

PAKISTAN JOURNAL OF MEDICAL SCIENCES

Bi-Monthly

AN INTERNATIONAL PEER REVIEWED MEDICAL JOURNAL FROM PAKISTAN

VOL. 40 NO. 1

Current Impact Factor: 2.340 Cite Score: 2.3

January - February 2024 (Part-I)



HIGHLIGHTS

Angiographic characteristics of culprit lesions in infarct related artery and correlation of TIMI score with SYNTAX score to predict extent and severity of coronary artery disease in patients undergoing primary percutaneous coronary interventions	20
Efficacy of metformin combined with liraglutide on the glucose and lipid metabolism, vascular endothelial function, and oxidative stress of patients with T2DM and metabolic syndrome	26
Reconstruction of soft tissue defects of hand: A systematic approach	36
Efficacy of Letrozole vs Clomiphene Citrate for induction of ovulation in women with polycystic ovarian syndrome	78
Curriculum implementation challenges: Development and validation of an integrated curriculum implementation challenges tool	89
Un-resolving frozen shoulder: Are we really treating it?	165
Metformin versus sodium glucose co-transporters inhibitors as first-line for atherosclerotic cardiovascular disease: A meta-analysis	209

Detailed contents on Page-C

www.pjms.org.pk

Indexed by Science Citation Index Expanded (SCIE) by Clarivate USA

Recognized by Higher Education Commission, Government of Pakistan
Covered by PubMed Central, USA, approved by CPSP, PM&DC

Covered by important databases like Web of Science, Embase/Excerpta Medica Netherlands, WHO IMEMR Current Contents, ISC Iran, Pakistan Science Abstracts, Index Copernicus Poland, SCOPUS, INIS Database, CAB Abstract and Global Health UK, Registered with ISDS France. It is also covered by Pakmedinet, Open-J gate India, doaj.

PAKISTAN JOURNAL OF
MEDICAL SCIENCES
— Bi-Monthly

www.pjms.org.pk

(Founder Chief Editor Late Dr. Maqbool H. Jafary FRCP)

EDITORIAL COMMITTEE

Chief Editor

Assistant Editor

Members

SHAUKAT ALI JAWAID ANWAR ALI SIDDIQUI EJAZ AHMED VOHRA, SHABIH H. ZAIDI

Production Editor: MUBARAK ALI

YOUNIS ABDELWAHAB SKAIK

ADVISORY BOARD

Ahmad Badar, *Saudi Arabia*

M. Afzal Javed, *UK*

Bobby Joseph, *India*

Mohammad Bagher Rokni, *Iran*

Farrokh Habibzadeh, *Iran*

Tahereh Changiz, *Iran*

Mohammad Akbar Chaudhry, *Lahore*

www.pjms.org.pk

Indexed by Science Citation Index Expanded (SCIE) by CLARIVATE (ISI) USA

Recognized by Higher Education Commission, Government of Pakistan

Covered by important databases like Web of Science, EMBASE/Excerpta Medica Netherlands, WHO IMEMR Current Contents, ISC Iran, Pakistan Science Abstracts, Index Copernicus Poland, SCOPUS, INIS Database, CAB Abstract and Global Health UK, Registered with ISDS France, approved by CPSP, PM&DC. It is also covered by Pakmedinet, Open-J gate India, DOAJ.

PAKISTAN JOURNAL OF MEDICAL SCIENCES (Pak J Med Sci) is a peer reviewed journal. It is published Bi-Monthly and we practice open peer review system. Peer review of a manuscript takes from three to four months though efforts are being made to reduce this period. It has controlled circulation.

Mission: To keep healthcare professionals abreast with latest developments in medical sciences by publishing good quality peer reviewed manuscripts, to improve clinical practice, patient care and to make Pakistan Journal of Medical Sciences one of the leading peer-reviewed biomedical journal from Asia Pacific Region.

Objective: The journal aims at promoting the art and science of medicine to improve healthcare besides being a useful source of CME for healthcare professionals offering healthy, balanced & constructive debates on controversial issues that effect medicine, keeping up the professional ethics in medical journalism.

We accept original research, review articles, guest editorials, case reports, short communications, drug trials, letters, book reviews, case studies, clinical notes, CME, issues for debate and obituaries.

