

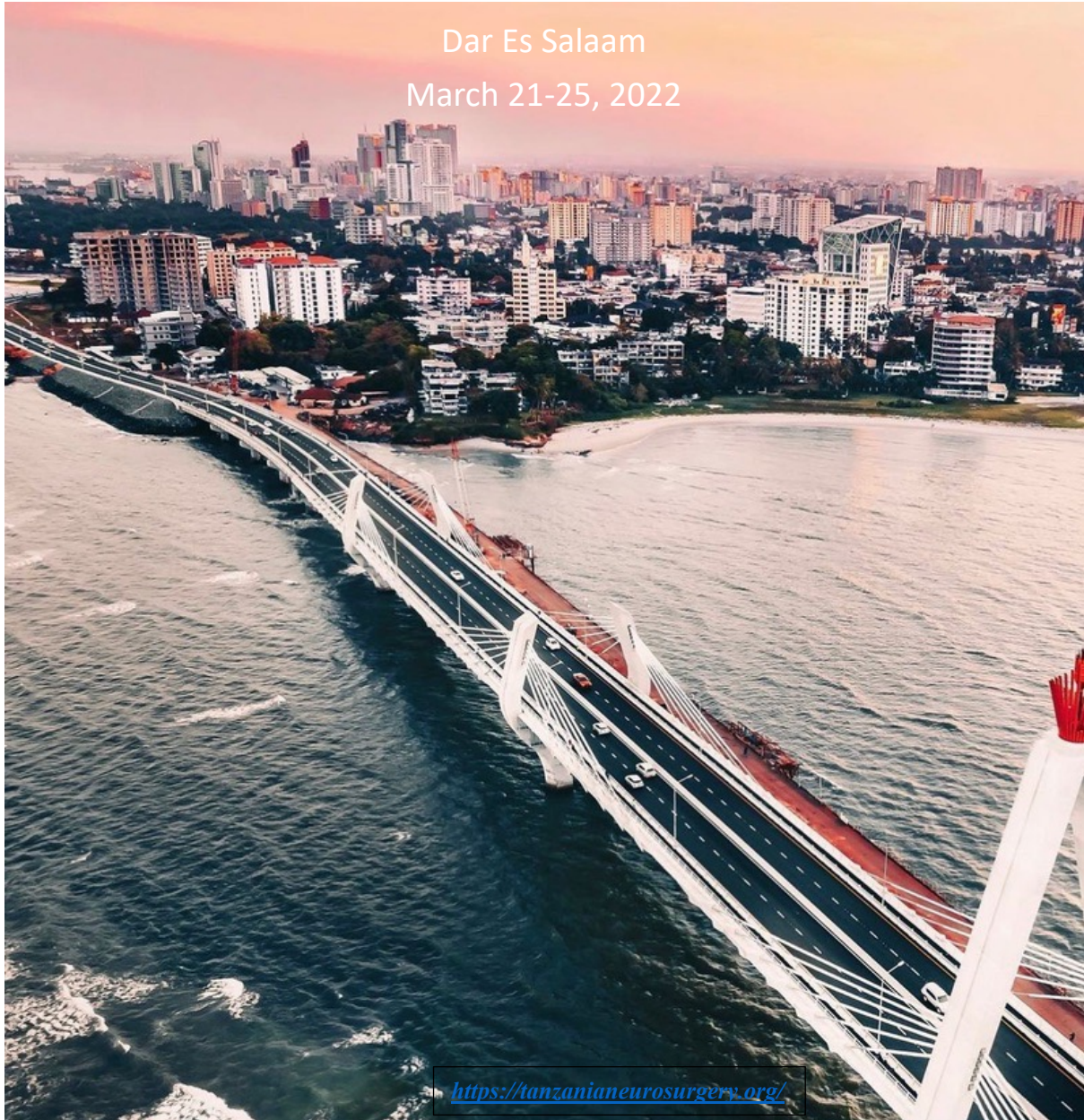


8th Annual

Neurosurgery, Neurotrauma and Neurocritical Care



Hands-on Practical Course



For several years, Dar es Salaam Neurotrauma Course has trained young surgeons and nurses in essential, up-to-date techniques and evidence-based management principles for brain and spinal trauma relevant for East Africa.

