

AO CMF Course

Orthognathic Management of Facial Deformities

Course description

This 2-day face-to-face course, complemented with online precourse activities, provides a comprehensive introduction to the principles and core concepts of orthognathic surgery for dental and skeletal deformities, that can be applied in the local healthcare system based on patient needs and expectations and a multidisciplinary approach. The course is delivered through a combination of lectures, small group discussions, hands-on practical exercises and skills stations (including facial analysis and planning).

Participants

Surgeons who are developing their practice in the field of orthognathic surgery (residents and qualified surgeons) and orthodontists.

What will you learn?

- Perform adequate facial analysis (airway, function, soft tissue, standard photography, etc) of patients with functional and esthetic concerns
- Correctly diagnose based on all the information
- Make treatment decisions based on patient needs and expectations considering pretreatment assessment (discuss and communicate with orthodontics and the patient)
- Plan for the procedure and treatment and consider predictability and long-term stable results based on the current evidence-based guidelines
- Describe the treatment procedures available with pros and cons respecting the range of hard and soft tissues
- Recognize and address potential complications and explain to the patient
- Document and analyze your results (quality control)

Precourse activities

- Readings, archived webinars, prerecorded presentations, and videos
- AO Surgery Reference procedures and myAO case forum
- Digital planning (step by step)
- Precourse self-assessment

Practical exercises

- Maxilla: Le Fort I (high Le Fort I, malarplasty, multiple segments)
- Mandible: BSSO, vertical ramus osteotomy, and genioplasty

Skills Lab

Skills Lab 1: 4 stations in rotation (4 groups of 6 participants)

- Defining the occlusion (using cast models/model surgery)
- Facial profiling and soft tissue analysis (3D cephalometry)
- Instrumentation options and uses (spreaders, osteotomes, etc)
- Selecting, positioning, and placing plates

Skills Lab 2: 3 stations (3 groups of 8 participants, 20 minutes per station)

- Analyze final occlusion (cast model)
- OPG in lateral cephalograms (x-rays)
- Preop and postop image comparisons

Small group case discussion

1: Treatment options and decision making

- Identify indications for surgery
- Make decisions for a range of patient profiles, considering ethnicity, osteotomy options, etc
- Recognize how to take an interdisciplinary approach.

2: Treatment options and decision making

- Identify indications for surgery
- Decide appropriate timing and sequencing of procedures
- Make decisions for a range of patient profiles, considering ethnicity, osteotomy options, etc
- Recognize how to take an interdisciplinary approach, and include orthodontic considerations.



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