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Influence of Viscosity and Thickener on the Effects of Bleaching Gels

CRG Torres • SE Moecke • APVP Mafetano • LF Cornélio • R Di Nicoló • AB Borges

The viscosity and kind of thickener can have a significant influence on the efficacy and safety of tooth whitening treatment and is as important to the development of optimized gel formulations as the hydrogen peroxide active ingredient.

http://doi.org/10.2341/20-309-L

Can Specular Gloss Measurements Predict the Effectiveness of Finishing/Polishing Protocols in Dental Polymers? A Systematic Review and Linear Mixedeffects Prediction Model

TP de Melo • AHS Delgado • R Martins • L Lassila • S Garoushi • J Caldeira • AM Azul • P Vallittu

A clear and dependent relationship was found between specular gloss and roughness in resin composites. A reference value of >55 GU was found to be correlated with well-polished samples. This value can thus be used to objectively determine effectiveness of polishing and may serve as a starting point for future in vivo gloss measurements.

http://doi.org/10.2341/21-027-LIT

Development and Assessment of Bioactive Coatings for the Prevention of Recurrent Caries Around Resin Composite Restorations

LM Firoozmand • Y Alania • AK Bedran-Russo

The application of bioactive surface coatings potentially contributes to the in vitro prevention of recurrent caries in enamel and dentin—a major cause of failure of resin composite restorations.

http://doi.org/10.2341/20-299-L

Use of Computerized Microtomography, Energy Dispersive Spectroscopy, Scanning Electron Microscopy, and Atomic Force Microscopy to Monitor Effects of Adding Calcium to Bleaching Gels

LC Mendonça • MLA Rodrigues • AA Bicalho • GR daSilva • PS Quagliatto • CJ Soares

Bleaching teeth with hydrogen peroxide gels containing calcium does not prevent mineral loss at the enamel surface. However, the demineralized regions do not exhibit an increase in surface roughness.

http://doi.org/10.2341/20-217-L