

Bonding of acrylic resin teeth with denture base resin

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The debonding of acrylic resin teeth with the denture base resin has been related to several different factors of which contamination of the bonding surfaces with wax has been suggested as the major cause. The purpose of this study was to determine the efficient method of wax removal from denture teeth using hot water at different temperatures ranges. Acrylic rods were used as tooth analogues and Raman spectroscopy was used to detect the presence of wax on the surfaces of the specimens. It was found that none of the techniques studied was able to remove all of the wax. Abraded ridge-lap surface showed least wax contamination when dewaxed at 100°C as compared to dewaxed at 85°C and 65°C respectively. The spectrum for each specimen demonstrated peaks at different wavelengths and varying intensities, the spectra demonstrated traces of wax on abraded surfaces showed least wax when dewaxed at 100°C as compared abraded surfaces dewaxed at 65°C and 85° C temperatures respectively.

Biography

Dr Ziaullah Choudhry is currently working as an Associate Professor in the department of Prosthodontics in Dow University of Health Sciences. Dr Ziaullah did his BDS from University of Karachi and then did his MSc in Prosthetic Dentistry from Eastman Dental Institute London (University College London)

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