

One Patient.
One Day.

One Complete
Airway Concept.

This is not a lecture.
This is airway dentistry in real life.
From Assessment to Execution:
A Fully Integrated Interdisciplinary Airway Case

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Course Type: Live Clinical Course incl. Theory
Location: Hamburg, Germany
Language: English

Course Concept

This exclusive course offers a unique real-time journey through a complete airway treatment from comprehensive assessment and diagnosis to surgical execution and orthodontic integration.

Airway-focused dentistry and medicine require a structured, interdisciplinary approach that integrates functional assessment, craniofacial morphology, sleep diagnostics, risk management, and precise execution. However, these components are often taught in isolation, limiting clinical transferability.

This one-day course presents a fully integrated live airway case, following a patient with obstructive sleep apnea (OSA) and maxillary hypoplasia, including documented sleep study findings and clinically relevant craniofacial compensations. Participants will follow one patient with obstructive sleep apnea (OSA) and maxillary hypoplasia, including skeletal deficiencies, functional adaptations, and documented sleep-related obstruction.

Morning – Assessment, Diagnosis & Risk Management

- Medical and sleep analysis (incl. sleep study interpretation)
- Craniofacial and dental assessment
- Airway-focused risk stratification
- Interdisciplinary diagnosis
- Discussion of treatment options and decision-making
- Definition of a comprehensive airway treatment plan

Afternoon – Live Surgery & Execution

- DOME technique (Distraction Osteogenesis Maxillary Expansion)
- Surgical access and osteotomy principles
- Placement of skeletal expansion screws
- Installation of the skeletal expander
- Biomechanical and airway-related considerations
- Orthodontic Integration
- Alignment strategy
- Role of aligners within the comprehensive airway treatment concept
- Coordination between skeletal expansion and orthodontic execution

Key Components

- Medical & Sleep Assessment
- Review of medical history and sleep-related symptoms
- Interpretation of sleep study data (OSA severity, obstruction pattern)
- Functional relevance of airway obstruction
- Craniofacial & Dental Assessment
- Analysis of maxillary hypoplasia
- Skeletal vs. dental compensation patterns
- Functional adaptations (tongue posture, breathing pattern, occlusion)
- Airway-Focused Risk Assessment
- Identification of airway-related risks
- Interaction between craniofacial morphology and sleep-disordered breathing
- Risk stratification and case complexity evaluation
- Diagnosis & Interdisciplinary Decision-Making
- Establishing a clear airway-focused diagnosis
- Discussion of all relevant treatment options:
- Non-surgical and surgical pathways
- Orthodontic, orthopedic, and surgical strategies
- Rationale for selecting a skeletal expansion-based approach
- Treatment Planning
- Definition of treatment goals
- Sequencing of therapy
- Integration of orthodontics, surgery, and airway management

What You Take Home

- A complete, structured airway protocol
- Full documentation of the case
- A structured, consolidated treatment protocol, including:
- Assessment findings
- Diagnosis
- Risk management
- Surgical and orthodontic execution steps
- Comprehensive documentation

Abstract

Airway-focused dentistry and medicine require a structured, interdisciplinary approach that integrates functional assessment, craniofacial morphology, sleep diagnostics, risk management, and precise execution. However, these components are often taught in isolation, limiting clinical transferability.

This one-day Pre-Course presents a fully integrated live airway case, following a patient with obstructive sleep apnea (OSA) and maxillary hypoplasia, including documented sleep study findings and clinically relevant craniofacial compensations.

During the morning session, participants are guided through a comprehensive assessment process, including medical and sleep evaluation, craniofacial and dental analysis, identification of skeletal and functional adaptations, and airway-related risk stratification. Based on this data, an interdisciplinary diagnosis is established, and all relevant treatment options are critically discussed. A structured treatment plan emphasizing skeletal maxillary expansion is developed and justified.

In the afternoon session, the planned therapy is executed live. This includes the DOME technique (Distraction Osteogenesis Maxillary Expansion) with placement of skeletal expansion screws and expander. The orthodontic component, including aligner integration, is discussed as part of a comprehensive airway-centered workflow.

At the conclusion of the course, participants receive a consolidated clinical protocol, complete documentation, and video material of the assessment, surgical procedures, and execution steps. The course aims to provide clinicians with a reproducible, interdisciplinary framework for managing complex airway patients from diagnosis to execution.