Submission/Processing Charges: All manuscript from Pakistan must be accompanied by processing charges of Rs. 5000/- (Non Refundable) by cash or through online Bank Transfer. **Note: Cheque, Pay Order and Bank Draft are not accepted as processing fee. Title of Account:** Pakistan Journal of Medical Sciences, Account Number: 00040101801240-5, MCB Bank Limited, Saddar Branch (0004), Karachi.

Fast track review: Rs.30,000/- (Non-refundable). **Fast track review for Overseas:** US\$ 300/-. First decision after peer review in twelve weeks. Authors who wish to opt for fast track processing must first enquire if it is possible.

Plagiarism: Manuscripts are screened for plagiarism using iThenticate Software and those found guilty or involved in publication misconduct are liable to be black listed. We are member & follow COPE Guidelines. Minimum publication charges for manuscripts effective June 3, 2022 is Rs.30,000/- (in case of overseas US\$ 600/-), Case Report / Brief Communications Rs.25,000/- (in case of overseas US\$ 400/-) and Review Article Rs.50,000/- (in case of overseas US\$ 1000/-) upto five printed pages in the journal & Rs.6,000/- extra will be payable for each additional page. Overseas US\$ 75/- for each additional page. Charges for photograph, films and illustrations are additional. Publication charges are payable in advance once the manuscript has been accepted for publication by the Editorial Board after peer review. Prints can be obtained from online edition which contains all the published manuscripts in PDF format.

(For detailed instructions for authors visit our website pjms.org.pk) Note: Processing and Publication charges from authors are taken to ensure their Open Access availability for the readers.

Note: Periodicity of Pakistan Journal of Medical Sciences was changed from Quarterly to Bi-Monthly with effect from April 1st, 2013 after getting permission from Govt. of Sindh Letter No. CK/HMS/Press/-97/13 dated March 25th, 2013.

Ombudsman: Dr. Behrooz Astaneh, Canada. E-mail: astanehb@yahoo.com

Payment of publication charges should be made direct in our Bank Account through Online Transfer.

Business & Editorial Offices: Professional Medical Publications, Office # 701, Seventh Floor, Business Center, PECHS, Shahrah-e-Faisal, Karachi-Pakistan. Email: pjms@pjms.org.pk. Phone: +92-021-34324732 & +92-021-34324733. E-mail: pjms@pjms.org.pk, Online edition ISSN 1681-715X

Abbreviated key title: Pak J Med Sci

Website: www.pjms.org.pk

Desk Top Publishing: Zahid Hussain Publication Secretary: Nauman

Published by Shaukat Ali Jawaid for Professional Medical Publications and printed at Punjab Printing Press Karachi, Pakistan

Whilst every effort is made by the publishers and the Editorial Advisory Board of the Journal to see that no inaccurate or misleading data, opinion or statement appears in this Journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the responsibility of the contributor or advertiser concerned. Accordingly, the publishers and the editorial committee and their respective employees, officers and agents accept no liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement-*Chief Editor*

CONTENTS

GUEST EDITORIAL

- * The evolving landscape of health professions education in Pakistan: A critical discourse on CHPE regulation and standardization 1
Syed Jaffar Abbas Zaidi, Syeda Rubaba Azim

EDITORIAL

- * Time to treat the climate and nature crisis as one indivisible global health emergency 5
Chris Zielinski

