

## **Theory and Hands on Program Basic Course in dental Implantology**

**4.5 hours**

Basic Dental Implantology

### **Course overview**

This course is designed for beginners in dental implantology who want to start with inserting of dental implants in uncomplicated cases in their office. The program is designed to present the clinical oral anatomy and the basics of the dental implantology step by step from a to z. suture technique and possible complications.

### **Purpose**

By the end of this training program, the attendees should understand and be able to handle and treat uncomplicated cases in inserting of dental implants and know the surgical procedures and protocol. They should be able understand and estimate when and how to treat simple cases and avoid pitfalls. To know how to deal with complications in dental implantology.

### **Learning outcome**

The attendees should:

- Understand and refresh the knowledge of oral anatomy
- Understand the materials used and their biological behavior.
- Understand Indications and how to plan cases
- Understand the surgical procedures and protocol.
- Learn flap performance and sutures possibilities
- Understand complications and how to deal with it

**Participants**

Beginners Implantologists

**Time disposition**

4.5 hours

**Lectures & responsibility**

The courses are presented by a clinician trained and experienced in dental implantology procedures, along with support from CORTEX representatives.

**Lecturer material**

- Speaker notes (for presentation)
- Introduction presentation (To be given by the CORTEX Representative)
- Hands-on presentation(s)/Animal jaws
- PowerPoint template, CORTEX branded

The lecturer should utilize the PowerPoint presentation as a template for the program and integrate their material and cases into the presentation.

**Participant material**

- Speaker notes (PowerPoint slides as notes pages), to be distributed with other course materials
- Hands-on printed material, to be distributed prior to the workshop(s)
- Hands-on digital material, to be distributed after the workshop

## Course content

- Oral Anatomy
- The anatomical structures and their biological behavior (Osteointegration)
- The history of dental implantology
- The design of implants
- The features and benefits working with dental implants
- Planning simple cases
- Implant placement step by step
- Suture technique
- Recall and complications
- A formula to successfully integrate implants into private practice
- Hands on training and, if applicable, live surgery (can be recorded in advance)

The course agenda is designed to provide a consistent lesson and should be followed as much as possible. Time and disposition may be changed by the lectures.

<b>Equipment and components</b>	<b>No. of copies</b>
- Surgical Motor	1
- Surgical Core kit	1
- Practicing Animal Jaw	1
- Suture material	
- Cortex implants: (Dynamix or Classix 3.8 /11.5mm x2, 4.2/8mm x2) None sterile	4
Manuals:	
- Cortex Products Catalog	
- CD- Cortex implants Surgical Procedure	1
- PowerPoint handouts with note fields	1

<b>Sales</b>	<b>No. of copies</b>
Sales offer presented and distributed at the end of day 1 contains:	
- Sales brochures	1 per participant
- Sales offer containing a basic surgery kit	1 per participant

### **Confirmation Letter**

- Add a few survey questions to the registration form, in order to establish the participants implant experience. (e.g., Do you currently restore implants? What implant systems are you currently using and what did you use in the past?, etc)

<b>1. Introduction</b>	<b>15 min.</b>
<b>Responsible:</b> CORTEX Representative and Lecturer	
<b>Purpose:</b> The objective of the intro/closing sections is to create the CORTEX <i>family</i> feeling, give participants confirmation that they made the correct choice by selecting a CORTEX course. It will clearly show the benefits for the participants, and sets the stage for the course.	
<b>Learning outcome:</b> The participants should: <ul style="list-style-type: none"> <li>- Be ensured that CORTEX is the worldwide leader in implant solutions and training and education.</li> </ul>	

#	Content	Description
1	DVD – “CORTEX History”. 4.5 minutes.	<ul style="list-style-type: none"> <li>- The DVD to be shown is the “CORTEX History”</li> <li>- The purpose of the movie is to start conveying a feeling of “Yes! I am in the right place”</li> </ul>
2	CORTEX representative introduction. 4-6 minutes.	<ul style="list-style-type: none"> <li>- Course introduction, PowerPoint presentation, and speaker introduction</li> </ul>
3	Speaker presentation. 4 minutes.	<ul style="list-style-type: none"> <li>- Speaker welcomes the participants</li> <li>- Speaker presents him- or herself, the participants present themselves to each other (if appropriate)</li> </ul>

<b>2. Clinical Anatomy</b>	<b>45 min.</b>
<b>Responsible:</b> Lecturer	
<b>Purpose:</b> To present the importance of clinical anatomy for the dental implantology considerations of clinical aspects.	
<b>Learning outcome:</b> The participants should: <ul style="list-style-type: none"> <li>- Understand the anatomy of bone and soft tissue, clinical use of the anatomy to avoid pitfalls.</li> </ul>	

#	Content	Description
1	Oral anatomy	<ul style="list-style-type: none"> <li>- Lower jaw</li> <li>- Upper jaw</li> </ul>
2	Special important anatomical structures	<ul style="list-style-type: none"> <li>- Mental nerve</li> <li>- Maxillary sinus</li> </ul>
3	Clinical use of the anatomy to interpretive CBCT	<ul style="list-style-type: none"> <li>- To avoid severe complications</li> </ul>
4	Bony structures and bone density	<ul style="list-style-type: none"> <li>- Important in planning clinical cases</li> </ul>

