

Author: [ADVANCED](#)

Volume Page

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

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[\[PDF \(672K\)\]](#) [\[References\]](#)**A Study on Measuring Occlusal Contact Area Using Silicone Impression Materials: an Application of this Method to the Bite Force Measurement System Using the Pressure-sensitive Sheet**[Katsuya ANDO^{1\)}](#), [Masahiro KUROSAWA^{1\)}](#), [Yuji FUWA^{1\)}](#), [Takamasa KONDO^{1\)}](#) and [Shigemi GOTO^{1\)}](#)

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Abstract:

The aim of this study was to establish an objective and quantitative method of measuring occlusal contact areas. To this end, bite records were taken with a silicone impression material and a light transmission device was used to read the silicone impression material. To examine the effectiveness of this novel method, the occlusal contact area of the silicone impression material and its thickness limit of readable range were measured. Results of this study suggested that easy and highly accurate measurements of occlusal contact area could be obtained by selecting an optimal applied voltage of the light transmission device and an appropriate color of the silicone impression material.

Key words:[Occlusal contact area](#), [Silicone impression material](#), [Pressure-sensitive sheet](#)[\[PDF \(672K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

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