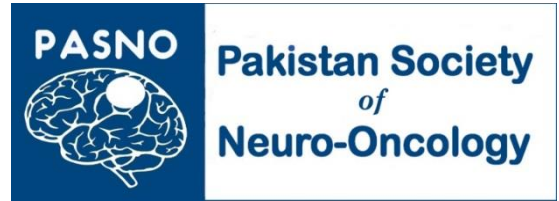
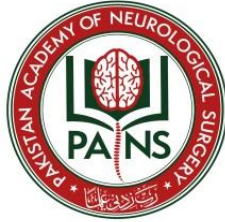


3rd Annual Neuro-Oncology Symposium

Organised by Pakistan Society of Neuro-Oncology (PASNO)

Friday to Sunday, September 9-11, 2022

Organised By



Collaborating Partners



Committee Members

Patron:

- Naqib Ullah Acahkzai, President
Pakistan Society of Neurosurgery

President:

- Syed Ather Enam, President
Pakistan Society of Neuro-Oncology

Organising Committee:

- Naureen Mushtaq, Chair
- Altaf Ali Laghari, Co-Chair

Scientific Committee:

- M. Shahzad Shamim, Chair
- Saqib Bakhshi, Co-Chair

Workshop Committee:

- Ahsan Ali Khan, Chair
- M. Waqas Baqai, Co-Chair

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- Asim Hafiz
- Sumera Butt
- Syed Ahmer Hamid
- Fatima Mubarak
- Muhammad Nadeem
- Kamran Saeed
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Advisory Committee, PASNO:

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- Asif Bashir
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- Khurram Minhas
- Saad Shafqat
- Tariq Siddiqui
- Bilal Qureshi

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- Fatima Gauhar
- Syed Faisal Nadeem
- Izza Tahir
- Salaar Ahmed
- Namrah Aziz
- Jawad Amin
- Mohammad Safri
- Safwan Masood
- Sohaib Mohammad Khan
- Meher Angez
- Shilpa Golani
- Hadia Sohail
- Iqra Fatima
- Shahier Paracha
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- Fareeha Nisar
- Ayaan Ali Qureshi
- Priya Ashok Kumar

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- Ayesha Akbar Waheed
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- Faiqa Binte Aamir
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- Hajra Arshad
- Muskaan Abdul Qadir
- Kinzah Razzak Ghazi
- Izza Tahir
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- Mabrooka Kazi
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- Mahnoor Javaid

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- Muhammad Ali Akbar Khan
- Mohammad Shahzaib Qadir
- Maliha Taufiq
- Ali Azan Ahmed

Coordinators:

- Shariff Charania
- Syed Emad
- Usman Bin Shoaib

Website: www.pasno.org | **Email:** surgery.events@aku.edu | **Phone:** +92 21 3486 4374

