

**Noor Malik, MD; FCPS; MRCPS**

**Add:** Howard University Hospital  
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**Academic Experience:**

**Howard University Hospital**

Clinical Assistant Professor  
November 2024 – Present

**Howard College of Medicine**

Clinical Assistant Professor  
November 2024- Present

**Clinical Fellow in Neurosurgical Oncology**

Mayo Clinic, Rochester, MN, USA  
July 2023 – June 2024  
Supervised by Dr. Ian F. Parney and Dr. Terry C. Burns

**Clinical Fellow in Pediatric Neurosurgery**

Hospital for Sick Kids, Toronto, Canada  
July 2022 – June 2023  
Mentored by Dr. P. Dirks, Dr. J. Rutka, Dr. J. Drake, Dr. A. Kulkarni, Dr. M. Taylor, and Dr. G. Ibrahim.

**Clinical Fellow in Pediatric Neurosurgery**

Children's Hospital Colorado, Aurora, CO.  
July 2021 – June 2022  
Under the guidance of Dr. Brent R. O'Neill, Dr. Michael H. Handler, Dr. Todd C. Hankinson, Dr. Corbett C. Wilkinson, and Dr. Allyson L. Alexander.

**Neurological Surgery Residency**

Aga Khan University Hospital, Karachi, Pakistan  
January 2014 – December 2019

Mentored by Dr. Syed A. Enam, Dr. Rashid Jooma, Dr. Muhammad E. Bari, Dr. Aneela Darbar, Dr. Muhammad S. Shamim, and Dr. Gohar Javed.

**General Surgery Residency**

Dow University of Health Sciences, Karachi, Pakistan  
July 2013 – December 2013  
Supervised by Dr. Naheed Sultana

**Medical Officer in Neurosurgery**

Aga Khan University Hospital, Karachi, Pakistan  
January 2013 – June 2013  
Worked alongside Dr. Syed A. Enam and Dr. Rashid Jooma

**Medical Officer**

Shaikh Medical Center, Karachi, Pakistan  
January 2006 – December 2012  
Under the guidance of Dr. Muneer Shaikh

**License and Board Certifications:**

**DC Health License with DC Controlled substance Registration and DEA**  
July 2024

**Mayo Clinic, Rochester, MN**  
Mayo Training License 33489, 2023

**College of Physicians and Surgeons, Ontario (CPSO)**  
Ontario License: 138864, 2022

**Colorado State Teaching License (CoTL)**  
License: TL.0008514, 2021

**Royal College of Physicians and Surgeons, Glasgow (RCPSG)**  
MRCPS (Membership of Royal College of Physicians and Surgeons), 2020

**Fellowship of College of Physicians and Surgeons (FCPS) Neurosurgery**  
Pakistan Board of Neurosurgery, 2019

**Fellow of College of Physicians and Surgeons, Pakistan (CPSP)**  
Enrolled in 2014

**Doctor of Medicine by Education Commission for Foreign Medical Graduates (ECFMG)**

USMLE Step 1, Step 2 CK, CS, and Step 3: 2009-2010  
**Pakistan Medical and Dental Council (PMDC)**

Graduated in 2004

**Bachelor of Medicine & Bachelor of Surgery (M.B.B.S.)**

Hamdard College of Medicine & Dentistry, Karachi, Pakistan: 1999-2004.

**Faculty of Sciences (FSC), Intermediate**

St. Joseph's College for Women, Karachi, Pakistan: 1997-1998

**Clinical Appointments:**

- **Neurosurgery Research Collaborator**, Mayo Clinic, 2024 September – Present
- **Instructor Neurosurgery**, Mayo Clinic Rochester, September 2023 – June 2024
- **Instructor Neurosurgery**, Aga Khan University Hospital, Karachi, Pakistan: July 2020 – June 2021
- **Neurosurgical Junior Faculty**, Aga Khan University Hospital, Karachi, Pakistan, March 2020 – June 2020

**Membership:**

- American Association of Neurological Surgeons
- Congress of Neurological Surgeons
- International Society for Extracellular Vesicles
- Pakistan Society of Neuro-oncology
- Pakistan Society of Neurosurgery
- Mayo Clinic Alumni Association
- Aga Khan University Alumni Association

**Teaching Experience:**

- Mayo-Howard Neurosurgery Journal Club: Every alternate Tuesday, teaching medical students as a faculty participant in Journal club
- Teaching Medical Students, 2<sup>nd</sup> year Neuroscience course, Howard University College of Medicine, once a week/Tuesday morning.
- Critical Care Nurses, Teaching Extra ventricular Drain management, March 2025.

