



Journal of Prosthodontics Dentistry
An Official Publication of Bureau for Health & Education Status Upliftment
 (Constitutionally Entitled As Health-Education, Bureau)

An insight to the Art and Development of applied Tessellation in the field of Prosthodontics

K.Tejasri, Shakti Akash Raj.V, Annapoorni.H

K.Tejasri, Post graduate, Department of Prosthodontics, Meenakshi Ammal dental college and hospital, Alapakkam main road, Chennai-95, Tamil Nadu, India

Corresponding author:

Dr. Shakti Akash Raj.V M.D.S., Assistant Professor, Department of Prosthodontics, Meenakshi Ammal Dental College & Hospital, Alapakkam main road, Chennai-95, Tamil Nadu, India


Dr. Annapoorni.H M.D.S., Head of Department, Department of Prosthodontics, Meenakshi Ammal Dental College & Hospital, Alapakkam Main road, Chennai – 95, Tamil Nadu, India

Email Id: serviceheb@gmail.com

ABSTRACT:

Various technological innovations are playing a very important role in medical and dental field. Manufacturing technologies have emerged in the past few decades that address requirements in a customized way and produce prototypes. This new technology is known as Rapid Prototyping. Standard tessellation language is the format used in rapid prototyping technology to produce 3D models. They allow the production of prototypes in wide range of materials with remarkable precision in a couple of hours. Digital dentistry has become integral part of dental treatment. In the early days CAD/CAM systems completely relied on subtractive methods of manufacturing. But in the past few decades Rapid prototyping has been one of the fastest developing technologies in the world and has been actively used in various fields of dentistry. This technology has been used since the 1990s to build complex 3D models in the field of medicine. RP technology is successfully used in the field of prosthodontics in the fabrication of implant surgical guides, wax patterns for dental prosthesis, zirconia prosthesis, molds for metal castings, complete dentures, frameworks for fixed and removable prosthesis and finally in the construction of maxillofacial prosthesis. This review article aims to offer a comprehensive literature review of various applications of Rapid prototyping technologies that has progressively improved the field of prosthodontics.

Keywords: Tessellation , Rapid prototyping, CAD/CAM, 3D models, Prosthodontics

Access this Article Online	Quick Response Code: 
Website: http://heb-nic.in/jopd	
Received on 26/08/2020	
Accepted on 21/09/2020 © HEB All rights reserved	