

MALAYSIAN JOURNAL OF  
Medicine and Health Sciences  
Vol. 16 No. SUPP16, Dec 2020  
Supplementary Issue:  
APPLIED HEALTH STUDY

MALAYSIAN JOURNAL OF

# Medicine and Health Sciences

Vol. 16 No. SUPP16 / Dec 2020  
Supplementary Issue:  
APPLIED  
HEALTH STUDY

Malaysian Journal of Medicine and Health Sciences Vol. 16 No. SUPP16, December 2020



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 issues and policy analyses pertaining to medical, biomedical and clinical sciences. The Malaysian Journal of Medicine and Health Sciences is now indexed in the following data bases: Scopus, EBSCOhost, ISC, and Rubriq.

## Editorial Board

Editor in Chief:  
Prof. Dr. Normala Ibrahim

Members:  
Prof. Dr. Rukman Awang Hamat  
Assoc. Prof. Dr. Rajesh Ramasamy  
Assoc. Prof. Dr. Sharmili Vidyadaran  
Assoc. Prof. Dr. Sethu Thakachy Subha  
Assoc. Prof. Dr. Loh SuPeng  
Assoc. Prof. Dr. Nor Afiah Mohd Zulkefli  
Assoc. Prof. Dr. Wan Aliaa Wan Sulaiman  
Assoc. Prof. Dr. Ling King Hwa  
Assoc. Prof. Dr. Habibah Abdul Hamid  
Assoc. Prof. Dr. Zubaidah Nor Hanipah  
Assoc. Prof. Dr. Ching Siew Mooi  
Assoc. Prof. Dr. Intan Hakimah Ismail

Lead Guest Editor:  
Dr. Dwi Wahyu Indriati

Guest Editors:  
Dr. Diyantoro  
Dr. Siti Eliana Rochmi

Technical Coordinator:  
Dr. Tan Kit Aun

## International Advisory Board

Prof. Dr. Pierce Anthony Grace  
Prof. Dr. David Isaacs  
Prof. Dr. P. Ronan O'Connell  
Prof. Dr. Graham Alexander Mc Gregor  
Prof. Dr. Tan Ser Kiat  
Prof. Dr. Gregory Y.H. Lip  
Prof. Dr. Roger Pepperell