

# Extradural spinal cord tumor

Arise in [vertebral body](#) or [epidural](#) tissue.

[Extradural tumors](#) are usually metastatic and most often arise in the vertebral bodies.

1. metastatic: comprise the majority of ED tumors

a) most are osteolytic (cause bony destruction): see [Spinal epidural metastases](#)

Common ones include:

- [lymphoma](#): most cases represent spread of systemic disease (secondary lymphoma); some cases may be primary

- [lung cancer](#)

- [breast cancer](#)

- [prostate cancer](#)

b) metastases that may be osteoblastic:

- in men: prostate Ca is the most common

- in women: breast Ca is the most common

2. primary spinal tumors (very rare)

a) [chordomas](#)

b) [osteoid osteoma](#)

c) [osteoblastoma](#)

d) [aneurysmal bone cyst](#) (ABC): an expansile tumor-like osteolytic lesion consisting of a highly vascular honeycomb of blood-filled cavities separated by connective tissue septa, surrounded by a thin cortical bone shell which may expand. Comprise 15% of spine tumors.

Etiology is controversial. May arise from preexisting tumor (including: osteoblastoma, giant cell tumor, fibrous dysplasia, chondrosarcoma) or following acute fracture. In the spine, there is a tendency to involve primarily the posterior elements. Peak incidence is in the second decade of life. Treatment usually consists of intralesional curettage. High recurrence rate (25–50%) if not completely excised

e) chondrosarcoma: a malignant tumor of cartilage. Lobulated tumors with calcified areas

f) osteochondroma (AKA chondroma AKA osteochondrogenous exostosis): benign tumors of bone that arise from mature hyaline cartilage. Most common during adolescence. An enchondroma is a similar tumor arising within the medullary cavity

g) vertebral hemangioma

h) giant cell tumors (GCT) of bone: AKA osteoclastoma

i) giant cell (reparative) granuloma: AKA solid variant of ABC.<sup>5</sup> Related to GCT. Occurs primarily in mandible, maxilla, hands and feet, but there are case reports of spine involvement.<sup>5,6</sup> Not a true neoplasm—more of a reactive process. Treatment: curettage. Recurrence rate: 22–50%, treated with re-excision

j) brown tumor of hyperparathyroidism

k) osteogenic sarcoma: rare in spine

### 3. miscellaneous

a) [plasmacytoma](#)

b) [multiple myeloma](#)

c) unifocal Langerhans cell histiocytosis (LHC), née eosinophilic granuloma: osteolytic defect with progressive vertebral collapse; LHC is one cause of vertebra plana. C-spine is the most commonly affected region. Individual LHCs associated with systemic conditions (Letterer-Siwe or Hand-Schüller-Christian disease) are treated with biopsy and immobilization. Collapse or neurologic deficit from compression may require decompression and/or fusion. Low-dose RTX may also be effective.

d) Ewing's sarcoma: aggressive malignant tumor with a peak incidence during the second decade of life. Spine mets are more common than primary spine lesions. Treatment is mostly palliative: radical excision followed by RTX (very radiosensitive) and chemotherapy

e) chloroma: focal infiltration of leukemic cells

f) angioliipoma: ≈ 60 cases reported in literature

g) neurofibromas: most are intradural, but some are extradural, usually dilate neural foramen (dumbbell tumors)

h) Masson's vegetant intravascular hemangioendothelioma

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Last update: **2024/06/07 02:53**

