



GUIDED IMPLANT SURGERY AND DIGITAL CAD/CAM WORKFLOWS

From Basic to Advanced

DATE: 17th – 18th of November 2022

Keep up with the ever-changing cutting-edge techniques and materials!

LECTURERS

FUNDAMENTALS OF IMPLANT PLACEMENT

In this course we will show you the basics of implant placement from surgery planning to the entire restorative design process so that you can create beautiful restorations that fit perfectly with no further adjustments needed. Learn from our years of implantology experience.

FUNDAMENTALS OF CAD/CAM DESIGN

Everything you need to know about the CAD/CAM design. We cover a complete overview of CAD/CAM design materials and equipment and the key aspects to consider when designing restorations so that you can create beautiful restorations that fit perfectly with no adjustment required at all. Learn from our CAD/CAM experts.

We will go over designing a restoration from start to finish for both implant and tooth supported restoration.

It is time to improve your CAD/CAM designs. If you want to learn how to efficiently create laboratory quality restorations in-house, this is the course for you.

STEP BY STEP CAD/CAM DESIGN PROGRAM

- Learn the basics of implant placement
- Learn the basics of modern conservative tooth preparation design for digital workflows
- Learn how to scan for single tooth, full mouth, and implant restorations
- Learn how to quickly design a perfect fitting restoration
- Learn the fundamentals of CAD/CAM chairside materials
- Learn milling, processing, and finishing of the final restoration
- Learn how to avoid and correct some common design errors
- Design demonstrations from start to finish with CEREC equipment

CLINICAL CASE

BEFORE



AFTER



Marco Tudts
D.D.S M.Sc.D
Head of Advisory Board CAD/CAM



Stephan Lampi
B.D.S. M.D.T. B.B.A.
CEO & founder edelweiss dentistry



Desigar Moodley
PhD, Msc Dent, PDD Aesthetic, B.D.S.
Chief Scientific Officer



Thomas Lampi
C.D.T.
Director of Digital Dentistry

WORKSHOP CONTENT

WHAT TO EXPECT FROM THIS COURSE?

Step by step protocols will be given for:

- Digital Implant case planning
- Digital CAD/CAM case planning
- Intra-oral dental scanning
- Intra-oral implant scanning
- Selection of appropriate CAD/CAM restorative material
- Digital milling procedures
- Cementation techniques
- Patient follow-up

WHO SHOULD ATTEND?

Dental professionals from various specialties including general practitioners, endodontists, implantologists, periodontists, prosthodontist, conservative dentists, and dental technicians that want to improve their skills in CAD/CAM restorations and/or implant placement.

COURSE BENEFITS

Following this course, you will be able to:

- Learn to scan on teeth & implants, full mouth, quadrant or sextant.
- Learn to work with commonly used digital files and how to open, send and receive them
- Learn digital workflow protocols from basic to advanced clinical cases
- Learn the indications for immediate implant placement
 - How to communicate with the implantologist and the laboratory
 - Collect adequate information for correct planning
 - How to analyse 3D-planning and give feedback
 - Bone vs prosthetic driven implant placement
 - Step-by-step guided implant procedure
- Prosthetic choices after immediate single implant placements
 - How to create a crown using an implant CAD/CAM Block (edelweiss i-BLOCK)
 - Hands-on scanning, designing, milling, finishing, cementation procedures



Live Patient

SYNOPSIS

LECTURE PROGRAM

Through a series of lectures, the latest trends in Minimally Invasive Prosthetic Procedures will be discussed. Practical clinical cases showing step by step, easy to use clinical procedures on CAD/CAM technology. The uniqueness of the new implant edelweiss CAD/CAM BLOCK will be discussed and how to immediately load an implant using these blocks. Digital workflows on treatment planning for patient and laboratory communications will be shown.

LIVE PATIENT DEMONSTRATION

Delegates will observe first-hand implant placement, and immediate loading with CAD/CAM designed restorations.

LEARNING OUTCOMES

- To identify and fulfil unmet patient's needs to boost elective treatments within your office and optimize your practice business by applying these protocols and materials that is time and cost saving.
- Reach a high level of competence in various procedures, from the planning to the realization of the treatment during our live patient demonstration.



