

Solitary bone plasmacytoma

Solitary plasmacytomas are localized single tumors of monoclonal plasma cells that occur in two variants: solitary plasmacytoma of bone and **extraosseous plasmacytoma**. Solitary plasmacytoma of bone accounts for only 1%-2% of plasma cell lesions, and extraosseous plasmacytoma is also approximately 1%. These are both very uncommon at the **skull base**. Welsh et al. report two cases of plasmacytic neoplasms at the skull base where the differential diagnosis included pituitary adenoma when the tumor was sellar/suprasellar, or other bone-related tumors such as chordoma/chondrosarcoma when clivus/sphenoid bones were involved. The use of cytologic preparations facilitated intraoperative diagnosis ¹⁾.

They occur as lytic lesions within the axial skeleton and extramedullary plasmacytoma (EP)s most often occur in the upper respiratory tract (85%), but can occur in any soft tissue. Approximately half of all cases produce paraproteinemia. SBPs and EPs are mostly treated with radiotherapy, but surgery is used in some cases of EP. The skeletal forms frequently progress to multiple myeloma over the course of 2-4 years.

Solitary bone **plasmacytoma** (SBP) may involve any **bone**, but they have a predisposition for the red marrow-containing axial skeleton:

see **Vertebral plasmacytoma**.

see **Skull plasmacytoma**.

Patients with long bone involvement may present with pathologic fracture.

A report describes the extremely rare manifestation of plasmacytoma of the **spinal cord** itself that therefore should be considered in the differential diagnosis of spinal cord mass lesions ²⁾.

¹⁾

Welsh CT, Baker TG, Allen CD, Roberts DR, Vandergrift WA. Cytology to More Clearly Distinguish Solitary Plasmacytoma at the Skull Base. Diagn Cytopathol. 2025 Jan 29. doi: 10.1002/dc.25446. Epub ahead of print. PMID: 39878086.

²⁾

Hans FJ, Geibprassert S, Krings T, Weis J, Deckert M, Ludolph A, Osieka R, Jost E. Solitary plasmacytoma presenting as an intramedullary mass of the cervical cord. J Neurol Surg A Cent Eur Neurosurg. 2013 Dec;74 Suppl 1:e13-7. doi: 10.1055/s-0032-1320024. Epub 2012 Dec 11. PubMed PMID: 23233374.

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