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Titanium nanotubes: a step forward in implant dentistry?

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Abstract

Since 1952, titanium implants have been widely used in dentistry and orthopaedics. Oral function has been restored with dental implants since the invention of the smooth-surface implant. In an effort to minimize healing time and increase osseointegration between titanium implants and bone, several efforts have been made to chemically change the oxide layer on the implant surface, with varied outcomes. Anodic oxidation is one such process that was performed on the surface of the implant during chemical treatment to improve calcium ion adherence and form a TiO2 nanotube structure. This review discusses the impact of TiO2 nanotubes of varying sizes on the creation of new bone and osseointegration.

Keywords: Titanium nanotubes, osseointegration, implants

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