



Regional Bootcamp for Junior Neurosurgery Residents

March 4-5, 2022

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
Senior Instructor
Aga Khan University



Dr. Saad Akhtar Khan
Assistant Professor
Liaquat National Hospital

Bootcamp Co-Directors



Dr. Ahsan Ali Khan
Senior Instructor
Aga Khan University



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



Dr. Farrukh Javeed
Assistant Professor
Jinnah Postgraduate Medical Center



Dr. Muzaffar Ali Bhand
Registrar
Liaquat University of Medical
& Health Sciences



Dr. Muhammad Ali Jamali
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

Programme

Day One | Saturday, March 4, 2022

Day One; Session One			
Saturday, March 4, 2022 08:00am – 10:30am (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
08:00am – 08:30am	30 mins	Registration and filling of pre-bootcamp questionnaire	NSIG volunteers
08:30am – 08:45am	15 mins	Trust & integrity in residency training	Prof. Salman Sharif
08:45am – 09:00am	15 mins	Expectations from an ideal resident	Prof. Riaz Raja
09:00am – 09:15am	15 mins	Professionalism	Prof. Syed Ather Enam
09:15am – 10:00am	45 mins	Emergency neurosurgery – Cranial cases; clinical & radiological assessment, & decision making	Dr. Farrukh Javeed Dr. Tahir Shahab

10:00am – 10:15am	15 mins	Coffee/Tea Break
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Day One; Session Two			
Saturday, March 4, 2022 10:45am – 13:00pm (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
10:15am – 10:45am	30 mins	Cranial flaps and scalp blood supply	Dr. Gohar Javed
10:45am – 11:15am	30 mins	Unstable neurosurgical patient	Dr. Faiq Ali
11:15am – 11:30am	15 mins	Basics of cerebral angiogram	Dr. Altaf Ali Laghari
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. Badar Uddin Ujjan Dr. Tahir Shahab Dr. M. Ali Jamali Dr. Muzaffar Bhand Dr. Saqib Bakhshi Dr. Fatima Aziz Dr. Ahmer Baig

12:30pm – 13:15pm	45 mins	Lunch Break
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Day One; Session Three			
Saturday, March 4, 2022 13:45pm – 18:00pm (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
13:15pm – 17:00pm	225 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. Badar Uddin Ujjan Dr. Tahir Shahab Dr. M. Ali Jamali Dr. Muzaffar Bhand Dr. Saqib Bakhshi Dr. Fatima Aziz Dr. Ahmer Baig

Day Two | Sunday, March 5, 2022

Day Two; Session One			
Sunday, March 5, 2022 08:30am – 10:15am (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
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	Emergency neurosurgery – Cervical spine cases ; clinical & radiological assessment & decision making	Prof. Shahzad Shamim
09:30am – 09:50am	20 mins	Principles of cervical immobilization	Dr. Ehsan Bari
09:50am – 10:15am	25 mins	Emergency neurosurgery – Thoracolumbar spine cases; clinical & radiological assessment & decision making	Dr. Yaseen Rauf

10:15am – 10:30am	15 mins	Coffee/Tea Break	
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Day Two; Session Two			
Sunday, March 5, 2022 10:30am – 13:00pm (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
10:30pm – 13:30pm	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. Badar Uddin Ujjan Dr. Tahir Shahab Dr. M. Ali Jamali Dr. Muzaffar Bhand Dr. Saqib Bakhshi Dr. Fatima Aziz Dr. Ahmer Baig

13:30pm – 14:00pm	30 mins	Lunch Break
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Day Two; Session Three			
Sunday, March 5, 2022 13:30pm – 15:30pm (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
14:00pm – 14:15pm	15 mins	Ethics & Importance of consent	Prof. Atique Khan
14:15pm – 14:30pm	15 mins	Effective communication	Dr. Irum Bokhari
14:30pm – 14:50pm	20 mins	Pearls of wisdom	Prof. Ahmad Ali Shah
14:50pm – 15:10pm	20 mins	Pearls of wisdom	Prof. Rashid Jooma
15:10pm – 15:15pm	5 mins	Closing remarks	Prof. Syed Ather Enam
15:15pm – 15:30pm	15 mins	Certificate Distribution	