ORIGINAL ARTICLES

- * Outcomes of oncoplastic breast surgery compared to breast-conserving surgery in breast cancer patients in a developing country: a retrospective cohort study 8
Lubna M. Vohra, Nifasat Farooqi, Uswa Jiwani, Danish Ali
- * Preparing for the future of healthcare: Digital health literacy among medical students in Lahore, Pakistan 14
Zobia Farooq, Ahad Imran, Nazish Imran
- * Angiographic characteristics of culprit lesions in infarct related artery and correlation of TIMI score with SYNTAX score to predict extent and severity of coronary artery disease in patients undergoing primary percutaneous coronary interventions 20
Rizwanullah, Jawaid Akbar Sial, Nasir Ali, M. Shehzad
- * Efficacy of metformin combined with liraglutide on the glucose and lipid metabolism, vascular endothelial function, and oxidative stress of patients with T2DM and metabolic syndrome - *Zaisheng Liu* 26
- * Outcomes of initial 100 cases of laparoscopic nephrectomy at tertiary care center (PKLI) 31
Nadeem Iqbal, Syed Imtiaz Ali, Ayesha Farooq³, Nauman Zafar
- * Reconstruction of soft tissue defects of hand: A systematic approach 36
Mansoor Khan, Waqas Hayat, Hidayat ullah, Nasir Hayat Khan
- * Cochlear duct length in Pakistani cochlear implant recipients gender, age and side association: A Radiological Measure 41
Zahra Sarwar, Jawwad Ahmed, Ghulam Saqulain, Muhammad Iqbal Javed Khan
- * Study on preoperative treatment of acute Type-A aortic dissection with endotracheal intubation combined with deep analgesia and sedation 46
Luo Chaoen, Asfandyar Khan, Hu Fan, He Shuangxi, Liu Qiaoling, Zhengwen Lei
- * Epidemiological and clinical characteristics of esophageal carcinoma: An experience from tertiary care hospital of Karachi, Pakistan 55
Nazish Butt, Sabir Ali Soomro, Ghulam Haider, Aemon Zehra
- * Potential candidacy for thrombolysis among ischemic stroke patients presenting to Khyber Teaching Hospital, Peshawar 60
Aliena Badshah, Iqbal Haider, Durkho Atif, Muhammad Taimoor
- * Causes and outcome of pregnancy related acute kidney injury 64
Noor Muhammad, Nazia Liaqat
- * The effect of ruminative thoughts on sexuality in obese women 68
Hulya Guc, Hasan Turan Karatepe, Asena Ayca Ozdemir, Ibrahim Bashan

* Comparison of pre and post Foley catheter Bishop's Score: A retrospective record review at Aga Khan University Hospital Karachi, Pakistan <i>Ayesha Malik, Sheikh Irfan, Farheen Yousuf, Azra Amerjee, Sumaira Naz, Safna Virji</i>	73
* Efficacy of Letrozole vs Clomiphene Citrate for induction of ovulation in women with polycystic ovarian syndrome <i>Tayyiba Wasim, Tahira Nasrin, Javeria Zunair, Sonia Irshad</i>	78
* Comparison of risk factors for Methicillin Resistant Staphylococcus aureus (MRSA) colonization in healthy newborns, born to mothers with and without MRSA colonization <i>Sara Malik, Muhammad Faheem Afzal, Muhammad Haroon Hamid</i>	84
* Curriculum implementation challenges: Development and validation of an integrated curriculum implementation challenges tool <i>Kinza Aslam, Rehan Ahmed Khan, Mohammad Annas Aslam, Fatima Zia Zaidi</i>	89
* Effects of cognitive behavioral and psychological intervention on social adaptation, psychological resilience and level of hope in patients with nasopharyngeal carcinoma in radiotherapy <i>Xiaohui Liu, Ce Wang, Yanhong Li, Yue Wang</i>	95
* Prevalence of Human Papilloma virus in potentially malignant oral disorders is a risk factor for development of early dysplasia-A cytological investigation <i>Maham Javed, Rabia Anjum, Gulraiz Zulifqar, Farhan Rasheed, Ali Amar, Nadia Naseem</i>	101
* <i>Illicium verum</i> anticancer activity against MDA-MB-231 cell line <i>Asra Khan Pahore, Shagufta Khan, Nasim Karim</i>	110
* Adipo-myokine Irisin, a Promising Antioxidant against Nicotine Induced Oxidative Stress in BALB/c mice <i>Madiha Imran, Sadia Ahsin, Gule-Naghma Saeed, Hira Ashraf</i>	115
* Value of preoperative controlling nutritional status score in prognosis of patients with high-risk factors for early-stage cervical cancer <i>FuYan Tan, RuMin Xia, Lanjuan Zeng, Huan Xie, Xiaolu Long, Caijiao Peng</i>	120
* Obsession to fairness and topical steroid induced acne: A situation analysis of patients presenting in dermatology clinic at a private hospital in Karachi <i>Afza Naureen Ghouse, Erum Ashraf, Zara Iqbal Khan, Sitwat Siddiqui</i>	128
* Historical trends in breast cancer presentation among women in Pakistan from join-point regression analysis <i>Sidra Zaheer, Farah Yasmeen</i>	134
* Recurrence of portosystemic encephalopathy in cirrhotic patients and its risk factors <i>Masood Muhammad Karim, Abdullah Bin Khalid, Zahabia Sohail, Mohammad Yasrab</i>	140
* Value of serum CRP and IL-6 Assays combined with Pancreatitis activity scoring system for assessing the severity of patients with acute pancreatitis <i>Fang Xu, Xin Hu, Shu-ling Li</i>	145
* Laparoscopic extralevator abdominoperineal resection for low rectal cancer: The myth of reinventing the wheel <i>Nighat Bakhtiar, Irfan-ul-Islam Nasir, Muhammad Fahd Shah, Ihtisham-Ulah, Osama Shakeel, Shahid Khattak, Aamir Ali Syed</i>	150

