

Hemisection: a conservative treatment of furcation involvement that provides the opportunity for lifetime tooth preservation

by Setyabudi Geonharto

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Dian Agustin Wahjuningrum,¹ Setyabudi Goenharto²

Department of Conservative Dentistry, Faculty of Dental Medicine, Universitas Airlangga, Surabaya, Indonesia

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*Presenting author

Dian Agustin Wahjuningrum¹

Department of Conservative Dentistry, Faculty of Dental Medicine, Universitas Airlangga, Campus A UNAIR Jl. Prof. Dr. Moestopo No. 47, Surabaya 60132, Indonesia.
E-mail: dianagustin_fk@yaho.co.id

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ABSTRACT

Introduction: Progress in dentistry gives hope for sufferers to maintain their teeth.

Hemisection is a treatment performed to maintain teeth by separating roots with the crown part on multiple-root teeth. This procedure is a conservative form of dentistry, which aims to maintain dental function in the stomatognathic system.

Case: A 20-year-old woman with wide carious teeth presented to our dental clinic. The patient wanted to keep her teeth as long as possible. Clinically the presence of very severe caries along with furcation involvement was established. Hemisection was chosen because of the patient's desire to maintain her teeth and keep the teeth still enough to support the alveolar bone. The endodontic treatment procedure was successful. Half of the distal part of the tooth was extracted, and the remaining tooth underwent endodontic treatment and was restored as a premolar, helping to reduce the masticatory load.

Conclusions: Hemisection is an effective treatment for keeping teeth as long as possible. This article describes a simple procedure for hemisection of the mandibular molar.

Keywords: Furcation involvement; Hemisection; Mandibular molar

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