PM&DC IP NO. IP/002

ISSN (ISSN-L) 0030-9982

JPMA

Journal of the
Pakistan Medical Association (Centre)

Editorial Board

Chairman
Shahid Ahmed Sami

Editor-in-Chief
Fatema Jawad

Associate Editor-in-Chief
Huma Qureshi

Associate Editors
Qudsia Anjum Fasih
Sina Aziz
Syed Muhammad Mubeen

Editor Students' Corner
Rida e Fatima

Statistical Reviewer
Syed Muhammad Zulfiqar Hyder Naqvi

Managing Secretary
Anwar Ali Khawaja

MEMBERS

A.R. Jamali
Aamna Hassan
Aisha Mehnaz
Ali Yawar Alam
Anwar Ali Siddiqui
Bushra Shirazi
Farooq Azam Rathore
Fehmina Arif
Gulnaz Khalid
Khalid Zafar Hashmi
Kiran Ejaz
Manzoor Hussain
Masood Ali Shaikh
Mehwish Kashif
Mirza Naqi Zafar
Mohammad Wasay
Muhammad Iqbal Afridi
Muhammad Shahid Shamim
Muhammad Shahzad Shamim
Ramsha Zaheer
Rehman Siddiqui
Rubina Naqvi
Rumina Hasan
Sadiah Ahsan
Shahan Waheed
Sohail Akhtar
Syed Mamun Mahmud
Syed Sharaf Ali Shah
Syeda Nosheen Zehra Zaidi
Uzma Fasih
Zubaida Masood

INTERNATIONAL ADVISORS

Ahmed Badar (KSA)
Amin Ali Muhammad Gadit (CANADA)
Bilal Haider Malik (UK)
Farhad Handjani (IRAN)
Farrokh Habibzadeh (IRAN)
Gerry Mugford (CANADA)
Itrat Mehdi (OMAN)
MEL Heyman (USA)
Mohammad Bagher Rokni (IRAN)
Mubeen Rafay (CANADA)
Mihnea Alexandru Gaman (ROMANIA)
Sanjay Kalra (INDIA)
Shabih Zaidi (UK)
Sultan Ayoub Meo (KSA)
Tanveer Azher (CANADA)
Tahir Masood (KSA)
Zohra Zaidi (UK)

**Articles published in JPMA do not represent the views of the Editor or Editorial Board.
Authors are solely responsible for the opinions expressed and accuracy of the data.
The contribution of each author towards the published researsch included in this supplement, is the responsibility of the authors and their institutions. It is expected to be is accordance with the ICMJE Guidelines..**

The Journal of Pakistan Medical Association (JPMA) is published monthly from PMA House, Aga Khan III Road, Karachi-74400, Pakistan.

All articles published represent the opinion of the authors and do not reflect official policy of the journal. All rights reserved to the Journal of the Pakistan Medical Association. No part of the Journal may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical photocopying, recording or otherwise, without prior permission, in writing, of the Journal of the Pakistan Medical Association.

Price: Rs.2,500.00 (Single Issue)

Annual Subscription: Rs.30,000 in Pakistan and US$500.00 for overseas countries (including air mail postage).

Publication Office: PMA House, Aga Khan III Road, Karachi-74400, Pakistan. Telephone: 92-21-32226443.

E-mail: editor@jpma.org.pk

CONTENTS

PAGES

ACKNOWLEDGEMENTS

Publication Committee
7th Annual Neuro-Oncology Symposium (7ANOS) **S-1**

EDITORIAL

Neuro-Oncology in the Real World: Challenges, Innovations, and Impact
Hafiza Fatima Aziz, Syed Ather Enam **S-2**

ABSTRACT NO:01

When Diagnosis Is Not Enough: Management Challenges and Outcomes of CNS Tumors in Children Under Three Years in the Largest Public-Sector Center in Pakistan
Rahat ul Ain, Laeeq ur Rehman, Rabia Qaiser, Mahvish Hussain, Amber Goraya, Mahwish Faizan **S-3**

