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### **Dynamic and Static Flexural Appraisal of Resin-based Composites: Comparison of the ISO and Mini-flexural Tests**

AU Yap • AH Eweis • NA Yahya

**Clinical Relevance:** The mini-flexural test holds promise as a replacement for the ISO flexural test for the dynamic and static appraisal of dental resin-based composites.

doi: <http://doi.org/10.2341/17-224-L>

### **Original and Repair Bulk Fracture Resistance of Particle Filler and Short Fiber-Reinforced Composites**

J Bijelic-Donova • S Uctasli • PK Vallittu • LVJ Lassila

**Clinical Relevance:** Longevity of repaired direct composite restorations may be improved by including a short E-glass fiber-reinforced composite with a semi-interpenetrating network matrix as the substrate material in bilayered restorations.

doi: <https://doi.org/10.2341/17-207-L>

### **Application of Calcium Silicate Materials After Acid Etching May Preserve Resin-Dentin Bonds**

V Aggarwal • SS Bhasin

**Clinical Relevance:** Application of calcium silicate materials after acid etching can be a possible solution to preserve the resin-dentin adhesive interface.

doi: <https://doi.org/10.2341/17-306-L>

### **Chemical Interaction Characterization and Interface Analysis of Self-Etch Adhesives Containing 10-MDP and N-Methacryloyl Glycine Functional Monomers With the Dentin in Noncarious Cervical Lesions**

BMB Oliveira • ALM Ubaldini • ML Baesso • LHC Andrade  
SM Lima • M Giannini • L Hernandez • RC Pascotto

**Clinical Relevance:** The chemical interaction and morphology at the interface of self-etch adhesives and the dentin of noncarious cervical lesions depend on the functional monomer present in the adhesive. This fact is essential to evaluate the requirement for additional substrate preparation before commencing adhesive procedures.

doi: <https://doi.org/10.2341/17-366-L>

### **Linear Coefficient of Thermal Expansion Evaluation of Glass Ionomer and Resin-Modified Glass Ionomer Restorative Materials**

G Pinto-Sinai • J Brewster • H Roberts

**Clinical Relevance:** Conventional glass ionomer materials overall exhibit linear coefficient of thermal expansion (LCTE) similar to tooth structure, while some resin-modified glass ionomer materials have LCTE similar to that reported for resin restorative materials.

doi: <https://doi.org/10.2341/17-381-L>