

Hypercementosis and Ankylosis

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Hypercementosis

Excessive production of cellular cementum, mainly occurs at the apex or apices of the tooth



Microscopic section of hypercementosis due to traumatic occlusal forces

Fehrenbach, Margaret J., RDH, MS, 2016, *Illustrated Dental Embryology, Histology, and Anatomy*, Elsevier, Inc.

Hypercementosis



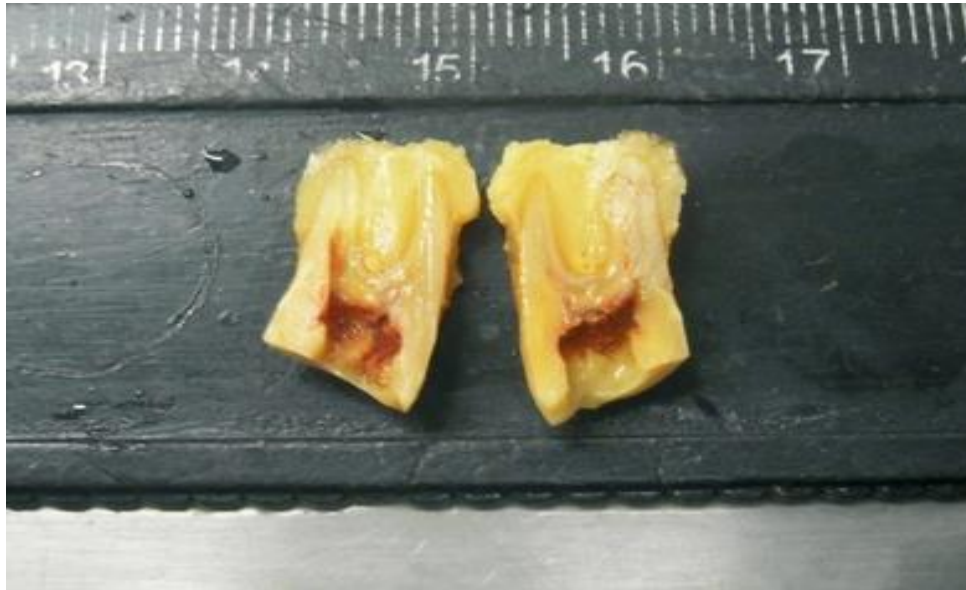
**Radiograph of first
mandibular molar with
hypercementosis at the
root apices**

Hypercementosis



http://www.joomr.org/viewimage.asp?img=JOralMaxillofacRadiol_2017_5_3_90_221078_f2.jpg

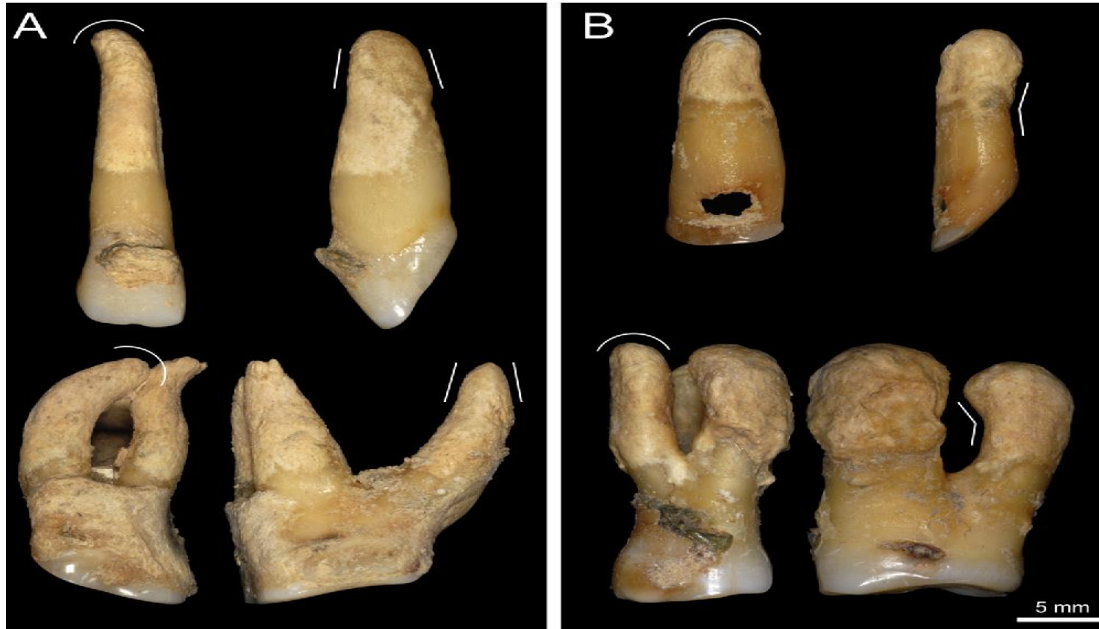
Hypercementosis



Macroscopic examination shows both roots are covered with a thick cementum layer, most pronounced in the apical and interradicular area.

