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JOPD

Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
 (Constitutionally Entitled as Health-Education, Bureau)

Accuracy of Implant Impression Using Various Impression Materials in Different Arch Form: An In Vitro Study

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ABSTRACT

Purpose: This in vitro study was to investigate the accuracy of open tray of impression techniques with three impression materials (polyether [PE]/ Addition Silicon [AS] on angulated implants.


Materials and Methods: The Reference model selected for this study will be stainless steel die framework simulating the edentulous maxillary arch in different arch forms This model will receive three implant analogs in each canine region and one of the central incisor position with clinically acceptable angulation. Impression tray will made with auto polymerizing methacrylate resin on stone models obtained from die. Open tray implant impression will be made in different elastomeric impression materials on metal die of different arch form. The experimental cast obtained from the impressions will be evaluated under co-ordinate measuring tool/device to evaluate the accuracy of impression materials.

Statistical Analysis: The obtained data will be statistically analyzed with appropriate test.

Results: The lowest mean deviation was found in casts made from open tray impression technique. There was also a significant difference in the measurements of PE, and A Silicon.

Conclusion: PE impression material yielded more accurate casts than a silicon.

KEY WORDS: Open tray, Stainless Steel Die, Polyether, Adition Silicon, Tray Adhesive

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Website: http://heb-nic.in/jopd	
Received on 12/11/2021	
Accepted on 23/11/2021 © HEB All rights reserved	