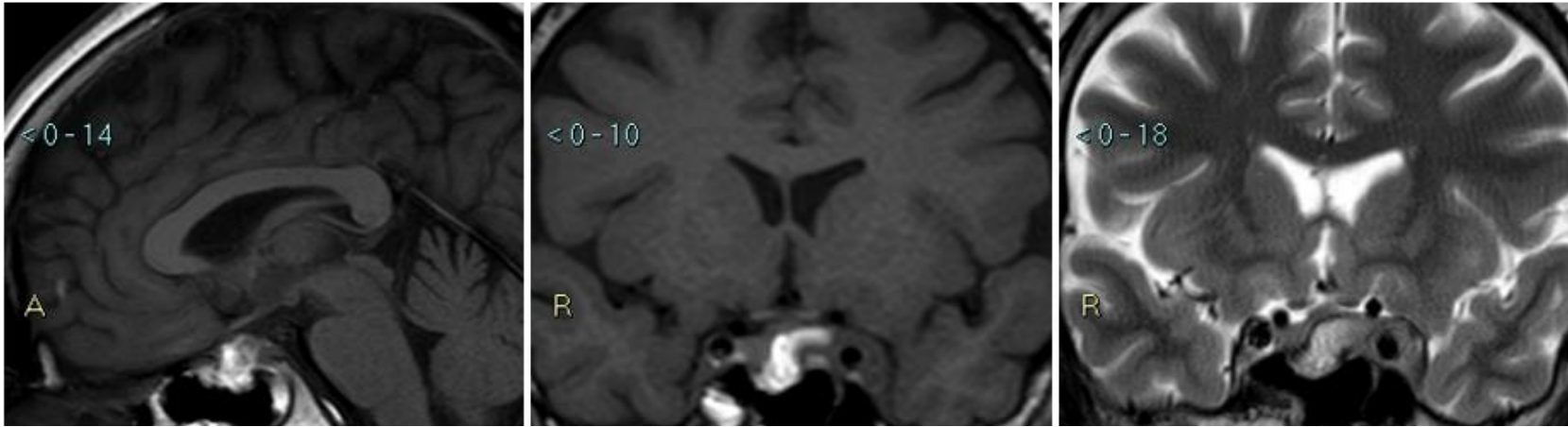


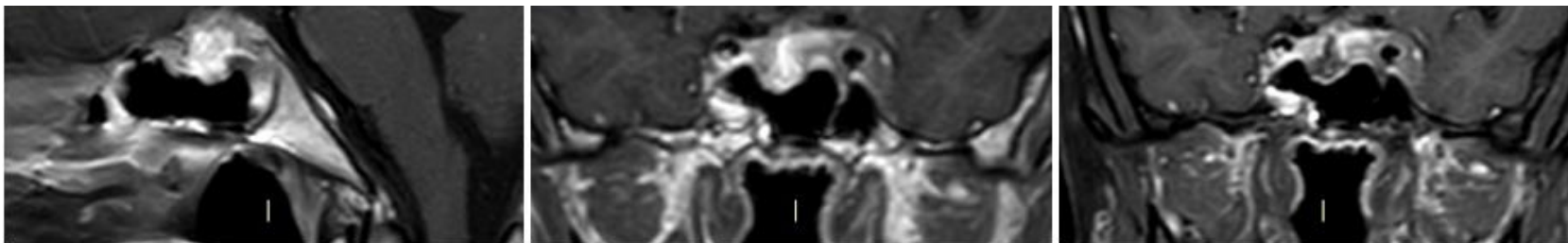
CLINICAL INFORMATION

- 44-years-old, female
- No relevant clinical history
- Recent pregnancy
- Symptoms (started 6 months after delivery)
 - headache
- Clinical examination and laboratory tests
 - 3° and 6° cranial nerves palsy
 - preserved pituitary function

