

# Kongamano la tano la kimataifa la madaktari bingwa wa upasuaji wa Ubongo, Mgongo na Mishipa ya fahamu na Mafunzo uangalizi maalum: Tanzania

*Novemba 5-9, 2018*  
*Ukumbi wa Mikutano MOI*



**Umeandaliwa na**  
*Taasisi ya Tiba ya Mifupa, upasuaji wa Ubongo, Mgongo na mishipa ya fahamu, Dar-es-Salaam, Tanzania*



**Kwa kushirikiana na:**  
*Kitivo cha Tiba ya Ubongo na Mgongo cha chuo Kikuu cha Weill Cornell Medical College, New York, NY, US*

**IMEPITISHWA NA:**



Global Neuro



**IMEUNGWA MKONO NA:**



Shukrani za pekee kwa: Colin MacDonald and Family \* William Beecher Scoville Foundation \* Leonard & Evelyn Lauder Foundation  
Eric Javits Family Foundation \* Murray G and Beatrice H Sherman Charitable Trust

# 5<sup>th</sup> HANDS-ON NEUROSURGERY, NEUROTRAUMA AND CRITICAL CARE COURSE

5<sup>th</sup> – 9<sup>th</sup> November, 2018

Venue: Jakaya Kikwete Cardiac Institute – Muhimbili National Hospital Complex

Organized by: Weil Cornell Medical College New York USA and Muhimbili Orthopedic Institute DSM Tanzania

The course is accredited by COSECSA, WFNS, AOSpine, FIENS, BTF, Global Neuro and Neurocritical Care Society.

## LOCAL ORGANIZING COMMITTEE:

### From Muhimbili Orthopedic Institute (MOI)

- Hamisi K. Shabani, MD, PhD, FCS
- Joseph F. Kahamba, MD, MMed, MSc, MBA, FCS
- Othman W. Kiloloma MD MMed MSc
- Nicephorus K. Rutabasibwa, MD, MMed, MSc
- Laurence Lemeris MD MMed MSc
- Japhet G. Ngerageza, MD, MMed, MSc
- Aingaya Kaale MD MMed MSc
- Happiness Rabieli MD MMed MSc
- Raymond Makundi MD MMed MSc
- John S. Mbwambo MD MMed
- Alpha Kinghomela MD MMed
- Monafisha Lema MD MMed
- Albert Lazaro MD
- Yusef Imani Mosley MD
- Elizabeth Wampembe MD

## LOCAL FACULTY:

### From Muhimbili Orthopedic Institute (MOI)

- Hamisi K. Shabani, MD, PhD, FCS
- Respicious Boniface, MD, MMed
- Othman W. Kiloloma, MD MMed MSc
- Nicephorus Rutabasibwa MD MMed MSc
- Joseph F. Kahamba, MD, MMed, MSc, MBA, FCS
- Mohammed Y. Janabi, MD, PhD.
- Anthony Assey, MD, MMed
- Laurent Lemeris, MD, MMed, MSc
- Hadija Mndeme, RN, CCN
- Japhet G. Ngerageza, MD, MMed, MSc
- Edwin Lugazia, MD MMed FCTA MBA
- Albert Lazaro, MD

## INTERNATIONAL ORGANIZING COMMITTEE:

- Roger Härtl, MD - Director of Spinal Surgery and Neurotrauma, Weill Cornell Brain and Spine Center, Weill Cornell Medicine, New York
- Halinder S. Mangat, MD - Medical Director, Neurocritical Care, Department of Neurology & Neurosurgery, Weill Cornell Medicine, New York

## INVITED INTERNATIONAL FACULTY:

- Óscar L. Alves, MD - Portugal
- Amer Aziz, MD – Pakistan
- Allison Basham, PA - USA
- Michael Blessing, MD – Uganda
- Christopher Bonfield, MD – USA
- Karol Budohoski, MD – UK
- Tarq Khan - Pakistan
- Sertac Kirnaz, MD - USA/Turkey
- David Jeffrey Kopman, MD - USA
- Ezriel Kornel, MD – USA
- Bernhard Meyer, MD - Germany
- Venugopal Menon, MD - India
- Alim Mitha, MD – Canada
- Alex Nodell, Depuy Synthes - USA
- Petr Ondra, MD – Austria
- Jose Piquer, MD - Spain
- Benjamin Rapoport, MD - USA
- Franziska Schmidt, MD - USA/Germany
- Philip E. Stieg, PhD, MD - USA
- Jose M. Torres-Campa, MD - Spain
- E. Haley Vance, DNP - USA
- Christoph Wipplinger, MD - USA/Austria
- Scott Zuckerman, MD - USA



## OBJECTIVES OF TRAINING

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 and a full day oriented for critical care management of neurotrauma patients. There is also a three-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, hurdles with in-depth reviews and prospects for joint research in a multispectral manner.

