

Author: [ADVANCED](#)

Volume Page

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

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[\[Image PDF \(593K\)\]](#) [\[References\]](#)**Effects of Disinfecting Alginate Impressions on the Scratch Hardness of Stone Models**[Hisako HIRAGUCHI](#)¹⁾²⁾, [Hisami NAKAGAWA](#)³⁾, [Mitsuru WAKASHIMA](#)¹⁾, [Kohichi MIYANAGA](#)¹⁾, [Masataka SAIGO](#)¹⁾ and [Minoru NISHIYAMA](#)¹⁾²⁾

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Abstract:

This study investigated the effects of disinfecting alginate impressions on the scratch depth of resultant stone models. Eleven brands of alginate impression material and two disinfectants, 1% sodium hypochlorite and 2% glutaraldehyde, were used. Impressions were immersed in disinfectant solutions or stored in sealed bags after spraying with disinfectants, and then poured with a type V dental stone. The scratch depth of the stone model obtained from disinfected impression was measured. The storage of alginate impressions after spraying with disinfectants did not increase the scratch depth of resultant stone models. However, the effect of immersion in disinfectants on scratch depth varied with the brand of the alginate impression material.

Key words:[Alginate impression material](#), [Disinfection](#), [Scratch hardness](#)[\[Image PDF \(593K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)

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