

Polymerization behavior analysis using μ CT-3D visualization method

Resin composite polymerization results in volumetric shrinkage, which has an influence on the prognosis of restorations. Using the μ CT-3D visualization method, we established a method to visualize the polymerization shrinkage of resin restorations as a three-dimensional image and quantify the amount of polymerization shrinkage as a volum. We were the first in the world to prove numerically that the amount of polymerization shrinkage can be halved using the two-step light curing method.

