



**Weill Cornell Medicine**



**New York Presbyterian**



**MUHIMBILI ORTHOPAEDIC INSTITUTE (MOI)**  
in collaboration with the WEILL CORNELL MEDICINE  
Presents

**9th Annual Dar es Salaam**

# Global Neurosurgery Course



**MARCH**

**20th - 24th**

**Monday**

**Friday**

**2023**



[www.tanzanianeurosurgery.org](http://www.tanzanianeurosurgery.org)  
[www.moi.ac.tz](http://www.moi.ac.tz)



**BRAINLAB**



# Overview

Monday	Tuesday	Wednesday	Thursday	Friday
Welcome	Paediatrics	Spine	Training	Research
Traumatic Brain Injury				
Coffee	Vascular	Epilepsy	Nursing	
Traumatic Spine Injury	Lunch	Lunch	Lunch	Lunch
General	Skull Base & Oncology	Simulation	Simulation	Simulation
Coffee	Coffee			
Case Presentation	TRANS Webinar	NASSi Webinar	FIENS Webinar	
	Theatre Cases			

## Key:

Theoretical Teaching
Webinars
Practical Session

## Venues

1. Muhimbili Orthopaedic Institute, Kalenga Street, Upanga, Dar es Salaam (MOI)
2. Protea by Marriott Hotel Dar es Salaam Courtyard, Seaview Ocean Road, Dar es Salaam (Protea Hotel)
3. Muhimbili National Hospital-Mloganzila, Kibamba, Dar es Salaam (MNH-Mloganzila)
4. Aga Khan Hospital, Ocean Road, Dar es Salaam (Aga Khan)

### Interactive Map:



<https://www.google.com/maps/d/edit?mid=10e9jmM2DSgxoUElgPeppugFG-zWh4ePY&usp=sharing>

## Main Teaching Table

**Monday**

**Location: Protea Hotel**

Activity	Time
Arrival and Registration	07:00-08:00
Welcome Ceremony	
Opening Ceremony	08:00-09:00
<b>Traumatic Brain Injury</b>	
Chairs: Lemeru Mchome, Sylvia Massawe, François Waterkeyn	
Initial assessment & management of TBI – Okembo Arthur	09:00-09:30
Neurocritical care for TBI – Halinder Mangat	09:30-10:00
Evidence for surgical intervention in TBI in low resource settings– Tariq Khan	10:00-10:30
Trauma craniotomy – Rebeca Majige	10:30-10:45
Coffee Break	10:45-11:15
<b>Traumatic Spinal Injuries</b>	
Chairs: Roger Härtl, Juma Magogo, Happiness Rabel	
WFNS spine committee recommendations on spinal cord injuries – Mehmet Zileli	11:15-11:45
Thoracolumbar fracture fixation – Costansia Bureta	11:45-12:00
ACDF in trauma – Othman Kiloloma	12:00-12:15
Spinal Injuries at MOI – Chibuikem Anthony Ikwuegbuenyi	12:15-12:30
Minimally invasive spine surgery – John Duff	12:30-13:00
Lunch Break	13:00-14:00
Sponsor Presentations	
<b>General</b>	
Chairs: Mwanaabas Sued, Tariq Khan, James Lubuulwe	
Mentoring in neurosurgery – Sylvia Shitsama	14:00-14:30
Epilepsy surgery – Caitlin Hoffman	14:30-15:00
Principles of stereotaxy & how to use a frame – Zhang Bo	15:00-15:15
Image guidance in neurosurgery – Taylor Moss, Brainlab	15:15-15:30
Coffee Break	15:30-16:00

<b>Participant Case Discussions</b>	
Chairs: Maxigama Ndossi, Caitlin Hoffman, Patrick Statham	
Case presentations by participants	16:00-17:00
Review of surgical cases and ward round – Faculty Only Level 7 Conference Room, MOI	17:30-19:30

