BioMed Research International

Hindawi

Special Issue on

Metal-Free Restorations: Esthetic Considerations, Treatment Planning, Preparation, Manufacturing, Luting, and Followup

CALL FOR PAPERS

Metal-free restorations have gained increasing popularity for esthetic improvement of anterior teeth. Spreading variety of this kind of restorations has been reported to be durable and conservative anterior restorations with superior esthetics. The treatment of discolored, fractured, worn, decayed, or congenitally malformed teeth and esthetic reshaping of anterior teeth, elimination of diastemas, and replacement of missing teeth have been accomplished with the use of metal-free restorations. Recent advances in porcelain processing techniques and the resin composites as well as improvements in adhesive bonding systems have promoted the use of metal-free restorations. Knowledge and understanding of these occasions have led to novel tools in treatment planning to provide better care to patients.

We invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the physicochemical background underlying the bonding mechanism, interactions between the prognostic variates of the long-term bonding, and the development of strategies to improve the final satisfaction and the evaluation of outcomes. We are particularly interested in articles describing the new materials for mimicking the biological, physical, mechanical, and optical properties of natural human tooth. The new modalities may provide better satisfaction and new insights into the treatment planning of the full and/or partial coverage and also minimal invasive metal-free restorations.

Potential topics include, but are not limited to:

- Recent advances in preoperative treatment planning of metal-free fixed partial denture and veneer treatment. Wax-up, mock-up, and computer-aided virtual techniques
- Novel porcelain and resin composite materials and the alternatives
- Recent advances in dental adhesives and adhesive bonding technology
- New sights to conserve hard tooth tissues and new ways of conservation
- New ways to mimic the natural human tooth
- Evaluation of the esthetic parameters of the dentofacial composition
- Survival of the restorations and the dominating prognostic variates

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/bmri/biomaterials/plv/.

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