International Speakers



Raheel Ahmed
American Family Children's Hospital
Wisconsin, USA



Sonikpreet Aulakh
West Virginia University Cancer Institute
WV, USA



James Balogun
University of Ibadan
Ibadan, Nigeria



Tracy Batchelor
Harvard Medical School
Massachusetts, USA



Maheen Batool
Massachusetts General Hospital
Boston, USA



Eric Bouffet
University of Toronto
Toronto, Canada



Bob Carter
Harvard Medical School
Massachusetts, USA



Michael Dewan
Vanderbilt University Medical Center
Tennessee, USA



James Drake
Hospital for Sick Children
Toronto, Canada



Hugues Duffau
Montpellier University Medical Center
Paris, France



Natia Esiashvili
Emory University School of Medicine
Atlanta, USA



Amar J. Gajjar
St. Jude Children's Research Hospital
Tennessee, USA



Nitin Garg
Kasturba Medical College
Bhopal, India



Saniya Godil
Cooper Medical School of Rowan
New Jersey, USA



Tejpal Gupta
Homi Bhabha National Institute (HBNI)
Mumbai, India



Aryn Habib
University of Texas
Texas, USA



Naomi Hoffer
UCSF brain tumor center
California, USA



Laura Hynes
Brain Tumor Network
Florida, USA



Rakesh Jalali
Apollo Proton Cancer Centre
Chennai, India



Mark W. Kieran
Dana-Farber Cancer Institute
Boston, USA



Rupesh Kotecha
Miami Cancer Institute
Miami, USA



Shannon LaHay
Brain Tumour Foundation of Canada
Canada



Khushboo Lohan
Neuro rehabilitation psychologist
India



Diego Méndez
de Noviembre, ISSSTE
Mexico



Sohaib Mehtab
Kimberly Clark
Riyadh, Saudi Arabia



Farhan A. Mirza
University of Kentucky
Kentucky, USA



Pankaj Kumar Panda
Apollo Proton Cancer Centre
Chennai, India



Vijay Patil
Tata Memorial Centre
India



Sara G. M. Piccirillo
University of New Mexico
New Mexico, USA



Vinay Puduvalli
University of Texas
Texas, USA



Shaan Mohammed Raza
The University of Texas
Houston, USA



Komal Syed
Brain Tumour Foundation of Pakistan
Canada



Zubair Tahir
Great Ormond Street Hospital
London, UK



Shota Tanaka
Kokushikan University
Tokyo, Japan



Reid C. Thompson
Vanderbilt University Medical Center
Tennessee, USA



Patrick Y. Wen
Harvard Medical School
Massachusetts, USA



Jinsong Wu
Shanghai Medical College
China

National Speakers



Sehrish Abrar
Aga Khan University
Karachi, Pakistan



Kiran Aftab
Aga Khan University
Karachi, Pakistan



Ashfaq Ahmed
Brain Tumor Warrior & Lab Technologist
Dera Ismail Khan, Pakistan



Sadaf Altaf
Aga Khan University
Karachi, Pakistan



Sohail Asghar
Aga Khan University
Karachi, Pakistan



Naveed Ashraf
Allama Iqbal Medical College
Lahore, Pakistan



Saqib Bakhshi
Aga Khan University
Karachi, Pakistan



M. Waqas Saeed Baqai
Aga Khan University
Karachi, Pakistan



Syed Ather Enam
Aga Khan University
Karachi, Pakistan



Ahmed Gilani
Children's Hospital Colorado
Aurora, USA



Asim Hafeez
Aga Khan University
Karachi, Pakistan



Yasser Latif Hamdani
Author and Lawyer
Karachi, Pakistan



Adil H. Haider
Aga Khan University
Karachi, Pakistan



Syed Ahmer Hamid
Children Cancer Hospital
Karachi, Pakistan



Kiran Hilal
Aga Khan University
Karachi, Pakistan



Uzma Imam
Pediatric Oncology (N.I.C.H.)
Karachi, Pakistan



Saleem Islam
Aga Khan University
Karachi, Pakistan



Adnan Jabbar
Aga Khan University
Karachi, Pakistan



Gohar Javed
Aga Khan University
Karachi, Pakistan



Rashid Jooma
Aga Khan University
Karachi, Pakistan



Shazia Kadri
Jinnah Postgraduate Medical Center
Karachi, Pakistan



Atique Khan
Dow University of Health Sciences
Karachi, Pakistan



Ahsan Ali Khan
Aga Khan University
Karachi, Pakistan



Ishaq N. Khan
Khyber Medical University
Peshawer, Pakistan



Salman Kirmani
Aga Khan University
Karachi, Pakistan



Tahir Mustafa Madni