**Tuesday**

**Location: Protea Hotel**

<b>Activity</b>	<b>Time</b>
<b>Paediatrics</b>	
Chairs: Haley Vance, Alvin Miranda, Henry Humba	
Paediatric hydrocephalus & ETV technique - Hamisi Shabani	08:00-08:30
ETV outcomes in neonates – Consolata Shayo	08:30-08:40
Management of neural tube defects – Abenezeer Tirsit	08:40-09:10
Spina bifida repair – Zarina Shabhay	09:10-09:25
Craniofacial surgery – Christopher Bonfield	09:25-09:55
Coffee Break	09:55-10:20
<b>Vascular</b>	
Chairs: Mugisha Mazoko, Nicephorus Rutabasibwa, Sylvia Shitsama	
Haemorrhage patterns and vascular imaging – Mechris Mango	10:20-10:50
Which aneurysms to clip or coil? – Karol Budohoski	10:50-11:20
Subarachnoid haemorrhage at MOI – François Waterkeyn	11:20-11:30
Acomm aneurysm clipping – Ondra Petr	11:30-11:45
Medical management of haemorrhagic and ischaemic stroke – Robert Peck	11:45-12:15
Surgical treatment for stroke – Karol Budohoski	12:15-12:30
Management of vascular malformations – Ondra Petr	12:30-13:00
Lunch Break	13:00-14:00
Virtual Reality Spine Trauma Cases with Non Nocere – Maricruz Rivera	
<b>Skull Base &amp; Oncology</b>	
Chairs: Zarina Shabhay, John Mtei, Blessing Michael	
Perioperative management of pituitary & sellar tumours – Beverly Cheserem	14:00-14:30
Skull base lesions: treatment strategies - Ondra Petr	14:30-15:00
Vestibular schwannomas: approaches & pitfalls – Patrick Statham	15:00-15:30
Coffee Break	15:30-16:00

<b>EANS Webinar</b>	
Neurosurgical oncology in resource limited settings: experience and ethics Wilco Peul, Nicephorus Rutabasibwa, Sylvia Shitsama, Blessing Michael	16:00-17:00
<b>Theatre Case Presentations</b>	
Chairs: Hamisi Shabani, Roger Härtl, Nsia Richard	
Case presentations by MOI Residents	17:00-18:30

## Wednesday

Location: MOI

Activity	Time
<b>Spine</b>	
<b>Basement Conference Room with live stream to Level 7 Conference Room</b>	
Chairs: John Duff, Othman Kiloloma, Beverly Cheserem	
Degenerative spine: when does surgery help? - Bernhard Meyer	07:30-08:00
Paediatric spinal deformity – Chris Bonfield	08:00-08:30
Timing of surgery in traumatic spinal cord injuries – Wilco Peul	08:30-09:00
Neuromonitoring for spinal surgery – Allison Greenbaum	09:00-09:30
Coffee Break	09:30-10:00
Theatre sessions – MOI Theatres (old building)	10:00-13:00
Simulation sessions – Level 7 Conference Room, Level 4 Simulation Centre	
Lunch Break	13:00-14:00
Theatre sessions – MOI Theatres (old building)	14:00-16:30
Simulation sessions – Level 7 Conference Room, Level 4 Simulation Centre	
Coffee Break	16:30-17:00
<b>NASSi/MOI Grand Round Webinar</b>	
<b>Basement Conference Room or online in Level 7 Conference Room</b>	
Upper Cervical Spine Injuries in Children Lemeri Mchome, Roger Härtl, Bernhard Meyer	17:00-18:30

# Epilepsy Surgery Teaching Timetable

**Wednesday**

**Location: MNH-Mloganzila**

Activity	Time
Transport from MOI to Mloganzila - leaving MOI at 07:30	07:30-09:00
<b>Epilepsy Surgery</b>	
Chairs: Japhet Ngerageza, Mohamed Mnacho	
Epilepsy Primer: Diagnosis, EEG and medical treatment – Evan Lewis (Virtual)	09:00-09:30
Epilepsy Primer: Surgical work up and surgery – Caitlin Hoffman	09:30-10:00
Coffee Break	10:00-10:30

<b>Case Based Learning</b>	10:30-12:30	<b>Parallel Nursing Session</b>	10:30-12:30
Case presentations / discussion Caitlin Hoffman		Neurological Assessment Haley Vance	10:30-11:00
		Bedside Teaching Yee Yit Cheng Hadija Mndeme Dorcas Magawa	11:00-12:30

Lunch Break	12:30-13:30
<b>Epilepsy Nursing</b> – Ivanna Yau (Virtual) Questions & Answers Online	13:30-14:30
<b>Seizure Conference</b> – Caitlin Hoffman Case presentations from attendees with discussion about suitability for surgical intervention	14:30-15:30
Coffee Break	15:30-16:00
<b>Seizure Conference continued</b> – Caitlin Hoffman Case presentations from attendees with discussion about suitability for surgical intervention	16:00-17:00
<b>NASSi/MOI Grand Round Webinar – online</b>	
Upper Cervical Spine Injuries in Children Lemer Mchome, Roger Härtl, Bernhard Meyer	17:00-18:30
Transport back to MOI - leaving MNH-Mloganzila at 18:30	18:30-19:30

