

Module 1
Introduction to dental implantology
(Basics and surgical insertion)
20th and 21th June 2014

Learning objectives/module 1:

- Definition of dental implant, history and dental implant components
- The clinical indications for using dental implants
- Treatment options for missing dentition
- Surgical techniques used to place implants
- Anatomical considerations
- Soft tissue considerations and flap designs
- Oral health and dental implants
- Hands on practice on placing dental implants on jaw models

*** Hands on session (Practical surgical implantology on models):**

Venue: Prosthodontic lab, 1st floor, Faculty of Dentistry.

Participants will be introduced to dental implant surgical kits and surgical instruments used in implant dentistry and surgical dentistry, followed by a practical exercise on placing dental implants on models. In addition, there will be an illustration of basic anatomical features of oral hard and soft tissues with emphasis on vital anatomical structures in the region.

Module 2
The Practice of Dental Implantology
(Planning, clinical scenarios and clinical photography)
22,23,24 June 2014

Learning objectives/module 2:

- Treatment planning steps for various clinical scenarios
- Knowledge and application of advanced radiological technology relevant to dental implantology
- Dental implantology in daily practice
- Surgical anatomy of the jaws
- Overcoming anatomical and histological challenges in placing dental implants
- Medical evaluation of the dental patient, relative risks of dental implantology and pharmacology.
- Science and art of clinical photography

*** Hands on session**

Participants will have the opportunity to practice designing and performing different types of flaps and suturing techniques on models. . In addition, there will be an illustration of basic anatomical features of oral hard and soft tissues with emphasis on vital anatomical structures in the region.

Day 3 Clinical Dental Photography: Professional Photographic Records in Daily Practice

Objectives

This full-day interactive course is designed and geared towards introducing Clinical Digital Photography to interested GDPs and Dental Specialists.

1. It aims to explain the reasons *why* clinical photographic records are necessary and important to clinicians as an aid to patient assessment and treatment planning, as a motivational aid for patients, as a means to increasing our own clinical competence, as a means to achieve publication-worthy photographic records and - last but not least - for important medico-legal considerations.
2. It will also enable the clinician to understand the basics of dental photography, related equipment and post-processing. Through hands-on clinical demonstration and experience; the step-by-step record-taking procedure will be demonstrated, including many useful tips that will make it easy for clinicians to achieve outstanding clinical photographs of their treated cases, using the simplest possible means.

Course Outline

The course will be divided into the following sections:

1. Significance & Clinical Photographic Technique

- The Significance of Clinical Photography.
- The Basics: *General Concepts in Photography*.
- Relevant Gear & Equipment & Camera Settings Guidelines.
- Requirements of Professional Clinical Photographs.
- Clinical Photographic Technique in Practice.

2. “Hands-on” demonstration and record-taking session:

Following an initial step-by-step demo by myself, attendees will be divided into several groups of three, who will rotate to perform the necessary roles of *Photographer*, *Assistant* and *Patient*. This enables complete understanding of each role during the process of photographic record taking.

This “hands-on” session will be supervised by the course presenter (myself) and photos taken by each participant will be downloaded to their own Laptop for personal and group assessment during the final presentation session.

3. Post-Processing, Back-up & Filing

- Image Processing Requirements and Technique.
- Preparing Photographs for Presentations & Print: Basic Concepts.
- Photographic Records Filing & Backup

4. Run-down & Discussion of Group Photos (from Hands-on Session)

Assessment and presentation of each groups’ photographs - taken during the clinical demo session and will include an open discussion of the presented photos’ weaknesses and strong points, according to the standard criteria presented previously.

- Handouts of my self-published ebook “*A Short Guide to Clinical Digital Photography in Orthodontics | Second Edition (2011)*” will be distributed to all participants at the end of the course, for future reference.

NB. A laptop for downloading the group practice’s digital images (to be brought by each participant).

Module 3

Treatment planning and observship module

25-26 June 2014.

- **Delegates are required to attend for at least 3 hours/ wk for the duration of 3 months to attend surgical / prosthetic clinics to observe clinical work related to implant.**
- **Delegates are required to discuss their planned cases with surgical and restorative consultants**
- **All pre-implant restorative/rehabilitation work should be carried out during this phase.**
- **The planning phase should be completed during this module**

CME hours for this module = 24 hrs

Module 4

8, 9 & 10 August 2014

Basics of Oral Implantology

Implants for the medically compromised patient

Implantologists are confronted with an increasing number of medically compromised patients who require implant surgery for their oral rehabilitation. The literature contains numerous observations on the significance of systemic disorders as contraindications to implant treatment. However, evidence based guidelines on dental implant therapy in this patient category are lacking. Consequently, several issues regarding pre and post operative management of these patients remain unclear to clinicians. Therefore, the purpose of this module is to update dentists about the implications of the more common and relevant systemic diseases on implant therapy.

