

IUM RESEARCH DAY 2021

An International Online Event for Life Sciences



“TOWARDS
SUSTAINABLE
RESEARCH

EXCELLENCE

ADJUSTING TO
THE NEW
NORM”

ORGANISED BY:

**RESEARCH MANAGEMENT CENTRE (RMC)
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA, KUANTAN**

**24th November 2021
Zoom platform**



United Nations
Educational, Scientific and
Cultural Organization



UNESCO Chair on Future Studies:
- Anticipation for Sustainability and
Well-Being



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
بنيانها على العلم والقيم
Garden of Knowledge and Virtue



AN INTERNATIONAL AWARD-WINNING INSTITUTION FOR SUSTAINABILITY



IRD 2021 PROGRAM AND ABSTRACT BOOKS

CONTENTS

- 03 WELCOMING REMARKS
- 04 ORGANIZING COMMITTEE
- 08 LIST OF EXTERNAL JUDGES
- 09 LIST OF INTERNAL JUDGES
- 10 PROGRAM TIMELINE
- 11 ITINERARY FOR CLOSING CEREMONY
- 12 LIST OF PRESENTATIONS

IIUM Research Day 2021 :
Towards Sustainable Research
Excellence Adjusting to the New Norm

24th November 2021
Zoom platform

السَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللَّهِ وَبَرَكَاتُهُ

On behalf of the organising committee, it gives me great pleasure to welcome you to IIUM Research Day 2021: A national online event for video in life sciences. This annual programme aims to inculcate a culture of research, showcase new research findings and encourage collaboration among researchers.

This year, we have opened our event's doors internationally and minimized our costs to make our event more available and affordable to all.

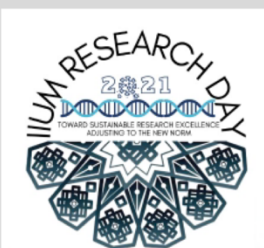
I hope this event will serve as a good platform for you to receive constructive feedback from each other, share ideas and build new connections with other researchers. Although we are not able to meet face to face due to the pandemic, let us not let this limit us from having meaningful interactions through this virtual event.

We welcome you to explore our conference website. Abstracts presented here will be published in reputable IIUM journals, and of course exciting prizes and surprises also await you.

I hope everyone benefits greatly from this event; I am looking forward to knowing you, sharing our experiences and building a lasting relationship together.

Thank you.

Prof. Dr. Nazri Bin Mohd. Yusof
Chairman,
IIUM Research Day 2021



**IIUM RESEARCH DAY 2021: AN INTERNATIONAL ONLINE EVENT FOR LIFE SCIENCES
ORGANIZING COMMITTEE**



Patron

Prof. Dr. Ahmad Hafiz Zulkifly
Deputy Rector, Responsible Research & Innovation



Advisor 1

Prof. Dr. Kamaruzzaman Yunus
Campus Director, IIUM Kuantan



Advisor 2

Prof. Dr. Amir Akramin Shafie
Director RMC, IIUM



Chairman

Prof. Dr. Nazri Mohd Yusof
RMC IIUM Kuantan



Secretary

Sr. Mastura Abdul Wahab
RMC IIUM Kuantan



Assistant Secretary

Sr. Nor Liyana Mohd Yusoff
RMC IIUM Kuantan

Scientific Committee



Assoc. Prof. Dr. Muzaffar Ali Khan Khattak (Head) (RMC)



Assoc. Prof. Dr. Roslina Abdul Rahim (HOR, KOM)



Asst. Prof. Dr. Muhammad Zahir Ramli (KOS)



Asst. Prof. Dr. Mohd. Zamani Zulkifli (HOR, KOS)



Assoc. Prof. Dr. Basma Ezzat Mustafa (KOD)



Asst. Prof. Dr. Muhd Firdaus Che Musa (KOD)



Asst. Prof. Dr. Zunariah Buyong (KOM)



Asst. Prof. Dr. Wael Mohamed Yousef Mohamed (KOM)



Prof. Dr. M. Taher Bakhtiar (KOP)



Asst. Prof. Dr. Munirah Sha'ban (KAHS)



Assoc. Prof. Dr. Qamar Uddin Ahmed (KOP)



Asst. Prof. Dr. Nurul Hazirah Jaafar (KAHS)



Asst. Prof. Dr. Siti Zuhaidah Shahadan (KON)

Registration Committee



Assoc. Prof. Dr. Widya Lestari
(RMC) (Head)



Asst. Prof. Dr. Sobrina
Mohamed Khazin (KOD)



Br. Mohd A'imullah
Azmi (RMC)

Publicity & IT Committee



Asst. Prof. Dr. Azlini Ismail (HOR,
KOD)(HEAD)



Asst. Prof. Dr. Mohd Hafidz Ithnin
(HOR,KAHS)



Asst. Prof. Dr. Mohd.
Nor Hafizi Mohd Ali
(KOD)



Asst. Prof. Dr. Mohamad Shafiq
Mohd Ibrahim (KOD)



Br. Azam Fauzi Mohd Said
(KOD)



Sr. Ummi Kalthom
Hanafi (ITD)

Evaluation & Marks Committee



Assoc. Prof. Dr. Alfi Khatib (Head)
(HOR,KOP)



Asst. Prof. Dr. Mohamad Firdaus Mohamad
Ismail (HOR, KON)

Treasurer



Br. Salehuddin Lokman (Finance, OCD)



Sr. Suaidah Abu Mansor (RMC)

Prizes & Certificates Committee



Sr. Azaidatul Shurina Jamaludin (RMC)



IIUM RESEARCH DAY 2021: AN INTERNATIONAL ONLINE EVENT FOR LIFE SCIENCES
External Judges



PROF. TS. DR. MD. MUSTAFIZUR RAHMAN

Faculty of Mechanical and Automotive Engineering Technology
University of Malaysia Pahang

ASSOC. PROF. DR. MUHAMMAD JAHANGIR

Faculty of Agriculture Science,
Haripur University, Pakistan



ASSOC. PROF. IR. DR. CHIN SIM YEE

Faculty of Chemical and Natural Resources Engineering,
University of Malaysia Pahang