This year, we extend our agenda to include dedicated sessions in skull base anatomy and skull base surgery, discussion on neurotrauma management based on original data collected at our center ; a practical session on saw bones for beginners during the BOOT CAMPS organized by the biotechnical engineers and a full day oriented for critical care management of neurotrauma patients, getting full access to MOI ICU live cases. There is also a five day practical of live surgery where residents will get acquainted with finest skills from the experts. During the course the residents can also get chance to discuss their clinical cases in the discussion session.

It is intended that this course will establish neurosurgical care through a “train the trainer” model. At the conclusion of this course, participant’s knowledge and competence will be evaluated based on their increased ability to:

- *Understand health systems for management of acute neuro-axial illness and inherent challenges*
- *Correctly manage traumatic brain and spinal injury in emergency room*
- *Correctly identify indications for surgical interventions in brain and spinal trauma*
- *Classify cervical and thoracolumbar trauma fractures of the spine*
- *Know radiological features of degenerative spinal disorders and current surgical techniques for their treatment*
- *Understand classification and management of skull base and spinal tumors*
- *Understand 3D microsurgical anatomy and surgical approaches to skull base lesions*
- *Understand approaches for treatment of anterior and posterior circulation pathology*
- *Practice and handling of fine microsurgical instruments*
- *Understand the basic Neurocritical care approaches to neurotrauma patient*
- *Understand the current concepts in global neurotrauma,*
- *Get in-depth reviews and prospects for joint research and projects*

Local Organizing Committee

- *Juma Magogo, MD, MMed*
- *Constancia Bureta, MD, PhD*
- *Maxigama Ndosu, MD, MMed*
- *John Mtei, MD, MMed*
- *Shakeel Ahmed, MD*
- *Alpha kinghomella, MD, MMed, MSc*
- *Zarina Shabhay, MD, MMed, MMed Neuro*
- *Aingaya Kaale, MD, MMed, MSc*
- *Laurence Lemery, MD, MMed, MSc*
- *Nicephorus Rutabasibwa, MD, MMed, MSc*
- *Othman Kiloloma, MD, MMed, MSc, FCS*
- *Hamisi K. Shabani, MD, PhD, FCS*
- *Fidelis Minja, RN, MScN, DNS*
- *Sylvia Massawe, RN, PNNT*
- *Hadija Mndeme, RN, PNNT*
- *Donatila Kwelikilwa, RN, PNNT*
- *Moses Moses, RN, MScN, PNNT*
- *Dorcas Magawa, RN, MScN PNNT*

International Organizing Committee

- *François Waterkeyn, MD, Weill Cornell Medicine*
- *Branden Medary, BS, Weill Cornell Medicine*
- *Fabian Sommer, MD, Weill Cornell Medicine*

International Organizing Faculty

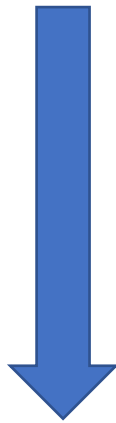
- *Roger Härtl, MD, Weill Cornell Medicine*
- *Halinder Mangat, MD, University of Kansas Medical Center*
- *Gail Rousseau, MD, George Washington University*
- *François Waterkeyn, MD, Weill Cornell Medicine*

Local Faculty

- *Hamisi K. Shabani, MD, PhD, FCS*
- *Ally Qassim, MD*
- *Othman Kiloloma, MD, MMed, MSc, FCS*
- *Said Mwanemo, RN*
- *Tumbwene Mwansisya, RN, PhD*
- *Dickson Mkoka, RN, PhD*
- *Menti Ndile, RN, PhD*
- *Madhury, RN*
- *Stewart Mbelwa, PhD*
- *Mwanga Mhoka, RN, BScN*
- *Joshua Ogutu, RN*
- *Juliana Mwongi, RN, MScN*
- *Zaituni Bembe, RN, BScN*

