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Microbiological analysis of teeth with chronic apical periodontitis and the outcome of treatment by guttapercha points impregnated with either calcium hydroxide or chlorhexidine as intra canal medicament

Marwa Sharaan
Gulf Medical University, UAE

Patients in the cranio-maxillofacial clinic often present with serious, complex, and potentially life-threatening or life-limiting medical conditions (e.g. tumor, trauma, aggressive osteomyelitis). Available treatments may not always give satisfactory results for patients and doctors. Therefore, complex problems ask for new solutions. An emerging technique in the medical field is Computer Aided Design (CAD), Computer Aided Manufacturing (CAM) by 3D printing. For successful implementation of CAD-CAM technology in the clinical practice doctors, dentists and engineers need to work together and share their expertise. This intense cooperation leads to 3D printing of custom patient specific implants. 3D printed implants are used for the treatment of skull defects, dental superstructures and world's first 3D printed entire mandible replacement implant. These clinical cases will be highlighted.

marwa_sharaan@hotmail.com