



“IN VITRO ASSESSMENT OF THE LONG-TERM BEHAVIOUR OF ADHESIVE TELESCOPIC PROSTHESES CONSISTING OF ZIRCONIUM OXIDE PRIMARY PARTS WITH TECNO MED SECONDARY PARTS”

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SUMMARY

The carried out in vitro study evaluated whether CAD/CAM-manufactured Tecno Med secondary crowns can provide the same consistent adhesive force by hydraulics and adhesion over an artificial aging period of 10 years as the reliable electroformed secondary crowns.

For this purpose, the Tecno Med secondary parts were subjected to withdrawal tests both at the time of the creation of the structure and after 10 years of artificial ageing, and the results have been compared. In summary, no significant decrease in bonding strength could be detected between the two test periods.

Based on this data, CAD/CAM manufactured Tecno Med secondary parts (Zirkonzahn®, Gais, South Tyrol) appear to offer an alternative to the reliable electroformed secondary parts in the field of removable implant prosthetics.

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