## PROGRAM OUTLINE

### TIMELINE: November 5<sup>th</sup> – 9<sup>th</sup>, 2018

- Monday: Didactic Sessions and Case Discussions (JKCI Conference Hall, Muhimbili Dar es Salaam)
- Tuesday: Didactic Sessions and Case Discussions (JKCI Conference Hall, Muhimbili Dar es Salaam)  
Practical session on saw bones – skull and spine (JKCI Conference Hall, Muhimbili Dar es salaam)  
Didactic sessions - Emergency Neurological Life Support
- Wednesday: Didactic sessions - Emergency Neurological Life Support  
Clinic/Live Surgery (MOI, Dar es Salaam)  
Didactic sessions - Emergency Neurological Life Support
- Thursday: Clinic/Live surgery (MOI, Dar es Salaam)  
Didactic sessions - Emergency Neurological Life Support
- Friday: Clinic/Live surgery (MOI, Dar es Salaam)

## AGENDA

•Monday•

Didactic Sessions: JKCI Conference Hall, Muhimbili Dar-es-Salaam, Tanzania

07:00 - 08:00 am	Registration	
08:00 - 08:30 am	Delegates seated – course pre test	<i>Dr. H. Shabani/Dr. A. Lazaro</i>
08:30 - 08:40 am	Welcome remarks	<i>Dr. Respicius Boniface</i>
08:40 - 08:50 am	A word from the international organizing committee	<i>Dr. Roger Härtl</i>
08:50 - 09:10 am	Official welcome from Ministry of Health and Social Welfare	<i>Deputy Minister for Health</i>

### **SESSION 1: Global perspective**

**Chairpersons: Dr. Roger Härtl and Dr. Othman Kiloloma**

09:20 - 09:30 am	Current challenges of neurological surgery and strategies for permanent solutions – quantity/quality issues	<i>Dr. Joseph F. Kahamba</i>
09:30 - 09:40 am	COSECSA: Neurosurgical training in ECSA region	<i>Dr. Laston Chikoya</i>
09:40 - 09:50 am	WFNS: Role of WFNS in Global Neurosurgery	<i>Dr. Tariq M. Khan</i>
09:50 - 10:00 am	CAANS: Neurosurgery training in Africa	<i>Dr. Moody Qureshi</i>
	Discussion	

### **SESSION 2: Traumatic brain injury**

**Chairpersons: Dr. Halinder Mangat and Dr. Hamisi Shabani**

10:15 - 10:30 am	Assessment and management of severe TBI using evidence-based guidelines	<i>Dr. Christoph Wipplinger</i>
10:30 - 10:45 am	Pediatric TBI assessment and management	<i>Dr. Nicephorus Rutabasibwa</i>
10:45 - 11:00 am	Surgical management of TBI – focus on decompressive craniectomy	<i>Dr. Benjamin Rapoport</i>
11:00 - 11:15 am	ICU and ICP management of severe TBI, prehospital management	<i>Dr. Halinder Mangat</i>
11:15 - 11:30 am	Current status of trauma in Tanzania – the CNIS experience	<i>Dr. Respicius Boniface</i>
11:30 - 12:00 pm	Knowledge of pre-hospital care among public transporters on TBI patients – how to install the protocol	<i>Dr. Hamisi Shabani/ Stephen Nyamsaya</i>
	Discussion	

**PARALLEL SESSION 1: Nurses breakout session (Location: JKCI office)**

10:35 - 12:00 am	Care of traumatic brain injured patients: Lectures and hands-on demonstrations	<i>E. Haley Vance, DNP</i> <i>Allison Basham, PA</i> <i>Hadija Mndeme RN/CCN</i>
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**SESSION 3: Research at MOI**

