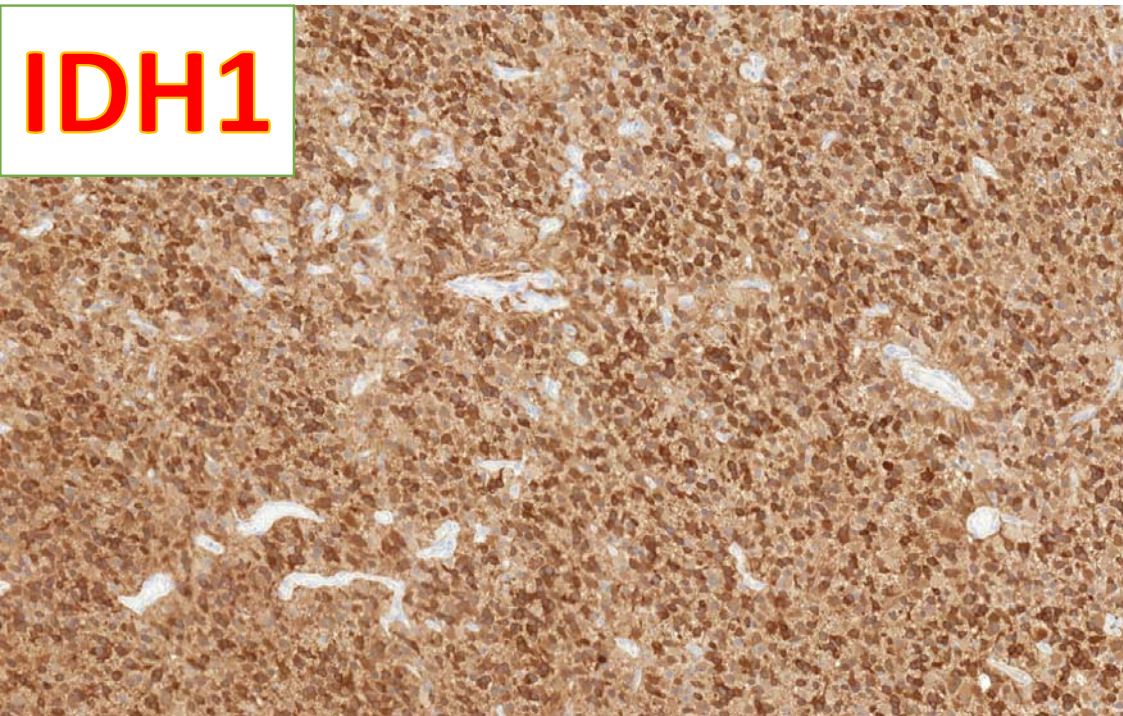








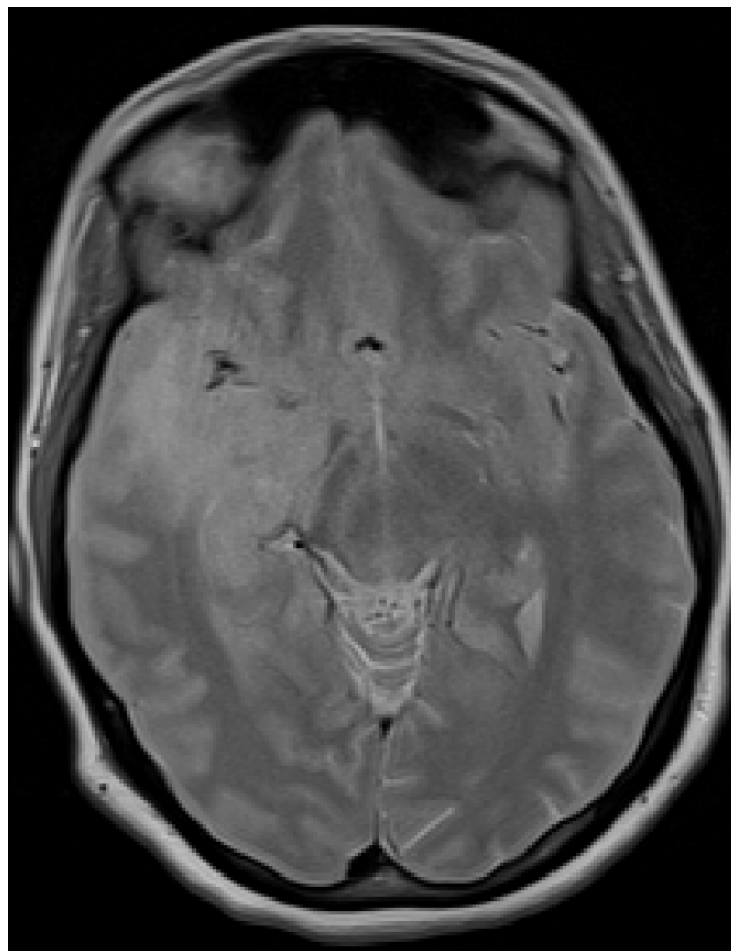
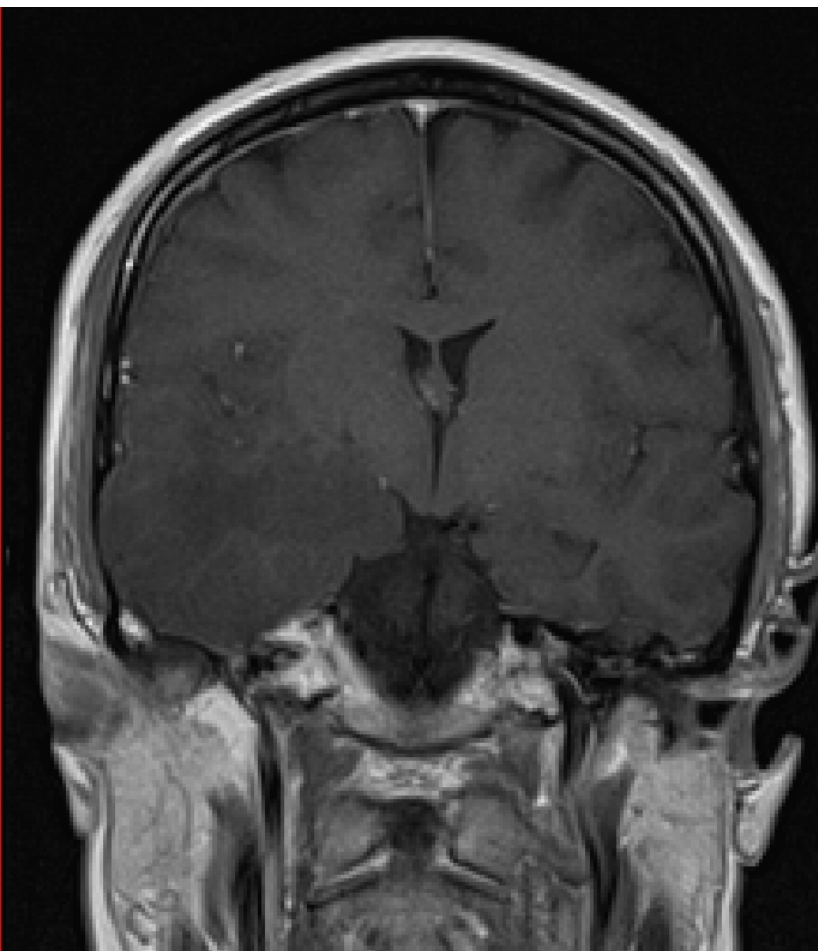
IDH1