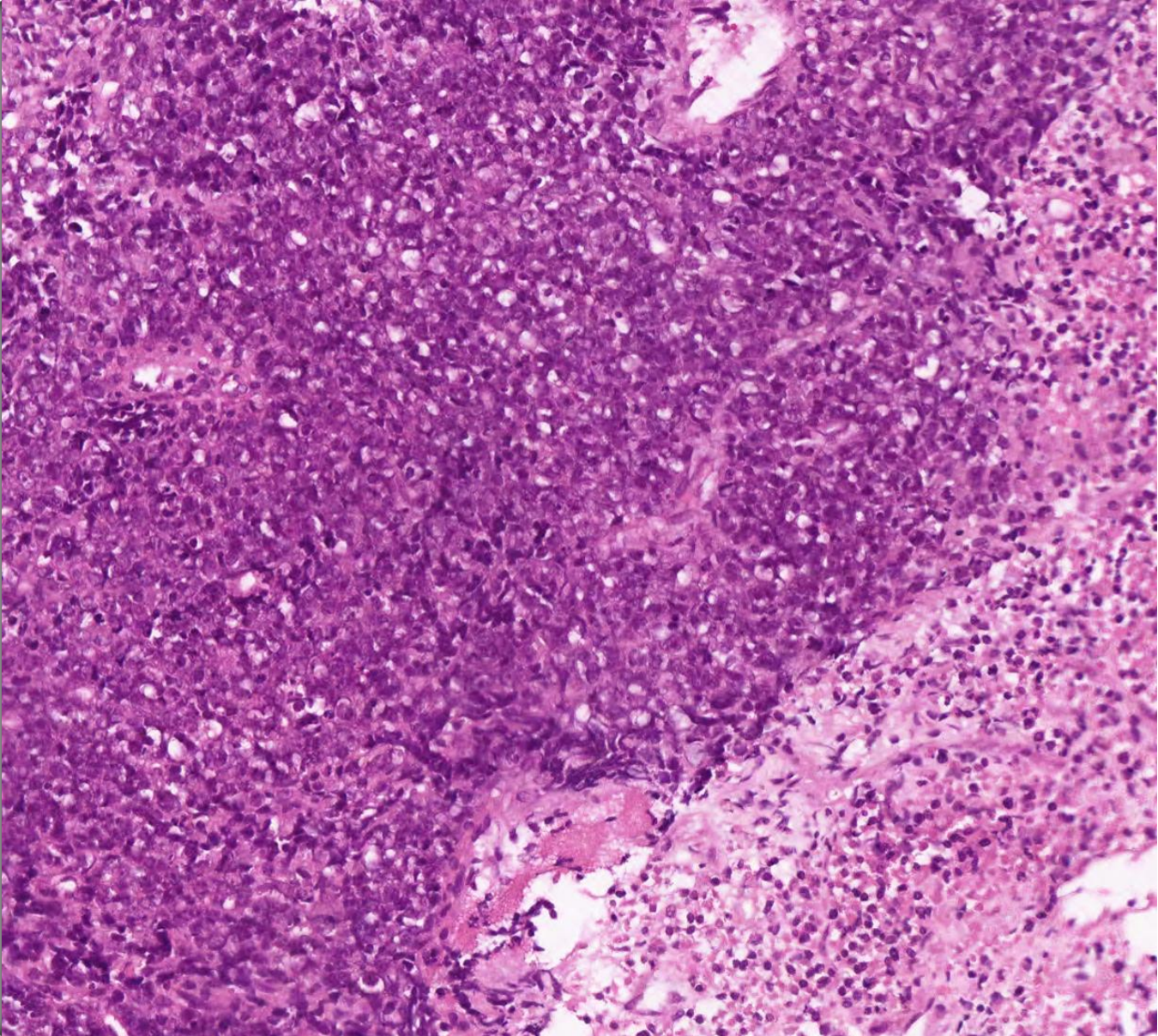
MRI



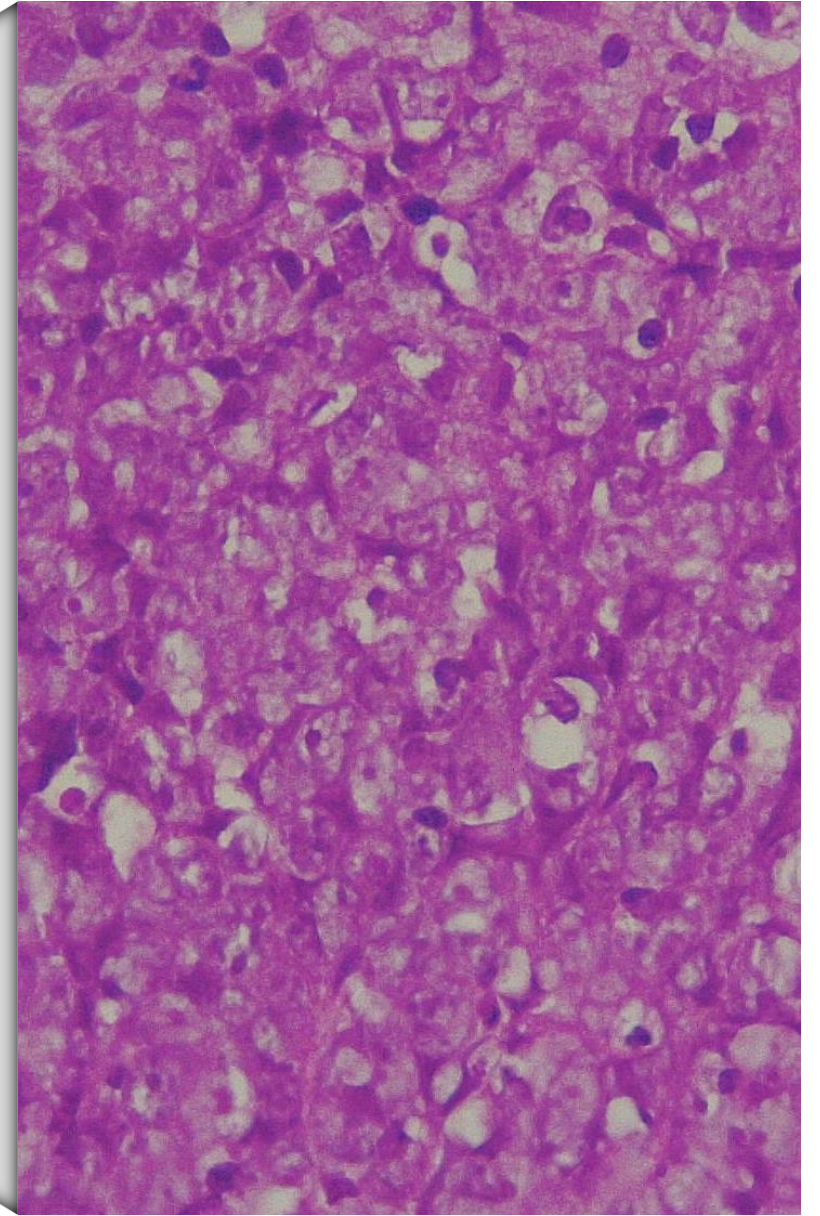
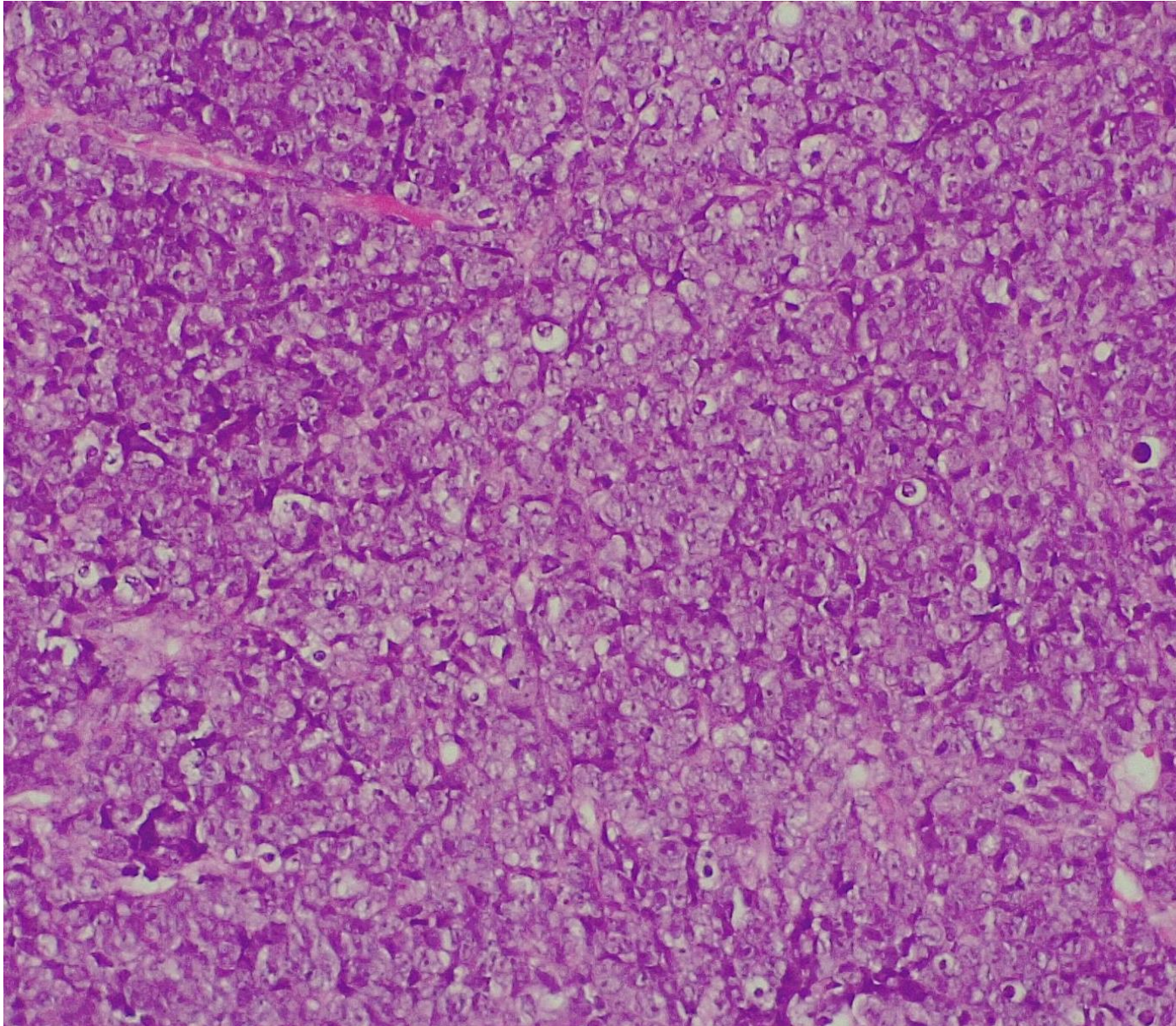
- Trans-sphenoidal surgery
- Adjuvant chemotherapy and radiation therapy
- DOD 11 months after surgery



