

Preliminary Course program

# AOCMF Course— Management of Facial Trauma

July 12-13, 2016 Abuja, Nigeria



## Mission

Our mission is to continuously set standards in postgraduate medical education and to foster the sharing of medically guided expertise in a worldwide network of healthcare professionals to improve patient care in trauma or disorders of the musculoskeletal system.

## The AO Principles of fracture management

Fracture reduction and fixation to restore anatomical relationships.

Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.



Fracture fixation providing absolute or relative stability, as required by the "personality" of the fracture, the patient, and the injury.

Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling.

## Welcome

On behalf of AOCMF (the craniomaxillofacial clinical division of the AO Foundation), it is my pleasure to personally welcome you to this course. Each year, AOCMF provides over 110 educational opportunities to more than 4,500 passionate surgeons worldwide.

The mission of AOCMF is excellence in facial surgery across the specialties. We encourage the involvement of all interested professions, including oral and maxillofacial surgery, plastic surgery, ENT, oculoplastic surgery, and neurosurgery. To achieve our mission, we are committed to remaining at the forefront of education and new developments, by offering remarkable learning and networking experiences focusing on craniomaxillofacial trauma and reconstruction.

Through our courses, membership program, and our website, our goal is to encourage and inspire surgeons—including residents, fellows, and practitioners—to pursue fulfilling careers in our field. In addition, we endeavor to provide lifelong learning opportunities and career development options for more experienced specialists in the most appropriate and useful ways as their needs evolve.

Your role is vital to improving patient care. We hope that your experience with our faculty, chairs, and your peers over the next few days will bring new knowledge, skills, and understanding that you can directly apply to your own practice. We look forward to your participation and encourage you to share your ideas, unique perspectives, and opinions, to help build and enhance our dynamic community, and contribute to the further development of craniomaxillofacial surgery.

I wish you an outstanding learning experience.

Yours sincerely,



**Warren Schubert**  
AOCMF International Chair

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## Goal of the course

The goal of this AOCMF Course is to address the core concepts necessary to manage acute facial trauma.

## Target participants

Surgeons who are involved in the treatment of facial trauma.

Years of experience 1 – 20 years

## Course objectives

Upon completion of the course, the participant should be able to:

- Diagnose facial injury through history, physical examination, and investigations
- Formulate a treatment plan (operative and nonoperative)
- Perform the specific treatment for facial trauma
- Modify the treatment plan when necessary
- Manage patient follow-up and rehabilitation
- Identify and manage complications

## Course description

The Management of Facial Trauma course is designed to provide the participants with the fundamental knowledge of the theoretical principles of the operative treatment of the craniomaxillofacial fractures and their complications. The course offers a combination of lectures, practical sessions, and debate.

The first day focuses on midface fractures and includes related lectures and practical exercises concerning the prevention and treatment of complications in the midface fracture and defects, including posttraumatic deformities and sequels. The second day includes the basics for mandibular fracture treatment, including diagnostic and treatment principles. Treatment of single symphyseal mandibular fractures, angle mandibular fractures, load sharing and load bearing is discussed and hands-on exercises allow for the placement of different fixation devices in various fracture scenarios, including simple, comminuted, and defect fractures.

The course consists of:

- Online preparation (one month prior to course)
- Face-to-face event
- Online follow up (within one week of the course)

## Online Preparation

- Pre-course assessment (a month before the course)
- Pre-course learning (a month before the course)
- Book chapters
- Surgical reference
- Teaching videos (MMF- How to use a Power Drill)
- Lecture videos (Classification system of CMF fractures – COIAC; Bone Healing: Biological enhancement of impaired bone healing; Infection and Implant Design)
- Post-course assessment (a week after the course)

## Course Chair



**Seidu Adebayo Bello**  
Consultant Oral & Maxillofacial Surgeon  
State House Medical Centre  
Asokoro, Abuja, Nigeria

## Course Director



**Warren Schubert**  
Chair, AOCMF International Board  
Professor, University of Minnesota  
Chair, Department of Plastic & Hand Surgery  
Regions Hospital, St Paul, Minnesota, USA