- Faculty in Mayo-Howard Neurosurgery Journal Club, every second Tuesday, teaching medical students interested in Neurosurgery career.
- Teaching in Higher Education (THE500), University of Toronto, Toronto, Canada, Instructor: Professor Colleen Dockstader, January 2023 – April 2023, Comprehensive diploma on teaching in higher education.
- Weekly Didactic Course for Academic Teaching of NPs, ANPs and residents, Children's Hospital Colorado, CO.
- Examiner for Undergraduate Medical Education, Aga Khan University Hospital, 2016 – 2021, Member of examination committee for Surgery and Allied

### **Mentorship Experience:**

- Howard University Neurosurgery Interest group and Neurosurgery Research group: mentor and conduct research with Howard University and non-Howard medical students.
- Medical Student Summer Research Program: Primary investigator and mentor for Howard University MSSRP. Two research projects under way for selection.
- Academic Mentor, Neurosurgery Resident, Department of Neurosurgery, Aga Khan University Hospital, Karachi, Pakistan.
- Medical Students and Graduate Mentorship, Sir Syed University, Pakistan

### **Leadership Experience:**

- Member of Howard University Operating Room committee member.
- Administrative Chief Resident, Department of Neurosurgery, Aga Khan University Hospital, Jan 2019 to Dec 2019.
- Neurosurgery Audit Team for JCIA Re-accreditation, Aga Khan University Hospital, Pakistan, September 2018.
- Moderator for Skull Base and Hands – on Spine Instrumentation, Aga Khan University Hospital, 2019.
- Instructor for Intern Surgical Skill Committee, Aga Khan University Hospital 2016-2019.
- Committee Member of Quality Control and Infectious Disease for Neurosurgery. Hospital for Sick Children, University of Toronto, 2022-2023

**Funding/ Prizes:**

- Garry Hurvitz Center for Brain and Mental Health (GH-CBMH) Integrative Fellowship Neurosurgery Award, Hospital for Sick Kids, Toronto, Canada, December 2022.
- Travel Grant Pakistan Society of Neurosurgeons, Peshawar, Pakistan, PSON May 2019

**Clinical Electives:**

- Oklahoma University Children's Hospital, OUHSC, USA (2010)
- Baylor College of Medicine, Houston, Texas, USA (2010)
- Texas Heart Institute, St. Luke's Episcopal Hospital, Texas, USA (2011)
- Al Ain University Hospital, Department of Neurosurgery, Al Ain, UAE (2019)

**Publications:**

- Anatomical Step – by -Step Dissection of the Transcortical Approach to the Insula, M Bauman, N Malik, F Torregrossa et al, JNS JNS25-525, 2025.03
- Longitudinal glioma monitoring via cerebrospinal fluid cell-free DNA: one patient at a time. Cecile Riviere-Cazaux, Xiaoxi Dong, Wei Mo et al, medRxiv, 2024.05. 15.24307463
- Hemispherectomy at The Hospital for Sick Children: expanded indications and lessons learned over 35 years. K Mithani, J Quon, S Breitbart, P Steadman, L Greuter, O Richards, Ann K Schmitz, N Malik et al, Journal of Neurosurgery: Pediatrics 1 (aop), 1-8
- Large scale network changes immediately after Magnetic Resonance ImagingGuided Laser Interstitial Thermal Therapy (MRgLITT) for hypothalamic hamartoma. Richards, M Ebdon, L Greuter, N Malik, J Rutka, J Drake, G Ibrahim
- Redefining cerebellar assessment: A comprehensive review of the cerebellum's cognitive and affective roles and the efficacy of CCAS scales.

