



# Regional Bootcamp for Junior Neurosurgery Residents

May 11-12, 2024

Organized by  
Section of Neurosurgery, Department of Surgery  
The Aga Khan University

Venue  
Anatomy & Surgery Learning Studio (ASLS)  
The Aga Khan University

Collaborating Institutions



## Bootcamp Directors



**Dr. Saqib Kamran Bakhshi**  
Assistant Professor  
Aga Khan University



**Dr. Saad Akhtar Khan**  
Assistant Professor  
Liaquat National Hospital

## Bootcamp Co-Directors



**Dr. Ahsan Ali Khan**  
Assistant Professor  
Aga Khan University



**Dr. Muhammad Faiq Ali**  
Assistant Professor  
Dow University of Health Sciences



**Dr. Farrukh Javeed**  
Assistant Professor  
Jinnah Postgraduate Medical Center



**Dr. Suhail Ahmed Aghani**  
Senior Registrar  
Liaquat University of Medical  
& Health Sciences



**Dr. Fahmida Mallah**  
Assistant Professor  
People University of Medical  
& Health Sciences

# Highlights of the Bootcamp

Didactic Lectures covering

- Soft skills
- Neurological assessment and radiology for head and spine injury
- Management of critical patients on the floor
- Basics of surgical planning

Simulation-based hands-on training on

- Burr holes and craniotomy on 3D printed skulls
- Lumbar drain insertion on mannequins
- Lumbar Laminectomy on saw-bone
- Spinal Dural closure on a locally designed low-cost simulation model

Mentorship Sessions with neurosurgeons in Pakistan, USA and UK

# Program

<b>Day One; Session One</b>			
<b>Saturday, May 11, 2024   08:00am – 10:30am (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
08:00am – 08:30am	30 mins	Registration and filling of pre-bootcamp questionnaire	NSIG volunteers
08:30am – 08:45am	15 mins	Professionalism	Prof. Salman Sharif
08:45am – 09:00am	15 mins	Expectations from an ideal resident	Dr. Altaf Ali Laghari
09:00am – 09:30am	30 mins	Cranial flaps and scalp blood supply	Dr. Gohar Javed

09:30am – 10:00am	15 mins	Coffee/Tea Break
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<b>Day One; Session Two</b>			
<b>Saturday, May 11, 2024   10:45am – 13:00pm (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
10:00am – 10:45am	45 mins	Emergency neurosurgery – Cranial cases; clinical & radiological assessment, & decision making	Dr. Fahmida Mallah Dr. Tanweer Ahmed Dr. Fatima Aziz
10:45am – 11:15am	30 mins	Unstable neurosurgical patient	Dr. Farrukh Javeed
11:15am – 11:30am	15 mins	Basics of MRI and CT scan	Dr. Fahad Haroon
11:30pm – 12:30pm	60 mins	<u>Hands-on Training</u> External ventricular drains Intracranial pressure monitoring Ventriculoperitoneal shunt insertion Shunt tap & shunt programming Basics of neuro-navigation system	Dr. Faiq Ali Dr. Farrukh Javeed Dr. Ahsan Ali Khan Dr. Tanweer Ahmed Dr. Fahmida Mallah Dr. Suhail Aghani Dr. Saqib Bakhshi Dr. Fatima Aziz Dr. Shah Khalid Dr. Faizan Saeed

12:30pm – 13:15pm	45 mins	Lunch Break
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<b>Day One; Session Three</b>			
<b>Saturday, May 11, 2024   13:45pm – 18:00pm (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
13:15pm – 15:45pm	150 mins	<u>Hands-on Training</u> Mayfield clamp application Simulated burr-holes & craniotomy on artificial skulls Handling of the operative microscope Microdissection on cow brain	Dr. Faiq Ali Dr. Farrukh Javeed Dr. Ahsan Ali Khan Dr. Tanweer Ahmed Dr. Fahmida Mallah Dr. Suhail Aghani Dr. Saqib Bakhshi Dr. Fatima Aziz Dr Shah Khalid Dr Faizan Saeed
15:45pm – 16:15pm	30 mins	Emergency neurosurgery – Cervical spine cases; clinical & radiological assessment & decision making	Prof. Shahzad Shamim

