



Human Brain: Advanced Anatomy and Diagnosis

# Hands-on Course for Medical Professionals

*In Celebration of 'Advances in Brain Care in East Africa'*

**WHERE:**

Lectures: Mnazi-Mnzoza Hospital Main Auditorium  
Hands-on: MMNed Institute Conference Room

**DATES:**

November 13-17, 2023

**COURSE DIRECTORS:**

Jose Piquer Belloch MD  
Mahmood M. Qureshi MD  
Paul H. Young MD

**SPONSORING INSTITUTION:**

MMNED INSTITUTE – Zanzibar, VIU-NED CHAIR OF GLOBAL NEUROSCIENCE AND SOCIAL CHANGE

# All About The Human Brain: Advanced Anatomy and Diagnosis.

## A Course for Doctors and health care professionals



**WHERE:**

**Lectures:** Mnazi-Mnoza Hospital Main Auditorium | **Hands-on:** MMNed Institute Conference Room



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**COURSE TUITION**

**(HANDS-ON ATTENDANCE LIMITED):**

Didactic + Hands-on sessions  
\$50 (10 Scholarships available).  
*Check page 7 for more information.*



### COURSE FACULTY:

- Jose Piquer Belloch MD, Ph,MD
- Mahmood M. Qureshi MD
- Paul H. Young MD
- Dr. Aamir Qureshi - NSG  
Mediclinic hospital in Windhoek- Namibia
- Dr. Said Idrissa - Chief NSG MMNED  
Institute
- Dr. Muly Abdalla - NSG Resident MMNED  
Institute
- Hadia MMadi Nahoda - MMNED Head  
Nurse
- Lisa M. Young BSRN - Neurosurgery Nurse  
St. Louis, USA
- Dr Mohammed Haji. Coordinator MMNED  
Institute
- Dr. Jose Piquer Martinez, PhD—Director  
NED Foundation
- Khamis Waziri – Chief Anesthesia Mnazi  
Mmoja Hospital
- Dr Said Simai - Neurosurgeon MMNED  
Institute
- Dr Ommar Mussa - Neurosurgeon MMNED  
Institute
- Dr Salum Shaaban. Chief ICU Mnazi  
Mmoja Hospital



### COURSE DESIGNED FOR:

- Any medical professional interested in a comprehensive review of human brain anatomy, function and pathophysiology (including multiple hands-on human brain sessions).
- Primary care and specialist physicians (neuro-related or not).
- Allied health-care professionals (including nursing, critical care, therapy, diagnostic, etc).
- Registrars and students from all disciplines.



# Course Agenda <sup>1/5</sup> (DAYS)

## MONDAY 13<sup>TH</sup> NOVEMBER

● 8: 45 – 9:00 h

### Course Introduction

Jose Piquer

● 9:00 – 10:30 h

### Human Brain '2023'

Paul Young

- Definition of Terms
- Science/Philosophy/Religion
- Human Brain Domains

### Origins of Universe, Earth, Life and Nervous System

Paul Young

- Abiogenesis
- DNA/RNA
- Phylogeny of Life
- Human Evolution
- Nervous System and Brain Phylogeny

● 10:30 – 10:45 h

### Coffee Break ☕

● 10: 45 – 11:45 h

### CNS Divisions - Anatomy, Embryology and Function

Paul Young

- Brainstem and Cranial Nerves
- Diencephalon

● 11:45 – 12:30 h

### Hands-on Anatomy Session

All Faculty

● 12:30 – 13:00 h

### Lunch Break 🍴

● 13:00 – 14:00 h

### CNS Divisions - Anatomy, Embryology and Function

Paul Young

- Basal Ganglia, Cerebellum and Motor Function

● 15:00 – 15:15 h

### Coffee/Tea Break ☕

● 15:15 – 17:00 h

### Lecture and Break-out Session Bedside Neurological Examination

Hadia Nahoda and Lisa Young

● 17:00 h

### Adjourn



# Course Agenda <sup>2/5</sup> (DAYS)

## TUESDAY 14<sup>TH</sup> NOVEMBER

- 9:00 – 10:30 h  
**CNS Divisions- Anatomy, Embryology and Function (3) - PY**  
Cerebral Cortex
- 10:30 – 10:45 h  
**Coffee Break** ☕
- 10:45 – 11:30 h  
**Hands-on Anatomy Session**  
All Faculty
- 11:30-12:30 h  
**Lecture and Break-out Session**  
Evaluation of Altered States of Consciousness  
Dr. Said Idrissa
- 12:30 – 13:00 h  
**Lunch Break** 🍴
- 13:00 – 14:30 h  
**Areas of Cognition and Emotion (1) - PY**  
History of Limbic  
Hierarchy of Function  
Structures /Functions/Loss
  - Hippocampus
  - Olfactory
  - Amygdala
- 14:30 – 15:00 h  
**Hands-on Anatomy Session**  
All Faculty
- 15:00 – 15:15 h  
**Coffee/Tea Break** ☕
- 15:15 – 17:00 h  
**Anatomy of the CSF Pathway- Hydrocephalous**  
Hadia Nahoda and Lisa Young
- Congenital Neurotube Abnormalities**  
Syringomyelia and Chiari Malformations  
Jose Piquer
- Real-time Operative Demonstrations**  
Jose Piquer
- Scenario of Hydrocephalus & Spina Bifida in East Africa**  
Dr Haji
- 17:00 h  
**Adjourn**



