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The influence of implant placement depth on the accuracy of connecting impression transfers to the implants

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Background: The exact placement of impression copings is very important in making accurate prosthesis. In some cases, the implants will need to be placed deeply subgingival, which could reduce the direct vision and ultimately reduce precision of impression copings and subsequently, delivered prosthesis. This would be the cause of multiple complications such as delivery of ill-fitting prosthesis.

Aim: The aim of this study was to evaluate the effect of the dental implant placement depth on the accuracy of impression coping connection by students.

Method: This *in vitro* and experimental study was conducted on 50 senior dental students. Four implants at different depths (0, 2, 4 and 6) were placed in a model. After learning how to mount impression coping on implants, students were asked to mount impression copings on all four implants. Samples were examined by an experienced prosthodontist by a magnifier with 4x magnification. Data were analyzed by statistical Cochran test (P-value<0/05).

Results: The proper adapting rate of transfer copings in subgingival implants with a depth of 0, 2, 4 and 6 mm were 100%, 62%, 58% and 20%, respectively. Statistically significant difference was observed between all groups (P-value<0/001).

Conclusion: There is an inverse relationship between increasing the depth of the implants in the gingiva and the ability to connect the impression copings by the dentist properly.

Biography

Mohammad Taghi Baghani has completed his DDS at Shahid Beheshti University and he is pursuing Post-doctoral in Prosthodontics at Shahed Dental School. He has published five papers in reputed journals.

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Notes:

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