ASSOC. PROF. DR. INTAN SAFINAR ISMAIL

Faculty of Science,
Universiti Putra Malaysia



DR. ANDANG MIATMOKO

Faculty of Pharmacy,
Airlangga University, Indonesia

DR. MOHD ZUWAI RI SAIMAN

Faculty of Science,
University of Malaya



IIUM RESEARCH DAY 2021: AN INTERNATIONAL ONLINE EVENT FOR LIFE SCIENCES

Internal Judges



PROF. DATO' DR. BASRI MAT NOR
Kulliyah of Medicine, IIUM



**PROF. DR. SIRAJUDEEN KUTTLEBBAI
NAINA MOHAMED SALAM**
Kulliyah of Medicine, IIUM



**ASSOC. PROF. DR. MUHANAD ALI
HAMDON KASHMOLA**
Kulliyah of Dentistry, IIUM



**ASST. PROF. TS. DR. MOHD HAFIZ
ARZMI**
Kulliyah of Dentistry, IIUM



**ASST. PROF. DR. MOHAMED HASSAN
ABDELAZIZ ELNAEM**
Kulliyah of Pharmacy, IIUM



**ASST. PROF. DR. NOR HIDAYAH MOHD
TAUFEK**
Kulliyah of Pharmacy, IIUM



ASST. PROF. DR. ISKANDAR BAHARI
Kulliyah of Sciences, IIUM



**ASST. PROF. DR. MOHAMAD WAFIUDDIN
ISMAIL**
Kulliyah of Sciences, IIUM



**ASST. PROF. DR. PATIMAH ABDUL
WAHAB**
Kulliyah of Nursing, IIUM



**ASST. PROF. DR. TENGU
MUHAMAD FARIS SYAFIQ**
Kulliyah of Nursing, IIUM



**ASSOC. PROF. DR. MUHAMMAD
IBRAHIM**
Kulliyah of Allied Health Sciences, IIUM



ASSOC. PROF. DR. MOHD RADZI HILMI
Kulliyah of Allied Health Sciences, IIUM



PROGRAM TIMELINE



CLOSING CEREMONY AND THE ANNOUNCEMENT OF RESULTS FOR IIUM RESEARCH DAY 2021

2.30pm:

Virtual arrival of IIUM Research Day participants

2.35pm:

Recitation of Doa and IIUM Song "Leading The Way"

2.40pm:

Welcoming Remarks by the Chairman
(Prof. Dr. Nazri Mohd Yusof)

2.45pm:

Talk on Direction of Research in IIUM
(Prof. Dr. Ahmad Hafiz Zulkifly)

-Deputy Rector (Responsible Research & Innovation,
International Islamic University Malaysia-

3.00pm:

Video Presentation

Announcement of Results of IIUM Research Day 2021

-Gold Award

-Best Award for Each Category

3.10pm:

End of Program



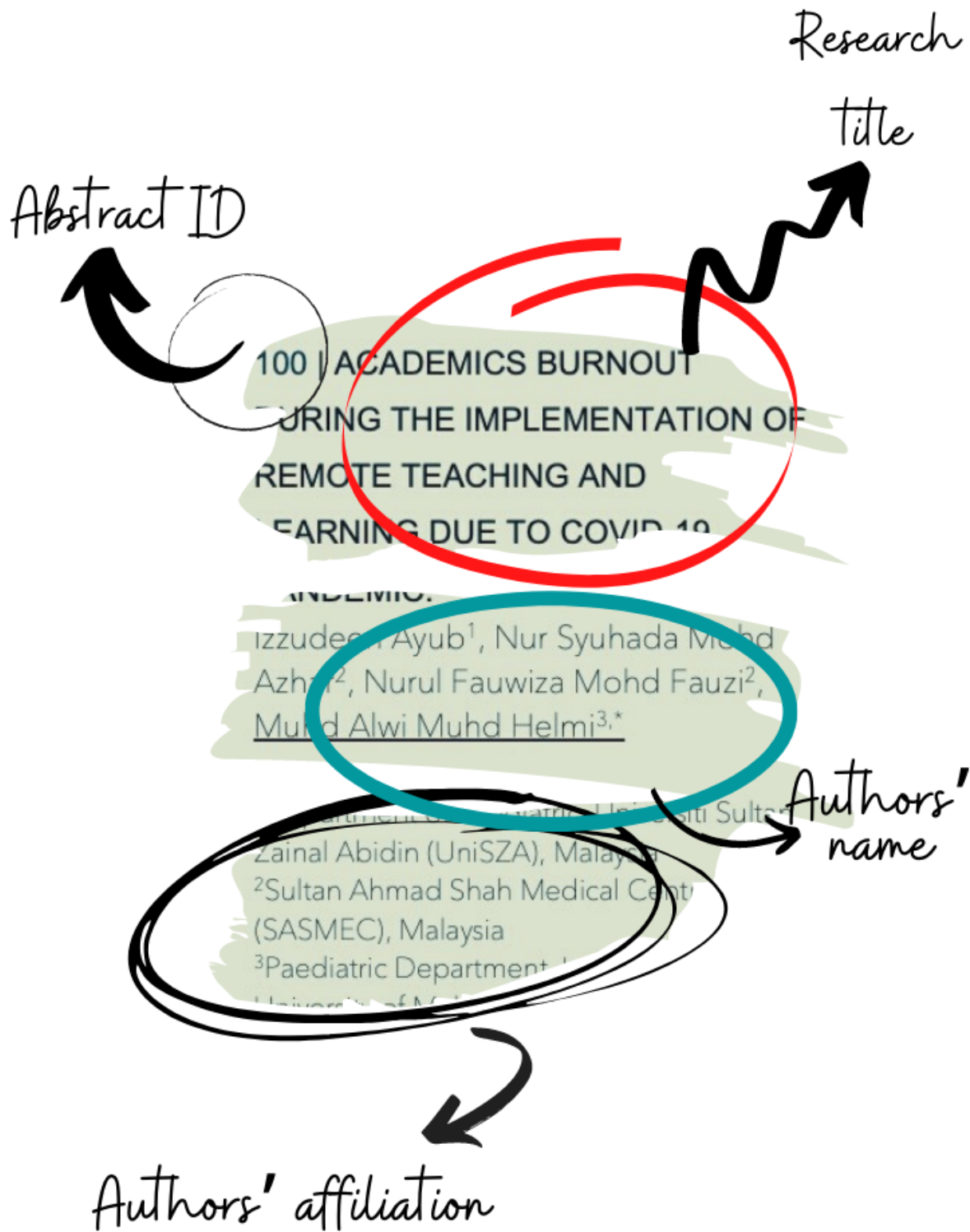
Meeting ID: 936 8311 4870

Passcode: 251183

<http://tiny.cc/irdk2021>



The anatomy of the presentation list



LIST OF PRESENTATIONS

100 | ACADEMICS BURNOUT DURING THE IMPLEMENTATION OF REMOTE TEACHING AND LEARNING DUE TO COVID-19 PANDEMIC.

Izzudeen Ayub¹, Nur Syuhada Mohd Azhar², Nurul Fauwiza Mohd Fauzi², Muhd Alwi Muhd Helmi^{3,*}

¹Department of Paediatric, Universiti Sultan Zainal Abidin (UniSZA), Malaysia

²Sultan Ahmad Shah Medical Centre (SASMEC), Malaysia

³Paediatric Department, International Islamic University of Malaysia (IIUM), Malaysia

101 | FORECASTING MODEL OF AIR POLLUTION INDEX USING GENERALIZED AUTOREGRESSIVE CONDITIONAL HETEROSKEDASTICITY FAMILY (GARCH) FOR INTEGER VALUE.