* Prevalence of A2 and A2B Subgroups among Blood Groups A and AB in healthy donors <i>Ayesha Khanum, Saima Farhan, Nazish Saqlain, Sundas Arshad</i>	156
* Correlation between the risk of lymph node metastasis and the expression of GBP1 in breast cancer patients <i>Yukun Liu, Ziyang Wu, Jun Lin, Zhimei Wang</i>	159
* Un-resolving frozen shoulder: Are we really treating it? <i>Abrar Ahmed Wagan, Paras Surahyo</i>	165
* Assessment of prescription writing skills among dental house officers: A multi-center study <i>Palwasha Babar, Uswa Qaiser, Ijaz ur Rehman</i>	170
* Association between intestinal microflora and renal function in patients with chronic renal failure: A case-control analysis <i>Haixia Chen, Xiaoxiao Xie, Shuming Tang</i>	174
* Thyroid status in pregnancy: Comparison of thyroid function abnormalities in women with and without a history of miscarriage or stillbirth <i>Ghulam Abbas, Samina Aliya Sabir, Siddiq Ur Rehman, Beenish Gohar</i>	179
* Medical students' knowledge about curriculum development and implementation in public and private medical institutes <i>Sumera Ehsan, Ayesha Ayub, Ayesha Sadiq</i>	185
* Clinical study of Edoxaban combined with Tirofiban in treatment of Acute Cerebral Infarction <i>Yuxia Mi, Zhigang Hou, Jiaqi Liu, Caixia Zhang</i>	190
* A comparative analysis of postoperative visual outcomes following cataract surgery with different brands of Monofocal Intraocular Lenses <i>Muhammad Saleh Memon, Tauseef Mahmood, Umair Qidwai, Shahid Ahsan, Muhammad Arslan, Muhammad Faisal Fahim</i>	195
SYSTEMATIC REVIEW/META-ANALYSIS	
* Steroid efficacy in Meralgia Paresthetica: A systematic review and meta-analysis <i>Wajid Jawaid, Samna Haider, Navaira Shoaib, Naveen Azhar, Arooma Shaukat Siddiqui</i>	200
REVIEW ARTICLE	
* Metformin versus sodium glucose co-transporters inhibitors as first-line for atherosclerotic cardiovascular disease: A meta-analysis <i>Amirah M. Alatawi</i>	209
* Mediators of Periodontitis complementing the development of Neural Disorders <i>Ayesha Sadiqa, Munsara Khalid Khan</i>	214
* Factors responsible for the persistence of Hypothyroidism among Pakistani Women <i>Mariyah Hidayat</i>	222
* Hepatitis-C during Pregnancy: Antenatal period challenges, management and the way forward <i>Lubna Kamani, Asma Abdul Razzak</i>	227

* Sustainability in Dentistry: Assessing knowledge, attitude, and practices of dental practitioners about green dentistry <i>Nighat Zia, Jennifer Geraldine Doss, Jacob John, Jeneen Panezai</i>	233
CASE REPORT	
* Ultrasound Doppler findings of a Twin Reversed Arterial Perfusion Sequence (TRAP) <i>Saba a Abdulmalik Amer, Sultan Abdulwadoud Alshoabi, Abdulaziz A. Qurashi, Fahad H. Alhazmi, Rawda Yehia Al-Rudini</i>	242
* A case of stuck mechanical Tricuspid Valve <i>Abdul Nasir, Mujeeb Ur Rehman, Salman Khan, Hamza Ali</i>	247
CORRESPONDENCE	
* Radiofrequency ablation for the treatment of multifocal or large-scale high-grade intraepithelial neoplasia of the esophagus: A safe & effective approach <i>Yang Yang, Liang Liu, Jingyu Zhu</i>	251
* Is Tranexemic Acid really helpful in major hemorrhage? <i>Faraz Mansoor</i>	253
* Metaverse in Medical Education: A Paradigm Shift <i>Khadija Farrukh</i>	255