

Osteoid osteoma

Osteoblastoma is a rare, benign, locally recurrent tumor with a predilection for the spine that may rarely undergo sarcomatous change (to [osteosarcoma](#), ¹⁾ only a handful of known cases of this). More vascular than Osteoid osteoma ²⁾.

Key concepts

- [Osteoid osteoma](#) and [osteoblastoma](#) are benign [bone tumors](#)
- histologically identical, differentiation depends on size ≤ 1 cm = osteoid osteoma > 1 cm = osteoblastoma
- can occur in the [spine](#) and may cause neurologic symptoms (esp. osteoblastoma)
- high cure rate with complete excision

Classification

see [Intracranial osteoma](#).

see [Spinal osteoid osteoma](#).

Characteristically cause night pain and pain relieved by aspirin.

Clinical features

[Tenderness](#) confined to the vicinity of the lesion occurs in $\approx 60\%$. 28% of patients with BOB presented with myelopathy. OO presented with a neurologic deficit of only 22%.

Evaluation

[Bone scans](#) are a very sensitive means for detecting these lesions. Once localized, CT or MRI may better define the lesion in that region.

Caution regarding needle biopsy: if the lesion turns out to be [osteosarcoma](#), the contaminated needle tract can result in a worse prognosis.

Differential diagnosis

Lesions with similar symptoms and increased uptake on [radionuclide bone scan](#):

1. benign osteoblastoma
2. osteoid osteoma: more pronounced sclerosis of adjacent bone than BOB
3. osteogenic sarcoma: rare in spine
4. aneurysmal bone cyst: typically trabeculae in central, lucent region
5. unilateral pedicle/laminar necrosis

Osteoid osteoma

A radiolucent area with or without surrounding density, often isolated to pedicle or facet. May not show up on tomograms.

Osteoblastoma

Most are expansile, destructive lesions, with 17% having moderate sclerosis. 31% have areas of ↑ density, 20% surrounded by a calcified shell.

Often a contralateral [spondylolysis](#) ³⁾.

Treatment

In order to obtain a cure, these lesions must be completely excised. The role of radiation therapy is poorly defined in these lesions, but is probably ineffective ⁴⁾.

The cortical bone may be hardened and thickened, with a granulomatous mass in the underlying cavity.

¹⁾ , ³⁾ , ⁴⁾

Amacher AL, Eltomey A. Spinal Osteoblastoma in Children and Adolescents. Childs Nerv Syst. 1985; 1:29-32

²⁾
Lichtenstein L, Sawyer WR. Benign Osteoblastoma. J Bone Joint Surg. 1964; 46A:755-765

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