A Alan, M Ennabe, M Alsarafandi, N Malik et al, Surgical Neurology International 15

- Intraoperative changes in large-scale thalamic circuitry following laser ablation of hypothalamic hamartomas. K Mithani, OL Richards, M Ebden, N Malik et al, NeuroImage: Clinical 42, 103613.
- Glioma monitoring via longitudinal intracranial cerebrospinal fluid cell-free DNA. C Riviere-Cazaux, X Dong, W Mo, C Dai, C Nesvick, KM Andersen et al, Journal of Clinical Oncology 42 (16\_suppl), 2053-2053
- Supraorbital minicraniotomy for open Ommaya reservoir placement in pediatric craniopharyngiomas: a case series and technical report. L Greuter, O Richards, N Malik, S Breitbart et al, Journal of Neurosurgery: Pediatrics 1, 1-7
- Large scale network changes immediately after Magnetic Resonance Imaging-Guided Laser Interstitial Thermal Therapy (MRgLITT) for hypothalamic hamartoma. O Richards, M Ebden, L Greuter, N Malik et al, Canadian Journal of Neurological Sciences 50 (s2), S55-S55
- Pediatric Pineal Region Masses: A Single-Center Experience Over 25 Years. N. Malik, DC Samples, MM Finneran et al, Child's Nervous System 39 (9), 2307-2316
- Risk Factors and Outcomes of Redo Craniotomy: A Tertiary Care Center Analysis. MF Raghib, MU Khalid, N. Malik et al, Cureus 14
- Aspergillus Flavus as a Surprise CNS Space-Occupying Lesion in an Immunocompetent Pediatric Patient. MI Sajid, N. Malik, SS Baluch et al, Egyptian Journal of Neurosurgery 36, 1-3
- Pituitary Adenoma with Calcifications: A Rare Case with literature review. Y Khan, N. Malik, SI Awan et al, Cureus 11

- Dermoid Cyst with No Intracranial Extension: A Case Report with Literature Review. Tanwir A, N. Malik, Javed G et al, Surgical Neurology International 10
- Isolated Lower Lip Lesion Following Cavernoma Resection in Prone Position. MI Sajid, N. Malik, R Jooma et al, Egyptian Journal of Neurosurgery 34, 1-3
- Kleeblattschädel Skull Presenting in Concert with Pfeiffer Syndrome. MI Sajid, N. Malik, SS Baluch et al, Egyptian Journal of Neurosurgery 34, 1-4
- Quality of Life Among Patients Undergoing Decompressive Craniectomy for Traumatic Brain Injury using GOSE and QOLIBRI Scales. M Waqas, N Malik, MS Shamim et al, World Neurosurgery 116, e783-e790
- Prevalence and Characteristics of Moyamoya Syndrome in Patients with Down Syndrome. Ritz C, N Malik, Graber S, WC Corbett, Neurosurgery 69 (Supplement\_1), 57

#### **Projects under review/process of submission:**

- Racial and Socioeconomic Disparities in Metastatic Brain Tumor Management Using SEER Database
- Impact of Traumatic Brain Injury (TBI) on Neuropsychiatric Outcomes, Substance Use, and Employment: A Prospective Cohort Study (applied for an INCLINE grant)
- Genomic divergence rates between brain metastases and extracranial disease sites: a matched cohort study. (Accepted in AANS Conference).
- Clinical Utility of repeat brain biopsy in recurrent or refractory primary CNS Lymphoma – A diagnostic dilemma. (Accepted in CNS conference)
- Vestibular Schwannoma Dementia and Hearing 10-Year Outcomes with Surgical Treatment: A TriNetX Study, Sarah Fauzia, N Malik, D Fossett (Poster presentation Howard University)

#### **Oral Presentation and Poster:**

- 1) Neurology Grand Round presentation, Spinal Tumors, Howard University Hospital, Feb 2025