ABSTRACT NO:02

Endoscopic Endonasal Versus Endoscopic Supraorbital Keyhole Surgery for Craniopharyngioma Resection: A 15-Year Single-Center Retrospective Cohort Study
Ajit Phuyal , Burhan Ul Haq , Hammad Nasir Malik , Simon John , Kanwal Ali , Siraj Ul Haq **S-4**

ABSTRACT NO:03

Incidence and Molecular marker association with Drop Metastases in Ependymoma patients -A 25-year Experience from a Tertiary Care Center
Ayesha Sohail , Amina Ghaffar , Mehar Masroor , Zanib Javed , Muhammad Usman Khan, Munir Bosan , Syed Ather Enam **S-5**

ABSTRACT NO:04

Integrative Cross-Population Multi-Database Analysis Reveals an Association Between GORASP2 and Autophagy in Glioblastoma
Yusra Iqbal , Farina Hanif **S-6**

ABSTRACT NO:05

Ten year retrospective cohort of primary Intracranial Germ cell tumour in children adolescents and young Adults at a tertiary centre in a Low- to middle- Income country: Prevalence, Treatment, and Outcomes
Farrah Bashir , Hafsah Shahzad , Ahsan Ahmad , Altaf Ali Laghari , Bilal Mazhar Qureshi , Shayan Sirat Maheen Anwar , Khurram Minhas, Naureen Mushtaq **S-7**

CONTENTS

PAGES

ABSTRACT NO:06

Peripheral Inflammatory Biomarkers and Their Relationship with Histopathological and Molecular Features in Glioma: A Single-Centre Interim Analysis from Pakistan

Alyna Hafeez , Kabir Jitender Kumar Uderani , Shahzadi Sundas, Yasmin Abdul Rashid, Adeeba Zaki **S-8**

ABSTRACT NO:07

Anatomical Compartment-Associated Histopathological Phenotypes inGlioblastoma: Evidence for Location-Dependent Morphological Heterogeneity in a Five-Year Pakistani Cohort

Hasan Saeed , Zafar Ali **S-9**

ABSTRACT NO:08

Clinical Outcomes and Prognostic Factors Following Surgery for Supratentorial Intraventricular Tumours: A 15-year Experience

Mehar Masroor , Usama Abdul Ahad Memon , Osama Safar , Ahmed Hayat , Fareeha Nisar , Zanib Javed , Haran Innocent Bhatti, Muhammad Shahzad Shamim **S-10**

ABSTRACT NO:09

Age and Sex-Specific Provincial Patterns of Brain and CNS Cancer Mortality in Pakistan: A Global Burden of Disease Study

Usama Yaseen, Syed Mubeen Ahmed **S-11**

ABSTRACT NO:10

Predictors of Prolonged Hospital Stay After Craniotomy for Tumour Resection

Zanib Javed , Areej Khuwaaaja , Roha Sitwat , Ayesha Sohail , Hafiza Fatima Aziz , Nida Zahid , Saqib Kamran Bakhshi **S-12**

ABSTRACT NO:11

Epilepsy as a Contributing Cause of Death Among Malignant Brain Tumour Patients in the United States, 1999–2024: A Multiple-Cause CDC WONDER Joinpoint Analysis with Relevance to the Epilepsy Treatment Gap in Pakistan

Muhammad Ahmad Baraakat , Hadi Ftouni , Noor Us-Sabah , Liza Osepashvili **S-13**

ABSTRACT NO:12

Temporal Trends and Disparities in Malignant Brain Neoplasms and Cardiac Arrest- Associated Mortality in the United States, 1999-2024: A Retrospective Analysis

Muhammad Owais Shaikh , Farkhanda Maqbool, Tunjeena Shaikh , Vishan Das , Kashf Younas, Hanozia Shah **S-14**