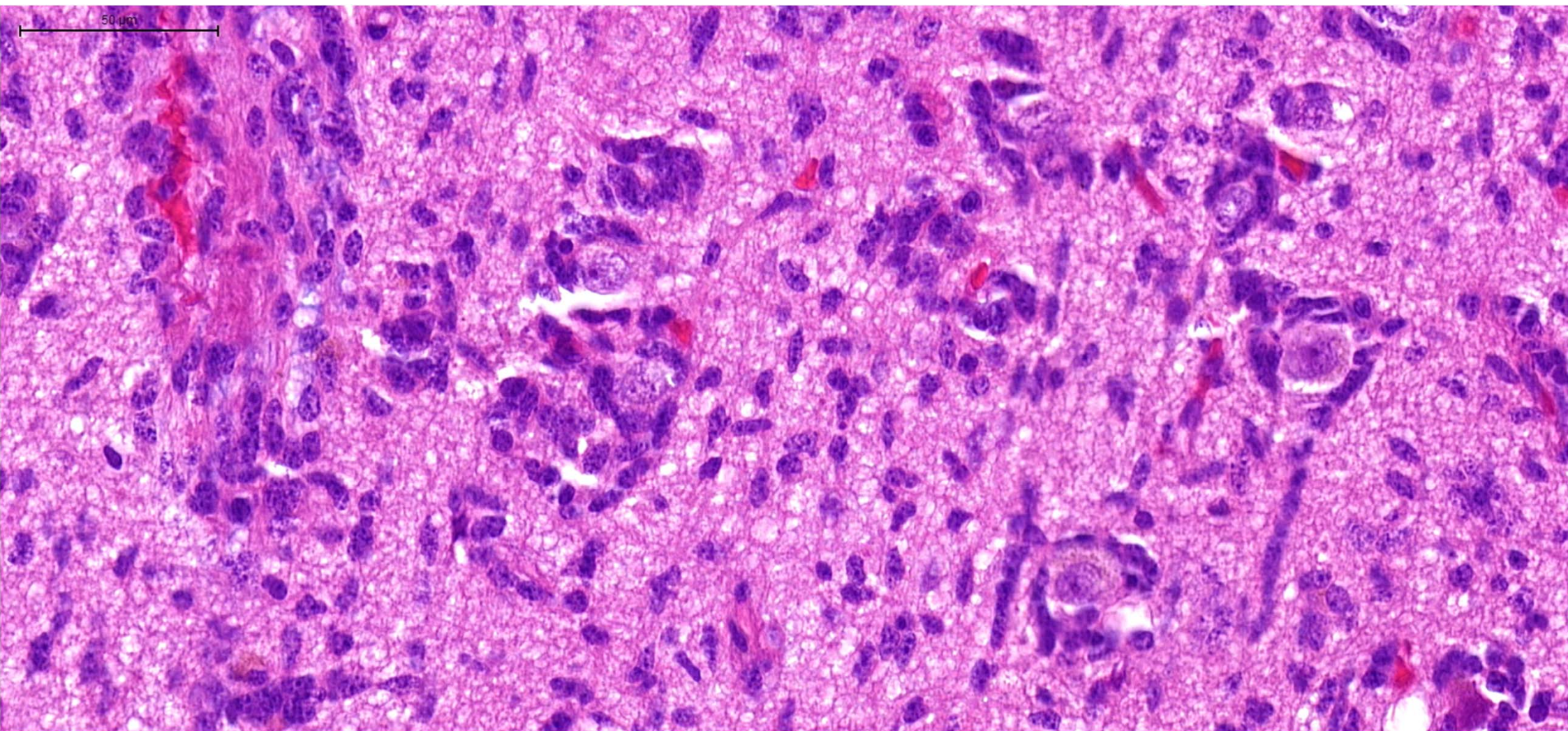


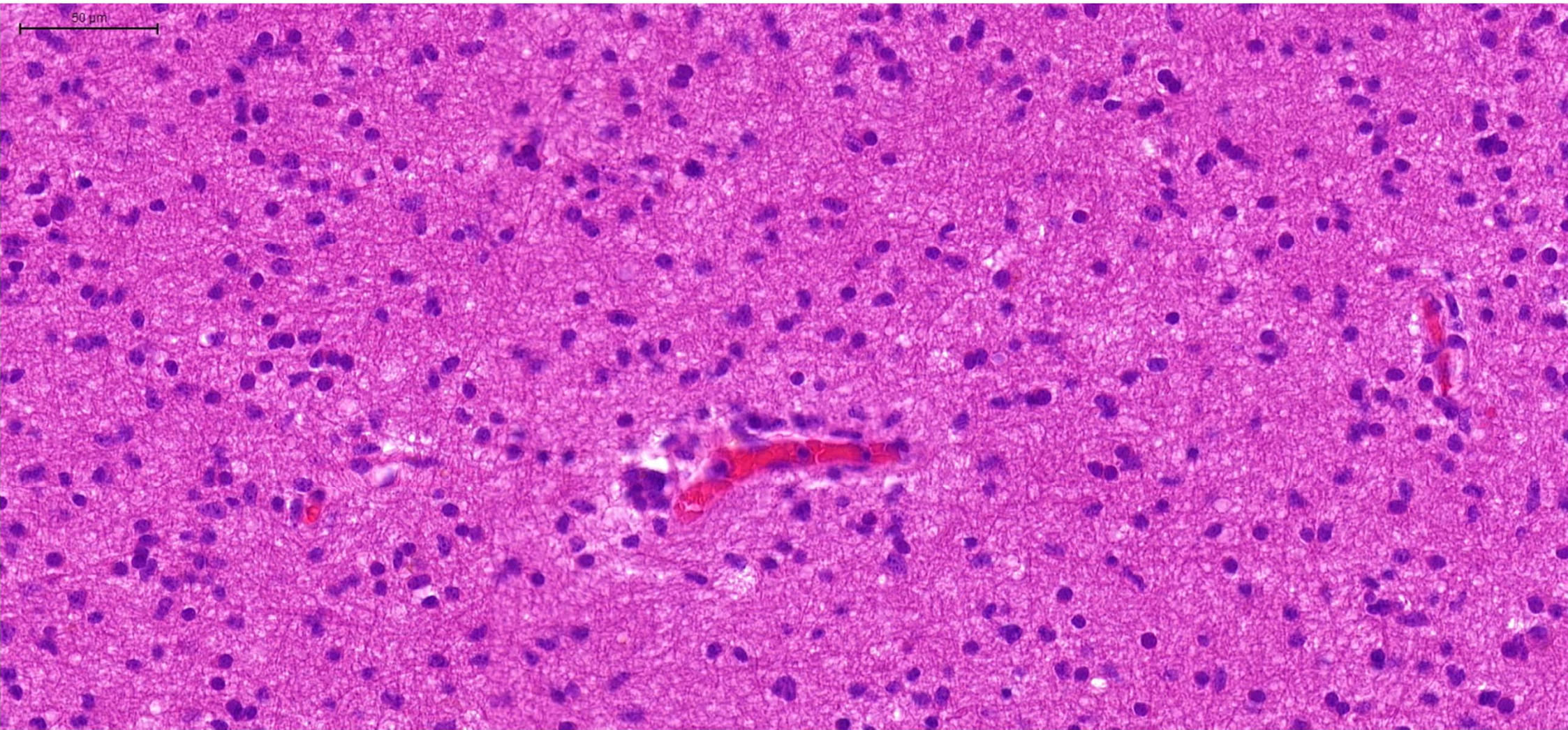
ATRX

