3D PRINTING FOR YOUR PRIVATE PRACTICE
A Step-By-Step Protocol for In-House 3D-Printing Workflows

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3D printing has become an increasingly popular modality and is rapidly replacing traditional manufacturing techniques in the field of dentistry. The use of in-house 3D printer in a dental office can enhance the efficiency and cost-effectiveness of dental treatment. There are many different types of 3D printers in the market that differ in their manufacturing technique and digital workflow.

This course will delve into the principles of 3D printing technology and its practical applications in dentistry, including the fabrication of surgical guides, dental models, night guards and other prosthetic components. We will explore the efficiency of 3D printing compared to traditional method and discuss how it enhances treatment planning and patient outcomes. Whether you are an experienced practitioner looking to integrate advanced technology into your practice or planning to invest in a 3D printer, this course will offer valuable insights into the transformative potential of 3D printing in modern dentistry and its immediate benefits to your private practice.

The course will include a lecture component (morning) and hands-on (afternoon). The morning lecture, available to all dental professionals, will focus on principles and step by step protocols for 3D printing utilizing an in-house workflow for your dental practice. It will also discuss innovative techniques for using additive manufacture efficiently and why it is good for you. The hands-on component, available to dentists only, will include intraoral scanning followed by the process of designing and fabricating an occlusal night guard using a fully digital 3D-printing workflow.

EDUCATIONAL OBJECTIVES

• Understand the fundamental principles of 3D printing technology and their application in digital dentistry.
• Learn the step-by-step process of fabricating dental models, surgical guides, night guards, and other prosthetic components using 3D printing technology.
• Evaluate the cost effectiveness of 3D printing compared to traditional manufacturing methods in dentistry.
• Explore software tools and techniques for designing and optimizing 3D printing.
• Learn to troubleshoot common challenges encountered during the 3D printing process.
• Discuss case studies and application showcasing the benefits of integrating 3D printing technology

CLINICIANS

Dr. Mohamed Gebril, BDS, MESC, MSC, Dip (Prosthodontics), FRCD(C)

Dr. Faisal Al Assadi, BDS, PGCert HPE, MSC, Dip (Prosthodontics), FRCD(C)

Dr. Gebril is a board-certified specialist in Prosthodontics. He maintains a Prosthodontist position in private practice along with his teaching, research and clinical supervision duties. He has published extensively on rehabilitation of failing dentitions and digital technology. Dr. Gebril is also involved in continuing education on both national and international levels with different courses in Prosthodontics and Digital Dentistry. Dr. Gebril is the module coordinator of the Graduate Prosthodontics Digital Dentistry course and is involved in teaching innovative digital technology for both the graduate and undergraduate (DMD) programs. His research career and publications include digital workflows using intraoral scanners and 3D printing technology for the fabrication of aesthetic implant supported prostheses.

Dr. Al Assadi offers a variety of dental treatments encompassing aesthetic smile makeovers and functional rehabilitations through restorative procedures such as crowns, veneers, dentures, and implant-assisted prostheses with a complete digital workflow.

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