

## THREE DIMENSIONAL PRINTING IN DENTISTRY

*Marko Igić<sup>1</sup>, Milena Kostić<sup>1</sup>, Stefan Dačić<sup>2</sup>, Ana Pejčić<sup>3</sup>, Branislav Vidović<sup>4</sup>*

<sup>1</sup>University of Niš, Medical faculty, Department of prosthodontics, Niš, Serbia

<sup>2</sup>University of Niš, Medical faculty, Department of Operative dentistry and Endodontics, Niš, Serbia

<sup>3</sup>University of Niš, Medical faculty, Department of Oral medicine and parodontology, Niš, Serbia

<sup>4</sup>Specialist dental practice Ortis, Novi Sad, Serbia

Contact: Marko Igić  
Cvijićeva 21/15, 18000 Niš, Serbia  
E-mail: saigic@yahoo.com

Three-dimensional printing is a method that has found its application primarily in industry but also increasingly in medicine. In order to reach the desired shape of an object that would be formed using three-dimensional printing, specialized programs are used to draw three-dimensional objects, or special equipment designed for three-dimensional scanning. The three dimensional printing which is used in medicine can already be classified on the basis of the techniques and materials used in the preparation of the desired product. This technology can be used at every stage of making dentures, starting with the development of a study model, to the definitive development of mobile and fixed restorations. In order to obtain adequate prosthetic restorations bioprinting technology should be set aside from three-dimensional printing of non-living materials. In this way a series of tissues used in dentistry may be created: the printing of the skin and mucous membranes for covering defects on the face or mouth, the formation of bones and joints, artificial nerves, blood vessels, muscles, etc.

*Acta Medica Medianae 2018;57(3):130-134.*

**Key words:** scanner, materials, 3D printing