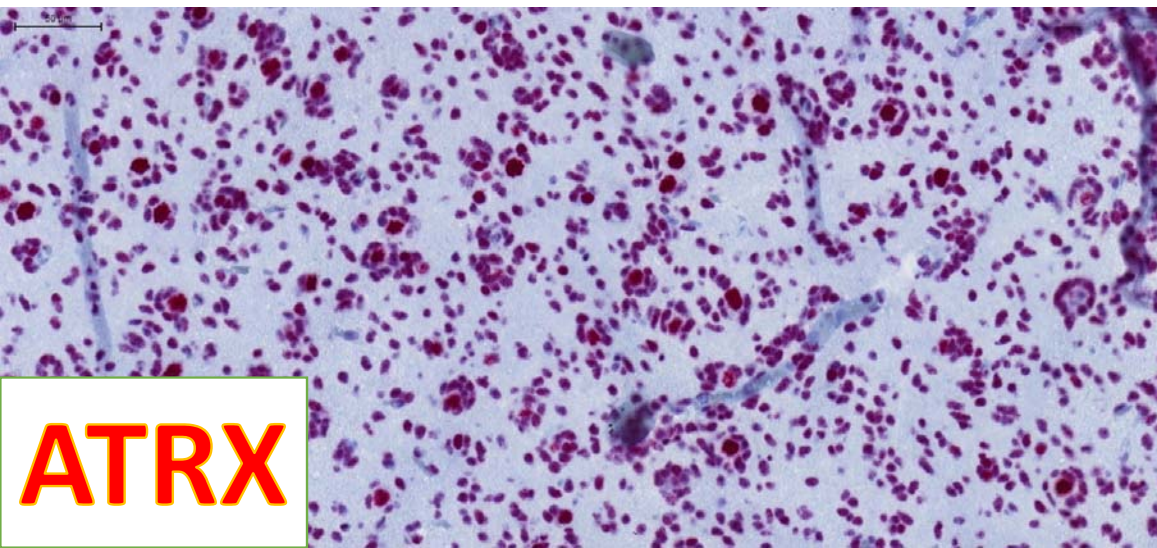
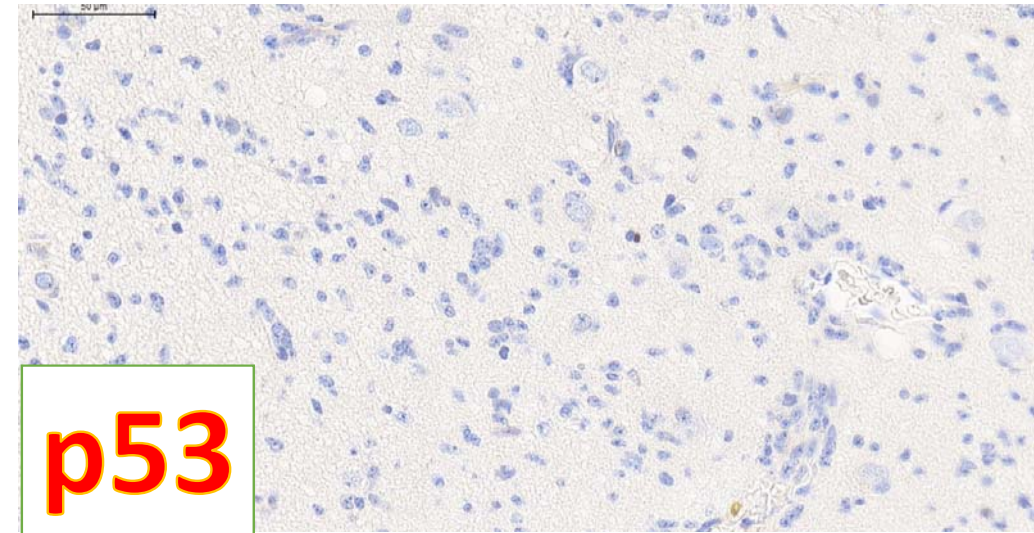