## Main Teaching Table

**Thursday**

**Location: MOI**

Activity	Time
<b>Training Methods</b>	
<b>Basement Conference Room with live stream to Level 7 Conference Room</b>	
Chairs: Alpha Kinghomella, Costansia Bureta, Dorcas Magawa	
Neurosurgery Training in Ethiopia – Abenezer Tirsit	07:30-08:00
Neurosurgery Resident and Nursing Training in Tanzania: Discussion MMed, COSECSA, PNNT, Tanzanians abroad, Global Partnerships	08:00-09:30
Coffee Break	09:30-10:00
Theatre Cases – MOI Theatres	10:00-13:00
Simulation Sessions - Level 7 Conference Room, Level 4 Simulation Centre	
Nursing Teaching – Basement Conference Room	
Lunch Break	13:00-14:00
Theatre Sessions – MOI Theatres	14:00-16:30
Simulation Sessions - Level 7 Conference Room, Level 4 Simulation Centre	
Bedside Teaching – Critical Care / Wards	
Coffee Break	16:30-17:00
<b>FIENS Virtual Visiting Professor Webinar</b>	
<b>Basement Conference Room or online in Level 7 Conference Room</b>	
Minimally invasive approaches to advance spinal surgery in low resource settings Costansia Bureta, Roger Härtl	17:00-18:30



## Nursing Teaching Timetable

**Thursday**

**Location: MOI**

Activity	Time
<b>Neurosurgical Nursing</b>	
<b>Basement Conference Room</b>	
Chairs: Memory Mpore, Nazahed Richard	
Prehospital management for trauma – Zainab Manji	10:00-10:30
Traumatic brain injury – Moses Moses	10:30-11:00
Traumatic spinal cord injury – Nyagwaswa Michael	11:00-11:30
Nutrition following trauma – Zainabu Tindi	11:30-12:00
End of life care – Julie Woodfield	12:00-12:30
Questions and Discussion	12:30-13:00
Lunch Break	13:00-14:00
<b>Bedside Teaching – Practical Session</b>	
Traumatic Brain Injury – Moses Moses Spinal Cord Injury – Nyagwaswa Michael Case Preparation: Donatila Kwelukilwa, Sylvia Massawe	14:00-16:30

## Main Teaching Timetable

**Friday**

**Location: MOI**

Activity	Time
<b>Research</b>	
<b>Basement Conference Room with live stream to Level 7 Conference Room</b>	
Chairs: Zarina Shabhay, Karol Budohoski, Japhet Ngerageza	
Research Methodology – Halinder Mangat	07:30-08:00
Audit cycles & changing practice – Julie Woodfield	08:00-08:30
Intracerebral haemorrhage at MOI – Boaz Yonah	08:30-08:45
Prospective study of spinal injuries outcomes – Chibuikem Anthony Ikwuegbuenyi	08:45-09:00
MOI research milestones: looking to the future – Joel Bwemelo	09:00-09:30
Coffee Break	09:30-10:00
Theatre cases – MOI Theatres	10:00-13:00
Simulation sessions – Level 7 Conference Room	
Nursing teaching – Basement Conference Room	
Stakeholders meeting – Invitees Only	
Lunch Break	13:00-14:00
Theatre cases – MOI Theatres	14:00-15:00
Bedside teaching – Critical Care / Wards	
Coffee Break	15:00-15:30
<b>Closing Ceremony</b>	
<b>Basement Conference Room with live stream to Level 7 Conference Room</b>	
Closing Ceremony	15:30-17:00

## Nursing Teaching Timetable

Friday

Location: MOI

Activity	Time
<b>Neurosurgical Nursing</b>	
<b>Basement Conference Room</b>	
Chairs: Nyagwaswa Michael, Zainab Manji	
Intracranial aneurysms – Ishmail Sillah	10:00-10:30
Haemorrhagic stroke – Yee Yit Cheng	10:30-11:00
External Ventricular Drain care – Dorcas Magawa	11:00-11:30
Neonatal care for hydrocephalus and spina bifida – Jessi Stenqvist (Virtual)	11:30-12:00
Sedation and analgesia for critically ill patients – Hamis Shafii	12:00-12:30
Questions and Discussion	12:30-13:00
Break	13:00-14:00
<b>Bedside Teaching – Practical Session</b> Ventilator Management – Hadija Mndeme / Halinder Mangat EVD Care – Dorcas Magawa Case Preparation: Donatila Kwelukilwa, Sylvia Massawe	14:00-15:00

