**NEW COURSE**

**Foundation Level Implant Modular Course**

ADA NSW CPD and ITI Collaboration

Presented by various specialists

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**COURSE OUTLINE**

This foundation level course is intended for dental practitioners wishing to develop their theoretical knowledge and practical clinical experience in the treatment planning, surgical placement, restoration and maintenance of dental implants.

Knowledge is developed using distance learning modules and study days with hands-on components. The course is a multi-system, dental implant course which will enable the participants to make an informed evidence-based decisions in their day to day dental implant practice and will train participants to understand the surgical and restore phases of dental implants therapy.

The modules consist of a blended online learning platform based on an internationally recognised curriculum, live lectures to consolidate the online materials and hands-on practical component. The importance of the restorative dentist and a restoratively driven treatment plan in dental implant therapy is emphasised.

The course is divided into three parts:

- The didactic part will be conducted in the form of online learning modules and online lectures via ITI Online Academy; group discussion, review of literature, and case presentations.
- Hands-on workshops will be conducted in the form of demonstrations and laboratory exercises and actual case discussions.
- Surgical and prosthetic demonstrations.

**LEARNING OBJECTIVES**

**Theoretical**

- Foundation level knowledge in implant dentistry
- Select patients for implant surgery and restorations
- Set treatment plans for implant cases and recognise possible local and systemic risk factors
- Understand the surgical and restorative aspects of implant treatment, in particular, single and multiple cases
- Choose the appropriate surgical and restorative approaches
- Understand patient pre- and post-operative care
- Implement dental implantology into their dental practices
- Get practical tips on how to avoid common pitfalls and complications in oral implantology

**Clinical**

- Implement the biological reactions of tissues (hard and soft) to surgery during treatment with special consideration of healing factors capable of interfering with this process
- Become familiar with the “team” concept of dental implant therapy, with particular reference to the comprehensive treatment planning of patients
- Describe and recognise surgical and restorative indications and contra-indications to dental implant therapy as part of an integrated treatment planning process
- Understand the treatment planning factors associated with dental implants.
- Understand the construction of radiographic and surgical guide
- Describe the biologic reactions of tissues (hard and soft) to surgery during treatment with special consideration of healing factors capable of interfering with this process
- Become familiar with the “team” concept of dental implant therapy, with particular reference to the comprehensive treatment planning of patients
- Describe and recognise surgical and restorative indications and contra-indications to dental implant therapy as part of an integrated treatment planning process
- Understand the treatment planning factors associated with dental implants.
- Understand the construction of radiographic and surgical guide

**Module 1: Introduction and Implant Treatment Planning**

**Dates: 9-10 February**

Each participant will become familiar with the biologic and biomechanical basis of osseointegration, highlighting the interface between the implant surface, bone and soft tissue. The course will discuss the efficacy of CBCT imaging for use in implant dentistry. CBCT applications for implant planning, site assessment and treatment planning will be discussed.

The focus will be on pre-treatment diagnosis and identification of factors relevant to the selection and planning of dental implant patients. Each participant will become familiar with criteria for patient selection and factors that contraindicate care. Specific attention will be given to the categorisation of patients according to the difficulty of treatment. The interaction between the members of the treatment team will be detailed and related to maximising clinical outcomes while maintaining practice efficiency. Each participant will be introduced to the concept of digital implant planning, highlighting the difference between analog vs. digital surgical guide construction.

**Objectives:**

- Review and become familiar with anatomy and biology as it relates to the placement and restoration of dental implants
- Describe the interface between bone and currently used dental implants, with emphasis on the interaction between the surface morphology, implant component design and the bone response

**Module 2: Surgical Aspects of Implant Therapy**

**Dates: 4-5 May**

The second module is intended to concentrate on a simplified technique for successful placement of dental implants. Surgical field preparation protocol (surgery and stent) will be discussed relevant to implant placement. Pharmaceutical requirements, instrumentation and surgical techniques will be highlighted for the placement and post-surgical maintenance of dental implants. This session will include an overview on surgical considerations for esthetic implant restorations along with a live surgery to explore flap design, soft and hard tissue management, suturing technique, control of bleeding and actual implant placement.

Potential surgical complications will be discussed along with mechanical and restorative potential complications. Preservation of soft tissue integrity and the blood supply will be discussed. This hands-on approach will advance the cases initiated in the treatment-planning weekend through implant placement in pig jaw surgery.

**Objectives:**

- Observe live surgical implant demonstration on patient
- Acquire information on site development and prosthetics in the aesthetic zone
- Be introduced to bone grafting manipulation techniques, maxillary sinus augmentation (sinus lift), block graft and guided bone regeneration as part of site development
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**Module 3: Prosthetic Aspects of Implant Dentistry**

**Dates: 3-4 August**

The third module is intended to concentrate on restorative aspects of implant treatment. Each participant will become familiar with the rationale of cement vs screw retained implant restorations.

The focus will be on various prosthetic components for implant restorative solutions: e.g. impression and abutments needed to restore a single implant crown.

Each participant will become familiar with differences and similarities of components of different implant systems. Potential prosthetic pitfalls will be discussed. The hands-on workshop describes a prosthodontically driven approach to planning, preparation and making of an analog impression. A systematic workflow with logical steps is advocated to determine choice of implant, impression component and related impression technique. Each participant will be exposed to the potential of CAD CAM restorative solutions for their clinical practice.

**Objectives:**

- Observe the prosthetic aspect of a live patient
- Determine the method of retention of implant restorations and their rationale
- Define analog (conventional) implant impression
- Select conventional implant impression components and techniques
- Compare and contrast the different systems, prosthetic components and their indications for each case

**Module 4: Maintenance and complication**

**Dates: 26-27 October**

Maintenance of both implant prostheses and peri-implant tissue health are critical to the long-term survival, success, and benefit of implant therapy. This module will discuss the baseline data to be recorded at the time of prosthesis delivery against which to compare the condition of implants and prostheses over time. The focus will be on the importance of overall periodontal health for the successful outcome of treatment as well as its positive impact on self-reported quality of life.

Communication to all members of the team is important. Various information such as type of abutments, shade and contour need to be conveyed to the laboratory to achieve the best restorative result.

**Objectives:**

- Understand the restorative steps for implant delivery and observation on live patient
- Aware of potential prosthetic pitfalls
- List the baseline documentation that needs to be recorded for continuing care
- Indicate appropriate oral hygiene advice and techniques for implant prosthesis
- Outline the clinical parameters that are required to monitor peri-implant soft tissue health
- Explain the importance of long-term professional and personal maintenance to avoid biological complications
- Explain the concepts of “duty of care” and “ethical obligations”
- Communicate with the laboratory aspects of implant treatment using written communication and using appropriate components.