CONTENTS

PAGES

ABSTRACT NO:13

Place of Death Among Malignant Brain Tumour Decedents in the United States, 2003–2024: A CDC WONDER Joinpoint Analysis of End-of-Life Care Settings with Relevance to Palliative Capacity in Pakistan

Muhammad Ahmad Barakat , Hadi Ftouni , Haniah Noor Baqi , Ruham Fatima **S-15**

ABSTRACT NO:14

Temporal Trends in the Burden of Brain and Central Nervous System Cancer in Pakistan: A Global Burden of Disease Study, 1990–2023

Muhammad Bilal Aamir , Tehreem Tariq , Muhammad Aamir Saghir **S-16**

ABSTRACT NO:15

Transcriptomic Analysis Identifies the PVT1-miR-34a Axis as a Novel Non-Coding RNA Therapeutic Target in Diffuse Intrinsic Pontine Glioma

Ayesha Farooq , Hurmat Haroon , Faisal Khan **S-17**

ABSTRACT NO:16

Temporal Trends in the Age-Standardized Incidence of Brain and Central Nervous System Cancers in Pakistan: A Global Burden of Disease Study (1990–2021)

Wania Moeen , Muhammad Sohaib Khan , Aswah Moeen , Hafsa Rais, Muhammad Salif Moeen **S-18**

ABSTRACT NO:17

Microsurgical resection of skull base meningioma Operative Nuances,Challenges, and Outcome

Md. Ruhul Kuddus , Robert Ahmed Khan , Md. Hasanur Rahman , Ferdousi Tabassum **S-19**

ABSTRACT NO:18

Trends in Mortality Due to Brain and Other Central Nervous System Cancers in Pakistan, 1980–2021: A Global Burden of Disease Analysis

Muhammad Sohaib Khan , Wania Moeen , Muhammad Jansher , Wajeeh Ahmed Khan , Hafsa Rais **S-20**

ABSTRACT NO:19

Effect of False Memories on Episodic and Semantic Memory and Amnesia in Patients with Hippocampal Lesions

Khansa Furqan , Muhammad Aqeel , Hamid Shafiq **S-21**

ABSTRACT NO:20

Trends and Disparities in Mortality Due to Secondary Malignant Neoplasm of the Brain and Cerebral Meninges in the United States (1990–2020)

Vishan Das , Kaneez Fatima , Muhammad Owais Shaikh , Suneel Kumar , Kashf Younas , Tunjeena Shaikh **S-22**

CONTENTS

PAGES

ABSTRACT NO:21

Single-cell Transcriptomic Characterization of DPP8 and DPP9 Expression Across Malignant Transcriptional States in Glioblastoma

Malaika Khan , Paras Jawaid , Azhar Hussain , Syed Ather Enam **S23**

ABSTRACT NO:22

Quantifying the surgical mediation of income-based survival disparities in glioblastoma: a SEER causal four-way decomposition (2007–2022)

Abdul Rafay Khan , Sara Khan , Komal Khan , Mohammad Shahmir Waqas , Arslan Ali **S-24**

ABSTRACT NO:23

Contribution of Unspecified Brain Malignancies to Overall Brain Cancer Mortality Trends in the United States: A 26 years CDC WONDER Analysis

Aqsa Memon , FNU Venjhraj , Rajesh Kumar , Meva Ram , Aiza Khadim , Ravi Das **S-25**

ABSTRACT NO:24

Hybrid Quantum-Classical Predictive Modelling for Glioblastoma Survival: Addressing Data Scarcity in Resource-Constrained Neuro-Oncology

Wajeeh Ahmed Khan, Mubashir Amjad, Arsalan Khan, Fawad Sarwar, Haroon Ahmed **S-26**

ABSTRACT NO:25

Urban–Rural Disparities in Malignant Brain Tumour Mortality in the United States, 1999–2020: A CDC WONDER Join point Analysis with Relevance to Neurosurgical Access in Pakistan

