

Volume 79, Issue 2
(March 2009)
[◀ Previous Article](#) [Volume 79, Issue 2 \(March 2009\)](#) [Next Article ▶](#)
[Add to Favorites](#) [Share Article](#) [Export Citations](#) [Track Citations](#) [Permissions](#)
[Full-text](#)[PDF](#)

Toru Kitahara, Akihiko Nakasima, Yuji Shiratsuchi (2009) Orthognathic Treatment with Autotransplantation of Impacted Maxillary Third Molar. The Angle Orthodontist: Vol. 79, No. 2, pp. 401-406.

Case Reports

Orthognathic Treatment with Autotransplantation of Impacted Maxillary Third Molar

Toru Kitahara^a, Akihiko Nakasima^b, and Yuji Shiratsuchi^c

Abstract

This article presents orthognathic treatment in successful collaboration with autotransplantation of the maxillary third molar. The case report describes a 24-year-old man with severe mandibular protrusion and severe crowding in both dentitions. Overbite was 0 mm, overjet, -15 mm. Maxillary second molars and mandibular third molars were extracted, and presurgical multibracket treatment was begun. Maxillary third molars were impacted completely at 18 months in terms of presurgical tooth alignment. Autotransplantation of the teeth was achieved to substitute for extracted maxillary second molars. At 6 months after autotransplantation, the maxilla was advanced 4 mm on both sides through a Le Fort I procedure; left and right sides of the mandible were set back 15 and 18 mm, respectively, via sagittal split ramus osteotomy to improve mandibular protrusion. The total treatment period lasted 37 months. Autotransplantation treatment is an effective modality for tooth replacement when a donor tooth is available. Fully impacted maxillary third molars are potentially reliable candidates for autotransplantation.

Keywords: [Autotransplantation](#), [Orthognathic surgery](#), [Maxillary third molar](#)

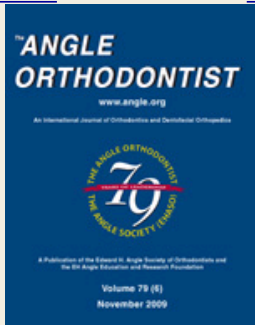
Accepted: March 2008;

^a Assistant Professor, Division of Oral Health, Growth & Development, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

^b Professor, Division of Oral Health, Growth & Development, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

^c Associate Professor, Section of Oral & Maxillofacial Oncology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, Fukuoka, Japan

Corresponding author: Dr T. Kitahara, Faculty of Dental Science, Department of Orthodontics, Kyusyu University, Maidashi 3-1-1 Higashi ku, Fukuoka 812-8582 Japan (kitahara@dent.kyushu-u.ac.jp)

< [Previous](#) [Next](#) >
[Current Issue](#)
[Available Issues](#)


Journal Information

ISSN: 0003-3219

Frequency: Bimonthly

Register for a Profile

Not Yet [Registered?](#)

Benefits of Registration Include:

- A Unique User Profile that will allow you to manage your current subscriptions (including online access)
- The ability to create favorites lists down to the article level
- The ability to customize email alerts to receive specific notifications about the topics you care most about and special offers

[Register Now!](#)

Related Articles

Articles Citing this Article

[Google Scholar](#)

Search for Other Articles By Author

- ☺ Toru Kitahara
- ☺ Akihiko Nakasima
- ☺ Yuji Shiratsuchi

Search in:

☺ Angle Online



top ▲