Module 5
11 August - 4 September 2014
Dr.A. Abu-Karaki

1st Surgical phase

Participants have started placing implants .

Each participant required to place a minimum of 4 implants by himself to the patient that was prepared before. During the rest of the module, each participant will be given abundant chance to observe other surgical operations performed by the other participants before and after he finished his/her case.

CME hours for this module = 40 hrs

Module 6
Soft-Tissue Management
26 & 27 September 2014

This session will focus on describing the soft tissue interface around dental implants and its management. This includes non-surgical as well as surgical procedures and techniques applied for soft tissue management. Moreover, innovative procedures, such as navigation, PRP, and microsurgery will be addressed, as well as the relationship between soft and hard tissues around dental implants. In addition, some administrative issues need to be addressed, such as the professional organizations of practicing implantologists and appropriate invoicing of services rendered. The initial focus will be on reinforcing the knowledge of soft-tissue management measures.

Hands-on session:

Training on different soft tissue procedures:

- Free gingival graft
- Sub-epithelial connective tissue grafts (associated with coronally advanced flaps, envelop, or tunnel techniques)
- Pedicle grafts
- Rotated flaps
- Coronally advanced flaps
- Palatal pedicle flaps

Module 7
Prosthodontics of Oral Implantology
17, 18 October 2014

This session will deal with esthetics and an introduction to implant prosthetics. We will discuss soft tissue management as an important key to implant success. The basic procedures in implantology prosthetics will be shown.

CME hours for this module = 12 hrs

Module 8

Bone management and augmentation procedures / Implant for the Medically Compromised 13,14 November 2014

This session will focus on summarizing of the subjects previously covered and an outlook on advanced methods. This includes innovative procedures, such as navigation, PRP, and major surgical procedures. In addition, some administrative issues need to be addressed, such as the professional organizations of practicing implantologists and appropriate invoicing of services rendered.

The initial focus will be on reinforcing the knowledge of soft-tissue and bone management measures. In particular, “major” surgery methods like bone transplants and distraction osteogenesis will be discussed, along with additional soft-tissue management measures. Another focus of the week will be on the proper relationship between inpatient and outpatient treatment. Sinus-lift surgery with conventional fenestration technique · Management of rhinological complications associated with sinus lift procedures · Alveolar extension plastic surgery and micro osteosynthesis technique ·

Bone grafting techniques

This session will include hands on training on models (or animal parts) on bone harvesting techniques form oral sites. In addition, it will include sinus lift training exercise.

CME hours for this module = 11.5 hrs

Module 9

3D Imaging in Implant Treatment Planning

12 & 13 December 2014

Module objectives:

This module focuses on the 3D radiographic planning of implant therapy. Introduction in 3D anatomy and basic 3D interpretation will be provided. That will be followed by an open discussion of all the cases that has been planned based on 3D imaging during this course. The second day will be dedicated to the discussion of using planning software and surgical guides in implant therapy. Hands-on training on real cases will take place on the afternoon of the 2nd day.

Intended learning outcomes:

- The participants should understand Multiplaner views and secondary reconstructions.
- The participants should become familiar with 3D anatomy in the Maxillofacial area.
- The participants should be become familiar with different implant planning software.
- The participants should be able to plan 1 case using the provided software.

CME hours for this module = 12 hrs

Module 10
Three Saturdays in November 2014

- **All delegates are required to bring their patients for second stage surgery during this week** *Each participant was required to uncover the submerged implants that he placed at module 7. Depending on the case different soft tissue management protocols were adopted. During the rest of the module each participant was given abundant chance to observe other 2nd stage surgical operations performed by the other participants before and after he finished his case.*

CME hours for this module = 18 hrs

Module 11

Implant prosthodontic phase

- **All delegates are required to bring their patients for impression making, try in and fit of abutment and crowns, and recall visits.** *Each participant is required to make impressions for his/her cases, participate in models production, verify the implant models through verification jigs, take a facebow record, and a maxillomandibular record and participate in mounting the models on a semiadjustable articulator. During the rest of the module each participant will be given abundant chance to observe other prosthetic treatments performed by the other participants before and after he finished his /her case.*
- **This spanned over two months February 2015 (mid term holiday) and Saturdays**

CME hours for this module = 40 hrs

Module 12
Special Aspects of Implant Prosthodontics
21 & 22 February 2015

Implant prosthodontics is a particularly demanding field. Important decisions concerning this issue are made early, while discussing and planning the treatment with the patient. A reasonable balance must be established between the patient's expectations and the options provided by implantology and prosthetics. Knowledge of function as an integral part of complex therapies is an important parameter in this context.

CME hours for this module = 14 hrs

Module 13
Internships and Supervision Clinical Prosthodontic Part
March 2015

CME hours for this module = 14 hrs

Module 14
2nd part of prosthodontics rehabilitation

CME hours for this module = 40 hrs

Module 15
Case Presentation and Examination
April 2015

CME hours for this module = 6 hrs