## Webinars

**Tuesday**

### European Association of Neurosurgical Societies (EANS) Webinar – Global Neurosurgery

**Host:** Prof. Wilco Peul

**Panel:** Dr. Nicephorus Rutabasibwa, Dr. Sylvia Shitsama, Dr. Blessing Michael

**Topic:** Neurosurgical oncology in resource limited settings – experience and ethics

**Date:** Tuesday 21st March 2023

**Time:** 16:00-17:00

**Live location:** Protea Hotel

To be broadcast at a later date

## Wednesday

### North American Spine Society International (NASSI) / Muhimbili Orthopaedic Institute (MOI) Grand Round

**Speaker:** Prof. Dr. Bernhard Meyer

**Moderators:** Prof. Roger Härtl, Dr. Lemeru Mchome

**Topic:** Upper Cervical Spine Injuries in Children

**Date:** Wednesday 22nd March 2023

**Time:** 17:00-18:30

**Live location:** MOI Basement Conference Room

## Thursday

### Foundation for International Education in Neurological Surgery (FIENS) Global Virtual Visiting Professor

**Speaker:** Prof. Roger Härtl

**Host:** Dr. Costansia Bureta

**Topic:** Minimally invasive approaches to advance spinal surgery in low resource settings

**Date:** Thursday 23rd March 2023

**Time:** 17:00-18:30

**Live location:** MOI Basement Conference Room

**Link:** <https://fiens.org/education/virtual-visiting-professor/>

## Simulation Sessions

### Wednesday - Friday

**Location: MOI**

Wednesday	Level 7 Conference Room		Level 4 Simulation Centre
10:00-12:00	Upsurgeon	Videos	Non Nocere VR
14:00-16:00	Upsurgeon	Videos	Non Nocere VR

Thursday	Level 7 Conference Room		Level 4 Simulation Centre
10:00-12:00	Upsurgeon	Videos	Non Nocere VR
14:00-16:00	Upsurgeon	Videos	Non Nocere VR

Friday	Level 7 Conference Room	
10:00-12:00	Upsurgeon	Videos

## **Non Nocere Virtual Reality**

### **Pedicle Screw Insertion**

**Activity:** Virtual reality lumbar pedicle screw insertion

**Company:** Non Nocere – Tolga Güngör

**Demonstrator:** Maricruz Rivera

**Capacity per session:** 10 participants

**Location:** Level 4 Simulation Centre

## **Upsurgeon**

### **Neurosurgical Simulation**

**Activities:** Temporal approaches & anatomy, pterional approaches & anatomy, retrosigmoid approaches & anatomy, aneurysm clipping, tumour resection, intracranial anatomy

**Company:** Upsurgeon

**Capacity per session:** 16 participants

**Location:** Level 7 Conference Room

## **Videos**

### **Online Training & Videos**

**Activities:** Medtronic drilling & drill care demonstration, Brainlab online campus, Surgical cases

**Location:** Level 7 Conference Room

## Organising Committee

Dr. Costansia Bureta MD PhD, Neurosurgeon, Muhimbili Orthopaedic Institute, Dar es Salaam, Tanzania

Professor Roger Härtl MD, Professor of Neurological Surgery & Director of Spinal Surgery, Weill Cornell Medicine Brain and Spine Center, New York Presbyterian Och Spine, USA

Dr. Caitlin Hoffman MD, Associate Professor Neurological Surgery, Weill Cornell Medical College, New York, USA

Dr. Chibuikem Anthony Ikwuegbuenyi MBBS, Research Fellow, Weill Cornell Medicine / Muhimbili Orthopaedic Institute, Dar es Salaam, Tanzania

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Dr. Boaz Yonah MD MMED, Neurosurgery Resident, Muhimbili Orthopaedic Institute, Dar es Salaam, Tanzania

## Faculty

Dr. Okembo Arthur Ageya MBChB, Neurosurgical Resident, Muhimbili Orthopaedic Institute, Dar es Salaam, Tanzania

Dr. Zhang Bo MD, Neurosurgeon, Muhimbili Orthopaedic Institute, Dar es Salaam, Tanzania

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Ms. Yee Yit Cheng, President of Asian Congress of Neurosurgical Nurses, Advanced Nurse Practitioner, Malaysia

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Dr. John Duff MD FACS, Neurosurgeon & Spine Surgeon, Clinique de Genolier, Switzerland

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