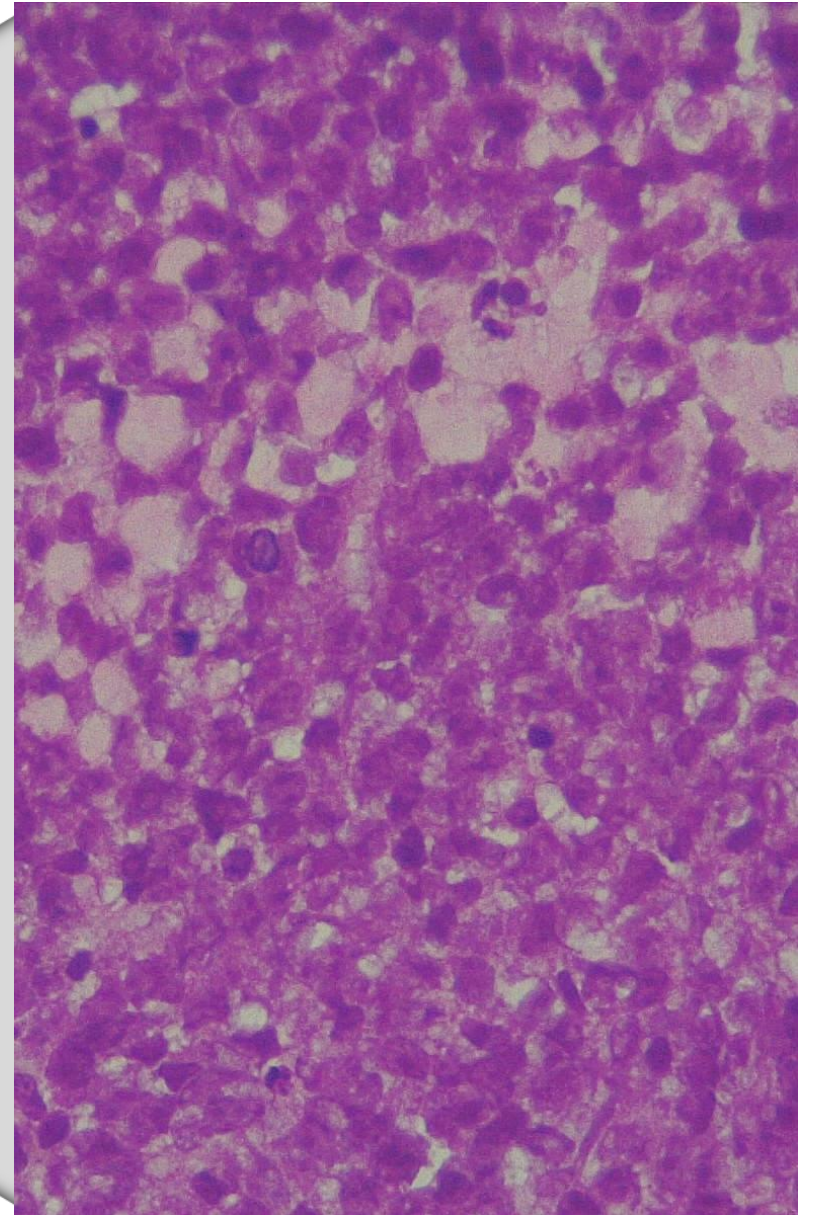
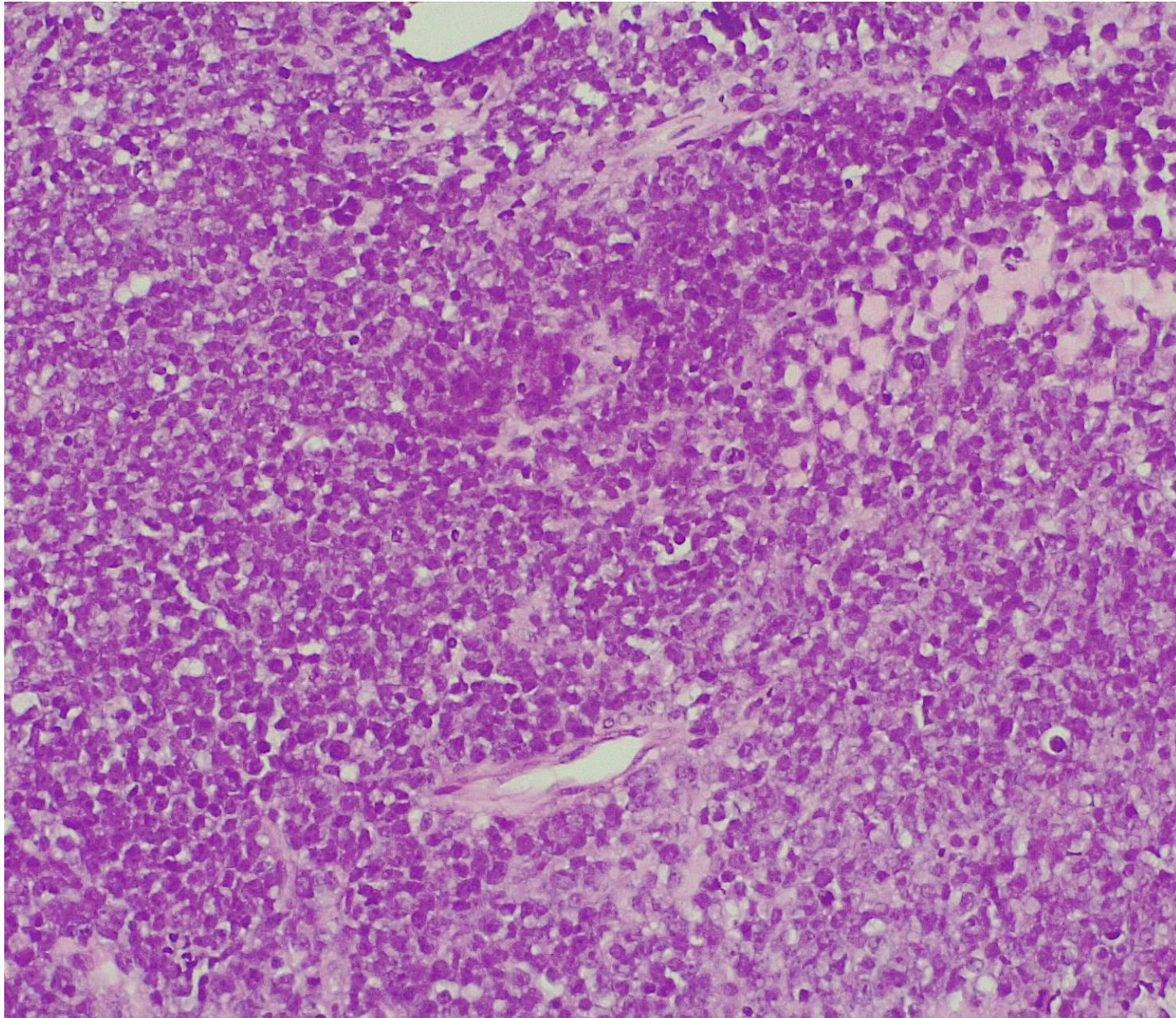
MICROSCOPIC EXAMINATION



