

APPENDICES



JAWATANKUASA ETIKA & PENYELIDIKAN PERUBATAN
(Medical Research & Ethics Committee)
KEMENTERIAN KESIHATAN MALAYSIA
d/a Kompleks Institut Kesihatan Negara
Blok A, No 1, Jalan Setia Murni U13/52,
Seksyen U13, Bandar Setia Alam,
40170 Shah Alam, Selangor.



Tel: 03-3362 8888/8205

Ref : KKM/NIHSEC/ P20-1960 (4)
Date: **2-Oct-2020**

Dr. AZIRA BINTI KHALIL
UNIVERSITI SAINS ISLAM MALAYSIA (USIM) – NILAI

Dear Sir / Mdm,

ETHICS INITIAL APPROVAL: NMRR-20-1963-56187 (IIR)
Tri-Modality Image Registration Information for Diagnosis of Cardiac Diseases

This letter is made in reference to the above matter.

2. The Medical Research and Ethics Committee (MREC), Ministry of Health Malaysia (MOH) has provided ethical approval for this study. Please take note that all records and data are to be kept strictly **CONFIDENTIAL** and can only be used for the purpose of this study. All precautions are to be taken to maintain data confidentiality. Permission from the District Health Officer / Hospital Administrator / Hospital Director and all relevant heads of departments / units where the study will be carried out must be obtained prior to the study. You are required to follow and comply with their decision and all other relevant regulations, including the Access to Biological and Benefit Sharing Act 2017.

3. The investigators and study sites involved in this study are:

HOSPITAL SERDANG
Dr. AZIRA BINTI KHALIL (Penyelidik Utama)

4. The following study documents have been received and reviewed with reference to the above study:

Documents received and reviewed with reference to the above study:

1. Study Protocol_Version 1, dated 24-Sep-2020
2. Data Collection Form_Version 1, dated 24-Sep-2020
3. Investigator's documents : Declaration of Conflict of Interest (COI), IA-HOD-IA, and CV:
 - a) Dr. AZIRA BINTI KHALIL (Penyelidik Utama)

5. Please note that ethical approval is valid until **1-Oct-2021**. The following are to be reported upon receiving ethical approval. Required forms can be obtained from the National Medical Research Register (NMRR) website.

- i. **Continuing Review Form** has to be submitted to MREC within 2 month (60 days) prior to the expiry of ethical approval.
- ii. **Study Final Report** upon study completion to the MREC.
- iii. Ethical approval is required in the case of **amendments / changes** to the **study documents/ study sites/ study team**. MREC reserves the right to withdraw ethical approval if changes to study documents are not completely declared.

6. This study involves the following methods:

- i. **Retrospective**
- ii. **Imaging records**

Appendix 1: Ethics Approval from Medical Research and Ethics Committee

Ref : KKM/NIHSEC/ P20-1960 (4)

7. Please take note that the reference number for this letter must be stated in all correspondence related to this study to facilitate the process.

Comments (if any): **Kindly ensure that approval from the Hospital Director has been obtained for the collection of diagnostic images in this research.**

Project Sites:
HOSPITAL SERDANG

Decision by Medical Research & Ethics Committee:

- () Approved
() Disapproved

Date of Approval : **2-Oct-2020**



DR HJH SALINA ABDUL AZIZ
Chairperson
Medical Research & Ethics Committee
Ministry of Health Malaysia
MMC No: 27117

MD/Approval2019/Mrecshare

Appendix 1: Ethics Approval from Medical Research and Ethics Committee



JAWATANKUASA ETIKA & PENYELIDIKAN PERUBATAN
(Medical Research & Ethics Committee)
KEMENTERIAN KESIHATAN MALAYSIA
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40170 Shah Alam, Selangor.



Tel: 03-3362 8888/8205

Ruj.Kami: KKM/NIHSEC/ P20-1960
Tarikh: 26-October-2021

DR. AZIRA BINTI KHALIL
UNIVERSITI SAINS ISLAM MALAYSIA (USIM) - NILAI

Dato'/ Tuan/ Puan,

Annual Ethical Renewal for 2021

NMRR-20-1963-56187 (IIR)

Protocol No :

Tri-Modality Image Registration Information for Diagnosis of Cardiac Diseases.

With reference to the 'Continuing Review Form' submitted 01-October-2021, we are pleased to inform that the conduct of the above study has been granted approval (via Full Board Review) for a year by the Medical Research & Ethics Committee, Ministry of Health Malaysia. To renew the approval, a completed 'Continuing Review Form' has to be submitted to MREC **within 2 months** before the expiry of the approval.

The Medical Research & Ethics Committee, Ministry of Health Malaysia operates in accordance to The International Council for Harmonization of Technical Requirement for Pharmaceutical for Human Use (ICH) dan Malaysia Guidelines for Good Clinical Practice.

Effective date: 26-October-2021 Until 25-October-2022

Comments (if any): NIL

"WAWASAN KEMAKMURAN BERSAMA 2030"

"BERKHIDMAT UNTUK NEGARA"

Yours sincerely,

(DR H.H SALINA ABDUL AZIZ)
Chairman
Medical Research & Ethics Committee
Ministry of Health Malaysia

Appendix 2: Ethics Renewal from Medical Research and Ethics Committee

LIST OF PUBLICATIONS AND AWARDS

Publications

1. Rahimi, A., Khalil, A., Ismail, S., Jamil, A. S. A., Azizan, M. M., Lai, K. W., & Faisal, A. (2023). Trimodality image registration of ultrasound, cardiac computed tomography, and magnetic resonance imaging for transcatheter aortic valve implantation and replacement image guidance. *Health and Technology*, 1–12.
2. Rahimi, A., Khalil, A., Noordin, F., Ismail, S., Azizan, M. M., & Lai, K. W. (2022). Prostate Cancer Monitoring using MRI Monomodal Feature-Based Registration. *Jurnal Fizik Malaysia*, 43(1), 10167–10177.
3. Rahimi, A., Khalil, A., Faisal, A., & Lai, K. W. (2021). CT-MRI Dual Information Registration for the Diagnosis of Liver Cancer: A Pilot Study Using Point-based Registration. *Current Medical Imaging Formerly Current Medical Imaging Reviews*, 18(1), 61–66.
4. Rahimi, A. M., Nurdin, I., Ismail, S., & Khalil, A. (2021). Malaysian Nurses' Knowledge of Radiation Protection: A Cross-Sectional Study. *Radiology Research and Practice*, 2021, 1–8.
5. Khalil, A., Rahimi, A., Luthfi, A., Azizan, M. M., Satapathy, S. C., Hasikin, K., & Lai, K. W. (2021). Brain Tumour Temporal Monitoring of Interval Change Using Digital Image Subtraction Technique. *Frontiers in Public Health*, 9, 752509.
6. Rahimi, A., Zakri, H., & Khalil, A. (2021). Development of Automatic Reminder System for Geriatric Medicine Intake. *Malaysian Journal of Science Health & Technology*, 7(1), 8–14.

Awards

1. Awarded with **GOLD** medal/certificate at 2021 Minggu Penyelidikan dan Inovasi (MPI), organized by Research and Innovation Management Center (CRIM), Universiti Malaysia Terengganu for 3D Hologram for Early Childhood Education.
2. Awarded with **SILVER** medal/certificate at International Innovation ARSVOT Malaysia (IAM 2021) on 10th April 2021 for 3D Hologram for Early Childhood Education.