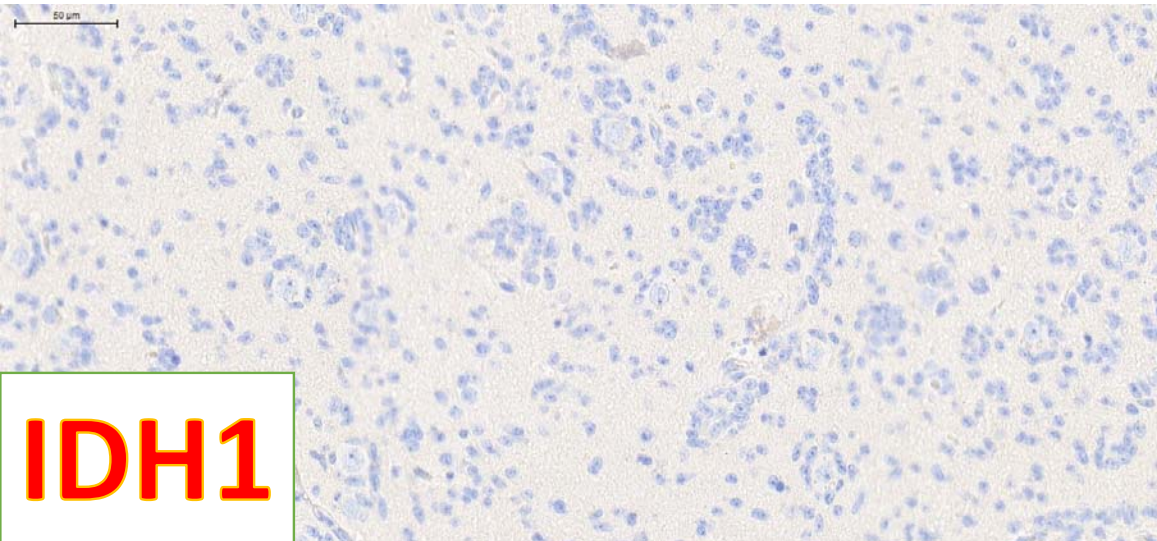
**Glioblastóm, WHO grade IV
(s ODG-like částami)**