Nurul Asyikin Zamrus¹, Mohd Hirzie Mohd Rodzhan^{2*}, Nurul Najihah Mohamad³

^{1,2,3}Department of Computational and Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

102 | IN VITRO CYTOTOXICITY ANALYSIS OF BIOCERAMIC ROOT CANAL SEALERS ON HUMAN GINGIVAL FIBROBLAST CELLS AND HUMAN OSTEOBLAST-LIKE CELLS.

Siti Aisyah Nadirah Ja'apar¹, Solachuddin Jauhari Arief Ichwan², Musliana Mustaffa^{3,*}

¹Department of Biotechnology, Kulliyah of Sciences, International Islamic University Malaysia (IIUM), Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200, Kuantan, Pahang, Malaysia

²Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry (KOD), IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200, Kuantan, Pahang, Malaysia

³Department of Restorative Dentistry, KOD, IIUM, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200, Kuantan, Pahang, Malaysia

103 | SUBCUTANEOUS ULCERATED NODULE REFRACTORY TO ANTIBACTERIAL TREATMENT

Wan Fatimah Suriyani Wan Mahmud¹, Mohammad Che' Man¹, Rasimah Ismail²

¹Department of Family Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Malaysia.

²Department of Internal Medicine (Dermatology), Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Malaysia.



**104 | DiMaCe: DIGITAL
MANAGEMENT OF CEMETERY.**

Nurul Farahain Mohammad¹, Azaima Razali², Hafizah Bahaludin³

^{1,3}Department of Computational and Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang

²Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang

**105 | AUGMENTATION OF
STRUCTURAL BONE ALLOGRAFT
INCORPORATION IN LARGE
CORTICAL LOAD-BEARING BONE
DEFECT WITH NON-
VASCULARIZED AUTOGENOUS
PERIOSTEUM TRANSPLANTATION.**

Azuhairy Azid^{1,2}, Mohd Ariff Sharifudin^{2,3*}, Zulmi Wan², Mohd Shafie Abdullah⁴, Hasnan Jaafar⁵

¹Department of Orthopaedics, Penang General Hospital, Malaysia

²Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

³Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

⁴Department of Radiology, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

⁵Department of Pathology, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

**106 | MEDIAL FLAP OF THE FOOT
AS A SURGICAL OPTION FOR SOFT
TISSUE COVERAGE FOLLOWING
TRANSMETATARSAL AMPUTATION:
A CASE REPORT.**

Mohd Ariff Sharifudin^{1,2*}, Nor Azman Mat Zin²

¹Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

²Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

**107 | GENESIS OF
OSTEOSARCOMA AND SYMPTOM
INTERVAL FOLLOWING HIGH-
ENERGY TRAUMA: A REPORT OF
THREE CASES.**

Mohd Ariff Sharifudin^{1,2*}, Wan Faisham Wan Ismail², Khaw Yam Chuan², Khairil Amir Sayuti³

¹Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

²Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

³Department of Radiology, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

108 | NON-VASCULARIZED AND VASCULARIZED ILIAC BONE GRAFTING FOR RECONSTRUCTION FOLLOWING CALCANEAL TUMOUR RESECTION

Mohd Ariff Sharifudin^{1,2}, Wan Faisham Wan Ismail², Wan Azman Wan Sulaiman³, Nor Azman Mat Zin², Sahran Yahaya²

¹Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

²Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

³Reconstructive Sciences Unit, School of Medical Sciences, Universiti Sains Malaysia, Malaysia

109 | CAN 2D:4D RATIO PREDICT THE RISK OF DEVELOPING TIBIOFEMORAL OSTEOARTHRITIS IN WOMEN?.

Zain Ab Rahman¹, Mai Nurul Ashikin Taib², Mawardi Mustapha¹, Mohd Ariff Sharifudin²

¹Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia ²Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

110 | DEVELOPMENT AND VALIDATION OF THE HOSPITALIZED MUSLIM TRAUMA PATIENTS IBADAH DISABILITY SCALE (HM[T]-IDS)

Mai Nurul Ashikin Taib¹, Mohd Ariff Sharifudin¹, Nor Azree Ferdaus Kamudin¹, Nordin Simbak¹

¹Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

111 | FINANCIAL NETWORK (FiNe): A WEB APPLICATION TO ASSIST INVESTORS IN AVOIDING HERDING BEHAVIOUR IN STOCK MARKET.

Hafizah Bahaludin¹, Mimi Hafizah Abdullah², Nurul Farahain Mohammad³, Azaima Razali⁴

^{1,2,3}Department of Computational and Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang

⁴Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang

112 | INTERNAL VERSUS EXTERNAL HEMIPELVECTOMY: AN ACCOUNT ON FOUR CASES OF PARADOXICAL LOSSES.

Mohd Ariff Sharifudin^{1,2}, Wan Faisham Wan Ismail², Zulmi Wan², Nor Azman Mat Zin²

¹Faculty of Medicine, Universiti Sultan Zainal Abidin, Malaysia

²Department of Orthopaedics, School of Medical Sciences, Universiti Sains Malaysia, Malaysia



113 | IMPLICATIONS OF CLIMATE VARIABILITY ON DENGUE CASES IN PAHANG.

Isnizam Sapuan¹, Noor Artika Hassan¹, Razman Mohd Rus¹, Edre Mohammad Aidid¹

¹Department of Community Medicine, Kulliyah of Medicine, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

114 | THE EFFECTIVENESS OF OBTURATION WITH GUTTAFLOW BIOSEAL IN SINGLE ROOTED MANDIBULAR PREMOLARS: A SCANNING ELECTRON MICROSCOPY STUDY.

Musliana Mustaffa¹, Imran Zainal Abidin¹, Mohamad Shafiq Mohd Ibrahim²

¹ Department of Restorative Dentistry, Kulliyah of Dentistry (KOD), International Islamic University Malaysia (IIUM), Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia.

²Department of Dental Public Health, KOD, IIUM, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia.

115 | VALIDITY AND RELIABILITY OF MALAY BREAST CANCER AWARENESS SCALE FOR MALE TO FEMALE TRANSGENDER..

Hezlin Md Zin¹, Samsul Draman¹, Shaiful Ehsan Shalihin¹, Razman Mohd Rus¹

¹International Islamic University Malaysia, Malaysia

116 | SHORT-TERM ANALYSIS OF SHORELINE CHANGES DETECTION ALONG PAHANG COASTLINE, MALAYSIA: AN APPLICATION OF DIGITAL SHORELINE ANALYSIS SYSTEM (DSAS).