<b>3. Local Anesthesia, dental implants history, materials and biological behavior</b>	<b>30 min</b>
<b>Responsible:</b> Lecturer	
<p><b>Purpose:</b> To provide a comprehensive knowledge in local anesthesia especially in performing block anesthesia of the inferior alveolar nerve. Overview of the dental implants history, the used materials and their biological behavior.</p>	
<p><b>Learning outcome:</b> The participants should: Understand all basics about what they are dealing with.</p>	

#	Content	Description
1	General knowledge	<ul style="list-style-type: none"> <li>- Performing LA</li> <li>- History</li> <li>- Materials</li> <li>- Biological interaction</li> </ul>
2	Finite Element Analysis	- Results
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		-
		-

		-
3	Technical data	- Power point presentation

<b>4. Planning and inserting implants step by step</b>	<b>60 min.</b>
<b>Responsible:</b> Lecturer	
<b>Purpose:</b> To learn how to plan simple cases and perform surgery	
<b>Learning outcome:</b> The participants should: <ul style="list-style-type: none"> <li>- Understand that dental implants are essential in every dental office.</li> <li>- Know how to deal with basics and beginners cases.</li> <li>- Good planning and performing dental implants from A to Z</li> </ul>	



#	Content	Description
1	Case reports	-

<b>5. The surgical protocol, flap design, suture technique, Recall and complications</b>	<b>60 min.</b>
<b>Responsible:</b> Lecturer	
<b>Purpose:</b> To provide a comprehensive knowledge of the surgical aspects of dental surgery. Knowing the surgical catalog. Understand to recognize and deal with complications	
<b>Learning outcome:</b> The participants should: <ul style="list-style-type: none"> <li>- Understand that dental implants are essential in the modern dentistry</li> <li>- Understand the surgical protocol from flap raising to flap closure</li> <li>- Know the unique characteristics, benefits, indications and pitfalls of the dental implants.</li> </ul>	

#	Content	Description
1	Implant dimensions	- Implant lengths, diameters
2	Dental implants insertion options	- Manual - Manual torque wrench surgical - Surgical driver - Drilling unit - Drills -
3	Surgical protocol	- Bone types - Implant's diameters - Surgical kit
4	Immediate implantation	- Standard placement - Drilling in the palatal wall - Changing direction
		-

5	Live surgery/film	- Live surgery if possible, otherwise show a film demonstrating the placement of dental implants

6	Clinical Evidence	- Power point presentation "Clinical Evidence"

<b>6.</b>	<b>Hands-on surgical workshop</b>	<b>1 hour</b>
<b>Responsible:</b> Lecturer and CORTEX Representative		
<p><b>Purpose:</b> Provide participants with a tactile feeling for the products, components, instruments and protocol. Through practical exercises developing the knowledge of surgical aspects and techniques necessary in dental implantology.</p>		
<p><b>Learning outcome:</b> The participants should:</p> <ul style="list-style-type: none"> <li>- Know the steps and sequence of dental implants placement.</li> <li>- Feel comfortable with the surgical aspects and techniques used to place dental implants.</li> <li>- Know the surgical procedure to make a flap</li> <li>- Practicing suture techniques.</li> <li>- Learn about complications in dental implantology</li> </ul>		

#	Content	Description
1	Surgical hands-on, Introduction	<ul style="list-style-type: none"> <li>- PowerPoint presentation introducing the hands-on, by lecturer</li> <li>- Film showing hands-on surgical session</li> </ul>
2	Surgical hands-on	<ul style="list-style-type: none"> <li>- Printed PowerPoint handouts for participants to use as support material</li> <li>- Animal jaws, implants, surgery kits</li> <li>- Flap procedure</li> <li>- Immediate implantation</li> <li>- Suturing</li> </ul>



<b>7.</b>	<b>Wrap-up and course evaluation</b>	<b>15 min.</b>
<b>Responsible:</b> Lecturer and CORTEX Representative		
<b>Purpose:</b> To confirm the key issues and messages of the course. To ensure the participants leave with the confidence and enthusiasm to take the next step and support a decision to start using Cortex implants.		
<b>Learning outcome:</b> The participants should: <ul style="list-style-type: none"> <li>- Know the features and benefits of dental implantology</li> <li>- Understand that dental implants give huge solution possibilities for your patients</li> <li>- Leave confident and motivated to integrate dental implants in to their practices.</li> </ul>		

#	Content	Description
1	Wrap-up	<ul style="list-style-type: none"> <li>- An essential summary of the key issues of the course</li> <li>- Follow-up the sales offer presented to the participants at the end of the first day (attractive)</li> <li>- Time for questions and discussions</li> </ul>
2	Course evaluation	<ul style="list-style-type: none"> <li>- Distribute the course evaluation questionnaire to each of the participants to collect their feedback and input for improvement</li> <li>- Distribute a printed and signed course certificate to each participant</li> </ul>