COMSATS Institute of IT
Islamabad, Pakistan



Mohammad Khurram Minhas
Aga Khan University
Karachi, Pakistan



Asif Loya
Shaukat Khanum Memorial Hospital
Lahore, Pakistan



Naureen Mushtaq
Aga Khan University
Karachi, Pakistan



Fatima Mubarak
Aga Khan University
Karachi, Pakistan



Nouman Mughal
Aga Khan University
Karachi, Pakistan



Khadija Nuzhat
Aga Khan University
Karachi, Pakistan



Shahzadi Resham
Aga Khan University
Karachi, Pakistan



Muhammad Abid Saleem
Dow University of Health Sciences
Karachi, Pakistan



Ayesha Sarwari
Women's Advancement Hub
Islamabad, Pakistan



Shayan Sirat
Aga Khan University
Karachi, Pakistan



M. Shahzad Shamim
Aga Khan University
Karachi, Pakistan



Afshan Tahir
Atia General Hospital
Karachi, Pakistan



Quratulain Tariq
Aga Khan University
Karachi, Pakistan



Adeeba Zaki
Aga Khan University
Karachi, Pakistan

Scientific Program

Physical Venue: Aga Khan University (AKU) Auditorium

(Pakistan Time; GMT +5)

Day 1

Friday, September 9, 2022

| Session One Mark Rosenblum Keynote Lectures | | | |
|---|---------|-----------------|---|
| Friday, September 9, 2022 08:45am - 10:00am (Pakistan Time; GMT +5) | | | |
| 08:45am - 09:00am | 15 mins | Syed Ather Enam | Welcome and Introduction about Prof. Mark Rosenblum Keynote Lectures |
| 09:00am - 09:30am | 30 mins | Bob S Carter | Advances in cell and gene therapy for brain tumors |
| 09:30am - 10:00am | 30 mins | Hugues Duffau | Perspective of awake neurosurgery, with cognitive and emotional assessment of patients with low-grade gliomas |

| Session Two Showcasing Neuro-Oncology Tumor Board Moderator: Ahsan Ali Khan | |
|---|---|
| Friday, September 9, 2022 10:00am - 11:15am (Pakistan Time; GMT +5) | |
| 10:00am - 11:15am | <p><u>Presenters:</u> Quratulain Tariq, Farrah Bashir, Ahmer Baig</p> <p><u>Panelists:</u> Shaan Raza, Michael Dewan, Naveed Ashraf, Salman Shariff, Aisha Memon, Shayan Sirat, Fatima Mubarak, Asim Hafiz, Adeeba Zaki</p> |

| | | |
|-------------------|---------|-----------|
| 11:15am - 11:35am | 20 mins | Tea Break |
|-------------------|---------|-----------|

| Session Three Adult Neuro-Oncology Chair: Iram Bokhari Co-Chair: Sehrish Abrar | | | |
|--|---------|----------------------|---|
| Friday, September 9, 2022 11:40am - 01:00pm (Pakistan Time; GMT +5) | | | |
| 11:40am - 12:00am | 20 mins | Jinsong Wu | AI Neuropathologist for brain tumor identification |
| 12:00pm - 12:20pm | 20 mins | James Balogun | Conflicting challenges of a surgical neuro-oncologist in LMIC |
| 12:20pm - 12:40pm | 20 mins | Shota Tanaka | Glioblastoma treatment: standard treatments and novel therapies |
| 12:40pm - 01:00pm | 20 mins | Q/A | |
| 01:00pm - 02:00pm | 60 mins | Prayer & Lunch Break | |

Session Four
Free Paper Session
(5 minutes presentation + 3 minutes Q/A)
Judges: Attique Khan, Gohar Javed, Sadaf Altaf, Asim Hafiz
Friday, September 9, 2022 | 02:00pm - 03:15pm (Pakistan Time; GMT +5)

| | | |
|-------------------|---------|-----------|
| 03:15pm - 03:30pm | 15 mins | Tea Break |
|-------------------|---------|-----------|

Session Five
Pediatric Neuro-Oncology - I
Chair: Syed Ahmer Hamid | Co-Chair: Shazia Kadri
Friday, September 09, 2022 | 03:30pm - 5:00pm (Pakistan Time; GMT +5)

| | | | |
|-------------------|---------|----------------|--|
| 03:30pm - 03:50pm | 20 mins | Khadija Nuzhat | Survivors of pediatric brain tumor-endocrinological complications and management |
| 03:50pm - 04:10pm | 20 mins | James Drake | Role of awake craniotomy in Paediatric brain tumors |
| 04:10pm - 04:30pm | 20 mins | Mark Kieran | Current practice guidelines for pre-irradiated relapsed medulloblastoma |
| 04:30pm - 04:50pm | 20 mins | Q/A | |

