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## BIOHPP- A BOON IN PROSTHETIC DENTISTRY

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### ABSTRACT

There is a huge demand for metal free restorations that can be used in fixed or removable prosthesis. BioHPP is a recently introduced material in the field of dentistry. BioHPP (Biocompatible High Performance Polymer) is a variant of PEEK that has been specially optimized for use in prosthodontics. BioHPP contains ceramic microparticles having size range 0.3-0.5 microns and coefficient of elasticity which is around 4GPa. Conventional metal frameworks constructed from Nickel (Ni), Cobalt(Co), Chromium(Cr) and Molybdenum(Mo) are unesthetic, exert forces on the abutment teeth and may cause allergy in certain individuals. BioHPP has been proved to be a successful alternative. Finished BioHPP restorations have extremely low weight and water solubility is less. BioHPP can be constructed using both methods as modern CAD / CAM technology and standard wax replacement technology. BioHPP is satisfactory material for a variety of applications in prosthodontics. BioHPP has shown to be a boon to the field of dentistry and prosthodontics as a result of its excellent properties.

**Keywords:** BioHPP, Modified PEEK, Implant prosthesis, Implant superstructure.

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