Giant Cell Tumor of the Spine: A Rare Cause of Cervical Pain

To the Editor,

The giant cell tumor (GCT) is a benign primary bone neoplasm that has a locally aggressive behavior, and is rarely found in the cervical spine, where it potentially may be serious due to the risk of neurological involvement. Some of the affected patients may initially be evaluated by the rheumatologist due to cervical pain, the motive that brought about this clinical case.

A 43-year-old, previously healthy woman presented with a sharp pain in the occipital and cervical regions with associated paresthesias in suboccipital and left retroauricular region (C2-C3 dermatomes). It had begun 9 months earlier. She was treated with analgesics, muscle relaxants and transcutaneous electrostimulation, but had noticed no improvement. Physical examination found an overall limitation to her cervical mobility and hypoesthesia in left C2-C3 dermatomes. The laboratory tests, including a complete blood count, biochemistry, acute-phase reactants (erythrocyte sedimentation rate [ESR] was 12 mm/h, her C-reactive protein [CRP] 3.78 mg/L), bone metabolism (Ca 8.7 mg/dL, P 3.2 mg/dL, 25 OH-vitamin D 39 ng/mL and parathyroid hormone 44 pg/mL) were normal. Lateral radiograph of the cervical spine (Fig. 1A) revealed the presence of an expansile lytic lesion occupying the C2 vertebral body. Computed tomography (CT) confirmed that the lesion totally replaced the bone marrow and interrupted the cortical (Fig. 1B and C). The lesion was hyperintense, the T2-weighted sequence of magnetic resonance imaging (MRI) reduced the caliber of the 2 holes linking C2-C3, showing areas of necrosis, fluid-fluid levels and peripheral enhancement (Fig. 1D and E). The patient was subjected to C1-C2-C3 arthodesis due to the cervical instability caused by the lesion, which was removed using a transpharyngeal route and the defect was filled with demineralized bone matrix. The histopathological study showed a proliferation of mono- and multinucleated cells with no nuclear atypia, frequent cavities full of red cells and foci of bone neoformation and osteoid deposition. These findings were consistent with GCT or an aneurysmal bone cyst (ABC). The pain and paresthesias improved after the procedure, but these symptoms became worse 8 months later. Radiograph and CT showed recurrence of the lesion, this time with associated retropharyngeal mass. Surgery was repeated to remove the C2 using a translabiomandibular approach and occipitocervical

---

Fig. 1. Lateral radiograph of the cervical spine (A) showing an expansile osteolytic lesion in the vertebral body of C2 with cortical insufflation (arrow). Sagittal (B) and axial (C) planes in cervical spinal computed tomography showing that the lesion totally replaced the bone marrow (arrow) and interrupted the cortical at the right posterolateral surface of the vertebral body (arrow). Sagittal view in T2-weighted sequences (D) and in T1 after gadolinium enhancement (E) in magnetic resonance imaging of the cervical spine, which showed a cystic area, necrosis and trabeculation. The lesion was markedly hyperintense in T2 and hypointense in T1, showing peripheral enhancement after the administration of gadolinium (arrows).

---

The treatment is mainly surgical, in the attempt to resect the entire lesion whenever possible, especially if there may be neurological involvement. However, the recurrence rates are high (26%–50%). A number of adjuvant therapies have been utilized in the case of recurrence or inoperable lesions, including radiotherapy, selective arterial embolization, ckyrotherapy, argon plasma coagulation, bisphosphonates, interferon α-2b and denosumab.

In conclusion, although the GCT in cervical spine is rare, it should be taken into account in the differential diagnosis of patients with neck pain and lytic lesions in vertebrae, especially when there are associated neurological signs.

References


Liudmila Valentina Maldonado-Romero, Walter Alberto Sifuentes-Giraldo, María Aurora Martínez-Rodrigo, Carlos de la Puente-Bujidos

* Servicio de Reumatología, Hospital Universitario Ramón y Cajal, Madrid, Spain
b Servicio de Neurocirugía, Hospital Universitario Ramón y Cajal, Madrid, Spain

* Corresponding author.
E-mail address: albertosifuentesg@gmail.com (W.A. Sifuentes-Giraldo).

http://dx.doi.org/10.1016/j.reuma.2016.03.005
2173-5743/© 2016 Elsevier España, S.L.U. and Sociedad Española de Reumatología y Colegio Mexicano de Reumatología. All rights reserved.

Axial Spondyloarthritis: Can All Be Classified?

Espinidoartritis axiales: ¿se pueden clasificar todas?

To the Editor,

The history of ankylosing spondylitis (AS) has evolved since the first descriptions (2000 years BC), passing through the Middle Ages and, especially, the second half of the 20th century, with the discovery of HLA B27 (1973). In the fifties of the last century, there were 2 opposing schools of thought: the North American (“ lumpers”) and the European (“splitters”), which considered AS to be a variant of rheumatoid arthritis (RA), or as a different entity, respectively. Then evidence arose that was favorable to their separation, grouping AS and other similar diseases as “seronegative arthritides” or “spondyloarthritis” (Moss and Wright, 1976). At the present time, we prefer calling them “spondyloarthritides” (SpA), a name that indicates its inflammatory nature.

With respect to the diagnosis, classification tools have been appearing, from the criteria of Boland and Present (1945), then...