GUIDED SURGERY/DIGITAL DENTAL WORKFLOWS

From Basic to Advanced

Workshop Day 1 17th November

- 09:00 Lecture: STEPHAN LAMPL (Switzerland)
Bio Esthetics and Bio Function for Indirect Digital Workflow from clinical design to laboratory manufacture of CAD/CAM restorations.
- 10:30 Coffee/Tea break
- 11:00 Overview of CAD/CAM block design materials – Restoring occlusion in complex rehabilitation cases.
- 12:30 Lunch break
- 14:00 Lecture: MARCO TUDTS (Belgium)
Model based and immediate implant loading digital workflow.
- 15:30 Coffee/Tea break
- 16:00 Lecture: Single unit abutment crown vs. meso-structure and crown in implant supported restorations.
- 17:30 Panel discussion (about 30 minutes)

Workshop Day 2 18th November

- 09:00 Patient introduction, CBCT analysis, Facial esthetic analysis and digital smile design.
- 10:30 Coffee/Tea break
- 11:00 Implant placement – Live patient demonstration: Full digital workflow.
- 13:00 Lunch break
- 14:30 Crown design, milling, finishing and cementation of final restoration:
Live patient demonstration.
- 16:30 Panel discussion (about 30 minutes)

WORKSHOP INFORMATIONS

COURSE LEADERSHIP

Marco Tudts
3-91080-24-001

COURSE TYPE

Lectures and live patient demonstration

LANGUAGE

Dutch / English

DATE

Thursday the 17th November 2022 from 09:00-17:00
Friday the 18th November 2022 from 09:00-17:00

PLACE

CosmiEducation vzw, Berlarij 57, 2500 Lier, Belgium

APPROVAL NUMBER **cosmiEducation**

D8877

LUNCH DETAILS

Coffee/Tea/Lunch included in course price

CONTACT PERSON

Nele Heyns
Contact email: info@cosmieducation.be

ACCREDITATION

In application

Speakers

DR. MARCO TUDTS (D.D.S, M.Sc.D) is the Founder of COSMIDENT Oral Design Center, CosmiLab as well as the “look over shoulder” Training Centre. He is also research member of Cluster Oral sciences, Periodontology and oral implantology and Digital Dentistry at Ghent University since 2015.

He is currently running his PHD program at Ghent University on the Topic Immediate Surgical and Prosthetic guided surgery with a novel guided system.

DR. STEPHAN LAMPL (BChD, MDT, Masters esthetics), world renowned lecturer on Minimally Invasive Esthetic Dentistry from direct to indirect systems. He is the Founder of edelweiss Smile and Education Centre in Austria. He is a visiting professor at several universities including Saveetha College (ranked 18 in the world). He is currently studying for his PhD thesis on CAD/CAM materials.



PARTICIPANT

Title: _____

First Name: _____

Last Name: _____

E-mail: _____

City/Country: _____

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DISTRIBUTOR

Company Name: _____

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PARTICIPATION FEE

Total Fee (*incl. VAT*): € 1.750,- (course limited to 20 delegates)

KINDLY PLEASE REGISTER DIRECTLY WITH cosmiEducation

For further details and registration you may contact info@cosmieducation.be

The registration is confirmed after you will have completely prepaid your course fee.
After registering you will receive an invoice from us.

Notes: _____

CONTACT PERSON

Nele Heyns

Contact email: info@cosmieducation.be

CLINICAL CASE



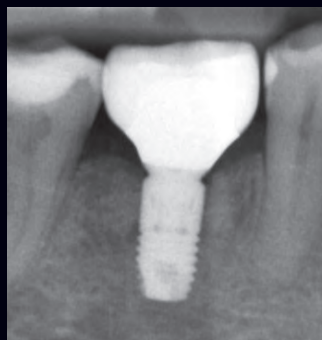
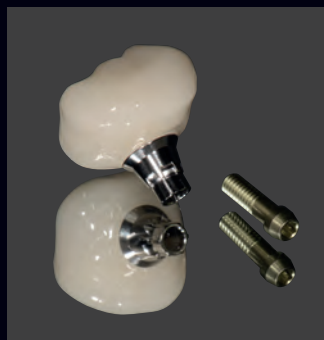
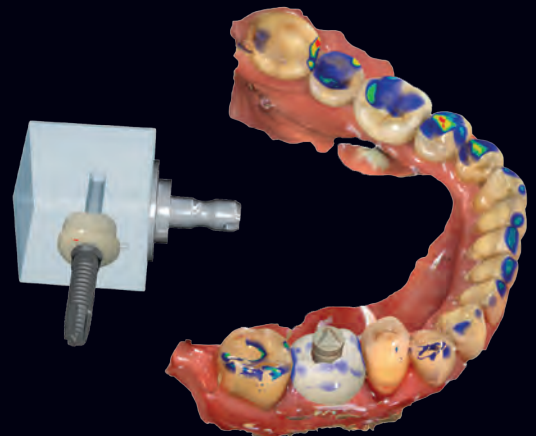
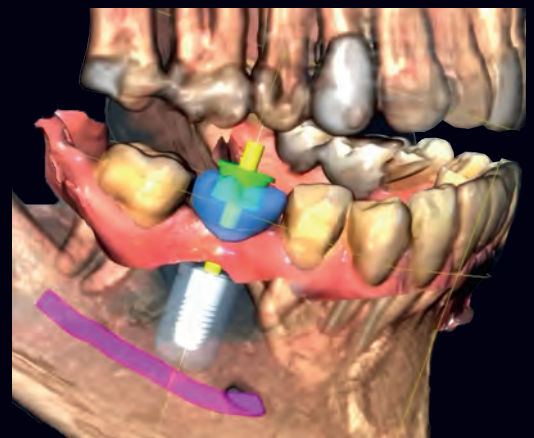
*Clinical case: Dr. Marco Tudts
D.D.S, M.Sc.D*



MODEL BASED DIGITAL WORKFLOW

- Plaster model was prepared.
- Lab analogue was placed on the preferred implant position on the model for an ideal implant crown position.
- Surgical placement of implant was done.
- Implant crown placed on the same position as in the plaster model.