Muhammad Mazmirul Abd Rahman¹, Muhammad Zahir Ramli², Mohd Shahrizal Ab Razak³, Siti Ayishah Thaminah Hikmatullah Sahib¹, Muhammad Afiq Azman¹

¹Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, 252500, Kuantan, Pahang, Malaysia.

²Institute of Oceanography and Maritime Studies (INOCEM), International Islamic University Malaysia, Kampung Cherok Paloh, 26060, Kuantan, Pahang, Malaysia.

³Faculty of Engineering, Universiti Putra Malaysia, 43400 Serdang, Malaysia.

117 | DECIPHERING THE ACTION OF POLYMYXINS ON PENTOSE PHOSPHATE PATHWAY METABOLISM IN *ACINETOBACTER BAUMANNII*: A METABOLITE-BASED TARGET TOWARDS SAFE ANTIBIOTIC TREATMENT.

Khairunnisa Mohd Kamal¹, Mohd Hafidz Mahamad Maifiah^{1*}, Yumi Zuhanis Has-Yun Hashim¹, Muhamad

Shirwan Abdullah Sani¹, Nusaibah Abdul Rahim²

¹International Institute for Halal Research and Training, Level 3, KICT Building, International Islamic University Malaysia, 53100, Jalan Gombak, Selangor, Malaysia

²Faculty of Pharmacy, University of Malaya, 50603 Kuala Lumpur, Malaysia

118 | A CLASS OF GEOMETRIC QUADRATIC STOCHASTIC OPERATOR GENERATED BY 3-MEASURABLE PARTITION.

Siti Nurlaili Karim¹, Nur Zatul Akmar Hamzah¹, Nasir Ganikhodjaev²

¹ Department of Computational and Theoretical Sciences, Kulliyah of Science, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

² Institute of Mathematics, Academy of Sciences of Uzbekistan, Tashkent, Uzbekistan

119 | CAN THE STBUR QUESTIONNAIRE BE USEFUL IN THE PREOPERATIVE DETECTION OF CHILDREN WITH UNDIAGNOSED SLEEP DISORDERED BREATHING? AN OBSERVATIONAL STUDY.

Durgalakshmi Naidu¹, Najibah Syakirah Ab Rahman¹, Saw Yee Horng¹, Soo Ki Yang¹, Tan Choon Huat¹, Nurfatimah Alias¹, Rozilah @ Abdul Hadi Bin Mohamed¹

¹ Sultan Ahmad Shah Medical Centre @ International Islamic University of Malaysia, Kuantan, Pahang, Malaysia

120 | AUTHENTICATION, EXTRACTION AND I_{c50} DETERMINATION OF *EURYCOMA IONGIFOLIA* JACK (TONGKAT ALI) ROOT EXTRACT ON FIBROBLASTS.

Maryam Riyadh YASEEN¹, Ghasak G.FAISAL², Azliana ABD FUAAT¹, Khairunisa Ahmad AFFANDI¹

1. Kulliyah of Medicine, International Islamic University Malaysia, 25200 Pahang, Malaysia

2. Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Pahang, Malaysia

121 | SAFETY PERCEPTION OF HOME-BASED FOOD PRODUCTS IN MALAYSIA.

Ibrahim Bin Abu Bakar^{1,2}, Norfatin Nabila Mohd Azmi¹, Nor Syamimi Mohd Shahizi¹, Hermy Bin Mohd Yeet²

¹ Department of Nutrition Sciences, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Jalan Sultan Ahmad Shah, Kuantan, Pahang, Malaysia.

²International Institute of Halal Research, International Islamic University Malaysia, Jalan Gombak, Selangor, Malaysia.

122 | LOWER TRAPEZIUS TENDON TRANSFER FOR SHOULDER INSTABILITY IN TRAUMATIC BRACHIAL PLEXUS INJURY : A CASE REPORT.

Hazwan AW, ¹Khairul Nizam S, ²Akmal Azim AA, ¹Raffael I, ¹Kamarul Ariffin K



¹ Department of Orthopaedics, Traumatology and Rehabilitation, Kulliyah (Faculty) of Medicine, International Islamic University, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia

² Plastic & Reconstructive Surgery Unit, Kulliyah (Faculty) of Medicine, International Islamic University, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia

123 | PREVALENCE OF ERECTILE DYSFUNCTION AND ITS ASSOCIATED FACTORS AMONG MEN IN GOVERNMENT HEALTH CLINICS IN KUANTAN, PAHANG: PRELIMINARY REPORT.

Wan Fatimah SWM¹, Mohammad CM¹, Muhammad Zubir Y², Shahidah CA³, Islah Munjih AR³, Iskandar Firzada O⁴

¹Department Of Family Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Indera Mahkota Campus, Pahang, Malaysia.

²Department Of Community Medicine Kulliyah of Medicine, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Pahang, Malaysia

³Department Of Surgery, Kulliyah of Medicine, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Pahang, Malaysia.

⁴Klinik Kesihatan Jaya Gading Kuantan, Pahang, Malaysia

124 | ESTIMATION OF GONAD DOSE FOR DIFFERENT ABDOMINAL THICKNESS IN ANTEROPOSTERIOR (AP) ABDOMINAL RADIOGRAPHY USING OPTICALLY STIMULATED LUMINESCENCE DOSIMETER (OSLD): A PHANTOM STUDY.

Inayatullah Shah Sayed¹, Hajar Fatimah Mohd Yasin¹

¹Department of Diagnostic Imaging and Radiotherapy, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, Malaysia

126 | CAN TENDER AND MATURE COCONUT WATER-MIXED CONTRAST MEDIA PROVIDE A DIAGNOSTICALLY ACCEPTABLE RADIOGRAPH?

Inayatullah Shah Sayed¹, Nur Suhaili Syahirah Mohd Salleh¹, Syed Waliullah Shah²

¹Department of Diagnostic Imaging and Radiotherapy, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan Campus, 25200 Kuantan, Pahang, Malaysia

²Stanford International College, 1011 Eglinton Avenue East, Mississauga, ON L4W 1K4, Canada

127 | INTRAPERITONEAL INJECTION AS AN EFFECTIVE AND AFFORDABLE METHOD OF DRUG DELIVERY INTO ADULT ZEBRAFISH.

Khairiah Razali^{1*}, Mohd Hamzah Mohd Nasir², Noratikah Othman³, Abd Almonem Doolaanea⁴, Jaya Kumar⁵, Wael M. Y. Mohamed^{1,6}

¹Department of Basic Medical Sciences, Kulliyah of Medicine, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

²Department of Biotechnology, Kulliyah of Sciences, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

³Department of Basic Medical Sciences, Kulliyah of Nursing, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

⁴Department of Pharmaceutical Technology, Kulliyah of Pharmacy, International Islamic University Malaysia (IIUM), Kuantan, Pahang, Malaysia

⁵Department of Physiology, Faculty of Medicine, UKM Medical Centre (UKMMC), Kuala Lumpur, Malaysia

⁶Clinical Pharmacology Department, Menoufia Medical School, Menoufia University, Menoufia, Egypt

128 | GAUSSIAN FUNCTION ON SOLITON SCATTERING OF GENERALIZED NONLINEAR SCHRÖDINGER EQUATION : VARIATIONAL ANALYSIS.

