

Author: [ADVANCED](#)

Volume Page

Keyword: [TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1881-1361

PRINT ISSN : 0287-4547

Dental Materials Journal

Vol. 26 (2007) , No. 3 p.429-436

[\[PDF \(407K\)\]](#) [\[References\]](#)**A Three-dimensional Analysis Method for Edentulous Mandibular Ridge Shape**[Mamoru MURAKAMI^{1\)}](#), [Naotsugu KAWAHATA^{2\)}](#) and [Eiichi NAGAOKA^{1\)}](#)

1) Department of Oral and Maxillofacial Prosthodontics, Field of Oral and Maxillofacial Rehabilitation, Course for Advanced Therapeutics, Kagoshima University Graduate School of Medical and Dental Sciences

2) Dentist in private practice

(Received June 29, 2006)

(Accepted January 31, 2007)

Abstract:

The aim of this study was to develop a three-dimensional method to analyze edentulous ridge shapes.

A laser projection method was used to record the shape of edentulous plaster models. Contour of residual ridge on the reconstructed image was then subdivided into small triangles, and a 'normal line' representing the center of gravity of each triangle was determined buccolingually and anteroposteriorly. Angle between the normal line on the residual ridge and the tentative occlusal plane was calculated for each triangle. These angles were then used to analyze the ridge shape.

This method was used to analyze the ridges of 20 edentulous patients with excessive bone resorption. The results suggested that this method was useful for analyzing edentulous ridges regardless of ridge shape and degree of resorption.

Key words:

[Edentulous ridge](#), [Laser measurement](#), [Complete denture](#)

[\[PDF \(407K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)

To cite this article:

Mamoru MURAKAMI, Naotsugu KAWAHATA and Eiichi NAGAOKA. A Three-dimensional Analysis Method for Edentulous Mandibular Ridge Shape . Dent. Mater. J. 2007; 26: 429-436 .

doi:10.4012/dmj.26.429

JOI JST.JSTAGE/dmj/26.429

Copyright (c) 2009 The Japanese Society for Dental Materials and Devices



[Japan Science and Technology Information Aggregator, Electronic](#)

