Special Issue

Dental Bulk-Fill Composite Resins

Message from the Guest Editor

Bulk-fill composite resins are an exciting new field of restorative dental medicine. Since their appearance in recent years, they have easily found their way into dental offices due to the simplicity of their application in 4–5 mm thick layers and facilitation of the restorative procedure, appreciated by the dentists and their patients. The strategies for the development of deep photopolymerization are heterogenous, from simple reduction of pigment content, followed by decreasing the filler content and increasing the filler particle size, harmonizing the resin/filler refractive index, to the invention of new monomer systems and altering the structure of polymer networks. The novel approach to including addition (fragmentation) chain transfer reagents into the composition, combined with rapid high-intensity light curing, is an interesting technological advancement that needs further validation.

Guest Editor

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