Nor Amirah Busul Aklan¹, Nor Nadira Amani Ramli², Bakhram Umarov³

^{1,2}Department of Computational & Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.

³Department of Physics, Kulliyah of Science, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia.

129 | MODELLING APPROACH IN ASSESSING AND PREDICTING THE TRAJECTORY AND SPATIAL DISTRIBUTION OF FLOATING PLASTIC DEBRIS IN COASTAL WATER OF EAST COAST PENINSULAR .

M.A Azman¹, M Z Ramli², H-B Goh³, Z Zainol⁴

¹Department of Marine Science, International Islamic University Malaysia, Malaysia

²Institute of Oceanography and Maritime Studies (INOCEM), International Islamic University Malaysia, Malaysia

³Global Water Consultants Sdn Bhd, Malaysia

⁴Institute of Oceanography and Environment (INOS), Universiti Malaysia Terengganu, Malaysia

130 | THE ANTI-CANCER PROPERTIES OF *ARTOCARPUS HETEROPHYLLUS* (JACKFRUIT): A SYSTEMATIC REVIEW

Nurul Syamilah Abdul Razak, Muhamad Ashraf Rostam

Department of Nutrition Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Jalan Sultan



Ahmad Shah, Bandar Indera Mahkota,
25200 Kuantan, Pahang, Malaysia

**131 | LEAF ANATOMY AND
MICROMORPHOLOGY OF
MEDICINAL PLANT (*Acanthus
ebracteatus* Vahl.) FROM KUANTAN,
PAHANG..**

Siti Maisarah Zakaria, Che Nurul Aini
Che Amri*, Rozilawati Shahari

Department of Plant Science, Kulliyah of
Science, International Islamic University of
Malaysia, Jalan Sultan Ahmad Shah, Bandar
Indera Mahkota, 25200 Kuantan, Pahang,
Malaysia.

**132 | CHARACTERISTICS OF
COVID-19 PATIENTS ADMITTED TO
INTENSIVE CARE UNIT AND ITS
RELEVANT TREATMENT: A
RETROSPECTIVE CROSS-
SECTIONAL STUDY IN TERTIARY
HOSPITALS IN MALAYSIA.**

Nurul Syafiqah Othman¹, Che Suraya
Zin¹, Nor Hidayah Mohd Taufek¹,
Ahmad Kashfi Ab Rahman², Wirdatul
Ainna Jamaluddin³

¹Department of Pharmacy Practice,
International Islamic University Malaysia,
Kuantan, Pahang, Malaysia

²Department of Medical, Hospital Sultanah
Nur Zahirah, Kuala Terengganu,
Terengganu, Malaysia

³Department of Multidisciplinary, Hospital
Hulu Terengganu, Terengganu, Malaysia

**133 | MICROSURGICAL REPAIR FOR
IATROGENIC SPINAL ACCESSORY
NERVE INJURY IN A CHILDREN: A
CASE REPORT.**

Khairul Nizam¹, M Firdaus¹, Akmal
Azim²

¹ Dept. of Orthopaedic Surgery and
Rehabilitation, Sultan Ahmad Shah
Medical Centre, Kuantan, Pahang,
Malaysia

² Plastic and Reconstructive Unit, Dept.
of Surgery, Sultan Ahmad Shah
Medical Centre, Kuantan, Pahang,
Malaysia

**134 | BARBED VERSUS
CONVENTIONAL SUTURES: SHORT
TERM CLINICAL OUTCOMES IN
POST OPERATIVE TOTAL KNEE
ATHROPLASTY.**

Mohd Shahir Aziz

**135 | DEVELOPMENT OF CHITOSAN
LOADED METRONIDAZOLE
NANOPARTICLE AS STABLE LOCAL
DRUG DELIVERY FOR
PERIODONTAL TREATMENT.**

Nora Azirah Mohd Zayi¹, Muhammad
Lutfi Mohamed Halim², Mohd Yusof
Mohamad^{1,2}, Ahmad Fahmi Harun^{1,2},
Mohd Hafiz Arzmi^{2,3}

¹Department of Physical Rehabilitation
Sciences, Kulliyah of Allied Health Science,
International Islamic University Malaysia,

Kuantan Campus, 25200 Kuantan, Pahang, Malaysia.

²Cluster of Cancer Research Initiative IIUM (COCR II), International Islamic University Malaysia, Kuantan Campus, 25200, Kuantan, Pahang, Malaysia.

³Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry, International Islamic University Malaysia, Kuantan Campus, 25200, Kuantan, Pahang, Malaysia,

136 | ASSOCIATION BETWEEN MATERNAL PSYCHOLOGICAL DISTRESS AND SMALL-FOR-GESTATIONAL-AGE

A. Abd Manaf¹, M.K. Al-Kubaisi², K.H. Abd Aziz³

¹International Islamic University of Malaysia, Malaysia

²International Islamic University of Malaysia, Malaysia

³International Islamic University of Malaysia, Malaysia

137 | THE DEFINITION OF DEATH IN ISLAMIC AND MEDICAL PERSPECTIVES.

Faizatul Najihah binti Mohd Azaman¹, Ariff bin Osman², Sayed Sikandar Shah Haneef³ Che Anuar bin Che Mohammad

¹ Department of Fiqh and Usul Fiqh, International Islamic University Malaysia, Gombak.

² Department of Anaesthesiology and Intensive Care, International Islamic University Malaysia, Kuantan.

³ Department of Fiqh and Usul Fiqh, International Islamic University Malaysia, Gombak.

⁴ Department of Basic Medical Sciences, International Islamic University Malaysia, Kuantan.

139 | MORPHOMETRIC VARIATIONS AMONG NEMIPTERUS SPECIES FROM PAHANG COASTAL WATER.

U F Daud Laksamana¹, M M Rahman¹, S W Abdurahman¹

¹Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, Malaysia.

140 | MICRONUTRIENT SUPPLEMENTS EFFECTS ON QUALITY OF SPERM IN INFERTILE MAN: A COMPARISON BETWEEN PROFORTIL AND SURBEX ZINC IN HOSPITAL TUNKU AZIZAH KUALA LUMPUR.

Nazurah Abdul Malik

141 | DOES FLAXSEED EXTRACT AFFECTS OSTEOBLAST DIFFERENTIATION POTENTIAL OF SHED VIA MODULATION OF WNT SIGNALLING PATHWAY- ASSOCIATED MOLECULES?

