

Analysis of hydroxyapatite microelements on the surface of titanium implants

Marius MARIS^a, Dan MARIS^b, Maria MARIS^b, Eugen VASILE^c, Roxana PITICESCU^d

^a *Resident doctor, doctoral candidate, 57, Pescarilor, 900581, Constanta, Romania*

^b *School of Dentistry, "Ovidius" University of Constanța, 124 Mamaia Blvd. 900527, Romania*

^c *METAD-CERCETARE DEZVOLTARE S. A. 31, C. A. Rosetti 020015, Bucuresti, Romania*

^d *INCDMNR-IMNR, 102, Biruintei, 077145, Pantelimon, Bucuresti, Romania*

Abstract: The histocompatibility of an implant into bone tissue and into gingival mucosa represents an area of great interest for researching various types of biomaterials. Therefore, a large number of studies are conducted focusing on themes which permanently attempt to optimise the interface between implant / maxillary bone / gingival mucosa. Our research pursues the qualitative analysis of hydroxyapatite deposits by using the spin coating method, as well as assessing these deposits by using an electron-scan microscope. The characteristics of films thus obtained, including adherence to the substratum, depend on deposit parameters, on the doped material and on the thermal treatments following the deposits.

Keywords: dental implant, hydroxyapatite, spin coating.