- 34-ročná žena
- tumor temporálneho laloka vpravo









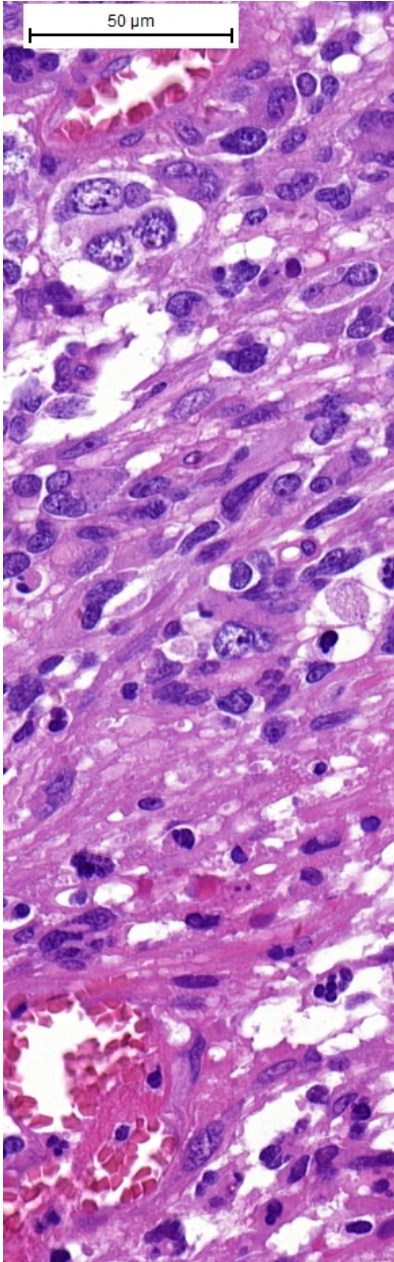
LOH 1p/19q negatívne

Bez mutácie IDH1/2

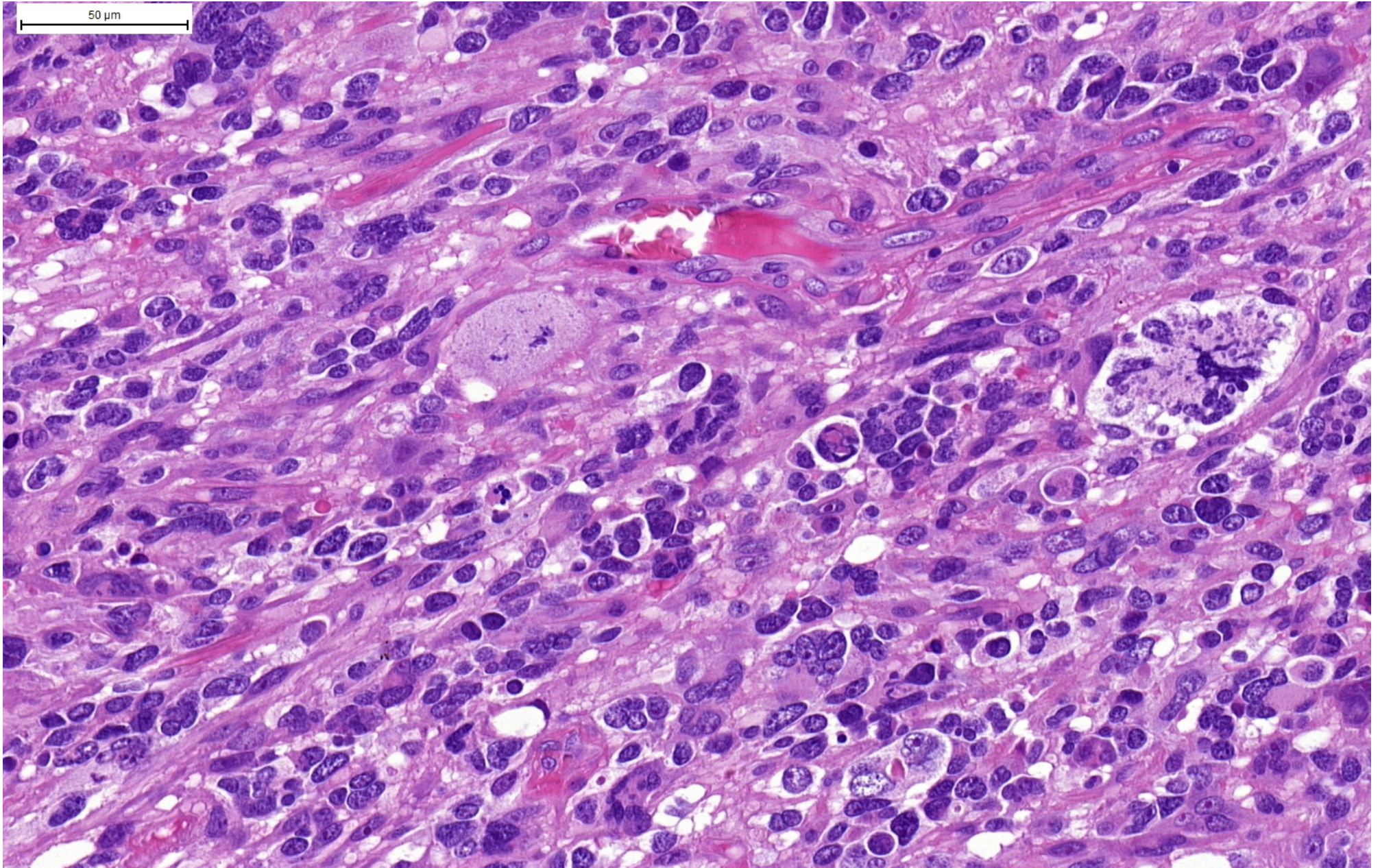
**Difúzny astrocytóm, WHO grade II
IDH-wild type**