Khairani Idah Mokhtar^{1*}, Nur Sazwi Nordin², Basma Ezzat Mustafa¹, Widya Lestari¹, Solachuddin Jauhari Arief Ichwan¹, Deny Susanti Darnis³, TP Kannan⁴, Azlina Ahmad⁴



¹Kulliyah of Dentistry, International Islamic University Malaysia, Kuantan Campus, Pahang, MALAYSIA.

²Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan Campus, Pahang, MALAYSIA.

³Kulliyah of Science, International Islamic University Malaysia, Kuantan Campus, Pahang, MALAYSIA.

⁴School of Dental Sciences, Universiti Sains Malaysia, Health Campus, Kubang Kerian, Kelantan, MALAYSIA.

142 | FORMULATING A STANDARD DIETARY PROTEIN TO CARBOHYDRATE RATIO FOR LABORATORY ZEBRAFISH.

Raja Ibrah Raja Idris¹, Norhidayah Mohd Taufek², Noor Faizul Hadry Noordin¹, Nurhidayu Alsaari^{1*}

¹International Institute for Halal Research and Training (INHART), International Islamic University Malaysia (IIUM), Gombak Campus, 53100, Selangor, Malaysia

²AquaNutri Biotech Research Laboratory, Institute of Biological Sciences, Faculty of Science, University of Malaya, 50603, Kuala Lumpur, Malaysia

143 | THE DEVELOPMENT OF PROGRAM LATIHAN AUDITORI MELAYU (PLAM) FOR POST-LINGUAL HEARING-IMPAIRED POPULATION: A PRELIMINARY FINDINGS.

Juliana Aminah Marhaban¹, Sarah Rahmat^{1*}, Nor Azrita Mohamed Zain¹ and Ahmad Aidil Arafat Dzulkarnain¹

¹Department of Audiology and Speech-Language Pathology, Kulliyah of Allied Health Sciences, International Islamic

University Malaysia (IIUM) Kuantan, Pahang, Malaysia.

144 | THE CHALLENGE OF PRIMARY REPAIR OVER T-TUBE FOR IATROGENIC OESOPHAGEAL PERFORATION: SASMEC EXPERIENCE

AL M. Danial¹, A. Azrin Waheedy¹, S. Mat Salleh¹, H. Azmi², KA Kairina Adliah²

¹Sultan Ahmad Shah Medical Centre, International Islamic University of Malaysia, Kuantan, Pahang, Malaysia

²Hospital Sultan Haji Ahmad Shah, Temerloh, Pahang, Malaysia

145 | SWAT ANALYSIS FOR INTEGRATED COASTAL ZONE MANAGEMENT (ICZM) IN LANGKAWI ISLAND.

Nur Suhaila, M.R.¹, Zuhairi, A.^{2*}, Nur Syahira Azlyn, A.³, and Mohd Zaini, M.⁴

Remote Sensing, GIS, and Physical Oceanography Modelling Laboratory Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200, Kuantan, Pahang, Malaysia.

146 | CONSUMER GRADE DRONE VS THEODOLITE: COMPARING THE DIGITAL ELEVATION MODEL (DEM) FOR BEACH TOPOGRAPHY SURVEYS.

Muhammad Idzham Helmi Mohd Jinah¹, Zuhairi Ahmad^{*1}, Mohd Zaini Mustapa¹, Aiman Hisyam Azmi¹, Muhammad Amiruddin Zulkifli¹, Affendi Yang Amri², Jillian Ooi Lean Sim³, Zaleha Kassim⁴, Razak Zakariya⁵, Albert Apollo Chan⁶, and Muhammad Khairulanwar Rosli⁷

¹Remote Sensing, GIS and Physical Oceanography Laboratory, Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, Bandar Indera Mahkota, 25200 Kuantan, Pahang.

²Institute of Ocean and Earth Sciences, University of Malaya, Kuala Lumpur, 50603, Malaysia.

³Department of Geography, Faculty of Arts and Social Sciences, University of Malaya, Kuala Lumpur, Malaysia

⁴International Institute for Halal Research and Training (INHART), Level 3, KICT Building, International Islamic University Malaysia, 53100 Jalan Gombak, Selangor, Malaysia.

⁵School of Marine and Environmental Sciences, Universiti Malaysia Terengganu, 21030 Kuala Terengganu, Terengganu, Malaysia.

⁶Department of Marine Park Malaysia, Ministry of Natural Resources and Environment, 62574 Putrajaya, Malaysia

⁷Institute of Oceanography and Maritime Studies, Kulliyah of Science, International Islamic University Malaysia, Jalan Istana,

Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia.

147 | DIRECT IDENTIFICATION OF ANATOMICAL LANDMARKS TO LOCATE SECOND MESIOBUCCAL CANAL OF MAXILLARY FIRST MOLARS: AN IN-VITRO STUDY

Muhamad Sharifuddin b Mat Daud, Muhd Firdaus b Che Musa, Muhammad Bazli bin Ismail, Muhammad Afiq Aiman bin Mohd Arifin

Kulliyah of Dentistry, International Islamic University Malaysia

149 | MICROPLASTICS EVALUATION IN ROCK OYSTER FROM ROCKY SHORE IN BATU PAHAT, JOHOR AND ITS IMPACT TOWARDS HUMAN HEALTH.

M.G Intan¹, M.M. Fuad², A. Razali³, N.A Hassan⁴

¹Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, Malaysia

²Institute of Oceanography and Maritime Studies (INOCEM), International Islamic University Malaysia, Malaysia

³Department of Chemistry, Kulliyah of Science, International Islamic University Malaysia, Malaysia

⁴Department of Community Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Malaysia



150 | THE EFFECT OF RETINOIC ACID ON NON-ALCOHOLIC FATTY LIVER DISEASE (NAFLD) MODEL.

Nawal Ahmed Mohamed¹, Zunariah Buyong¹, Nor Zamzila Abdullah¹, Asmah Hanim Hamdan¹, Jamalludin Ab. Rahman¹, Sirajudeen Kuttulebbai, Naina Mohamed Salam¹, Noraihan Mat Harun¹, Aung Win Tun².

¹International Islamic University Malaysia, Malaysia

²Mahidol University, Thailand

151 | THE POTENTIAL OF INVENTORI LAPORAN MASALAH PENDENGARAN (ILAMP) TO BE USED AS A HEARING SCREENING TOOL AMONG MALAYSIAN

Najihah Amir¹, Sarah Rahmat^{1*}, Marina Alisaputri Lamri¹

¹Department of Audiology & Speech-Language Pathology, Kulliyah of Allied Health Sciences, International Islamic University Malaysia (IIUM) Kuantan, Pahang, Malaysia

152 | THE MINIMUM SPANNING TREE OF SHARIAH-COMPLIANT STOCK OF TECHNOLOGY SECTOR ON BURSA MALAYSIA DURING COVID-19 PANDEMIC

E. Nazir¹, H Bahaludin¹

¹Department of Computational and Theoretical Sciences, Kulliyah of Science, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Jalan

Sultan Ahmad Shah, 25200 Kuantan, Pahang, Malaysia.