Session Six
Inauguration Ceremony

Friday, September 9, 2022

05:30pm – 07:00pm (Pakistan Time; GMT +5)

| | | |
|-------------------|---------|---|
| 05:30pm - 05:35am | 05 mins | Opening Address by Chair, Organising Committee, 3ANOS Naureen Mushtaq |
| 05:35am - 05:40am | 05 mins | Welcome Address by President, Pakistan Society of Neuro-Oncology Syed Ather Enam |
| 05:40pm - 05:45pm | 05 mins | Address by Vice Dean, Medical College, Aga Khan University, Pakistan Mohammad Tariq |
| 05:45pm - 05:50pm | 05 mins | Address by Chair, Department of Surgery Aga Khan University, Pakistan Saleem Islam |
| 05:50pm - 06:10pm | 20 mins | Keynote lecture #1: Reid Thompson Reflections on neurosurgical oncology in Tanzania: The early Vanderbilt experience <i>Introduction: M. Shahzad Shamim</i> |
| 06:10pm - 06:30pm | 20 mins | Keynote lecture #2: Tracey Batchelor Targeted therapies for brain tumors – Successes to date and future prospects <i>Introduction: Syed Ather Enam</i> |
| 06:30pm - 06:50pm | 20 mins | Keynote lecture #3: Amar Gajjar What has history taught us? Taking new treatment into clinic for children with brain tumors <i>Introduction: Naureen Mushtaq</i> |
| 06:50pm - 06:55pm | 05 mins | Closing Remarks by Chair, Scientific Committee, 3ANOS M. Shahzad Shamim |
| 07:00pm | | Tea & Refreshment Poolside Auditorium, AKU |

Day 2
Saturday, September 10, 2022

| Session Seven Pediatric Neuro-Oncology - II Chair: Uzma Imam Co-Chair: Shayan Sirat | | | |
|---|---------|------------------|---|
| Saturday, September 10, 2022 08:30am -10:30 am (Pakistan Time; GMT+5) | | | |
| 08:30am - 08:50am | 20 mins | Eric Bouffet | Infant brain tumor trials: beyond feasibility |
| 08:50am - 09:10am | 20 mins | Zubair Tahir | Surgical aspects of paediatric spinal cord tumors |
| 09:10am - 09:30am | 20 mins | Natia Esiashvili | Updates on radiation therapy for medulloblastoma |
| 09:30am - 09:50am | 20 mins | Amar Gajjar | Practical translation of molecular classification in Pediatric Neuro-Oncology |
| 09:50am - 10:10am | 20 mins | Q/A | |

| | | | |
|-------------------|---------|-----------|--|
| 10:10am - 10:30am | 20 mins | Tea Break | |
|-------------------|---------|-----------|--|

| Session Eight Pediatric Neuro-Oncology - III Chair: Hina Hashmi Co-Chair: Khurram Minhas | | | |
|--|---------|-----------------|--|
| Saturday, September 10, 2022 10:30am -12:00pm (Pakistan Time; GMT +5) | | | |
| 10:30am - 10:50am | 20 mins | Michael Dewan | Management of recurrent pediatric ependymoma: to resect or not?" |
| 10:50am - 11:10am | 20 mins | Shahzadi Resham | Capacity building of pediatric palliative care in LMIC |
| 11:10am - 11:30am | 20 mins | Salman Kirmani | Hereditary brain tumors - predisposing syndromes |
| 11:30am - 11:50am | 20 mins | Q/A | |