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<b>Day Two; Session One</b>			
<b>Sunday, May 12, 2024   08:30am – 10:15am (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
08:30am – 08:50am	20 mins	Lateral & Prone positioning on OR table	Dr. Mohsin Qadeer
08:50am – 09:10am	20 mins	Applied anatomy of spine	Dr. Manzar Hussain
09:10am – 09:30am	20 mins	Principles of cervical immobilization	Dr. Badar Ujjan
09:30am – 10:00am	30 mins	Emergency neurosurgery – Thoracolumbar spine cases; clinical & radiological assessment & decision making	Dr. Yaseen Rauf
10:00am – 10:15am	15 mins	Coffee/Tea Break	

<b>Day Two; Session Two</b>			
<b>Sunday, May 12, 2024   10:30am – 13:00pm (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
10:15am – 13:15pm	180 mins	<u>Hands-on Training</u> Simulated lumbar spine laminectomy Simulated spine dural closure Simulated lumbar drain insertion	Dr. Faiq Ali Dr. Farrukh Javeed Dr. Ahsan Ali Khan Dr. Tanweer Ahmed Dr. Fahmida Mallah Dr. Suhail Aghani Dr. Saqib Bakhshi Dr. Fatima Aziz Dr Shah Khalid Dr Faizan Saeed

13:15pm – 14:00pm	45 mins	Lunch Break	
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<b>Day Two; Session Three</b>			
<b>Sunday, May 12, 2024   13:30pm – 15:30pm (Pakistan time; GMT+5)</b>			
<b>Time</b>	<b>Duration</b>	<b>Title</b>	<b>Faculty</b>
14:00pm – 14:15pm	15 mins	Ethics & Importance of consent	Prof. Ateeq Khan
14:15pm – 14:20pm	5 mins	Closing remarks	Prof. Shahzad Shamim
14:20pm – 14:35pm	15 mins	Certificate Distribution	

<b>Bootcamp Faculty</b>	<b>Affiliation</b>
<b>Prof. Salman Sharif</b>	Head of the Department of Neurosurgery, Liaquat National Hospital
<b>Prof. Ateeq Khan</b>	Head of the Department of Neurosurgery, Dow University of Health Sciences
<b>Prof. Syed Ather Enam</b>	Consultant, Section of Neurosurgery & Chair of Juma Research Labs, Aga Khan University
<b>Prof. Shahzad Shamim</b>	Section Head of Neurosurgery, Aga Khan University
<b>Dr. Fahad Haroon</b>	Consultant Radiologist, Karachi Xray's
<b>Dr. Ehsan Bari</b>	Associate Professor, Section of Neurosurgery, Aga Khan University
<b>Dr. Gohar Javed</b>	Associate Professor, Section of Neurosurgery, Aga Khan University
<b>Dr. Altaf Ali Laghari</b>	Assistant Professor, Section of Neurosurgery, Aga Khan University
<b>Dr. Manzar Hussain</b>	Associate Professor, Department of Neurosurgery, Liaquat National Hospital
<b>Dr. Muhammad Faiq Ali</b>	Assistant Professor, Department of Neurosurgery, Dow University of Health Sciences
<b>Dr. Mohsin Qadeer</b>	Consultant Neurosurgeon, Jinnah Medical & Dental College
<b>Dr. Yaseen Rauf</b>	Consultant Neurosurgeon, Patel Hospital
<b>Dr. Saad Akhtar Khan</b>	Assistant Professor of Neurosurgery, Liaquat National Hospital
<b>Dr. Badar Ujjan</b>	Assistant Professor, Dept. of Neurosurgery, Dow University of Health Sciences
<b>Dr. Fahmida Mallah</b>	Assistant Professor, Peoples University of Medical and Health Sciences, Nawabshah
<b>Dr. Farrukh Javeed</b>	Assistant Professor, Department of Neurosurgery, Jinnah Postgraduate Medical Center
<b>Dr. Tanweer Ahmed</b>	Consultant Neurosurgeon, Department of Neurosurgery, Jinnah Postgraduate Medical Center
<b>Dr. Suhail Aghani</b>	Senior Registrar, Department of Neurosurgery, Liaquat University of Medical & health Sciences
<b>Dr. Ahsan Ali Khan</b>	Assistant Professor, Section of Neurosurgery, Aga Khan University
<b>Dr. Saqib Bakhshi</b>	Assistant Professor, Section of Neurosurgery, Aga Khan University
<b>Dr. Fatima Aziz</b>	Consultant Neurosurgeon, Ziauddin University
<b>Dr. Shah Khalid</b>	Fellow, Section of Neurosurgery, Aga Khan University
<b>Dr. Faizan Saeed</b>	Chief Resident, Section of Neurosurgery, Aga Khan University