153 | NUMERICAL MODELLING OF COASTAL STRUCTURE USING SPH-based DualSPHysics MODEL.

S. A. T. Hikmatullah Sahib¹, M. Z. Ramli², M. F. Miskon², K. Yunus¹, E. H. Ariffin³, M. H. Jeofry³

¹Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia, Malaysia

²Institute of Oceanography and Maritime Studies (INOCEM), International Islamic University Malaysia, Malaysia

³Faculty of Science and Marine Environment, Universiti Malaysia Terengganu, Malaysia

154 | PRELIMINARY STUDY ON THE EFFECTS OF TUALANG HONEY AND ITS SILVER NANOPARTICLES ON KAINIC ACID MEDIATED HIPPOCAMPAL EXCITOTOXICITY AND MEMORY IMPAIRMENTS IN MALE RATS.

Hidani Hasim¹, Sirajudeen Kuttulebbai Naina Mohamed Salam², Pasupuleti Visweswara Rao³, Sangu Muthuraju⁴, Mohd Asnizam Asari⁵

¹Department of Chemical Pathology, School of Medical Sciences, Universiti Sains Malaysia, Health Campus, 16150 Kubang Kerian, Kota Bharu, Kelantan, Malaysia.

²Department of Basic Medical Sciences, Kulliyah of Medicine, International Islamic University Malaysia, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia.

³Department of Biomedical Sciences and Therapeutics, Faculty of Medicine and Health Sciences, Universiti Malaysia Sabah, 88400, Kota Kinabalu, Sabah, Malaysia.

⁴Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Houston, Houston 77240, TX, United States of America.

⁵Department of Anatomy, School of Medical Sciences, Universiti Sains Malaysia, Health Campus, 16150 Kubang Kerian, Kota Bharu, Kelantan, Malaysia.

155 | A NOVEL TECHNIQUE IN PREVENTING SUCTION LOSS IN FEMTO-LASIK AND RELEX SMILE.

Muhd-Syafi AB^{1,2}, Salman Morhalim², Aminul-Hakim SS², Khairidzan Mohd Kamal^{1,2}

¹ Kulliyah of Medicine, International Islamic University Malaysia, Bandar Indera Mahkota Campus, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang

² Department of Ophthalmology, Sultan Ahmad Shah Medical Centre @IIUM, Jalan Sultan Ahmad Shah, 25200 Kuantan, Pahang

156 | DISINFECTION PROTOCOLS OF IRREVERSIBLE HYDROCOLLOID: EFFECT ON CANDIDA COUNT AND DIMENSIONAL ACCURACY.

Nur Dini Ahmad Zawawi¹, Nur Farah Athirah Muhammad¹, Norfaezah Ahmad², Siti Hajjar Nasir², Mohd Hafiz Arzmi²

¹ Students, Kulliyah of Dentistry IIUM, Malaysia

² Lecturer, Kulliyah of Dentistry IIUM, Malaysia

157 | USING THE RASCH MODEL TO VALIDATE AND ENHANCE THE INTERPRETATION OF THE DIAGNOSTIC TEST ON OPERATION OF INTEGERS.

Zulmaryan Embong¹, Madihah Khalid¹

International Islamic University Malaysia

158 | COMPARISON OF ILLICIT AND NON-ILLICIT CIGARETTE SOLD IN URBAN AND SUB URBAN AREA IN KUANTAN, PAHANG.

Zurainie Abllah¹, Mohd Helmi Mohd Hamdan², Muhammad Luqman Muhammad Nazmi²

¹Lecturer, Dental Public Health Unit, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia

²Students, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia

160 | BENIGN BONE TUMOURS IN CHILDREN TREATED BY ILIZAROV.

Md. Mofakhkharul Bari

161 | INFECTED BIG GAP NONUNION OF FEMUR AND TIBIA.

Md. Mofakhkharul Bari



162 | CLINICAL STUDIES OF ORAL HEALTH INTERVENTION DELIVERY METHOD IN CHILDREN: A SCOPING REVIEW.

Siti Sarah Ayub^{1*}, Mohd Zulkarnain Sinor¹, Basaruddin Ahmad¹, Sarliza Yasmin Sanusi¹

¹School of Dental Sciences, Health Campus, Universiti Sains Malaysia, 16150 Kubang Kerian, Kelantan, Malaysia

163 | WATER RECLAMATION FROM OIL PALM EFFLUENT USING INTEGRATED ELECTROCOAGULATION MEMBRANE PROCESS.

Amina Tahreen^{1*}, Mohammed Saedi Jami¹, Fathilah Ali¹

¹International Islamic University Malaysia, Malaysia

164 | MICROPLASTICS IN ROCKY OYSTER (*SACCOSTREA CUCULLATA*) ALONG SHORELINE OF PAHANG, MALAYSIA.

Wan Siti Mardhiah¹, Mohd Fuad Miskon^{2*}, Azaima Razali³, Noor Artika Hassan⁴

¹Department of Marine Science, Kulliyah of Science, International Islamic University Malaysia (IIUM), Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, 25200 Kuantan, Pahang, Malaysia

²Institute of Oceanography and Maritime Science (INOCEM), Kulliyah of Science, IIUM Kuantan

³Department of Chemistry, Kulliyah of Science, IIUM Kuantan

⁴Department of Community Medicine, Kulliyah of Medicine, IIUM Kuantan

165 | 3D FACIAL DIMENSIONS AND RESPIRATOR FIT STATUS AMONG MALAYSIAN WORKERS.

Amalia Sakina Mohd Shahrom¹, Muhammad Zubir Yusof^{1*}, Razman Mohd. Rus¹, Jamalludin Ab. Rahman¹, Mohd. Zulfaezal Che Azemin², Ibrahim Adham Taib³

¹Department of Community Medicine, Kulliyah of Medicine, International Islamic University Malaysia, Kuantan, Pahang, Malaysia

²Department of Optometry and Visual Science, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, Malaysia

³Department of Biomedical Science, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Kuantan, Pahang, Malaysia

166 | EFFECTS OF VITAMIN A ON LIVER TRIGLYCERIDES LEVEL IN HIGH CHOLESTEROL DIET-INDUCED STEATOSIS RAT MODEL.

