

Pigmented Villonodular Synovitis

Pigmented villonodular synovitis (PVNS) is a benign but aggressive lesion arising from synovia. The temporomandibular joint (TMJ) is hardly ever involved. **Methods** We describe a case of PVNS arising in the left TMJ involving infratemporal fossa soft tissue and the skull base; we also present the reconstruction. **Results** A 37-year-old woman had progressive mandibular swelling for 6 months. Computed tomography of the skull revealed an osteolytic lesion in the left TMJ, involving the upper mandible, condyle, and glenoid fossa and extending to the infratemporal fossa and fossa media through a defect in temporal bone. Surgical management included a left pterional craniotomy to reach the temporal skull base and resect the intracranial tumor and a facial approach with partial left mandibulectomy and resection of left condyle, glenoid fossa, and tumor removal in infratemporal fossa. Mandible function was restored with prosthetic reconstruction of the condyle. She progressively started to eat solid foods after 3 months, becoming increasingly functional and asymptomatic. At 30 months' follow-up, she had no sign of tumoral recurrence and showed asymptomatic and normal TMJ function. **Conclusion** PVNS should be considered in the differential diagnosis of bone neoplasms affecting young patients. In such cases, radical excision is mandatory and TMJ prosthesis for local reconstruction may be used to preserve functionality ¹⁾.

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Vellutini EAS, Alonso N, Arap SS, Godoy LFS, Souza E Souza RA, Mattedi RL, de Oliveira MF. Functional Reconstruction of Temporomandibular Joint after Resection of Pigmented Villonodular Synovitis with Extension to Infratemporal Fossa and Skull Base: A Case Report. Surg J (N Y). 2016 Aug 10;2(3):e78-e82. doi: 10.1055/s-0036-1587693. eCollection 2016 Jul. PubMed PMID: 28824995; PubMed Central PMCID: PMC5553471.

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