**Chairpersons: Dr. Ezriel Kornel and Prof. Dr. B. Meyer**

12:00 - 12:15 pm	MOI TBI database – ongoing findings	<i>Dr. Japhet Ngerageza</i>
12:15 - 12:30 pm	MOI TBI audit – preliminary results	<i>Dr. Japhet Ngerageza</i>
12:30 - 12:45 pm	Clinical research: Basics and processes – focus on research question formulation, data collection QC/QA issues	<i>NIMR Tanzania</i>
12:45 - 01:00 pm	Ethical review processes	<i>MUHAS Tanzania</i>
01:00 - 01:15 pm	Epidemiology of RTI in DSM – LMIC methodology perspective	<i>Dr. Angela Samuel</i>
	Discussion	

**01:30-02:30 pm Lunch break**

**Keynote address**

02:30 - 03:00 pm	How to build a successful brain and spine center	<i>Dr. Philip Stieg</i>
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**SESSION 4: Successful management in brain surgery**

**Chairpersons: Dr. Philip Stieg and Dr. Japhet Ngerangeza**

03:00 - 03:20 pm	Role of ICP management	<i>Dr. Roger Härtl</i>
03:20 - 03:40 pm	Surgical management of skull base tumors	<i>Prof. Dr. B. Meyer</i>
03:40 - 04:00 pm	Cambridge GNOS study	<i>Dr. Karol Budohoski</i>
04:00 - 04:20 pm	Attitudes towards CT utilization in severe TBI	<i>Dr. Halinder Mangat</i>
04:20 - 04:40 pm	Contemporary Aneurysm Treatment in the Endovascular Era	<i>PD Dr. Ondra Petr</i>

04:40 - 05:00 pm

Case discussion (TBI and tumor cases)

*Dr. R. Makundi & Dr. N. Rutabasibwa*

## AGENDA

• Tuesday •

Didactic Sessions: JKCI Conference Hall, Muhimbili Dar es Salaam, Tanzania

08:00 - 08:40 am

Registration

### **PARALLEL SESSION 2: TBI and spinal trauma database coordination meeting (Location: JKCI office)**

08:40 - 10:20 am

Meeting of the coordination team

(R. Härtl, F. Schmidt, S. Kirnaz, A. Lazaro, H. Mangat, J. Ngerageza, H. Shabani, N. Rutabasibwa)

### **SESSION 5: Classification and surgical principals in spine injury**

**Chairperson: Dr. Othman W. Kiloloma and Dr. Laurent Lemerli**

08:40 - 08:55 am

Initial assessment and management of spinal trauma

*Dr. Christoph Wipplinger*

08:55 - 09:10 am

Spinal cord injury medical management guidelines

*Dr. José Piquer/Amer Aziz*

09:10 - 09:25 am

AO classification of thoracolumbar spine injury

*Dr. Michael Blessing /W.K. Othman*

09:25 - 09:40 am

AO classification of sub axial spine injuries

*Dr. Jose Piquer/ Amer Aziz*

09:40 - 09:55 am

Classification of upper cervical spine injuries

*Dr. Karol Budohoski*

09:55 - 10:10 am

Surgery principals for C0/1/2 Injuries

*Prof. Dr. Bernhard Meyer*

10:10 - 10:25 am

Surgery principals for sub axial spine injuries

*Dr. Amer Aziz/Jose Piquer*

10:25 - 10:40 am

Surgery principals for thoracolumbar spine injuries

*Dr. Torres-Campa*

10:40 – 10:50 am

Discussion

**10:50 - 11:10 am**

**Tea break**

### **PARALLEL SESSION 3: Nurses breakout session (Location: JKCI office)**

10:20 – 12:20 pm	Care of spinal cord injured patients: lectures and hands-on demonstrations	<i>E. Haley Vance, DNP</i> <i>Allison Basham, PA</i> <i>Hadija Mndeme RN/CCN</i>
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### **SESSION 6: Infection and Tumor**

**Chairperson: Dr. Michael Blessing and Dr. Nicephorus Rutabasibwa**

11:10 - 11:20 am	Classification and imaging of spinal tumors	<i>Dr. Óscar Alves</i>
11:20 - 11:40 pm	Current management of TB spine Discussion	<i>Dr. KV. Menon</i>