# Course Agenda <sup>3/5</sup> (DAYS)

## WENESDAY 15<sup>TH</sup> NOVEMBER

- 9:00 – 10:00 h  
**Areas of Cognition and Emotion (2) – PY**  
Structures /Functions/Loss
  - Diencephalon/Brainstem
  - Basal Forebrain
  - Septal Area
- 10:45 – 11:30 h  
**Nervous System Fundamentals**  
Dr. Ommar Mussa
  - Physiology of Electrical Transmission
  - Neurotransmitters
- 11:00 – 11:15 h  
**Coffee Break** ☕
- 11:15 – 12:30 h  
**ICP Physiology and Monitoring**  
Determination of Brain Death  
Moody Qureshi
- 12:30 – 13:00 h  
**Lunch Break** 🍴
- 13:00 – 14:30 h  
**Areas of Cognition and Emotion (3) – PY**  
Cingulate  
Prefrontal
  - Ventromedial
  - Orbitofrontal
  - Dorsomedial

- 14:30 – 15:30 h  
**Hands-on Anatomy Session**  
All Faculty
- 15:30 – 15:45 h  
**Coffee/Tea Break** ☕
- 15:45 – 17:00 h  
**Neuro Care**  
Dr. Khamis & Dr Salum Shaaban  
Neuroanesthesia  
Critical Care for Neurological Patients  
Pre-op Evaluation  
Pulmonary Care  
Nutrition
- 17:00 h  
**Adjourn**



# Course Agenda <sup>4/5</sup> (DAYS)

## THURSDAY 16<sup>TH</sup> NOVEMBER

- 9:00 – 9:30 h  
**Cerebral White Matter - PY**  
Association Pathways- Human Brain  
Connectome
- 9:35 – 10:45 h  
**Areas of Cognition  
and Emotion (4) - PY**
  - Cerebral Association Hubs and Networks
  - Unimodal
  - Polymodal
  - Multimodal
- 10:45 – 11:00 h  
**Coffee Break** ☕
- 11:00 – 12:30 h  
**Hands-on Anatomy Session**  
All Faculty
- 12:30 – 13:00 h  
**Lunch Break** 🍴
- 13:00 – 14:00 h  
**Anatomy of the Cerebral  
Blood Vessels**  
Aamir Qureshi
- 14:00 – 15:00 h  
**Pathophysiology of Stroke - AQ**  
Occlusive and Hemorrhagic  
Evaluation and Treatment
- 15:00 – 15:15 h  
**Coffee/Tea Break** ☕
- 15:15 – 17:00 h  
**Traumatic Brain Injury - MQ**  
Pathophysiology of Concussion,  
Skull Fracture, Hematomas
- 17:00 h  
**Adjourn**



# Course Agenda <sup>5/5</sup> (DAYS)

## FRIDAY 17<sup>TH</sup> NOVEMBER

- 9:00 – 10:00 h  
**Areas of Cognition and Emotion (5) - PY Omnimodal**
- 10:00 – 11:00 h  
**Hands-on Anatomy Session**  
All Faculty
- 11:00 – 11:15 h  
**Coffee Break** ☕
- 11:15 – 12:00 h  
**Infections of the Nervous System**  
Dr. Muly Abdalla
- 12:00 – 12:30h  
**Seizure Disorders and Epilepsy**  
Dr. Said Simai
- 12:30 – 13:00 h  
**Lunch Break** 🍴
- 13:00 – 14:00 h  
**Brain Tumors - JP**  
Benign/Malignant/Adult/Pediatric
- 14:00 – 16:30 h  
**Operative Observation of Surgery for Brain Tumor – JP**
- 16:30 – 17:00 h  
**NED Foundation Experience: A Model of Global Neurosurgery**  
Jose Piquer Martinez
- 17:00 h  
**Concluding Remarks**  
**Hands-on lab sessions to include:**
  - \*Models
  - \*Human Brain Material
    - Wet Specimens
    - Plastinated Specimens
  - \*Slides for Review
  - \*Videos for Review
  - \*Group Discussion/Questions

## RELEVANT INFORMATION:

More information about the registration and the scholarships will be found in this link:

[https://docs.google.com/forms/d/e/1FAIpQLSeVbQD\\_leiTo\\_KQAZpAKfu-JpSUqLMzFNbgmW3p-ODS7Gje7g/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeVbQD_leiTo_KQAZpAKfu-JpSUqLMzFNbgmW3p-ODS7Gje7g/viewform)

**Fee: \$50**

**Method of Payment: Bank Transfer**

IBAN (electronic format) ES4821005578020200133288

IBAN (paper format): IBAN ES48 2100 5578 0202 0013 3288

SWIFT/BIC: CAIXESBBXXXA

**\*10 Scholarships available.**

Send an email if you have some questions and suggestions about this course to:

**administracion@nedfundacion.org**



**VIU-NED**  
Chair of Global Neuroscience  
and Social Change



**Universidad**  
Internacional  
de Valencia