1. Intra oral scan of the initial situation was made using Primescan
2. A 3D model was printed
3. A 3D planning was done using CEREC software
4. The CEREC guide was designed to place the implant lab analogue
5. The implant lab analogue was placed on the model and scanned
6. The base (edelweiss i-BLOCK) + the crown (edelweiss C-BLOCK) was designed in the CEREC software
7. The base substructure and the crown was milled
8. The TiBase + edelweiss Base + edelweiss Crown was checked on the model for fit
9. Using the template the implant was placed in the ideal position in the mouth
10. The implant supported crown was attached to the implant
11. Proper seating of the implant crown was checked with a control X-ray
12. Final occlusion was checked
13. Patient recall and follow up for implant maintenance



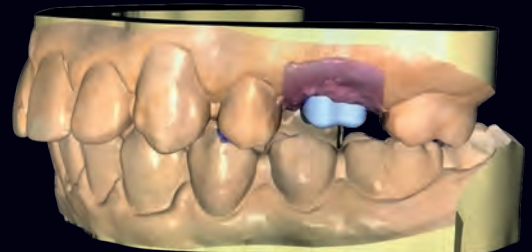
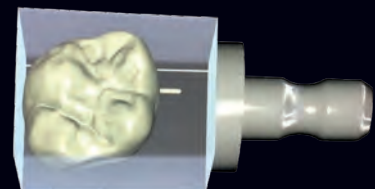
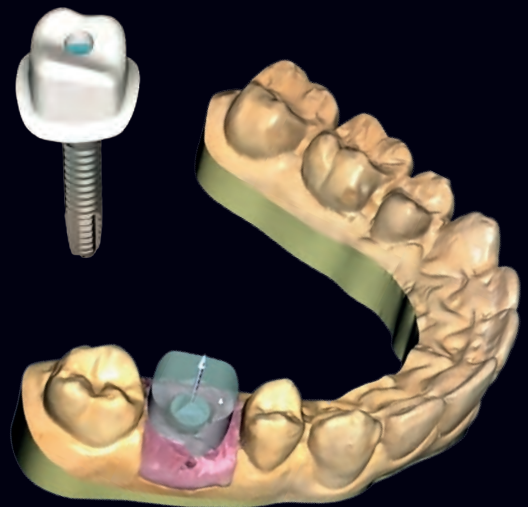
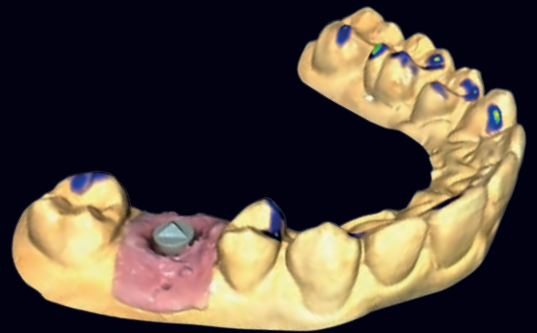
CLINICAL CASE

IMMEDIATE LOADING DIGITAL WORKFLOW

Everything is done chairside from:

- Intraoral scanning
- 3D surgery planning
- 3D guide design planning
- 3D milling of the guide
- Surgical implant placement
- Immediate loading of the pre-designed implant supported crown.

1. Initial clinical situation was scanned using Prime-scan
2. CBCT taken using AXEOS 3D imaging system
3. The Dicom and STL files were merged
4. A segmentation and virtual extraction of the tooth was done
5. The virtual implant and crown was planned in SICAT
6. The SICAT virtual 3D planning was exported to CEREC software
7. A 3D surgical guide was made and milled
8. Tooth extraction was done on the patient
9. Using the CEREC milled guide the implant was placed and scanned
10. The original planned position was checked with the actual clinical position and adjusted if necessary
11. The custom base was milled using edelweiss i-BLOCK to provide optimum biological seal and emergence profile
12. The crown was milled with edelweiss C-BLOCK
13. The 3 pieces i.e. TiBase + edelweiss Base + edelweiss Crown were put together
14. The immediate loading crown was placed on the implant in the patient's mouth with a torque of 32 Ncm
15. With a control X-ray, the seating was confirmed and occlusion checked with articulation
16. Patient recall and follow up for implant maintenance





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