

COSMIDENT

HANDS-ON WORKSHOP 21/11

Digital Workflow in Restorative Dentistry: From Theory to Practice

by Marco Tudts and lecturers Dr Tashia Moodley & Dr Desigar Moodley

This workshop aims to provide a comprehensive understanding of digital workflows in restorative dentistry, equipping participants with both the theoretical knowledge and practical skills needed to enhance their clinical practice. By the end of the day, attendees will have a solid foundation to integrate digital tools into their own restorative procedures, improving efficiency and patient outcomes.

PART 1: Theoretical Foundation of Digital Workflows in Restorative Dentistry (90 minutes)

Lecturer: Dr Desigar Moodley

PART 2: Case Presentation: Digital Workflow in Action (90 minutes)

Lecturer: Dr Tashia Moodley

PART 3: Clinical Demonstration: From tooth preparation to cementation. (3 hours)

Clinician: Dr Marco Tudts

PART 1

Theoretical Foundation of Digital Workflows in Restorative Dentistry

Lecturer: Dr Desigar Moodley (PhD, MS Dent-Restorative, PDD Aesthetic, BDS, FICD)

In this introductory session, participants will be immersed in the theoretical framework of digital workflows in restorative dentistry. The lecture will cover the entire digital process from the tooth preparation, scanning to the final cementation of a crown. Attendees will learn how digital technology enhances the accuracy, efficiency, and predictability of restorative procedures.

Key Topics:

1. Patient Examination and Tooth Preparation: Explore how digital tools assist in capturing detailed patient data and guide precise tooth preparation. Emphasis will be placed on the advantages of using digital methods over traditional techniques in reducing human error and improving clinical outcomes.
2. Digital Scanning and CAD/CAM Technology: I will discuss the role of intraoral scanners and CAD/CAM systems in creating highly accurate digital impressions and restorations. This section will highlight the benefits of real-time visualization and the seamless transition from scan to design.
3. Milling and Cementation: Understand the process of translating digital designs into physical restorations through milling. The discussion will also cover best practices in the cementation of crowns, ensuring long-term success.

Learning Outcomes:

- Comprehend the full scope of digital workflows in restorative dentistry.
- Identify the benefits of digital techniques in improving accuracy and efficiency.
- Gain insight into the integration of digital tools in everyday practice.

PART 2

Case Presentation: Digital Workflow in Action

Lecturer: Dr Tashia Moodley (DChD Prosthodontics, MS Dent Restorative, BChD)

Building on the theoretical knowledge, this segment offers an in-depth exploration of a real-life case study. Participants will follow a patient journey from diagnosis to the final restoration, demonstrating how digital workflows enhance clinical decision-making and patient outcomes.

Key Topics:

1. **Diagnosis and Treatment Planning:** Participants will observe the comprehensive diagnostic process, including the use of digital radiographs and occlusal analysis to inform treatment decisions.
2. **Digital Design of the Crown:** The session will cover the step-by-step design process using digital tools, highlighting how to achieve optimal functional and aesthetic results.
3. **Challenges and Solutions:** Discussion on potential challenges encountered during the digital workflow, and how to address them effectively using the available technology.

Learning Outcomes:

- Apply theoretical knowledge to real-world scenarios.
- Develop skills in digital treatment planning and design.
- Understand how to anticipate and resolve common challenges in digital workflows.

PART 3

Clinical Demonstration: From tooth preparation to cementation.

Clinician: Dr Marco Tudts (DDS, MSc Dent)

The final part of the workshop provides a live demonstration of the full digital workflow where participants will watch “over the shoulder” while the clinician treats the patient. Participants will observe the clinical procedure in real-time, gaining practical insights into each step of the process from digital scanning to the final cementation of the restoration.

Key Demonstrations:

1. Digital Scanning: Watch as an intraoral scanner captures a detailed impression of the prepared tooth, emphasizing the ease and speed of digital capture compared to traditional methods.
2. Crown Milling: Observe the conversion of the digital design into a physical crown using a milling unit, showcasing the precision and efficiency of CAD/CAM technology.
3. Final Cementation: The demonstration will conclude with the cementation of the crown, focusing on techniques to ensure optimal fit, function, and longevity.

Learning Outcomes:

- Gain confidence in performing digital workflows through live patient demonstration.
- Understand the nuances of each clinical step in the digital process.
- Leave with a clear vision of how to implement digital workflows in their practice.

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DATE: 21/11/2024

ADDRESS: Cosmident - Berlarij 57, 2500 Lier

SUBSCRIBE before the 31st of October via email to info@cosmieducation.be

The lecture is in Marco Tutds practice, allowing you to experience everything live.

Limited to 10 registrations.

PROGRAMM

- Part 1: 09h00 - 10h30 (Introductory session)
- Break: 10h30 - 11h00
- Part 2: 11h00 - 12h30 (Case Presentation)
- Lunch: 12h30 - 13h30
- Part 3: 13h30 - 15h00 (Clinical Demonstration)
- Break: 15h00 - 15h30
- Continuation Part 3: 15h30 - 17h00

ACCREDITATION: 40 points

REGISTRATION FEE: € 500,- excl. VAT

Marco Tutds

- Digital Dentistry Key Opinion Leader
- Founder of Cosmident a multidisciplinary private dentist practice in Lier with a special interest in complex rehabilitation.
- Implantologist
- Staff member at the Department of Periodontology and Implantology UGent

Dr Desigar Moodley

- PhD, MS Dent-Restorative, PDD Aesthetic, BDS, FICD

Dr Tashia Moodley

- DChD Prosthodontics, MS Dent Restorative, BChD