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3D printing in dentistry

Clinical works within dental arch and facial skeleton requires high precision and accuracy to produce optimum aesthetic results. The availability of the software that able to reformat CT scan and MRI image into 3-dimension and later produce a life size model by stereo lithography (STL) had offered better treatment facilities in dental practice. The various possibility of using this technology to facilitate the dental and maxillofacial procedure was explored. Current application in dentistry includes diagnostic, treatment planning, and prediction of treatment outcome, patient communication, and virtual reconstruction of loss hard tissue, fabrication of implant and placement of tissue or implant. Various cases that utilize this technology to achieve optimum results in their management were reported. The advantage and limitation of this technology were briefly discussed and documented.

Biography

Zainal Ariff Bin Abdul Rahman is the Professor at Department of Oro-Maxillofacial Surgical & Medical Sciences, Faculty of Dentistry, University of Malaya, Kuala Lumpur. He has published more than 38 papers in reputed journals.

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