MICROSCOPIC EXAMINATION (2)



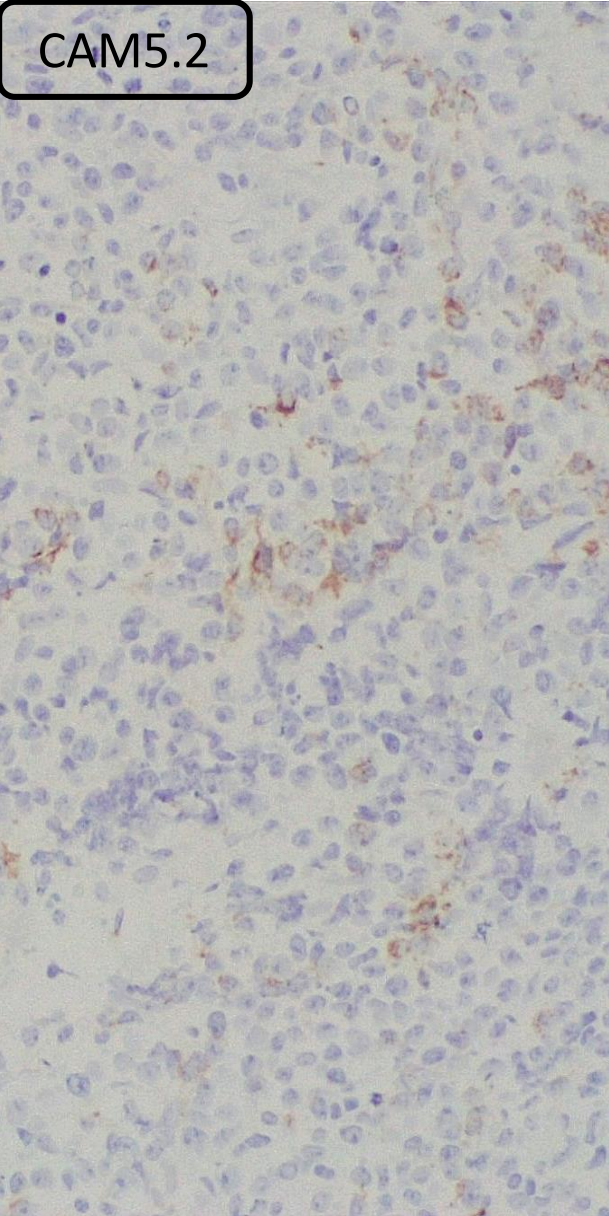
MICROSCOPIC EXAMINATION (3)



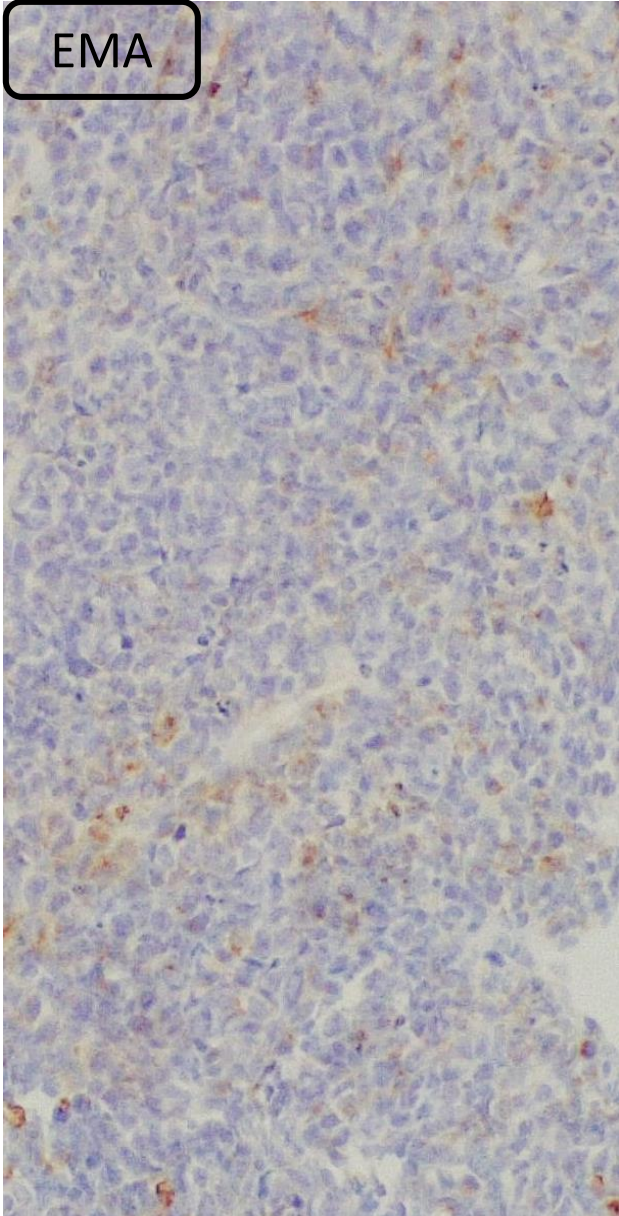
DIAGNOSIS?

