

MALAYSIAN JOURNAL OF
Medicine and Health Sciences
Vol. 22 SUPP 3, February 2026

MALAYSIAN JOURNAL OF

Medicine and Health Sciences

Vol. 22 SUPP 3/February 2026

“The 4th International
Conference of Medical Science
Technology, (ICMST2024)”

Malaysian Journal of Medicine and Health Sciences Vol. 22 SUPP 3, February 2026



Faculty of Medicine and Health Sciences
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan
Malaysia
<http://medic.upm.edu.my/>

UPM Press
Universiti Putra Malaysia
43400 UPM Serdang
Selangor Darul Ehsan
Malaysia
<http://penerbit.upm.edu.my>

PENERBIT
UPM
UNIVERSITI PUTRA MALAYSIA
PRESS



A scientific journal published by Universiti Putra Malaysia Press

About the Journal

The Malaysian Journal of Medicine and Health Sciences (MJMHS) is published by the Faculty of Medicine and Health Sciences, Universiti Putra Malaysia. The main aim of the MJMHS is to be a premier journal on all aspects of medicine and health sciences in Malaysia and internationally. The focus of the MJMHS will be on results of original scientific research and development, emerging

Editorial Board

Editor in Chief:
Prof. Dr. Rukman Awang Hamat

Coordinator:
Dr. Tan Kit Aun

Members:
Prof. Dr. Normala Ibrahim
Prof. Dr. Christopher Lim Thiam Seon
Prof. Dr. Ching Siew Mooi
Prof. Dr. Sharmili Vidyadaran
Prof. Dr. Loh Su Peng
Prof. Dr. Ling King Hwa
Prof. Dr. Andee Dzulkarnaen Zakaria
Prof. Dr. Sethu Thakachy Subha
Prof. Dr. Pike-See Cheah
Assoc. Prof. Dr. Rajesh Ramasamy
Assoc. Prof. Dr. Nor Afiah Mohd Zulkefli
Assoc. Prof. Dr. Wan Aliaa Wan Sulaiman
Assoc. Prof. Dr. Habibah Abdul Hamid
Assoc. Prof. Dr. Zubaidah Nor Hanipah
Assoc. Prof. Dr. Intan Hakimah Ismail
Assoc. Prof. Dr. Ho Yu Bin
Assoc. Prof. Dr. Karmegam Karuppiyah
Assoc. Prof. Dr. Sarva Mangala Praveena
Assoc. Prof. Dr. Roslaini Bin Abd. Majid
Assoc. Prof. Dr. Ashley Edward Roy A/L Soosay
Assoc. Prof. Dr. Subashini Chellappah
Thambiah
Assoc. Prof. Dr. Sanjiv Rampal A/L Datuk
Lekhraj Rampal
Assoc. Prof. Dr. Ruziana Masiran
Dr. Navin Kumar A/L Devaraj
Dr. Razif Abas@Buang
Dr. Sandra Maniam
Dr. Manraj Singh Cheema
Dr. Amilia Afzan Binti Mohd Jamil
Dr. Azlina Binti Yusuf
Dr. Fahisham Taib
Dr. Lau Su Yin

Lead Guest Editor:
Dr Jalilah Idris

Head of Committee:
Ts. Dr Nur Azma Amin
Dr. Norhaida Che Azmi
Dr. Mehru Nisha Muhammad Haneef

International Editorial Member

Prof. Dr. Hendrik Setia Budi
Assoc. Prof. Dr. Bipin T Varghese
Dr. Basmaa Hassan Mohammed Elwakil

International Advisory Board

Prof. Dr. Cecilia A. Essau
Prof. Dr. David Brendan Price
Prof. Dr. S Suresh Kumar
Assoc. Prof. Dr. Sean Semple
Dr. Martin Wong Chi Sang