| Session Nine AI in Neuro-Oncology Chair: Yasir Ayaz Co-Chair: Bilal Qureshi | | | |
|---|---------|---------------------|---|
| Saturday, September 10, 2022 12:00pm - 01:00pm (Pakistan Time; GMT +5) | | | |
| 12:00pm - 12:20pm | 20 mins | Maria Nazir | Introduction to Medical Imaging and Diagnostic Lab (MIDL) |
| 12:20pm -12:40pm | 20 mins | Tahir Mustafa Madni | Brain tumor segmentation and classification |
| 12:40pm -01:00pm | 20 mins | Nauman Bashir | Brain tumor detection tool - Demonstration and Q/A |
| 01:00pm - 02:00pm | 60 mins | Lunch Break | |

| Session Ten Precision Neuro-Oncology Chair: Reid Thompson Co-Chair: Adeeba Zaki | | | |
|---|---------|-----------------|--|
| Saturday, September 10, 2022 02:00pm - 04:00pm (Pakistan Time; GMT +5) | | | |
| 02:00pm - 02:20pm | 20 mins | Raheel Ahmed | Epilepsy treatment in brain tumors-thinking beyond tumor control |
| 02:20pm - 02:40pm | 20 mins | Amyr Habib | Targeting EGFR signaling pathways for novel therapeutics in GBM: from bench to bedside |
| 02:40pm - 03:00pm | 20 mins | Farhan A. Mirza | Long-term epilepsy associated tumors |
| 03:00pm - 03:20pm | 20 mins | Ishaq Khan | Precision neuro-onco medicine and novel biomarker discovery |
| 03:20pm - 03:40pm | 20 mins | Q/A | |
| 03:40pm - 04:00pm | 20 mins | Tea Break | |

| Session Eleven Clinical Trials in Neuro-Oncology Chair: Rakesh Jalali Co-Chair: Pankaj Kumar Panda | | | |
|--|---------|-----------------|---|
| Saturday, September 10, 2022 04:00pm - 06:00pm (Pakistan Time; GMT +5) | | | |
| 04:00pm - 04:20 pm | 20 mins | Vinay Puduvalli | What have we learnt from clinical trials in Neuro Oncology and the way forward |
| 04:20pm - 04:40 pm | 20 mins | Patrick Wen | What should be the relevant endpoints in assessing clinical outcomes in brain tumor studies? |
| 04:40pm - 05:00 pm | 20 mins | Vijay Patil | Conducting quality clinical trials in LMICs: How do we do them? |
| 05:00pm - 05:20pm | 20 mins | Tejpal Gupta | Scope of systematic reviews and meta-analysis in neuro-oncology |
| 05:20pm - 05:40 pm | 20 mins | Rupesh Kotecha | Publishing data from LMICs in neuro oncology journals / role of radiosurgery and immunotherapy for brain metastasis |
| 05:40 pm - 06:00 pm | 20 mins | Q/A | |

Day 3
Sunday, September 11, 2022

Session Twelve
Breakfast with Mentors
Session for Medical Students & Residents
Venue: Male Hostel Lawn, AKU

Sunday, September 11, 2022 | 07:30am - 09:00am (Pakistan Time; GMT +5)

Mentors: Reid Thompson, Michael Dewan, Syed Ather Enam, Rashid Jooma, M. Shahzad Shamim, Naureen Mushtaq, Ahmed Gillani, Ehsan Bari, Sadaf Altaf, Kiran Hilal, Salman Kirmani, Bilal Qureshi

Session Thirteen
Student Free Paper Session

Judges: Ahmed Gillani, Ehsan Bari, Nouman Mughal, Saniya Godil, Maheen Batool

Sunday, September 11, 2022 | 09:00am - 10:00am (Pakistan Time; GMT +5)

Session Fourteen
Cutting Edge Neuro-Oncology
Chair: Rashid Jooma | Co-Chair: Kiran Hilal