- 2) Internal Medicine Grand Rounds Presentations, Neurological examination for Internist, Howard University, Feb 2025.
- 3) Clinical Utility of repeat brain biopsy in recurrent or refractory primary CNS Lymphoma – A diagnostic dilemma. Congress of Neurological Surgery, Houston TX 2024
- 4) Stereo encephalography Placement in Pediatric Patients, Sickkids Experience, Noor Malik, L Greuter, O Richards, G Ibrahim, J Rutka, J Drake, Pediatric Neurological Surgery Section of AANS 2022, Washington DC
- 5) Prevalence and Characteristics of Moyamoya Syndrome in Patients with Down Syndrome, Ritz C, Noor Malik, Graber S, Wilkinson C, Congress of Neurological Surgeons 2022 , Annual Meeting San Francisco CA, October 2022
- 6) Co-Presentation of Craniosynostosis with Ossified Cephalhematoma, Carly F, Noor Malik, Graber S, Wilkinson C, Annual Neurosurgery Conference at Rockies, University of Colorado 2022
- 7) Risk Factors and Outcomes of Redo Craniotomy: A Tertiary Care Center Analysis, MF Raghib, MU Khalid, Noor Malik, MI Sajid, UH Abdullah, A Tanwir, SA Enam 6th Annual Meeting of Neurology and Neurosurgery London, UK, May 2019
- 8) Quality of Life Among Patients Undergoing Decompressive Craniectomy for Traumatic Brain Injury Using GOSE and QOLIBRI Scales, M Waqas, Noor Malik, M Shamim, World Neurosurgery 2018, Farhat Moazzam Surgical Grand Round in Aga Khan University Hospital, Karachi, Pakistan, February 2017.

### **Book Review:**

- Title: Posttraumatic Epilepsy, Basic and Clinical Aspects
- Authors: Carrie R. Jonak, Allison R. Peterson, Devin K. Binder
- Reviewers: Noor Malik, Dr. James T. Rutka
- Publication: JNS: Pediatrics, March 2023

**Workshop Moderator and Conferences Attendees:**

- American Association of Neurological Surgeon meeting, Boston, April 2025
- Congress of Neurological Surgery Meeting, September 2024
- Endoscopic Skull Base Approaches, Mayo Clinic, Feb 2024
- Utilization of Endoscopy in Pediatrics Neurosurgery, University of Toronto, May 2023
- White Matter Dissection and Anatomy, University of Colorado, August 2021
- International Neurosurgery Resident Course, Penn State, Hershey, PA, 2019
- Neurovascular Workshop and Cadaveric Dissection, Penn State, Hershey, PA, March 2019
- Annual Surgical Conference on Global Surgery: Bridging the Gap, Aga Khan University Hospital, February 2019
- Workshop on Intraoperative Monitoring for Neural Protection, Aga Khan University Hospital, Karachi, Pakistan, February 2018
- Annual Surgical Conference on Surgical Oncology – Evidence and Practice, Aga Khan University Hospital, Karachi, Pakistan. 2014 - 2019
- Workshop on Systematic Review, PGME Conference, Aga Khan University Hospital, Pakistan, February 2018
- RUNS Meeting at Peoples University of Medical and Health Sciences for Women, Nawab shah, Pakistan, April 2018
- Workshop on Neurosurgery Education and Research, Aga Khan University Hospital, Karachi, Pakistan, April 2018
- Annual Conference of Pakistan Society of Neurosurgeons, Peoples University of Medical and Health Sciences for Women, Nawab shah, Pakistan, November 2018
- Workshop on Neuro-simulator, Aga Khan University Hospital, Karachi, Pakistan, May 2017
- Neuro-Robotic Exoscope: Precision Neurosurgery Conference, Aga Khan University Hospital, Karachi, Pakistan, April 2016
- Symposium on Molecular Biology of Brain Tumors from Bench to Bedside, Aga Khan University Hospital, Karachi, Pakistan, August 2016
- Surgical Skills Workshop for Surgery Residents, Aga Khan University Hospital, Karachi, Pakistan, May 2015

**Languages:** Urdu, English, Sindhi/Balochi

**Personal Interest:** Horse Riding, Traveling, Hiking, Photography.

**References:** Provided, if needed.

