

LOAD DISTRIBUTION IN OSSEOINTEGRATED IMPLANT SUPPORTED EXTENDED AND NON EXTENDED DENTURES

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Abstract

There is a controversy among prosthodontists concerning the most favorable superstructure design of a prosthesis supported by implants. Some investigators used the fully extended denture. Others used a non-extended. This study evaluated the load distribution pattern occurring in implants with the two designs. A real clinical situation which includes 4 osseointegrated implants that are connected to each other with a superstructure bar and support an acrylic denture was transferred into a 3-D geometric model. With the 3-D FEM it was possible to compare between the two types of acrylic dentures.

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