Sunday, September 11, 2022 | 10:00am - 12:20pm (Pakistan Time; GMT +5)

| | | | |
|-------------------|---------|----------------------|--|
| 10:00am - 10:20am | 20 mins | Sara G.M. Piccirillo | Dissecting the genetic and phenotypic heterogeneity of glioblastoma residual disease |
| 10:20am - 10:40am | 20 mins | Sonikpreet Aulakh | Precision medicine in high-grade gliomas |
| 10:40am - 11:00am | 20 mins | Diego Mendez Rosito | Vestibular schwannoma- Surgical nuances influencing outcome |
| 11:00am - 11:20am | 20 mins | Abid Saleem | Role of Stereotactic radiosurgery in the current management of Craniopharyngiomas |
| 11:20am - 11:40am | 20 mins | Michael Dewan | Imagining a perfect world for pediatric neuro-oncology |
| 11:40am - 12:00pm | 20 mins | Reid Thompson | Low grade astrocytoma: Surgical nuances and decision making |
| 12:00pm - 12:20pm | 20 mins | Q/A | |

Session Fifteen
Panel Discussion

Moderator: Saqib Bakhshi & Hafiza Fatima

Sunday, September 11, 2022 | 12:20pm - 01:00pm (Pakistan Time; GMT +5)

Panel Discussion:

Future Directions for Development of Surgical Neuro-Oncology as Sub-Specialty in LMIC
Panelists: Reid Thompson, Michael Dewan, Iram Bokhari, Attique A. Khan, Ahmed Gillani

Closing Ceremony

Sunday, September 11, 2022 | 01:00pm - 01:15pm (Pakistan Time; GMT +5)

| | | | |
|-------------------|---------|-------------------|--|
| 01:00pm - 01:05pm | 05 mins | Fatima Gauhar | Student Organising Committee |
| 01:05pm - 01:10pm | 05 mins | M. Shahzad Shamim | Remarks by Chair, Scientific Committee |
| 01:10pm - 01:15pm | 05 mins | Naureen Mushtaq | Remarks by Chair, Organising Committee |
| 01:15pm - 02:00pm | 45 mins | Lunch Break | |

Post-Conference Symposium
Patient Centric Care
Moderator: Komal Syed

Sunday, September 11, 2022 | 02:00pm - 04:30pm (Pakistan Time; GMT +5)

Session by Brain Tumor Foundation of Pakistan (BTfPAK)

Theme: Providing wholistic support in a Brain Tumor Patient's Journey

| | | | |
|-------------------|---------|---|---|
| 02:00pm - 02:15pm | 15 mins | Komal Syed / Sohaib Mehtab | Introduction to session and Brain Tumor Foundation of Pakistan |
| 02:15pm - 02:30pm | 15 mins | Nitin Garg | Keynote Lecture: Socio-economic factors impacting a non-medical foundation |
| 02:30pm - 02:45pm | 15 mins | Laura Hynes | Concept of a 'Patient Navigator' |
| 02:45pm - 03:00pm | 15 mins | Asif Loya | Pakistan's perspective on cancer support groups and hospital's role in facilitation |
| 03:00pm - 03:15pm | 15 mins | Shannon Lahay | Achieving scale through awareness and support |
| 03:15pm - 03:30pm | 15 mins | Naomi Hoffer | What is 'Survivorship'? |
| 03:30pm - 03:35pm | 05 mins | Ashfaq Ahmed | Video: <i>Saf-e-Awal</i> (In the front line) - A Brain Tumor survivor's journey during the COVID pandemic in Pakistan (Urdu with English subtitles) |
| 03:35pm - 04:20pm | 40 mins | <p style="text-align: center;"><u>Panel Discussion:</u></p> <p style="text-align: center;">Theme: How do we provide end-to-end wholistic care for brain tumor patients and caregivers in Pakistan & developing countries?</p> <p style="text-align: center;">Moderator: Nitin Garg & Sohaib Mehtab</p> <p style="text-align: center;">Panelists: Laura Hynes, Asif Loya, Shannon LaHay, Ashfaq Ahmed, Yasser Hamdani, Aisha Sarwari</p> | |
| 04:20pm - 04:30pm | 10 mins | Komal Syed and Syed Ather Enam | Closing Remarks |