### **12:00 – 01:30 pm Lunch break**

### **SESSION 7: Imaging/Pediatric/MIS**

**Chairperson: Dr. Anthony Assey and Dr. Othman W. Kiloloma**

01:30 – 01:45 pm	Imaging protocols in traumatic spine	<i>Dr. Mechris Mango</i>
01:45 - 02:00 pm	MRI imaging of the spine	<i>Dr. Benjamin Rapoport</i>
02:00 - 02:15 pm	MIS approaches for treatment of degenerative spinal disorders	<i>Dr. Roger Härtl</i>
02:15 - 02:30 pm	Pediatric spine trauma	<i>Dr. Christopher Bonfield</i>
02:30 - 02:45 pm	Case discussion (All faculty to bring cases)	<i>Dr. A. Kaale &amp; Dr. H. Shabani</i>

### **02:45 - 03:15 pm Tea break**

03:15 - 03:45 pm	Practical saw bone – spine implants	<i>Johnson&amp;Johnson/Medtronics</i>
03:45 – 04:15 pm	MOI spine database: preliminary results & discussion	<i>Dr. A. Lazaro/Dr. N. Rutabasibwa</i>
04:15 – 04:45 pm	Post-test questionnaire & certificate presentation Next day surgery list to be discussed	<i>Dr. A. Lazaro/Dr. A. Kighomela</i> <i>TBD/ALL TEAM</i>

## AGENDA

• Wednesday •

Patients seen in clinic and surgery in OR: Muhimbili Orthopedic Institute, Dar es Salaam, Tanzania

### SESSION 9: Post-operative case discussion

Chairperson: Prof J.F.Kahamba

01:30 - 01:45 pm	Presentation of surgical procedure done - 1	<i>TBD</i>
01:45 - 02:00 pm	Presentation of surgical procedure done - 2	<i>TBD</i>
02:00 - 02:15 pm	Presentation of surgical procedure done - 3	<i>TBD</i>
02:15 - 03:00 pm	Discussion	
<b>03:00 - 03:30 pm</b>	<b>Tea break</b>	
03:30 - 04:00 pm	Forthcoming cases for surgery	<i>Dr. Mbwambo/Dr. Rabel</i>

## AGENDA

•Tuesday 12:00 onwards•

Parallel sessions: Emergency Neurological Life Support (ENLS)

12:00 – 12:30 pm	Welcome to ENLS	<i>Dr. Halinder Mangat</i>
<b>SESSION 1: Chairperson: Dr. E. Lugazia</b>		
12:30 – 01:15 pm	Airway, ventilation and sedation	<i>Dr. Halinder Mangat</i>
01:15 – 02:00 pm	Approach to comatose patient	<i>Dr. Franziska Schmidt</i>
<b>02:00 – 02:30 pm</b>	<b>Tea break</b>	
<b>SESSION 2: Chairperson: Dr. Karima Khalid</b>		
02:30 – 03:10 pm	Subarachnoid hemorrhage	<i>Dr. Franziska Schmidt</i>
03:10 – 03:50 pm	Meningitis and encephalitis	Allison Basham



03:50 -

To main hall for neurotrauma course certificates

## AGENDA

### Wednesday

#### Didactic Sessions: Emergency Neurological Life Support (ENLS) JKCI Conference Hall, Muhimbili Dar-es-Salaam, Tanzania

##### **SESSION 3: Chairperson: Dr. E. Lugazia**

08:30 - 09:10 am	Resuscitation after cardiac arrest	<i>Dr. Halinder Mangat</i>
09:15 - 09:45 am	Status epilepticus	<i>Dr. Christoph Wipplinger</i>
	Discussion	

##### **10:00 - 10:30 am      Tea break**

##### **SESSION 4: Chairperson: Dr. Karima Khalid**

10:30 – 11:15 am	Traumatic brain injury	<i>Dr. Christoph Wipplinger</i>
11:15 – 12:00 am	Intracranial hypertension	<i>Dr. Halinder Mangat</i>
	Discussion	

##### **12:30 – 01:30 pm      Lunch break**

##### **SESSION 5: Chairperson: Dr. E. Lugazia**

01:00 – 01:45 pm	Traumatic spine injury	<i>Dr. Christoph Wipplinger</i>
01:45 – 02:30 pm	Spinal cord compression	<i>Dr. Halinder Mangat</i>

##### **2:30 – 03:00 pm      Tea break**

##### **SESSION 6: Chairperson: Dr. Karima Khalid**

03:00 – 03:45 pm	Acute ischemic stroke	<i>Dr. Franziska Schmidt</i>
03:45 – 04:30 pm	Intracerebral hemorrhage	<i>Allison Basham</i>