Invited International Faculty

- *Roger Härtl, MD - U.S.*
- *Halinder Mangat, MD - U.S.*
- *Philip Stieg, MD – U.S.*
- *Fabian Sommer, MD - U.S.*
- *Gail Rousseau, MD - U.S. (Virtual)*
- *Francois Waterkeyn, MD - Belgium*
- *Gideon Mlawa, MD, FRCP - U.K.*
- *Michael Blessing, MD – Uganda*
- *Zhang Bo, MD – China*
- *Basant Misra, MD – India*
- *Mark Souweidane, MD – U.S. (virtual)*
- *Nasser El-Ghandour, MD – Egypt*
- *Ondra Petr, MD – Austria*
- *Ignatius Essene, MD, PhD – Cameroun (virtual)*
- *Laura-Anna Lohkamp, MD – Germany*
- *Karen March, RN – U.S. (virtual)*
- *Yit Cheng, RN - Nepal (Virtual)*
- *Faheem GulamAbbass, MD – U.S (virtual)*



COURSE REGISTRATION

For Nurses Registration, please use that link: <https://forms.gle/y1E5w48gH2nTRCYa9>
For Doctors Registration, please use that link: <https://forms.gle/XvVHuifiBkMFD9vC7>

Monday, 21: UPDATE ON NEUROTRAUMA & NEUROCRITICAL CARE

Moderated by Dr Shabani, Dr Magogo, Prof. Hartl

07:00–08:00 BREAKFAST

*08:00–08:10 Welcome Remarks **Dr Shabani***

*08:10–08:20 Welcome from International Organizing Team **Prof Härtl***

*08:20–08:40 Welcome from Ministry of Health **Minister of Health***

*08:40–09:00 Updates in SCI protocol **Dr Sommer***

*09:00–09:20 Indication for Mini Invasive Spine Surgery **Prof. Härtl***

*09:20–09:40 SCI at MOI and Database: An Update **Dr Waterkeyn***

*09:40–10:00 Decision Making in TBI: **Dr Mangat***

*10:00–10:30 Cases Presentation and Discussion **Neurosurgery Residents***

BREAK

10:30–17:00 NURSES BREAKOUT SESSIONS

11:00–17:00 LIVE SURGERIES

Tuesday, 22: UPDATE ON SKULL BASE AND NEURO-ONCOLOGY

Moderated by Dr Lemeris and Dr Aingaya

07:00–08:00 BREAKFAST

*08:00–08:20 Pituitary Adenomas: Medical Management **Dr Mlawa***

*08:20–08:40 Pituitary Adenomas: Surgical Management **Dr Blessing***

*08:40–09:00 Surgical Management of Gliomas in Eloquent Brain Areas **Prof Stieg***

*09:00–09:20 CPA Tumours: Surgical Nuances in Limited Resource **Prof Misra***

*09:20–09:40 Introduction to Neuro-Otology **Dr Mfuko***

*09:40–10:00 Medical Oncology Management of CNS Tumors **Dr Hellen***

*10:00–10:20 Cases Presentation/VS Video Report and Discussion **Neurosurgery Residents***

Break

10:30–17:00 NURSES BREAKOUT SESSIONS

11:00–17:00 LIVE SURGERIES + REALSPINE DEMO

Wednesday, 23: UPDATE ON PEDIATRIC NEUROSURGERY

Moderated by Dr. Kinasha and Dr. Ngerageza

07:00–08:00 BREAKFAST

08:00–08:20 Current Concepts of Pediatric Hydrocephalus Prof. Souweidane

08:20–08:40 Pediatric Shunt Infections – Update Prof Ghandour

08:40- 09:00 How to Perform Endoscopic ETV Dr Shabani

09:00–10:00 Cases Presentation and Discussion Neurosurgery Residents

Break

10:30–17:00 NURSES BREAKOUT SESSIONS

10:30:17:00 LIVE SURGERIES + REALSPINE DEMO

Thursday, 24: UPDATE ON NEUROVASCULAR

Moderated by Dr Rutabasibwa, Dr. Alpha and Dr Ondra Petr

07:00–08:00 BREAKFAST

08:00–08:20 Stereotactic management of hypertensive hemorrhagic stroke Dr Zhang Bo