Day Two; Session Four			
Sunday, March 5, 2022 18:00pm – 18:45pm (Pakistan time; GMT+5)			
Time	Duration	Title	Faculty
18:00pm – 18:45pm	45 mins	Virtual conversation with Pakistani neurosurgeons in USA & UK	Dr. Waqas Baqai Dr. Saniya Godil Dr. Farhan Mirza Dr. Fauzan Hashmi

Bootcamp Faculty	Affiliation
Prof. Ahmad Ali Shah	Visiting Professor of Neurosurgery, Aga Khan University; ex-Head of the Department of Neurosurgery, Dow University of Health Sciences
Prof. Rashid Jooma	Visiting Professor of Neurosurgery, Aga Khan University; ex-Head of the Department of Neurosurgery, Jinnah Postgraduate Medical Center
Prof. Salman Sharif	Head of the Department of Neurosurgery, Liaquat National Hospital
Prof. Riaz Raja	Head of the Department of Neurosurgery, Liaquat University of Medical & Health Sciences
Prof. Atique Khan	Head of the Department of Neurosurgery, Dow University of Health Sciences
Dr. Irum Bokhari	Associate Professor & Head of the Department of Neurosurgery, Jinnah Postgraduate Medical Center
Prof. Syed Ather Enam	Consultant, Section of Neurosurgery & Chair of Juma Research Labs, Aga Khan University
Prof. Shahzad Shamim	Section Head of Neurosurgery, Aga Khan University
Dr. Ehsan Bari	Associate Professor, Section of Neurosurgery, Aga Khan University
Dr. Gohar Javed	Associate Professor, Section of Neurosurgery, Aga Khan University
Dr. Altaf Ali Laghari	Assistant Professor, Section of Neurosurgery, Aga Khan University
Dr. Manzar Hussain	Associate Professor, Department of Neurosurgery, Liaquat National Hospital
Dr. Muhammad Faiq Ali	Assistant Professor, Department of Neurosurgery, Dow University of Health Sciences
Dr. Badar Uddin Ujjan	Assistant Professor, Department of Neurosurgery, Dow University of Health Sciences
Dr. Mohsin Qadeer	Consultant Neurosurgeon, Jinnah Medical & Dental College
Dr. Yaseen Rauf	Consultant Neurosurgeon, Patel Hospital
Dr. Saad Akhtar	Assistant Professor of Neurosurgery, Liaquat National Hospital
Dr. Saniya Godil	Skull-Base Surgery Fellow, The Ohio State University
Dr. Farhan Mirza	Assistant Professor & Director, Adult & Pediatric Epilepsy Surgery, Dept. of Neurological Surgery, Kentucky Neuroscience Institute (KNI)
Dr. M. Ali Jamali	Assistant Professor, Peoples University of Medical and Health Sciences, Nawabshah
Dr. Farrukh Javeed	Assistant Professor, Department of Neurosurgery, Jinnah Postgraduate Medical Center
Dr. Fauzan Hashmi	Senior Fellow, Neurosurgery, Queens Square Hospital, London
Dr. Muzaffar Ali Bhand	Registrar, Department of Neurosurgery, Liaquat University of Medical & health Sciences
Dr. Tahir Shahab	Assistant Professor, Department of Neurosurgery, Pir Abdul Qadir Shah Jeelani Institute of Medical Sciences
Dr. Waqas Baqai	Senior Clinical Fellow, Southmead Hospital, England
Dr. Ahsan Ali Khan	Senior Instructor, Section of Neurosurgery, Aga Khan University
Dr. Saqib Bakhshi	Senior Instructor, Section of Neurosurgery, Aga Khan University
Dr. Fatima Aziz	Surgical Neuro-oncology Fellow, Aga Khan University