

# Primary intraventricular synovial sarcoma

A case of recurrent primary intraventricular [synovial sarcoma](#) of the brain with no extracranial primary, initially reported as a [haemangiopericytoma](#). McCool et al. believe this is the first reported case of primary intraventricular synovial sarcoma at this site.

A 27-year-old male presented to hospital with a new onset of [seizures](#). Imaging revealed a left ventricular [trigone](#) mass with surrounding [edema](#). He underwent a left occipito-temporal craniotomy and resection with the histology reported as haemangiopericytoma. Resection was followed by adjuvant [radiation](#) treatment. Seven years later follow-up imaging revealed a 4 mm contrast enhancing lesion in the previous surgical bed. The patient underwent resection. Histological analysis of the recurrence revealed a spindle cell tumour with a SS18 gene rearrangement consistent with synovial sarcoma. Retrospective fluorescent in-situ hybridisation analysis of original histology also revealed a SS18 gene rearrangement consistent with a diagnosis of synovial sarcoma.

Conclusion: Synovial sarcoma should be included as part of the differential diagnosis for patients presenting with intraventricular spindle cell tumours in the brain <sup>1)</sup>.

<sup>1)</sup>

McCool A, Turner C, Turner S, Heppner P, Saran F. Primary intraventricular synovial sarcoma of the brain with recurrence - case presentation. BMC Neurol. 2022 Dec 1;22(1):447. doi: 10.1186/s12883-022-02975-w. PMID: 36456921.

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