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## Editorial

# Sickle-shaped curved fused root in mandibular primary molar: An exodontia challenge

Vipin Ahuja<sup>1,\*</sup>, Annapurna Ahuja<sup>2</sup>

<sup>1</sup>Dept. of Pedodontics and Preventive Dentistry, Government Dental College and Hospital, Jamnagar, Gujarat, India

<sup>2</sup>Dept. of Periodontics and Implant Dentistry, Hazaribag College of Dental Sciences and Hospital, Hazaribag, Jharkhand, India



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The deciduous and permanent teeth have distinguished morphological differences to display. They both are dissimilar in aspects of crown, roots, root canals and pulp. The key specifications of primary roots are 1. Narrower root mesiodistally, 2. Root is flared, slenderer and length is more in relation to crown size when compared to permanent teeth.<sup>1</sup> The incidence and prevalence of anomalies also varies with both the dentitions. The utmost common morphodifferentiation aberrations are concrescence, dilacerations, extra root, double root, etc. Dilaceration is one such anomaly with curvature of crowns and roots at different angles. It is defined as an abnormal bend in the root or crown of tooth.<sup>2</sup> The most commonly affected teeth with dilacerations are maxillary incisors.<sup>3</sup> There are many cases reported in permanent teeth, however handful of studies had mentioned root anomalies like dilacerations in primary teeth roots. This presentation reports a dilaceration in sickle shape of mesial (Fused Mesiobuccal and Mesiolingual) root of grossly decayed mandibular primary molar in 8 year old boy.

The child reported with grossly decayed 85 and the tooth was indicated for extraction. The local anaesthesia was given and distal root was extracted. The mesial root was dilacerated like sickle-shape and was very firm to luxate.



**Fig. 1:** Lateral view: Extracted 85 mesial root with sickle-shaped dilaceration



**Fig. 2:** Lingual view: Extracted fused mesial root of 85 with sickle-shaped dilaceration

\* Corresponding author.

E-mail address: [drvipinahuja@gmail.com](mailto:drvipinahuja@gmail.com) (V. Ahuja).

The extraction of mesial curved root required more force something similar to extract root stump of permanent molar. The curvature also makes the root more prone to fracture during extraction and so, it was carefully removed using elevator and in rotation motion from downwards to upward direction and the mesial root came out without breakage.

**Management:** No treatment is required in petty dilacerations. Dilacerations especially of primary teeth can hinder resorption and delay the permanent successor eruption process, making dilacerated teeth removal, an obligatory process. Severe dilacerations can preclude eruption of affected teeth and can also pose exodontia or endodontic difficulties.

### Conflict of Interest

None.

### References

1. Yaseen HN. Morphological differences between primary and permanent teeth. *Internet*. 2021;p. 1–8. Available from: <https://codental.uobaghdad.edu.iq/wp-content/uploads/sites/14/2021/01/lect-1-4th-grade.pdf>.
2. Neville BW, Damn DD, Allen CM, Chi AC. Pathology of teeth. Color atlas of oral and maxillofacial diseases. and others, editor. Elsevier; 2019. p. 41–78.
3. Anthonappa RP, King NM. Oral and Dental Manifestations in Noonan Syndrome. and others, editor; 2019. p. 135–58. doi:10.1016/B978-0-12-815348-2.00009-8.

### Author biography

**Vipin Ahuja**, Professor and H.O.D.  <https://orcid.org/0000-0001-8798-525X>

**Annapurna Ahuja**, Professor and H.O.D.

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