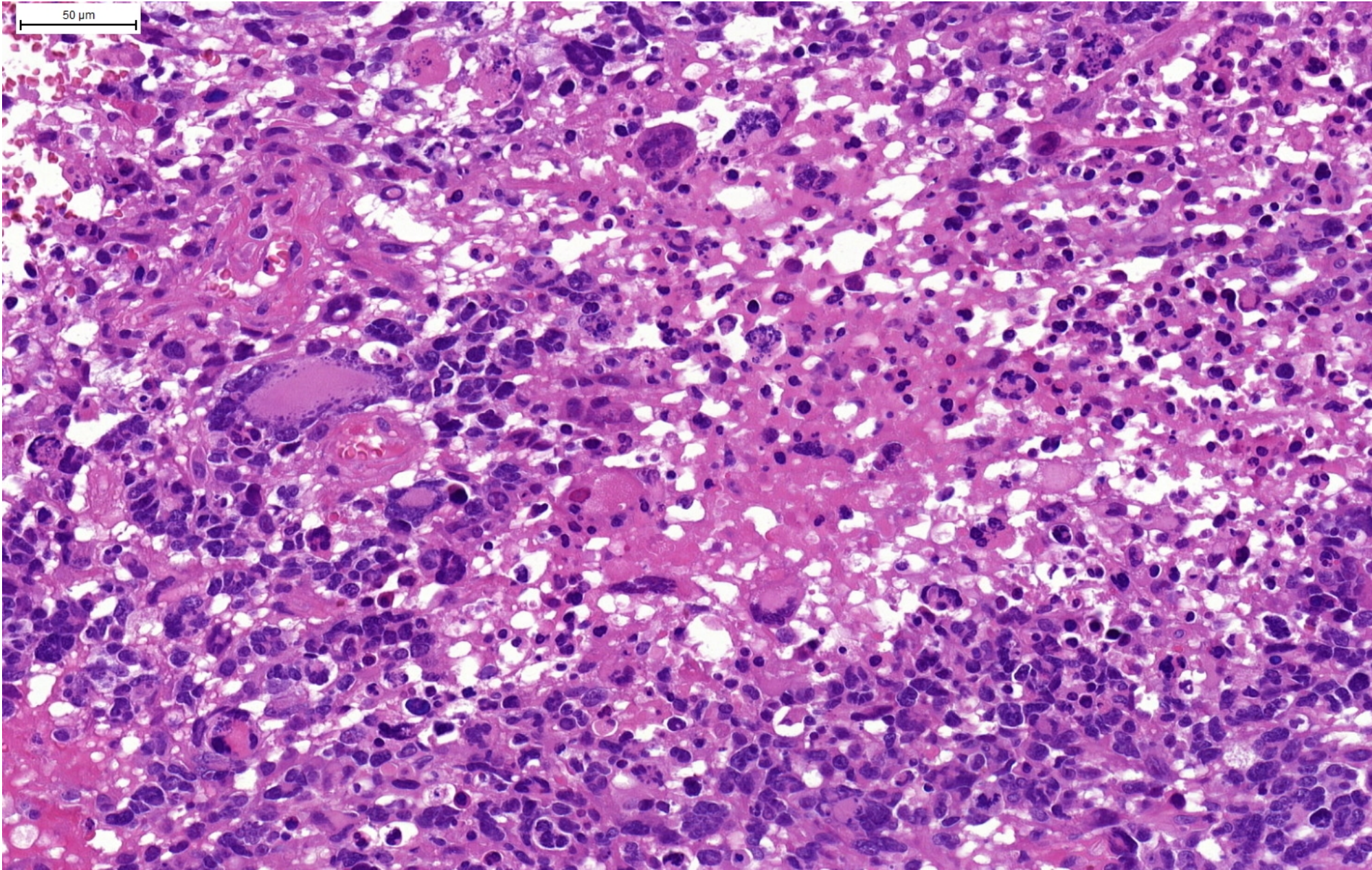
- 9 ročný chlapec,
- Tumor temporálneho laloka
- biopsia z roku 1961: pôvodná diagnóza GBM

