ASSESSMENT OF THE ADJUSTMENT OF PROSTHETIC COMPONENTS IN INTERNAL CONNECTION IMPLANTS

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Success in rehabilitation with implants depends, in part, on the registration of the structures that make up the base of the prosthesis. Some of the critical factors to be considered are: the impression material, prosthetic components used to obtain the working model and the origin of these components. This study aimed to evaluate the horizontal and vertical adjustments, as well as gaps presence, of prosthetic components of different brands in conical internal connection implants. A standard model in stainless steel was built, with two conical internal connection implants Conexão® (AR-TORQ model porous NP). On the standard model, 30 transfer impressions were made using different transferees for open tray with different analog commercial brands, totaling 30 plaster models (10 with Conexão®, 10 Advanced® and 10 Microplant® brands). For measurement of both vertical and horizontal misfit, two devices adapted to a protactor were used. In a second test, the presence of gaps in three similar models from three trademarks Conexão®, Advanced® and Microplant® and UCLAs bolted Conexão® brand was evaluated. Horizontal cut was made in the inner cone region and SEM was used for evaluation. Both vertical and horizontal misfits were observed in most models, with more relevance in vertical misfit, however, no meaningful statistical difference among the three commercial brands was observed. Presence of up to 80?m gaps were observed in microanalysis. There was no statistical difference with Conexão® and Advanced® brands, however statistical difference was observed with Microplant® brand. This study concluded that, in both tests, a better fit is achieved when products from the same company are used.