08:20–08:40 Surgical Management of Aneurysm Dr Petr

08:40–09:00 Endovascular Techniques for Aneurysm Therapy Dr Qassim

09:00–09:20 Research Study protocol at MOI Dr Waterkeyn

09:20–09:40 Endovascular Treatment of Acute Ischemic Stroke Dr Faheem

09:40–10:00 Case Presentation Neurosurgery Residents

Break

10:30–17:00 NURSES BREAKOUT SESSIONS

10:30–17:00 LIVE SURGERIES + REALSPINE DEMO

19:00-23:00: Dinner Gala

Friday, 25: RESEARCH AND COLLABORATIONS

Moderated by Dr. Zarina, Dr. Bureta, Dr. Waterkeyn and Dr. Halinder

07:00–08:00 BREAKFAST

08:00–08:20 Implementation of Neuronavigation at MOI **Prof Hürtl**

08:20–08:40 Ethical Guidelines in Conducting Human Research **Dr Mangat**

08:40–09:00 Study Design **Dr Othman**

09:00–09:20 Essential Components of a Research Environment **Dr Essene**

09:20–09:40 Reviewing the literature: Databases & Queries **Dr Lohkamp**

09:40–10:00 Writing scientific findings **Prof. Kahamba**

Break

10:30–17:00 BOOT CAMP

| Topic | Company |
|--|----------------------|
| <i>ICP Monitors, Programmable Shunts and Orthosis</i> | <i>Integra</i> |
| <i>MIS Instruments and Interbody Implants, Neuronavigation, Neuromonitoring, High-Speed drills</i> | <i>Medtronic</i> |
| <i>Bone Cement/Substitutes, Dural Substitutes and Sealants</i> | <i>Depuy Synthes</i> |
| <i>Introduction to Neuro-Otology and Neurology of Balance</i> | <i>Dr Mfuko</i> |

Monday, 21: NURSES BREAKOUT SESSIONS

Moderated by Sylvia Massawe

10:30–10:45 Introduction of Neurosciences Nursing in Tanzania Dorcas Magawa

10:45–11:15 Neurological Assessment Sylvia Massawe

11:15–11:45 Management of a patient with TBI Dr Mangat

11:45–12:15 Nursing management of patients with Traumatic Spine Cord Injury Yit Cheng

12:15–12:45 Role of Hypothermia in ICP Management: An Update Dr Mangat

12:45–13:00 Discussion

LUNCH BREAK

14:00–15:00 Bed side teaching: ICU management of TBI Dr Mangat

Tuesday, 22: NURSES BREAKOUT SESSIONS

Moderated by Mudhury and Moses Moses

10:30–11:00 Nursing Management of a patient with Pituitary Adenoma Prof Tumbwene

11:00–11:30 Nursing Management of a patient with Posterior Fossa Tumor Prof Mbelwa

11:30–12:00 Nursing care of an inoperable Brainstem Glioma patient ORCI

12:00–12:30 Discussion

LUNCH BREAK

13:30–15:00 Bed side teaching: Management of a patient with Posterior Fossa Tumor Dr Mangat

Wednesday, 23: NURSES BREAKOUT SESSIONS

Moderated by Said Mwanemo and Madhury

10:00–10:30 Nursing Management of a Patient with Hydrocephalus Karen March

10:30–11:00 Secretions: An Update Juliana Mwongi

11:00–11:30 Pain Management of Critically ill Patients Prof Dickson Mkoba

11:30–12:00 Nursing care of patients with an EVD Dr Mangat

12:00–12:30 Discussion

LUNCH BREAK

13:30–15:00 Bed side teaching: EVD Management Dr Mangat

Thursday, 24: NURSES BREAKOUT SESSIONS

Moderated by Madhury and Said Mwanemo

10:30–11:00 Role of PNNT in Improving Nursing Services in LMICs Prof Rousseau

11:00–11:30 Nursing Management of a patient Aneurysm Dr Menti Ndile

11:30–12:00 How to achieve Infection Control in ICU Sr Zaituni Bembe

12:00–12:30 Entrepreneurship in Nursing Services Joshua Ogutu

LUNCH BREAK

13:30–15:00 Bed side teaching on Ventilator/Cardiac Monitor Alarm Management Dr Mangat

19:00-23:00 Dinner Gala