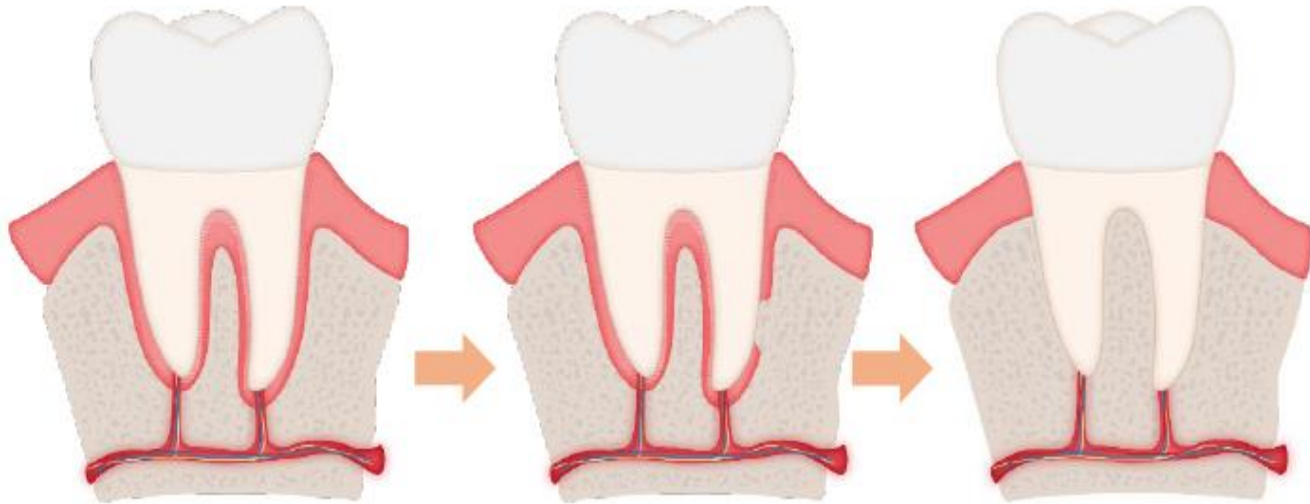
<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1834-7819.2012.01725.x>

Hypercementosis



<https://www.sciencedirect.com/science/article/pii/S0003996914002726>

Tooth ankylosis: pathological fusion between root surface with the surrounding alveolar bone



Tooth lacks mobility because it no longer has the protective periodontal ligament around it.

<https://support.clearcorrect.com/hc/en-us/articles/115008169607-Ankylosed-Teeth>

Tooth ankylosis



34-year-old female with chief complaint about different level of central incisors. Typical ankylotic sound on percussion clinically observed.

Tooth ankylosis



Left mandibular primary second molar

<https://oralradiology.wordpress.com/radiographic-interpretation/>

Ankylosis: The stiffness of a joint due to injury or disease



a



b



c

A 5-year-old girl with bilateral condylar ankylosis of unknown etiology (no history of trauma or infection)

<https://www.intechopen.com/books/a-textbook-of-advanced-oral-and-maxillofacial-surgery-volume-2/comprehensive-management-of-temporomandibular-joint-ankylosis-state-of-the-art>

Unilateral ankylosis



a



b



c

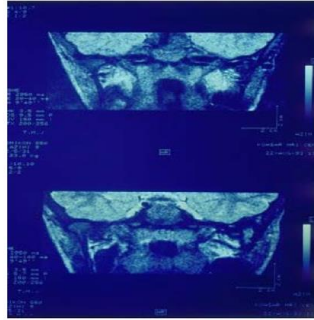
A 3-year-old girl with unilateral condylar ankylosis following trauma at birth.

<https://www.intechopen.com/books/a-textbook-of-advanced-oral-and-maxillofacial-surgery-volume-2/comprehensive-management-of-temporomandibular-joint-ankylosis-state-of-the-art>

Unilateral condylar ankylosis



a



b



c



d



e



f

A 5-year-old girl with history of left condylar trauma at age 2, with progressive facial symmetry and deviation of the dental midlines due to left condylar ankylosis.



The End :)