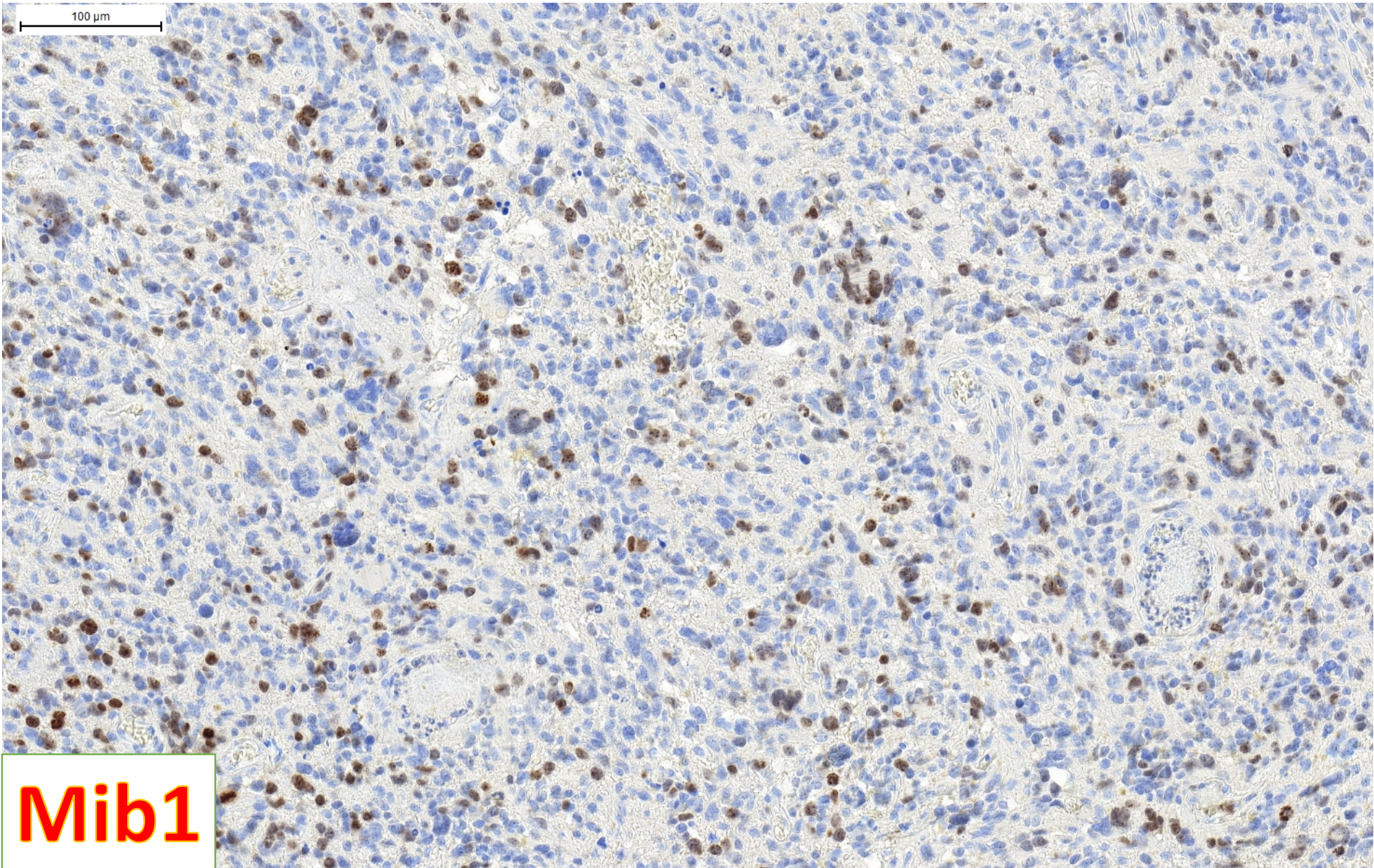
Prvý CT sken mozgu: 1.októbra 1971
MRI komerčne dostupné v roku 1984



