



**AONEURO**  
A Cranial and Brain Initiative

Course program

# AONeuro Course—Neurotrauma

January 30-31, 2016, Cape Town, South Africa



neurological trauma, cranial oncologic and cerebrovascular surgery, cranial reconstruction, and cranial congenital anomalies surgery.

Education has always been a major focus of the AO Foundation. Each year, more than 46,000 surgeons participate in 750 AO education events worldwide. AONeuro is committed to communicating the latest advances, literature, treatment information and protocols in education, equipment, and new developments as we strive to improve your educational experience by providing you education at the forefront of your specialty.

Your cranial neurological colleagues are working diligently to bring you the latest in cranial neurological education, and have initiated specific programs in the area of traumatic brain injury and skull base surgery and reconstruction. Cranial AO Neurosurgeons also collaborate with their AOSpine colleagues to bring you the latest developments in combined brain and spinal cord trauma. Cranial neurological surgeons also cooperate with craniomaxillofacial colleagues in the areas of facial and cranial trauma, congenital craniofacial anomalies, skull base trauma, skull base surgery and reconstruction.

We hope that your experience with us over the next few days will result in the acquisition of new knowledge, skills, and understanding that can directly be translated into improved care and outcomes for your patient.

So, once again, I welcome you to this AONeuro event, and I wish you all a most successful few days ahead.

Yours sincerely,

A handwritten signature in black ink that reads "Paul N. Manson". The signature is fluid and cursive, written on a white background.

Paul N Manson  
AO Board of Directors appointed Coordinator for  
AONeuro

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## Welcome

On behalf of the AO Foundation and your AONeuro regional and international faculty, I would like to welcome you to this Neurotrauma educational event.

AONeuro is a unique worldwide multi-specialty community that includes cranial Neurosurgeons, Neurologists, Neuro intensivists, Neuro anesthesiologists, Neuro traumatologists, and Neurological professionals involved in cranial

# Goal of the course

The Cape Town AONeuro Course—Neurotrauma covers the theoretical basis and practical principles for managing neurotrauma, emergency and planned procedures, addressing complications, and reconstructive surgery.

## Course objectives

After the course, participants will be better able to:

- Manage neurotrauma and skull base fractures in adult, pediatric, and polytrauma patients
- Manage on-call life threatening emergencies requiring specific skills
- Conduct advanced neuromonitoring
- Plan and perform appropriate operative treatment (eg decompressive craniotomy, cranial reconstruction)
- Manage CSF leaks and other complications and perform dural repairs
- Understand controversies in neurotrauma

## Target participants

The course has been developed for surgeons and surgical trainees who manage neurotrauma and reconstruction and who have a strong interest in these fields. It has a focus on interdisciplinary care and is appropriate for neurosurgeons, CMF, ENT, trauma, and other surgeons.

## Course description

This course covers the current best strategies and considerations for managing neurotrauma patients. It features an international faculty of experts and is based on the competencies defined in AONeuro's new curriculum in neurotrauma.

The course content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material. Interactive case presentations further deepen this knowledge and enrich the discussion in trauma management. Practical sessions teach the application of AO principles to the management of common injuries. Case-based discussions link the lecture material and practical skills with the clinical problems encountered in real practice.

# Chairpersons



**Tony Figaji**

University of Cape Town,  
Division of Neurosurgery,  
Cape Town, South Africa



**Ross Bullock**

University of Miami Miller School of Medicine  
Department of Neurosurgery  
Miami, USA

# International Faculty

Randy Chesnut  
Peter Hutchinson  
Andras Buki

Seattle, USA  
Cambridge, UK  
Pécs, Hungary

# National Faculty

Mike DuTrevou  
Graham Fieggen  
David LeFeuvre  
Darlene Lubbe  
John Ouma  
Allan Taylor

Durban, South Africa  
Cape Town, South Africa  
Cape Town, South Africa  
Cape Town, South Africa  
Johannesburg, South Africa  
Cape Town, South Africa

# Course organization

## **AONeuro**

Linda Domeisen  
Clavadelerstrasse 8  
7270 Davos, Switzerland  
Phone +41 81 414 25 59  
Fax +41 81 414 22 80  
Email [info@aoneuro.org](mailto:info@aoneuro.org)  
[www.aoneuro.org](http://www.aoneuro.org)

# Saturday, January 30, 2016

TIME	AGENDA ITEM	WHO
08:00-08:10	Introduction to AONeuro and Course	Ross Bullock, Tony Figaji
08:10-08:30 08:30-08:40	Neurotrauma in the Developing World – what are the priorities? Discussion	John Ouma
08:40-09:00 09:00-09:10	Principles of cranial fossa repairs Discussion	Mike DuTrevou
09:10-09:30 09:30-09:40	Endoscopic transnasal approaches to anterior fossa repairs Discussion	Darlene Lubbe
09:40:10:00 10:00-10:10	Cranioplasty – from simple to complex methods Discussion	Andras Buki
10:10-10:30	COFFEE BREAK	
10:30-10:50 10:50-11:00	Penetrating cranial injuries – knife/ blade Discussion	Mike DuTrevou
11:00-11:20 11:20-11:30	Penetrating cranial injuries – gunshot wounds Discussion	Ross Bullock
11:30-11:50 11:50-12:00	Managing venous sinus injuries at 2am Discussion	David LeFeuvre
12:00-12:20 12:20-12:30	Angiography and endovascular options for arterial injury Discussion	Allan Taylor
12:30-12:50 12:50-13:00	Management of bifrontal contusions Discussion	Ross Bullock
13:00-14:00	LUNCH	
14:00-15:00	Case presentations	All Faculty
15:00-16:00	HANDS ON Cranioplasty techniques	All Faculty
16:00-16:15	COFFEE BREAK	
16:15-17:15	HANDS ON Posterior fossa decompression	All Faculty

# Sunday, January 31, 2016

TIME	AGENDA ITEM	WHO
08:00-08:20 08:20-08:30	ICP monitoring a. Is not necessary in severe TBI b. Saves lives in severe TBI Discussion	Randy Chesnut Peter Hutchinson
08:30-08:50 08:50-09:00	Multimodal monitoring in severe TBI management Discussion	Tony Figaji
09:00-09:20 09:20-09:30	Pediatric issues in Neurotrauma Discussion	Graham Fieggen
09:30-09:50 09:50-10:00	Decompressive craniectomy in TBI Discussion	Peter Hutchinson
10:00-10:15	COFFEE BREAK	
10:15-11:15	CASE PRESENTATIONS	All Faculty
11:15-13:15	HANDS ON Ventriculostomy Bolt and monitor insertion Decompressive craniectomy – hemicraniectomy/ bifrontal	All Faculty
13:15-13:30	COURSE WRAP UP AND EVALUATION	

# Course information

## Course logistics

Johnson and Johnson DePuySynthes  
2 Medical Road, Midrand, Halfway House  
1685 Gauteng, South Africa  
Contact: Noelle Turnbull  
Email: NTURNBU1@ITS.JNJ.COM,  
Phone: +27 011 2657507

## Course fee

ZAR 3000

Included in the course fee are conference bag with documentation, coffee breaks, and lunches.

## Evaluation guidelines

All AONeuro courses apply the same evaluation process, either the audience response system (ARS) or paper and pencil questionnaires. This will help AONeuro to ensure that we continue to meet your training needs. In some regions, CME accreditation is dependent on the participant's evaluation results.

## Accreditation

An application has been made to the UEMS-EACCME® for CME accreditation of this event.

## 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.

## Dress code

Casual

## Language

English