## AGENDA

### •Thursday - Friday•

Patients seen in clinic and surgery in OR: Muhimbili Orthopedic Institute, Dar es Salaam, Tanzania

08:00 – 01:15 pm      OPD clinic and Surgery at MOI      ALL

01:15 - 05:00 pm      Lunch then clinical discussion      ALL

Chairperson Thursday: Othman Kiloloma

Chairperson Friday: Japhet Ngerageza

## REGISTRATION


For more information, contact: Franziska Schmidt, MD at: [Schmidt\\_Franziska@gmx.de](mailto:Schmidt_Franziska@gmx.de)

To register, contact: Hamisi K. Shabani, MD at: [hshabanijp@yahoo.co.uk](mailto:hshabanijp@yahoo.co.uk)

### ACCOMMODATIONS

Hotel reservations can be made

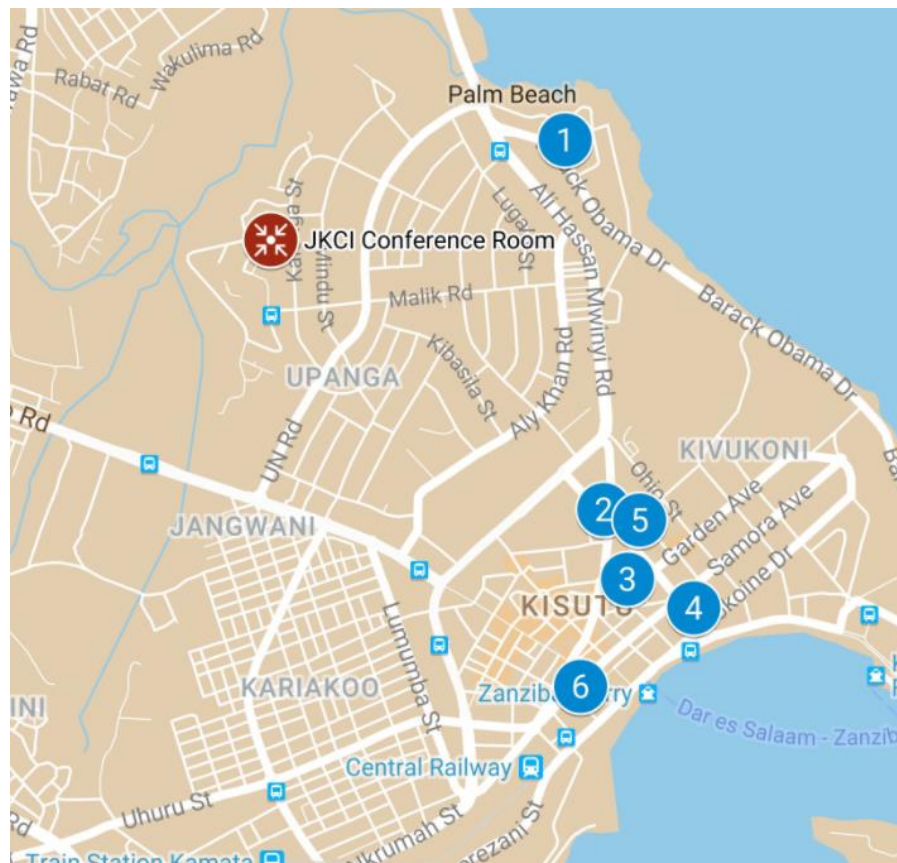
#### Hospital

 JKCI Conference Room

#### Hoteles

- 1** Protea Hotel by Marriott Dar es Salaam Courtyard
- 2** Holiday Inn Dar Es Salaam
- 3** Golden Tulip Hotel Dar City Centre
- 4** New Africa Hotel & Casino
- 5** Ramada Encore Dar Es Salaam
- 6** Harbour View Suites

directly or through local organizing committees in Dar es Salaam



**5TH HANDS-ON NEUROSURGERY,  
NEUROTRAUMA AND CRITICAL CARE  
COURSE - TANZANIA**

November 5th - 9th, 2018  
JKCI Conference Hall



HOSTED BY  
MUHIMBILI ORTHOPEDIC AND NEUROSURGICAL INSTITUTE,  
DAR-ES-SALAAM, TANZANIA

IN COLLABORATION WITH  
BRAIN AND SPINE CENTER AT WEILL CORNELL MEDICAL COLLEGE  
NEW YORK, NY, USA



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