## International faculty

- |                             |  |
|-----------------------------|--|
| <b>Anantheswar</b>          | Senior Consultant & HOD, Dept. of Plastic, Micro, Cosmetic & Cranio-facial Surgery, Manipal Hospital, Bangalore, India |
| <b>Carl-Peter Cornelius</b> | Professor, Oral and Maxillofacial Surgery, Ludwig-Maximilians-Universität München, Munich, Germany                     |

## Regional faculty

- |                              |  |
|------------------------------|--|
| <b>Velmurugan Naganathan</b> | Oral & Maxillo Facial Surgeon, Oral Health Directorate, Health Care Agency, Ministry of Health, Seychelles |
| <b>Eric Kahugu</b>           | Consultant Maxillofacial Surgeon, The Nairobi Hospital and Upper Hill Medical Centre, Nairobi, Kenya       |
| <b>Ashwin Kassin</b>         | Maxillofacial & Oral Surgeon, Netcare Greenacres Hospital, Port Elizabeth, South Africa                    |

## National faculty

- |                           |  |
|---------------------------|--|
| <b>Sunday Ajike</b>       | Prof & Chief Consultant, Oral & Maxillofacial Surgeon, Ahmadu Bello University Teaching Hospital, Zaria, Kaduna State, Nigeria |
| <b>Timothy Aladelusi,</b> | Department of Oral and Maxillofacial Surgery, College of Medicine, University of Ibadan, Ibadan, Nigeria.                      |

<b>Olutayo James</b>	Department of Oral and Maxillofacial Surgery, Faculty of Dental Sciences, College of Medicine, University of Lagos, Lagos, Nigeria.
<b>Ozoemene Obuekwe</b>	University of Benin Teaching Hospital, Professor and Consultant, Oral and Maxillofacial Surgery, Ugbowo, Benin, Nigeria
<b>Abdurrazaq Taiwo</b>	Head, Dental & Maxillofacial Surgery, Usmanu Danfodiyo University Teaching Hospital. Sokoto, Senior Lecturer, Department of Surgery, College of Health Sciences. Usmanu Danfodiyo University. Sokoto, Nigeria

## Course organization

### **AO Foundation**

#### **AOCMF**

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## Day 1, Tuesday, July 12, 2016

TIME	AGENDA ITEM	WHO
08:00-08:30	Registration	
08:30-08:40	Welcome, introduction of faculty, course objectives	S Bello
08:40-08:50	History and structure of AO	W Schubert
08:50-09:10	Principles of good technique using screws, plates and drills <i>Anatomy of a screw, size of drill bit needed for screw, self-tapping screws, locking head screws, proper irrigation and technique, drill bits with stops, length of screw needed, how many hole plate to use, distance from fracture line</i>	S Ajike
09:10-09:30	Radiologic evaluation for midface and mandibular fractures. Pre-op, Intra-op, Post –op	O James
09:30-09:50	Biomechanics of midface, fracture patterns, terminology and classification, diagnosis and physical findings for various fractures, sensory and motor nerves	S Bello
09:50-10:10	Surgical approaches to the midface (coronal, glabeller, bleph, periorbital approaches)	P Cornelius
10:10-10:30	COFFEE BREAK	
10:30-10:50	Zygomatico-Maxillary-Complex (ZMC) fractures and pure zygomatic arch fractures	A Kassan
10:50-11:10	Orbital fractures (floor, medial wall, lateral wall, roof)	V Naganathan
11:10-11:30	Nasal and Nasal-Orbital-Ethmoid (NOE) fractures (Type 1, 2 and 3)	Y Anantheswar
11:30-11:50	Frontal Sinus fractures and Anterior Skull Base Fractures	Y Anantheswar
11:50-12:50	LUNCH	
12:50-14:10	<b>Practical Exercise 1</b> Use of drills. Fixation of midface fractures including orbital defects Colibri drill (Exercise supported by Video 90069 Colibri - Compact Light Battery Drill) Use of drills, plates & screws, complex zygoma, orbital floor fracture, LeFort I Fracture NOE fractures (no video available)	Moderator: P Cornelius
14:10-14:30	Dental terminology, dental anatomy, adult dentition, pediatric dentition, management of loose and fractured teeth,	A Taiwo



