

10th Dentists and Prosthodontics Annual Meeting

June 27-28, 2016 New Orleans Louisiana, USA

Applications of digital dentistry in modern dentistry, from virtuality to reality

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Digital dentistry is now very widely accepted and is already in use in dental practice all over the world. This presentation will demonstrate how this innovation can provide the dentist with useful diagnostic information and additional treatment skills. This concept can integrate and combine a many different specialities together to produce a standardized computer generated surgical and restorative dental solutions guides for the patients by allowing the operator and general practitioners to apply the predetermined treatment plan for different surgical and prosthetic treatments that are difficult or even impossible to obtain by conventional methods. In this presentation, computer guided implant surgery will be discussed in detail from A to Z, starting from the CBCT scanning protocol till the drilling protocol and types of drilling systems. Also in this presentation the types of computer generated surgical stents used for orthognathic surgeries will be highlighted. Also planning for different types of prosthetic restorations can be planned in three-dimensional aspects and also executed. In addition the translation of the digital smile design can be planned and physically achieved by the aid of many 3rd party softwares. Finally, other applications of digital dentistry will be mentioned briefly.

Biography

Khaled Ekram has completed his DDS, BDS and PhD from Cairo University, Egypt. He is currently working as an Assistant Professor of Oral and Maxillofacial Radiology, Faculty of Oral and Dental Medicine, Cairo University. He is a senior consultant of Oral and Maxillofacial Radiology, member of European Association of Dento-Maxillofacial Radiology (EADMFR), member of International Association of Dento-Maxillofacial Radiology (IADMFR) and program instructor for continuous education courses, Faculty of Oral and Dental Medicine, Cairo University, Egypt (2010-2014).

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