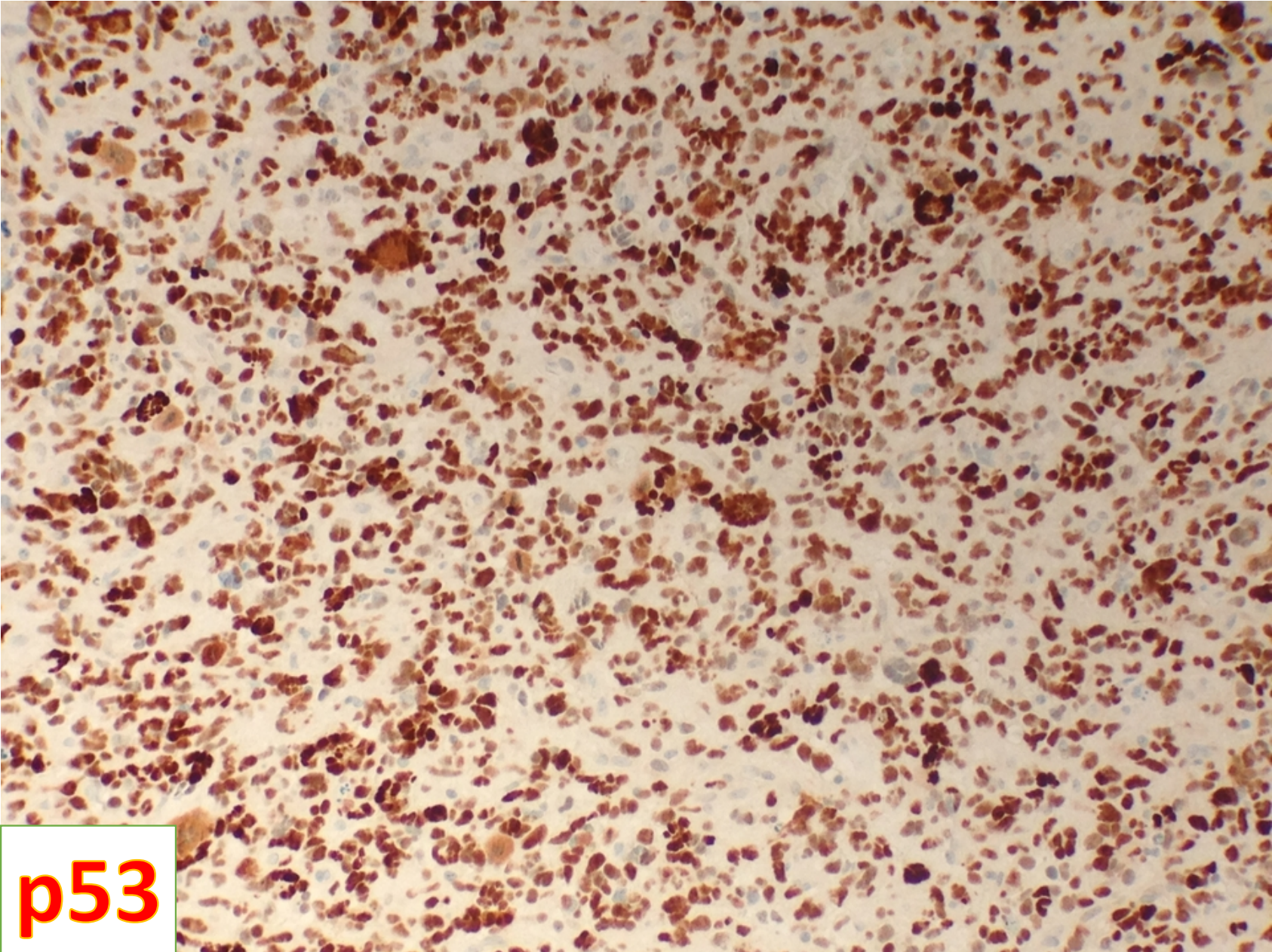
2015: pacient má 63 rokov (54 rokov od diagnózy)
Pleomorfný xantoastrocytóm (atypický)?!







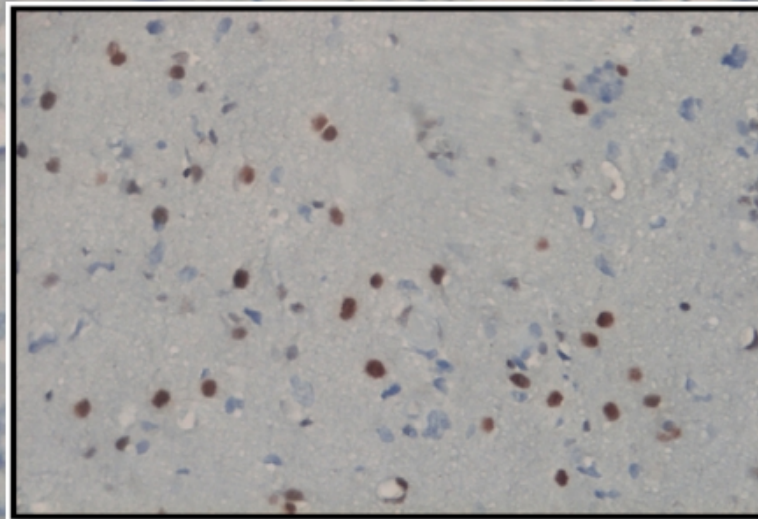
Mib1



ATRX

IDH1-
CD34-
Retikulín-

Glioblastóm, WHO grade IV



Ďakujem za pozornosť

svajdler@yahoo.com