

## 論 文 要 旨

Impact of Surface Changes and Microbial Adhesion on Mucosal Surface  
Finishing of Resin Denture Bases by Shot Blast Polishing Using Viscoelastic Media

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Surface changes and microbiological effects following shot blast polishing with viscoelastic media of the mucosal surface of resin denture bases were examined. Average surface roughness (Ra) and the grinding amount of specimens were measured over time, and the clinical number of microbial adhesions on the mucosal surface of dentures was assessed. The results obtained showed no changes in Ra after 20 seconds of polishing, Ra of  $<0.2 \mu\text{m}$ , and a grinding amount  $<20 \mu\text{m}$ . This method of finishing did not affect the morphology of the mucosal surface of dentures. Furthermore, the adhesion of microorganisms to the mucosal surface of dentures was significantly suppressed. Shot blast polishing with viscoelastic media is useful for finishing the mucosal surface of resin denture bases.