Giant solid cerebellar hemangioblastomas are rare lesions. Surgery is the treatment of choice for these highly vascular lesions, and preoperative embolization helps in reducing the blood loss during surgery.\(^1\) We describe a case of giant solid cerebellar hemangioblastoma that was excised en bloc without preoperative embolization.

A 45-year-old woman presented with history of headache, vomiting, and gait ataxia. Neurologic examination was normal except for cerebellar ataxia. Magnetic resonance imaging (MRI) (►Fig. 1A, B) revealed a large cerebellar lesion of size 3.6 × 3 × 2.2 cm, which was hyperintense on T2-weighted images with multiple flow voids inside the lesion (►Fig. 1A, B) and isointense on T1-weighted images. Tonsillar herniation was also noted. With the above imaging findings, possibility of giant solid cerebellar hemangioblastoma was considered. Preoperative digital subtraction angiography (DSA) and embolization could not be done due to financial constraints. Midline suboccipital craniectomy and complete excision of the lesion were done. Large highly vascular midline cerebellar lesion was circumferentially dissected. All the feeders to the lesion were gently coagulated and cut. Lesion was excised en bloc (►Fig. 1C) with minimal blood loss (~600 mL). Postoperatively the patient was intact neurologically. Postoperative computed tomographic (CT) was normal. Biopsy was suggestive of hemangioblastoma. MRI at 3 months follow-up did not reveal any residual lesion. The patient was asymptomatic, except for pseudomeningocele, which was managed conservatively.

Surgery for giant solid cerebellar hemangioblastomas is technically challenging as surgery for these lesions can be associated with massive blood loss, and circumferential dissection for en bloc resection of such huge lesions is difficult.\(^1\) Sultan et al, in their series of 10 patients, reported preoperative total or near-total endovascular occlusion of giant solid cerebellar hemangioblastomas in 90% (9/10) of cases and successful resection even piece meal rather than en bloc resection with minimal blood loss.\(^1\) As blood supply to these lesions is from critical vessels such as posterior inferior cerebellar artery (PICA), risk of vertebrobasilar infarction from thromboembolic events during endovascular embolization exist.\(^2\) A high complication rate of 11.7% following preoperative embolization of intracranial hemangioblastomas was reported in a systematic review.\(^2\) To overcome the limitations of endovascular embolization, a technique of direct trancranial puncture of lesion under angiographic guidance and injection of onyx followed by successful resection has been reported.\(^3\) Radiosurgery for solid hemangioblastomas is limited to smaller lesions (<3 cm) which cannot be resected.\(^4\) Considering the complications associated with preoperative embolization and high cost involved in these procedures, en bloc excision of giant solid cerebellar hemangioblastomas is a reasonably safe option.

**Fig. 1** (A, B) Axial T2-weighted images showing a large cerebellar vermis hyperintense lesion with multiple flow voids. (C) En bloc resected specimen.
References


