Os Odontoideum

Arthur Robert Kurzbuch, Jean-Yves Fournier
Department of Neurosurgery, Hospital of Sion, CHVR, Sion, Switzerland

A 73-year-old patient presented to the neurosurgery clinic with a 2-year history of progressive paresthesia and deterioration of the dexterity of his right hand.

Neurologic examination revealed an impairment of fine motor skills of both hands and spastic hypertonus of the lower extremities. Computed tomography of the cervical spine showed a smooth-margined, independent osseous segment separated from the hypoplastic odontoid peg consistent with os odontoideum [Figure 1a, arrow].

The etiology of os odontoideum remains controversial with traumatic or congenital hypothesis.[1,2] It is incidentally discovered or seen in symptomatic patients with cervical myelopathy because of C1–C2 instability and spinal cord compression.[1,2] In this patient, magnetic resonance imaging revealed narrowing and hyperintensity of the spinal cord at C2 level on the T2-weighted sequence [Figure 1b, arrow]. C1–C2 posterior screw-rod stabilization was performed. Within 2 months after surgery, paresthesia had resolved, and the patient was able to write again.

Declaration of patient consent

The authors certify that they have obtained all appropriate patient consent forms. In the form, the patient has given his consent for his images and other clinical information to be reported in the journal. The patient understands that name and initials will not be published and due efforts will be made to conceal identity, but anonymity cannot be guaranteed.

REFERENCES


Address for correspondence: Dr. Arthur Robert Kurzbuch, Hôpital du Valais – Centre Hospitalier du Valais Romand (CHVR), Hôpital de Sion, Service de Neurochirurgie, Avenue du Grand-Champsec 80, CH-1951 Sion, Switzerland.
E-mail: kurzbuch@web.de

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-NonCommercial-ShareAlike 4.0 License, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms.

For reprints contact: reprints@medknow.com

How to cite this article: Kurzbuch AR, Fournier JY. Os odontoideum. J Neurosci Rural Pract 2019;10:125.