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Abstract

Aneurysmal bone cyst (ABC) infrequently occurs within the upper cervical vertebrae. Various therapeutic options have been reported in the literature. We would like to share our experience in managing a case of a 16-year-old girl diagnosed with ABC at the body of axis (C2) vertebra. Serious attention had to be given on the stability of the cervical spine following tumour resection, which can be affected by the mode of treatment chosen. Instability can have a detrimental effect on the cervical spine, in which case may necessitate further surgery. We performed a single-staged intra-lesional curettage via a transoral approach and temporary non-fusion posterior stabilization of C1 lateral mass screw and C2 pedicle screw. The implants were removed after six months once ossification of C2 has taken place to regain full motion of the neck. There was no evidence of recurrence or instability of the cervical spine three years following surgery.

Keywords

Aneurysmal bone cyst, lytic lesion, cervical spine, posterior instrumentation, transoral approach

Categories / Classification

Internal Medicine, General Internal Medicine

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Cited References: 10

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1. Aneurysmal bone cyst of the mobile spine - Report on 41 cases
By: Berani, S.; De Lure, F.; Campanacci, L.; et al.
SPINE Volume: 36 Issue: 1 Pages: 27-35 Published: JAN 1 2001
Times Cited: 176

2. Epidemiology of aneurysmal bone cyst in children: a multicenter study and literature review
By: Cottalorda, J.; Kheler, R.; & Guzy, J.; et al.
JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B Volume: 13 Issue: 6 Pages: 388-394 Published: NOV 2004
Times Cited: 67

3. Aneurysmal bone cyst of the spine: 31 cases and the importance of the surgical approach
By: de Kruiver, M. van der Heul, R.O.; Veraart, B.
BEEMJ
Times Cited: 69
4. Modern surgical treatment of primary aneurysmal bone cyst of the spine in children and adolescents
   By: Garg, S; Mehta, S; Derman, JP
   JOURNAL OF PEDIATRIC ORTHOPAEDICS PART B Volume: 7 Issue: 4 Pages: 286-292 Published: OCT 1998
   Times Cited: 37

5. Aggressive "Benign" Primary Spine Neoplasms: Osteoblastoma, Aneurysmal Bone Cyst, and Giant Cell Tumor
   By: Harrop, James S; Schmidt, Meic H; Boriani, Stefano; et al.
   SPINE Volume: 34 Supplement: 22 Pages: S39-S47 Published: OCT 15 2009
   Times Cited: 46

6. Unstable Jefferson fractures: Results of transloral osteosynthesis
   By: Hu, Hong; Albert, Todd J; Kepler, Christopher K; et al.
   INDIAN JOURNAL OF ORTHOPAEDICS Volume: 48 Issue: 2 Pages: 145-151 Published: MAR-APR 2014
   Times Cited: 7

7. Aneurysmal bone cyst: A review of 150 patients
   By: Mankin, HJ; Hornicek, FJ; Ortiz-Cruz, E; et al.
   JOURNAL OF CLINICAL ONCOLOGY Volume: 23 Issue: 27 Pages: 6756-6762 Published: SEP 2005
   Times Cited: 185

8. Locally aggressive aneurysmal bone cyst of C4 vertebra treated by total en bloc excision and anterior plus posterior cervical instrumentation
   By: Parmar, Himanshu N; Agrawal, Vinod A; Shah, Munjal S; et al.
   JOURNAL OF CRANIOVERTEBRAL JUNCTION AND SPINE Volume: 6 Issue: 3 Pages: 130-133 Published: JUL-SEP 2015
   Times Cited: 2

9. Aneurysmal Bone Cyst of Clivus and C1 C2: Case Report and Review of Literature
   By: Rajput, Dinesh; Tungaria, Arun; Jaiswal, Avdhesh; et al.
   TURKISH NEUROSURGERY Volume: 22 Issue: 1 Pages: 105-108 Published: JAN 2012
   Times Cited: 9

10. Current strategies for the treatment of aneurysmal bone cysts
    By: Tsagkous, Panagiotis; Brosjo, Otto
    ORTHOPEDIC REVIEWS Volume: 7 Issue: 4 Pages: 106-110 Published: 2015
    Times Cited: 21

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