Muhammad Barakat , Hadi Ftouni , Maryam Ali Ahmed , Ruham Fatima , Madona Akhobadze **S-27**

ABSTRACT NO:26

Preoperative identity Threat and Illness Perception in Patients Undergoing Resection of Intracranial Tumors: A Multidimensional Cross-sectional Study Using Validated Psychometric Instruments

Haseeb Mehmood Qadri , Fajar Saqib , Waleed Qasim Bashir , Faiqa Ijaz Khan , Asif Bashir **S-28**

ABSTRACT NO:27

Clinical Pattern And Surgical Outcomes Of Meningioma

Hamid Akbar Shaik, Abdul Razzaque Mari, Sajid Ali Bhatti, Muhammad Ali Jamali, Muzamil Dilber, Muzafar Bhand, Naimat Ullah Shar, Azhar Khoso **S-29**

CONTENTS

PAGES

ABSTRACT NO:28

Survival Impact of Supramarginal Resection According to MGMT Promoter Methylation Status in Glioblastoma: A Systematic Review and Meta-analysis

Simon John , Tehniat Khaliq , Jahan Khan **S-30**

ABSTRACT NO:29

Comparative Analysis of Prognostic Scoring Systems for Survival Prediction in Patients Undergoing Surgery for Spinal Metastases: A GRADE-approached Systematic Review and Meta-Analysis

Kanchan Chaudhary, Mohammad A Zaied, Abdallah Shawwa, Hamza Ahabbane, Mira alnaser Khashman, Moath Naser **S-31**

ABSTRACT NO:30

Childhood and Adolescent Central Nervous System Tumour Mortality in the United States, 1999– 2024: A CDC WONDER Joinpoint Analysis and Surveillance Model for Pakistan

Muhammad Ahmad Barakat , Hadi Flouni , Reena Bai , Fatima Hazimeh, Prem Chand **S-32**

ABSTRACT NO:31

Real-World Barriers to Molecular Biomarker Testing in Neuro-Oncology Clinical Trials in Resource-Limited Settings: A Scoping Review

Manal Rafiquem, Nadeem Sharif **S-33**

ABSTRACT NO:32

Glymphatic dysfunction following traumatic brain injury: Mechanism of waste clearance and Emerging therapeutic targets

Rameen Suhail , Tooba Imran, Zainab Mehtab , Nimra Shabeer **S-34**

ABSTRACT NO:33

Paediatric Scalp Squamous Cell Carcinoma With Suspected Intracranial Extension Mimicking Cerebral Abscesses in a Patient With Xeroderma Pigmentosum: A Case Report and Literature Review Abstract

Marya Hameed, Kainat Sohail, Iqra Memon **S-35**

ABSTRACT NO:34

En Bloc Resection of a Giant Sacrococcygeal Chordoma Presenting with Urinary Bladder Distension to the L4 Level: A Case Report

Simon John , Tehniat Khaliq , Ghulam Brohi , Jahan Khan , Izhan Masood , Maryam Ilyas **S-36**

CONTENTS

PAGES

ABSTRACT NO:35

Beyond the brain and barrier: high-grade astrocytoma with distant metastases in a young patient — a rare presentation

Muneer Ahmed , Muhammad Irtiza Irshad , Adeeba Zaki , Aisha Hassan Memon , Tamana Asghari **S-37**

ABSTRACT NO:36

Carboplatin and Etoposide as Effective Fourth-Line Treatment in a patient with Recurrent Oligodendroglioma Complicated by Therapy-Related Acute Myeloid Leukaemia

Alyna Hafeez , Nabiha Saeed , Yasmin Abdul Rashid , Adeeba Zaki **S-38**

ABSTRACT NO:37

Intracranial Metastasis From Medullary Thyroid Carcinoma Mimicking As Invasive Meningioma: A Case Series

Badar Uddin Ujjan, Asma Batool Zaidi , Salman Ahmed Niaz Mangrio, Raazia Ramzan, Aijaz Ali **S-39**