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 D.O.B : 2021 Sex : female Phone no : -  
 Accession no : 202620045 D. submitted : 10/05/2026 08:33  
 Referring physician : Dr. Zauberman Yakov D. procedure : 08/05/2026  
 Department/Clinic : Neurosurgery Department E.K. Sign out date : 12/05/2026

Specimen submitted

Brain lesion, temporal, left, open biopsy.

Clinical information

Posterior fossa lesion, suspected medulloblastoma, with extensive supratentorial and infratentorial leptomeningeal spread.

Additional pathology records

C"ע-C202602068

Pathology ReportPathology , gross

The specimen is received in formalin in a container labeled with the patient's name and no other specification. It consists of small tissue fragments, total volume 0.4 ml. Entirely submitted for histological examination and embedded in one paraffin block.

Pathology , microscopic

Paraffin embedded sections (stained with H&E, Retic, and immunohistochemical stains for MAP2, INSM1, Synaptophysin, Chromogranin, NF, NeuN, LIN28A, GFAP, OLIG2, YAP1, GAB1, Beta-catenin, Desmin, MART1, panCK(MNF116), INI1, BRG1, p53, Vimentin, MIB1(Ki67), EMA, LEF1, NKX2.2, DICER1, H3K27me3, ELP1, p75-NGFR, TTF1, TdT, BCOR) display small fragments of cerebral tissue (including leptomeninges, cortex and subcortical white matter), with leptomeningeal spread of a neuroepithelial neoplasm characterized by sheets of "small cells" with occasional nuclear molding. Crush/cautery artifacts evident. No clear cut rosettes identified. No microvascular proliferation seen. No necrosis seen. Retic histochemical stain highlights nested-like pattern, compatible with leptomeningeal spread, but the neoplastic cells are reticulin fiber "poor", and there is no desmoplastic/nodular pattern on additional stains. On immunohistochemical stains, the neoplastic cells are variably positive for INSM1 (patchy, weak), MAP2 (variable intensity), Synaptophysin (weak), Chromogranin (dot-like, equivocal), and negative for YAP1, GAB1, p75-NGFR, LEF1, OLIG2 (highlights native oligodendrocytes), LIN28A, MART1, NKX2.2, panCK(MNF116), EMA



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(no dot-like/ring-like structures seen), Desmin, TdT, NF, NeuN, TTF1, BCOR, GFAP, Vimentin. There is cytoplasmic immunoreactivity for Beta-catenin, but no nuclear immunoreactivity is evident. There is immunoreactivity for p53 in few scattered cells, favor wildtype staining pattern. Immunoreactivity for INI1, BRG1, DICER1, ELP1, H3K27me3 is apparently retained. The MIB-1(Ki67) proliferation index is about 25%.

**Pathological diagnosis**

Brain lesion, temporal, left, open biopsy:

Compatible with the clinical/imaging impression of leptomeningeal spread of medulloblastoma, classic, CNS WHO grade 4, favor non-WNT/non-SHH molecular group.

**Comment:**

Correlation with molecular testing (e.g. DNA-methylation profiling, next-generation sequencing) is highly advised.

Dr. Fellig Yakov \_\_\_\_\_

**Report Electronically Signed out:12/05/2026**

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