IMMUNOHISTOCHEMICAL STAINS (1)

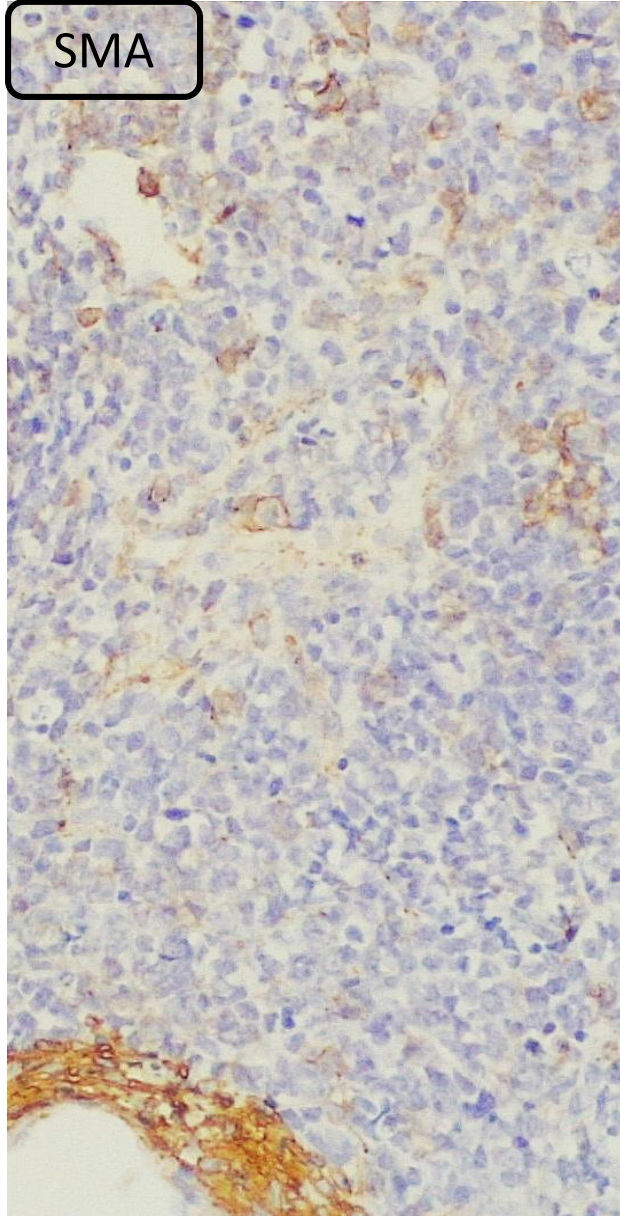
CAM5.2



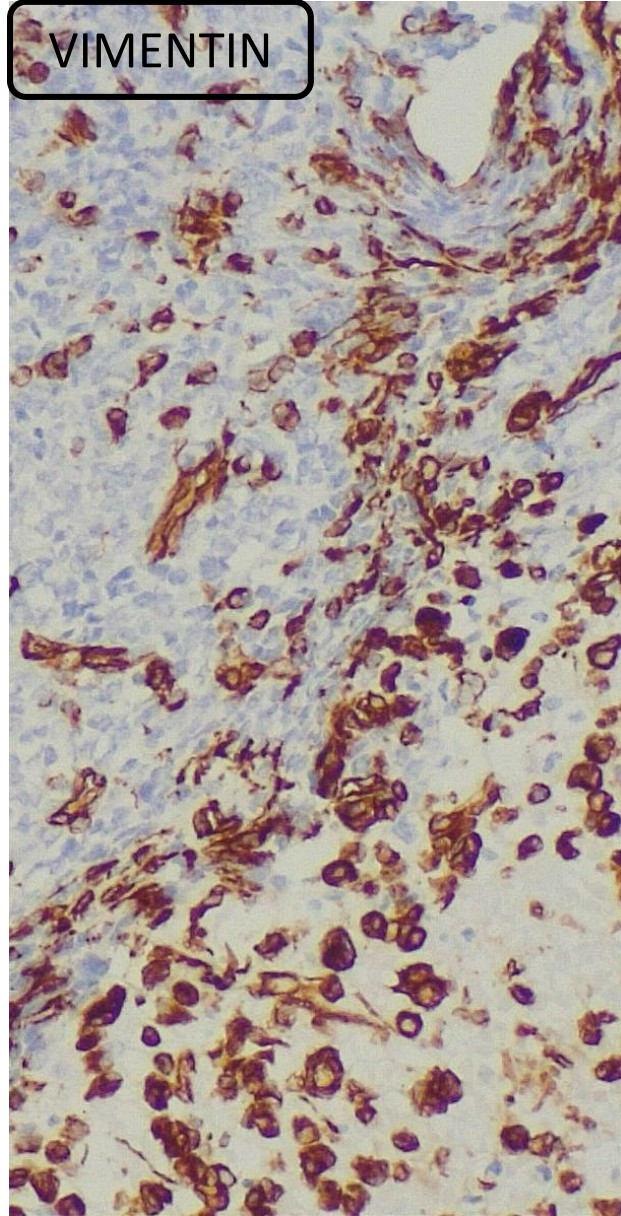
