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The effect of time dependent immersion disinfection on dimensional stability of elastomeric impressions: An in vitro study

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Abstract

Purpose: The aim of the study was to evaluate the dimensional stability and accuracy of most commonly used elastomeric impression materials polyvinylsiloxane (addition silicone) and polysulfide after disinfection procedures.

Materials and method: Elastomeric impression materials like addition silicone, polysulfide impression material of different viscosity and disinfectants such as glutaraldehyde (2%), sodium hypochlorite (5.25%) & iodophor (1%) were used.

Impressions were taken of the stainless steel master model simulating two prepared abutments of fixed partial denture with six degrees taper and grooves were made with diamond indenter for measurement purpose. They were immersed in disinfectants used and dimensional stability was measured using profile projector.

Conclusion: Polyvinylsiloxane (addition silicone) and polysulfide elastomeric impression materials with different consistencies exhibit clinically acceptable dimensional stability when treated with all the three disinfectants for a period of 10, 20, 30 minutes respectively.

Keywords: Elastomeric impression, Dimensional stability, Disinfection.

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