

BIOLOGICAL CHARACTERISTICS OF MODERN
POLYMER MATERIALS IN DENTAL
PROSTHODONTICS

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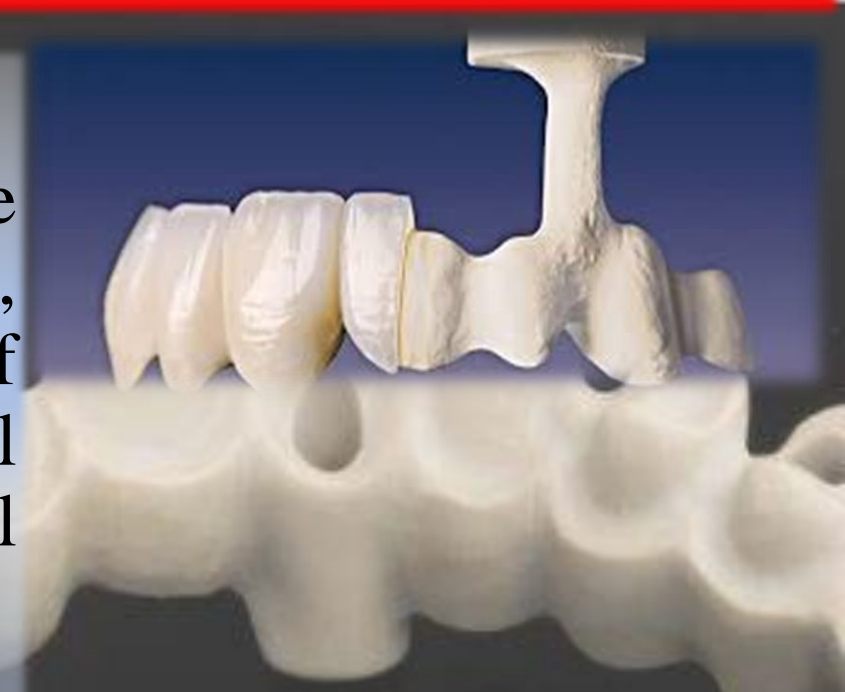
Introduction:

The biological characteristics of modified highperformance polymers are relate to biocompatibility, and therefore the devices produced from these polymers comply with all biological standards and are not cytotoxic. The main goal of this paper is to evaluate the biological characteristics of modern polymer materials.



Materials and methods:

In order to realize the main goal of this research, an adequate analysis of the contemporary dental and dental technical literature was done.



Results:

PEEK (Polyetheretherketone) is a material that does not contain metals, so patients do not have a metallic taste in their mouths, there is no ion exchange and they are not allergenic, and they do not cause allergies in patients who use them. Materials made of PEEK are neutral, so they have low water absorption, and these constructions have color stability.



Conclusion:

The material is biologically stable and devices made of this material are used, they do not interact with other materials and do not cause side effects. During the production of devices, there is the possibility of achieving a small thickness, and also the constructions are processed and polished easily.
Keywords: biopolymers, biological characteristics, biological stability, PEEK.