

[J Cont Med A Dent. 2015 Jan-Apr; 3\(1\):81-84.](#)

Dimensional Accuracy and Stability of Addition Silicone Putty Wash Impression Technique with Different Thickness of Light Body Material

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<http://dx.doi.org/10.18049/jcmad/319a17>

Abstract

Objectives: This study was designed to evaluate the effect of the different thickness of wash material (light body) on the dimensional accuracy and stability of putty wash impression when it is poured at different time intervals. **Materials & Methods:** Three thickness groups A (2mm), B (3mm) and C (4mm) were made which were subdivided into time intervals subgroups namely, E (1-hour), F (24-hour) and G (48-hour) consisting 15 of each. The percentage dimensional change of polyvinyl siloxane impression was calculated and dimensional stability was compared. **Results:** The impression made with 2mm thickness showed no significant difference from the baseline measurement. **Conclusion:** The two step polyvinyl siloxane putty wash impression is dimensionally most accurate when the light body material thickness is not more than 2mm. It remains dimensionally stable even after 48 hours irrespective of the thickness.