	establishment of occlusion, maxillo-mandibular fixation (arch bar, Ernst ligature, Ivy loop, Interdental wires, screw and wire)	
14:30-14:50	Biomechanics of mandible, load sharing and load bearing, physical findings, surgical approaches	T Aladelusi
14:50-15:10	Treatment alternatives to treatment of mandibular symphyseal and parasymphyseal fractures (mini plates, lag screws, box plate)	E Kahugu
15:10-15:30	COFFEE BREAK	
15:30-15:50	Treatment of mandibular angle and body fractures	V Naganathan
15:50-17:00	<p><b>Practical Exercise 2</b></p> <p>MMF, option of arch bars, interdental wires, Ernst ligatures, Ivy loops</p> <p>Lag screw and miniplate fixation on symphyseal fracture</p> <p>Compact Video 21062: Fixation of a Transverse Fracture of the Symphysis of the Mandible with 2.4mm Lag Screws</p> <p>Mandibular symphyseal fracture fixation (Midline Mandible); fixation with two miniplates and monocortical placement of screws</p>	Moderator: A Kassan
17:00	Evaluation Day 1	

## Day 2, Wednesday, July 13, 2016

TIME	AGENDA ITEM	WHO
08:30-08:50	Review of principles taught on Day 1	P Cornelius
08:50-09:10	Treatment of condylar, subcondylar and ascending ramus fractures.	O Obuekwe
09:10-09:30	Treatment of mandibular defect type problems, and osteosynthesis in bone with reduced quality. (Defect, comminuted, atrophic, infected and other failed fixation of mandibular fractures)	A Kassan
09:30-09:50	Indications for dental impressions, dental models, dental splints, palatal splints, lingual splints, and use of dentures or Gunning splint to maintain subcondylar height	W Schubert
09:50-10:10	Panfacial fracture management and staging	P Cornelius
10:10-10:30	COFFEE BREAK	

10:30-10:50	Treatment of pediatric facial fractures	Y Anantheswar
10:50-12:10	<b>Practical Exercise 3</b> Mandibular symphyseal fracture fixation (Midline Mandible); fixation with two miniplates and monocortical placement of screws Compact Video 21063 Fixation of a Transverse Fracture of the Symphysis of the Mandible with two 2.0 Mandible Mini Plates	Moderator: E Kahugu
12:10-13:10	LUNCH	
13:10-14:30	<b>Practical Exercise 4</b> Use of large locking screw plate for fixation of comminuted or defect mandibular defect Comminuted mandibular fracture / defect plating (use of large locking screw plate and miniplate)	Moderator: Y Anantheswar
14:30-14:50	Options & indication for reconstruction using non-vascularized bone grafts	E Kahugu
14:50-15:10	Options & indications for reconstruction using free flaps	Y Anantheswar
15:10-15:30	COFFEE BREAK	
15:30-15:50	AO Membership	W Schubert
15:50-16:10	Orthognathic Surgery	P Cornelius
16:10-16:30	Discussion – wrapping it all up	S Bello W Schubert
	Evaluation, Certificates and End of Course	

## Course information

### Evaluation guidelines

All AOCMF courses apply the same evaluation process, either the audience response system (ARS) or paper and pencil questionnaires. This will help AOCMF to ensure that we continue to meet your training needs.

### Intellectual property

Course materials, presentations, and case studies are the intellectual property of the course faculty. All rights are reserved. Check hazards and legal restrictions on [www.aofoundation.org/legal](http://www.aofoundation.org/legal).

→ **Recording, photographing, or copying of lectures, practical exercises, case discussions, or any course materials is strictly forbidden. Participants violating intellectual property will be dismissed.**



The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and made available to the public.

### Security

Security checks will be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, workshops, and group discussions.

### No insurance

The course organization does not take out insurance to cover any individual against accidents, thefts or other risks.

### Use of mobile phones

Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning off your mobile phone.

### Transportation

Not provided for participants

### Dress code

Casual

### Course language

English

## Course registration

Please register online at:  
[http://abuja\\_0716.aocmf.org](http://abuja_0716.aocmf.org)

## Course fee

### Course fees to be confirmed

Includes coffee breaks, lunch, course material, certificate

## Course venue

### To be confirmed

Hawthorn Suites by Wyndham  
No. 1 Uke Street, Garki 2, Abuja  
Nigeria  
+234-9-460-3900 or 08057522500  
<http://hawthorn.com.ng/home/>

## Course logistics

### Industrial Partner

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