

[Look Up Full Text](#)
[Find PDF](#)
[Export...](#)
[Add to Marked List](#)

## Single-Stage Transoral Intra-Lesional Excision of Aneurysmal Bone Cyst of Axis (C2) Vertebra and Temporary Stabilization of Upper Cervical Spine in an Adolescent: A Case Report

By: [Khan, ES](#) (Khan, E. S.)<sup>[1,2]</sup>; [Hazwan, AW](#) (Hazwan, A. W.)<sup>[3]</sup>; [Sharifudin, MA](#) (Sharifudin, M. A.)<sup>[2]</sup>; [Ramos, J](#) (Ramos, J.)<sup>[1,4]</sup>; [Pingel, A](#) (Pingel, A.)<sup>[1]</sup>; [Kandziora, F](#) (Kandziora, F.)<sup>[1]</sup>

[View Web of Science ResearcherID and ORCID](#)

INTERNATIONAL MEDICAL JOURNAL MALAYSIA

Volume: 18 Issue: 2 Pages: 117-121

Published: AUG 2019

Document Type: Article

### 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

**Author Keywords:** [aneurysmal bone cyst](#); [lytic lesion](#); [cervical spine](#); [posterior instrumentation](#); [transoral approach](#)

**KeyWords Plus:** [CHILDREN](#)

### Author Information

**Reprint Address:** Hazwan, AW (reprint author)

Hosp Tengku Ampuan Afzan, Dept Orthopaed & Traumatol, Jalan Tanah Putih, Kuantan 25100, Pahang, Malaysia.

### Addresses:

[ 1 ] Berufsgenossenschaftl Unfallklinik, Zentrum Wirbelsaulenchirurg & Neurotraumatol, Friedberger Landstr 430, D-60389 Frankfurt, Germany

[ 2 ] Int Islamic Univ, Kulliyah Fac Med, Dept Orthopaed Traumatol & Rehabil, Jalan Sultan Ahmad Shah, Kuantan 25200, Pahang, Malaysia

[ 3 ] Hosp Tengku Ampuan Afzan, Dept Orthopaed & Traumatol, Jalan Tanah Putih, Kuantan 25100, Pahang, Malaysia

[ 4 ] Ctr Med Puerta de Hierro, Blvd Puerta de Hierro 5150, Torre C PB, Zapopan 45116, Jalisco, Mexico

**E-mail Addresses:** [hazwan.ab.wahid@gmail.com](mailto:hazwan.ab.wahid@gmail.com)

### Publisher

INT ISLAMIC UNIV MALAYSIA, KULLIYAH MEDICINE, JALAN SULTAN AHMAD SHAH, KUANTAN PAHAN, 25200, MALAYSIA

### Categories / Classification

**Research Areas:** General & Internal Medicine

**Web of Science Categories:** Medicine, General & Internal

### See more data fields

### Citation Network

In Web of Science Core Collection

0

Times Cited

[Create Citation Alert](#)

10

Cited References

[View Related Records](#)

### Use in Web of Science

Web of Science Usage Count

0

Last 180 Days

0

Since 2013

[Learn more](#)

This record is from:

**Web of Science Core Collection**  
- Emerging Sources Citation Index

### Suggest a correction

If you would like to improve the quality of the data in this record, please [suggest a correction](#).

## Cited References: 10

Showing 10 of 10 [View All in Cited References page](#)

(from Web of Science Core Collection)

- [Aneurysmal bone cyst of the mobile spine - Report on 41 cases](#) Times Cited: 176

By: [Boriani, S](#); [De Lure, F](#); [Campanacci, L](#); et al.

SPINE Volume: 26 Issue: 1 Pages: 27-35 Published: JAN 1 2001
- [Epidemiology of aneurysmal bone cyst in children: a multicenter study and literature review](#) Times Cited: 87

By: [Cottalorda, J](#); [Kohler, R](#); [de Gauzy, JS](#); et al.

JOURNAL OF PEDIATRIC ORTHOPAEDICS-PART B Volume: 13 Issue: 6 Pages: 389-394 Published: NOV 2004
- [Aneurysmal bone cyst of the spine: 31 cases and the importance of the surgical approach](#) Times Cited: 69

By: [de Kleuver, M](#); [van der Heul, RO](#); [Veraart, BEEMJ](#)

4. **Modern surgical treatment of primary aneurysmal bone cyst of the spine in children and adolescents** Times Cited: 37  
By: Garg, S; Mehta, S; Dormans, JP  
JOURNAL OF PEDIATRIC ORTHOPAEDICS Volume: 25 Issue: 3 Pages: 387-392 Published: MAY-JUN 2005
5. **Aggressive "Benign" Primary Spine Neoplasms Osteoblastoma, Aneurysmal Bone Cyst, and Giant Cell Tumor** Times Cited: 46  
By: Harrop, James S.; Schmidt, Meic H.; Boriani, Stefano; et al.  
SPINE Volume: 34 Supplement: 22S Pages: S39-S47 Published: OCT 15 2009
6. **Unstable Jefferson fractures: Results of transoral osteosynthesis** Times Cited: 7  
By: Hu, Yong; Albert, Todd J.; Kepler, Christopher K.; et al.  
INDIAN JOURNAL OF ORTHOPAEDICS Volume: 48 Issue: 2 Pages: 145-151 Published: MAR-APR 2014
7. **Aneurysmal bone cyst: A review of 150 patients** Times Cited: 185  
By: Mankin, HJ; Hornicek, FJ; Ortiz-Cruz, E; et al.  
JOURNAL OF CLINICAL ONCOLOGY Volume: 23 Issue: 27 Pages: 6756-6762 Published: SEP 20 2005
8. **Locally aggressive aneurysmal bone cyst of C4 vertebra treated by total en bloc excision and anterior plus posterior cervical instrumentation** Times Cited: 2  
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
9. **Aneurysmal Bone Cyst of Clivus and C1 C2: Case Report and Review of Literature** Times Cited: 9  
By: Rajput, Dinesh; Tungaria, Arun; Jaiswal, Avdhesh; et al.  
TURKISH NEUROSURGERY Volume: 22 Issue: 1 Pages: 105-108 Published: JAN 2012
10. **Current strategies for the treatment of aneurysmal bone cysts** Times Cited: 21  
By: Tsagozis, Panagiotis; Brosjo, Otte  
ORTHOPEDIC REVIEWS Volume: 7 Issue: 4 Pages: 106-110 Published: 2015

Showing 10 of 10 [View All in Cited References page](#)