EMA



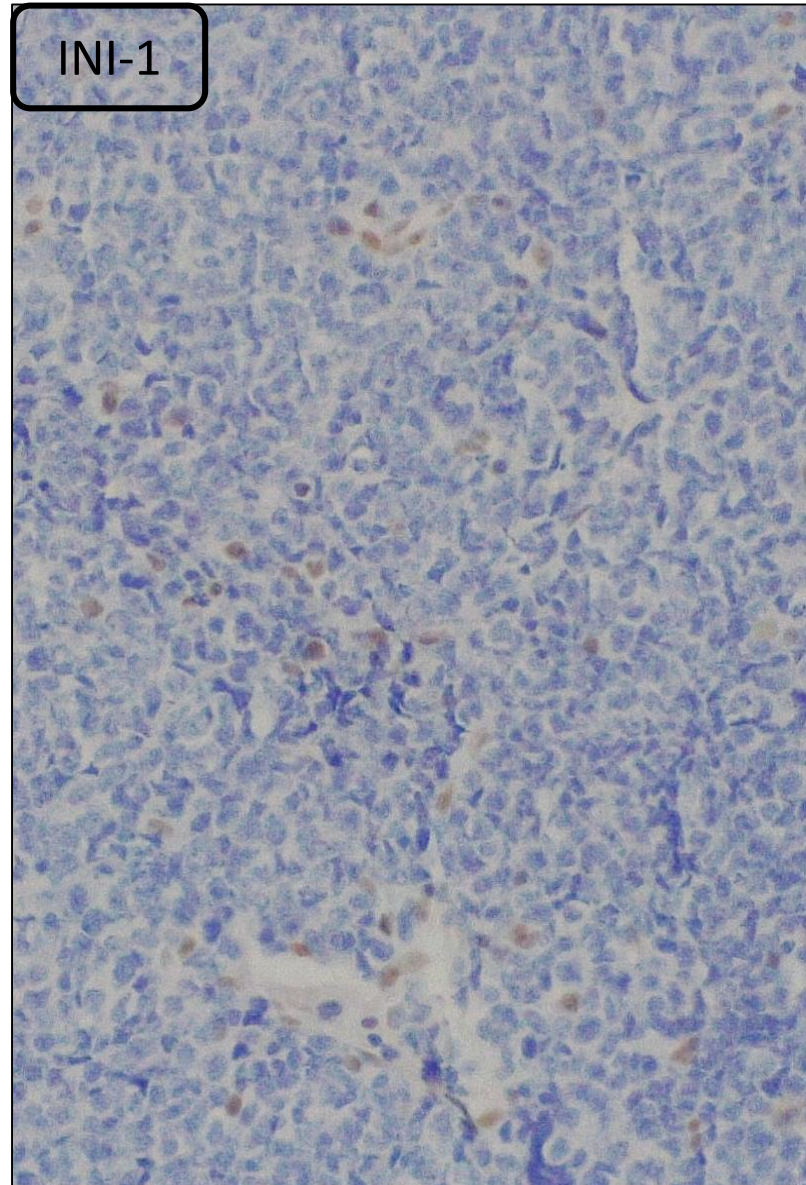
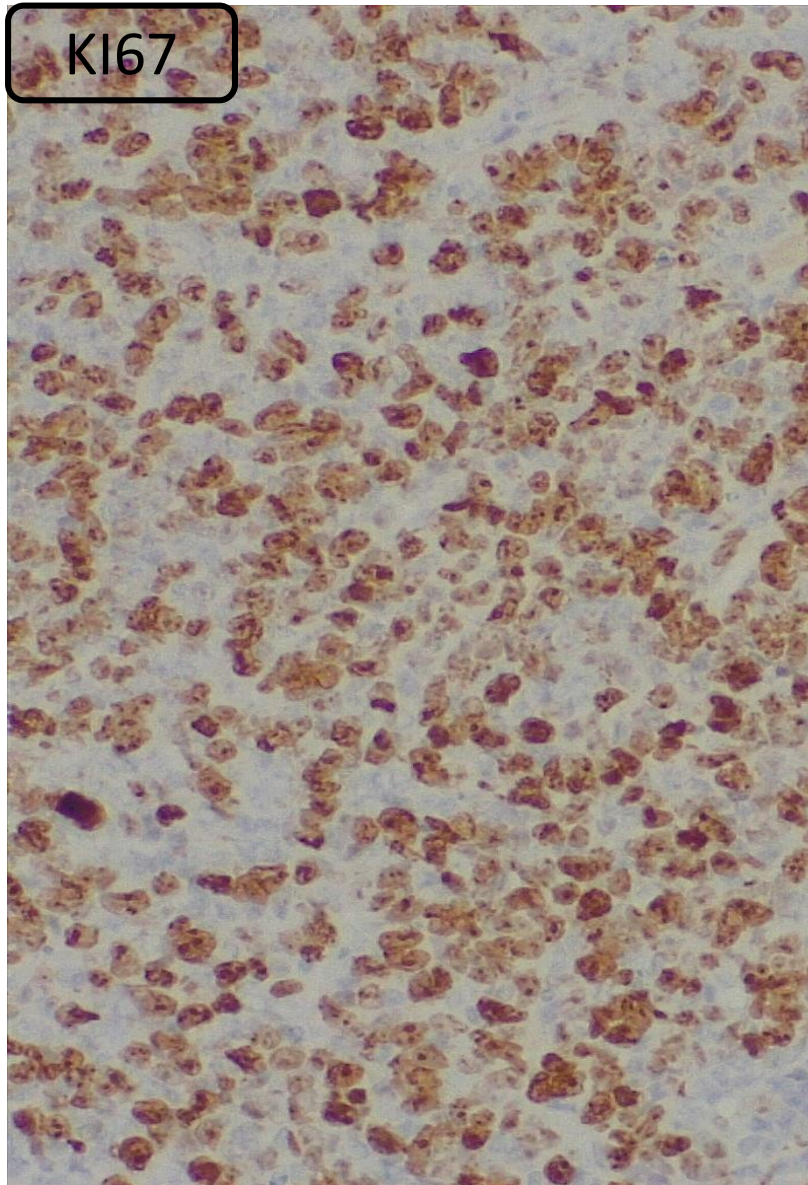
SMA



