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Cuspal Deflection in Premolar Teeth Restored with Bulk-Fill Resin-Based Composite Materials

MM Elsharkasi • JA Platt • NB Cook • GH Yassen • BA Matis

Clinical Relevance: Polymerization shrinkage of conventional resin-based composites can cause cuspal deflection and be associated with enamel cracking, cusp or tooth fracture, and changes in occlusion. High-viscosity bulk-fill resin composites may produce less cuspal deflection than a conventional incrementally placed resin composite.

doi: http://dx/doi.org/10.2341/16-072-L

Assessing the Appearance and Fluorescence of Resin-Infiltrated White Spot Lesions With Caries Detection Devices

K Markowitz • K Carey

Clinical Relevance: Fluorescent camera caries detectors can be used to assess the effectiveness of resin infiltration in improving the optic properties of white spot lesions. Clinicians can use a fluorescent camera to demonstrate early lesions to patients.

doi: http://dx/doi.org/10.2341/16-153-L

Real-time Light Transmittance Monitoring for Determining Polymerization Completeness of Conventional and Bulk Fill Dental Composites

M Par • I Repusic • H Skenderovic • E Klaric Sever • D Marovic • Z Tarle

Clinical Relevance: Short curing times of 10-20 seconds may be insufficient for an optimal polymerization, especially under nonideal clinical conditions (eg, variable distance and angulation of the curing unit tip).

doi: http://dx/doi.org/10.2341/17-041-L

Replacement of a Missing Maxillary Central Incisor Using a Direct Fiber-Reinforced Fixed Dental Prosthesis: A Case Report

MF Romero • FJ Haddock • WW Brackett

Clinical Relevance: Fiber-reinforced fixed dental prosthesis using the direct restorative technique may be accomplished with ideal contours and tooth morphology when a proper material selection and a step-by-step protocol is followed. This option becomes useful as an interim restoration in many clinical situations.

doi: http://dx/doi.org/10.2341/16-279-L

Does Finishing and Polishing of Restorative Materials Affect Bacterial Adhesion and Biofilm Formation? A Systematic Review

DAM Dutra • GKR Pereira • KZ Kantorski • LF Valandro • FB Zanatta

Clinical Relevance: A polished/smooth surface is mandatory for maintaining clinical health status on restored teeth. However, this review depicts the absence of reliable data that characterize and elucidate the mechanism related to the effect of surface properties on bacterial adhesion/biofilm formation.

doi: http://dx/doi.org/10.2341/17-073-L