

## Review Article

# PEEK materials as an alternative to titanium in dental implants

Sathyabhama A V, Cherian K P, Joe Mathew

Department of Prosthodontics, Annoor Dental College and Hospital, Muvattupuzha, Kerala

Received : 11-01-2022

Revised : 15-02-2022

Accepted : 04-03-2022

**Address for correspondence:** Sathyabhama A V, Post Graduate student, Department of Prosthodontics, Annoor Dental College and Hospital, Muvattupuzha, Kerala  
E-mail: av19bhama.nair@gmail.com

This is an open access journal, and articles are distributed under the terms of the Creative Commons Attribution-Noncommercial ShareAlike 4.0 license, which allows others to remix, tweak, and build upon the work non-commercially, as long as appropriate credit is given and the new creations are licensed under the identical terms

**How to cite this article:** Sathyabhama A V, Cherian K P, Mathew J. PEEK materials as an alternative to titanium in dental implants. *J Oral Biomed Sci* 2022;1:24-29.

### Abstract:

Titanium (Ti) and its alloys are widely used for dental implant treatment. The insertion of dental implants containing titanium can be

associated with various complications. Advancements in dental materials have given dentistry more promising materials, yet each material remains short of being the ideal one. Polyether ether ketone (PEEK) is one of the viable materials which is scientifically approved and safe materials in medical and dental use. Due to its excellent properties PEEK has several applications in field of dentistry like implants, removable and fixed partial dentures, and orthodontic wires. The aim of this article is to evaluate whether PEEK can be used as an alternative material for dental implants.

**Key words:** Biocompatibility, implants, PEEK, surface modification, titanium

**Conflict of interest:** Nil

**Financial support and sponsorship:** Nil