ANKYLOSIS
Ankylosed
Primary Molars
(with no permanent successors)
Decoronation


Smalley WM, Fleege PA, Hall SH. Management of ankylosed primary molars with no permanent replacement: An optimal alternative for development of the alveolar ridge. *Submitted for publication*. 
Alveolar bone development after decoronation of ankylosed teeth

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Endodontic Topics 2006, 14, 35-40
Fig. 5. Decoronation of an ankylosed, infrapositioned incisor. A. The right maxillary incisor in moderate infraposition has been filled with calcium hydroxide in a 14-year-old boy. B. A mucoperiosteal flap has been raised and the crown has been removed. The coronal part of the root is reduced to a level about 1.5–2.0 mm below the alveolar crest. The calcium hydroxide is removed from the canal, which is instrumented to induce bleeding into the canal. C. Radiograph taken immediately after the surgery. D–H. Ten years after the decoronation procedure, an implant is placed in an optimal position because of the ideal healing of the alveolar ridge.
Fig. 6. Decoronation of an ankylosed maxillary central incisor in a 13-year-old boy. A-B. Radiographs and graphic illustrations pre-operative and immediately after the decoronation. Note the bone level after decoronation. Arrows indicate the cementum-enamel junctions of adjacent teeth. C. Radiograph and illustration 6 months after surgery. Note that the pontic had to be shortened due to formation of marginal bone coronal to the root remnants. D. Radiograph and illustration 12 months after surgery. No root remnants can be seen, and because of the continuous vertical shift of the marginal bone, the pontic had to be shortened again. E. Clinical appearance at the time of decoronation. F. Clinical picture illustrating the need for the shortening of the pontic due to addition of marginal bone.
Periosteal tension in the stimulation of bone growth in the mandible

Donnelly, M.W. and Swoope, C.C.

Thesis; University of Washington, Seattle, 1973
Principal fibers of the periodontal ligament
Tunneling Resorption/Apposition
- Remove entire crown of tooth
- Remove cervical portion of tooth to level 2 mm below marginal bone
- Remove pulpal tissue from root canals
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Thank You
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