

Effects of air polishing on the resin composite-dentin interface

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20407954&lokasi=lokal>

Abstrak

The aim of this study was to examine defect depths and volumes at the resin composite-dentin (R/D) interface after air polishing with different particles and spray angles. Samples were 54 dentin specimens that were formed in saucer-shaped cavities filled with resin composite. Each specimen was air polished with either sodium bicarbonate (NaHCO₃) or one of two glycine (Gly) powders. The air polisher was set at angles of 90° to the interface and at 45° to the interface from both the dentin and resin composite sides. Air polishing with Gly powder produced defects with less depth and volume than NaHCO₃ powder ($p < 0.05$). Air polishing with a spray angle of 45° to the interface from the resin composite side produced fewer defects ($p < 0.05$) than polishing from the dentin side. Air polishing to the R/D interface from the resin composite side produced fewer defects to the interface because the hardness of the resin composite was higher than that of dentin.