VIMENTIN



IMMUNOHISTOCHEMICAL STAINS (2)



GFAP: -
OLIG2: -
CK7, CK19, CK20: -
CD56: -+
CHROMOGRANIN: -
SYNAPTOPHYSIN: -
NSE: -
CD45, CD3, CD20: -
CD117: --+
MART1: -
S100: -
TTF1: -

ATYPICAL TERATOID/RHABDOID TUMOR OF THE SELLAR REGION

REVIEW OF THE LITERATURE

<i>Case</i>	<i>Reference</i>	<i>Year</i>	<i>Sex</i>	<i>Age</i>	<i>Extent of resection</i>	<i>RT</i>	<i>CHT</i>	<i>Last follow-up status</i>
1	Kuge et al., Nakata et al.	2000; 2017	F	32	STR	Y	Y	28 mo, DOD
2	Raisanen at al.	2005	F	20	-	Y	Y	28 mo, alive
3	Raisanen at al.	2005	F	31	-	Y	N	9 mo, DOD
4	Arita et al, Nakata et al, Johann et al.	2008; 2017; 2018	F	56	STR	Y	N	23 mo, DOD
5	Las Heras et al.	2010	F	46	-	-	-	-
6	Schneiderhan et al, Johann et al.	2011; 2018	F	61	STR	N	N	3 mo, DOD
7	Schneiderhan et al.	2011	F	57	GTR	Y	Y	6 mo, alive
8	Moretti et al.	2013	F	60	STR	Y	Y	30 mo, DOD
9	Chou et al.	2013	F	43	-	Y	Y	2 weeks, paraplegia
10	Park et al.	2014	F	42	STR	Y	Y	27 mo, alive
11	Shitara et al, Nakata et al	2014; 2017	F	44	STR	Y	Y	17 mo, DOD
12	Biswas et al	2015	F	48	GTR	N	Y	2 mo, DOD
13	Lev et al.	2015	F	36	-	Y	Y	29 mo, DOD
14	Larràn Escandòn et al.	2016	F	43	-	N	N	25 days, DOD
15	Nobusawa et a., Nakata et al, Johann et al	2016; 2017; 2018	F	69	STR	Y	Y	38 mo, alive
16	Almalki et al.	2017	F	36	STR	Y	Y	37 mo, alive
17	Nakata et al.	2017	F	26	-	Y	Y	33 mo, DOD
18	Nakata et al.	2017	F	21	-	Y	Y	35 mo, DOD
19	Johann et al.	2017	M	66	-	-	-	54 mo, alive
20	Barresi et al.	2017	F	59	STR	Y	N	2 mo, DOD
21	Nishikawa et al.	2017	F	42	STR	Y	Y	11 mo, DOD
22	Paolini at al.	2018	F	31	STR	N	N	2 mo, DOD
23	Paolini at al.	2018	F	36	STR	Y	Y	22 mo, alive
24	Paolini et al., Johann et al.	2018	F	46	-	N	N	Postoperative death
25	Paolini et al.	2018	F	47	STR	Y	Y	22 mo, alive, progression free
26	Paolini et al.	2018	F	65	STR	Y	Y	23 mo, DOD
27	Johann et al.	2018	F	20	-	-	Y	120 mo, DOD
28	Johann et al.	2018	F	48	-	-	-	4 mo, alive
29	Asmaro et al.	2019	F	62	-	N	N	2 mo, DOD
30	Present case	2019	F	44	STR	Y	Y	11 mo, DOD

SELLAR ATRT, RELEVANT POINTS

- Adult patients
- Female predominance
- One case in a patient with previous history of lactotroph adenoma
- Heterogeneous morphology
 - haemangiopericytoma–like vessels
- Poliphenotypic immunoreactivity
- Mutational spectrum of *SMARCB1* different from pediatric ATRT
- Absence of recurrent chromosomal alterations (except 22q)
- DNA methylation similarities with pediatric ATRT of the ATRT-MYC subgroup
- Estimated median survival (30 months) longer than pediatric ATRT (11 months)

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