Khalid Jan Rezayee¹, Noraihan Mat Harun^{1*}, Sirajudeen Kuttulebbai Naina Mohamed Salam¹, Nor Zamzila Binti Abdullah², Zunariah Buyong¹, Nawal Ahmad¹

¹Department of Basic Medical Science, Kulliyah of Medicine, International Islamic

University Malaysia, 25200, Kuantan, Pahang, Malaysia

²Department of Pathology and Laboratory Medicine, Kulliyah of Medicine, International Islamic University Malaysia, 25200, Kuantan, Pahang, Malaysia

167 | EFFECTS OF LOW-INTENSITY PULSED ULTRASOUND ON KNEE RANGE OF MOTION OF PATIENTS WITH TOTAL KNEE ARTHROPLASTY AFTER CONTROLLING FOR POSTOPERATIVE PAIN.

Munayati Munajat^{1*}, Nor Azlin Mohd Nordin², Ahmad Hafiz Zulkifly³, Nor Hamdan Mohamad Yahaya²

¹International Islamic University Malaysia, Malaysia

²Universiti Kebangsaan Malaysia, Malaysia

³Sultan Ahmad Shah Medical Centre@IIUM, Malaysia

168 | THE EFFECT OF PROLONGED FIXATION TIME ON HAEMATOXYLIN & EOSIN STAINING QUALITY OF RATS COLON AND PLACENTA TISSUE.

Hazulin Mohd Radzuan¹, Shahida Saharudin¹, Wan Fatein Nabeila Wan Omar², Nour El Huda Abdul Rahim³, Mohd Dhiyaulhaq Halim¹.

¹Anatomy Unit, Department of Basic Medical Sciences, Kulliyah of Medicine,

International Islamic University Malaysia, Malaysia.

²Physiology Unit, Department of Basic Medical Sciences, Kulliyah of Medicine, International Islamic University Malaysia, Malaysia.

³Pharmacology Unit, Department of Basic Medical Sciences, Kulliyah of Medicine, International Islamic University Malaysia, Malaysia..

169 | ASSESSMENT OF SAFE DOSE IN PRECLINICAL STUDIES OF P. MACROCARPA FRUIT EXTRACT USING SUBCRITICAL CARBON DIOXIDE.

Abdur Rashid¹, Zaidul Islam Sarker², ABM Helal Uddin¹, Sahena Ferdosh³, Qamar Uddin Ahmed¹

¹Kulliyah of Pharmacy, International Islamic University Malaysia (IIUM), Kuantan campus, 25200 Kuantan, Pahang Malaysia

²Cooperative Research, Extension, and Education Services (CREES), Northern Marianas

College, Saipan MP 96950, USA

³Kulliyah of Science, International Islamic University Malaysia (IIUM), Kuantan campus, Kuantan 25200, Pahang, Malaysia

170 | PULPAL AND PERIAPICAL DISEASE ON CROWNED VITAL TEETH: A PROSPECTIVE MATCHED COHORT STUDY.

Sabrina Mohamed Khazin^{1*}, Dalia Abdullah², Amy Liew Kia Cheen³

¹Restorative Department, Kulliyah of Dentistry, International Islamic University Malaysia, Malaysia

²Centre for Restorative Dentistry, Faculty of Dentistry, Universiti Kebangsaan Malaysia, Malaysia



³Centre for Family Dental Health, Faculty of Dentistry, Universiti Kebangsaan Malaysia, Malaysia

171 | INVESTIGATING THE ROLE OF PIP4K IN P53-INACTIVATED CANCERS.

Shidqiyyah Abdul-Hamid^{1,2} and Nullin Divecha²

¹Department of Basic Medical Sciences for Nursing, Kulliyah of Nursing, International Islamic University Malaysia, Malaysia

²Inositide Laboratory, School of Biological Sciences, Faculty of Environmental and Life Sciences, University of Southampton, United Kingdom

172 | PREVALENCE OF INTERNET ADDICTION AMONG MEDICAL AND NON-MEDICAL STUDENTS OF INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA (IIUM), Kuantan.

Azwanis Binti Abdul Hadi¹, Nurul Husna Azmi¹, Fatin Nadrah binti Azmi¹, Norshahida binti Jasmani¹, Fatin Salina binti Mohd Salim¹, Karimah Hanim binti Abd. Aziz²

¹Department of Family Medicine, International Islamic University Malaysia

²Department of Community Medicine, International Islamic University Malaysia

173 | CHRONIC COUGH AS AN INITIAL PRESENTATION OF SERONEGATIVE RHEUMATOID ARTHRITIS: A CASE REPORT.

Dr Nurul Husna binti Azmi¹, Dr Anifah binti A. Bakar², Dr Mohd Aznan bin Md³, Dr Norhayaty Sharman bt Khamis @ Roslee⁴

¹International Islamic University Malaysia, Malaysia

²International Islamic University Malaysia, Malaysia

³International Islamic University Malaysia, Malaysia

⁴Klinik Kesihatan Balok, Malaysia

174 | EVALUATING THE MANAGEMENT OF BUILDING CONSTRUCTION MATERIAL WASTE IN KURDISTAN REGION OF IRAQ.

Mahmood Muhammed Agha, Mohd Fairullazi Ayob, Mohd Shariffudin Ibrahim

Kulliyah of Architecture and Environmental Design, International Islamic University of Malaysia, 50728 Kuala Lumpur, Malaysia

175 | THE EFFECTS OF TUALANG HONEY WITH OR WITHOUT DIET MODIFICATIONS ON SPERM PROFILE IN HIGH CHOLESTEROL DIET INDUCTION ANIMAL MODEL.

Sakiinah Hasan¹, Roslina Abdul Rahim¹, Mohd Afzal Alias¹, Naznin Muhammad², Nor Zamzila Abdullah² & Redzuan Nul Hakim Abdul Razak³.

¹Department of Basic Medical Science, Kulliyah of Medicine, IIUM.

²Department of Pathology and Laboratory Medicine, Kulliyah of Medicine, IIUM.

³Department of Basic Medical Science, Kulliyah of Nursing, IIUM.

176 | RIGHT SIDED INFECTIVE ENDOCARDITIS MASQUERADING AS PULMONARY TUBERCULOSIS: A CASE REPORT.

Dr Azwanis Binti Abdul Hadi¹, Dr Khairun'naim Bin Khairuddin^{1,2}, Dr Mohd Nizamuddin Bin Ismail³.

¹International Islamic University Malaysia, Malaysia.

²University Malaysia Sabah, Malaysia.

³International Islamic University Malaysia, Malaysia.

177 | COMPARISON BETWEEN OCT AND FUNDUS PHOTOGRAPHY ON CUP-TO-DISC RATIO AND ARTERIOLAR-TO-VENULAR RATIO MEASUREMENTS.

Shah Farez Othman¹ and Ho Kang Guan²

¹Department of Optometry & Visual Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Malaysia.

²Faculty of Optometry & Vision Sciences, SEGi University, Malaysia.

178 | TRANSDISCIPLINARY RESEARCH FOR SUSTAINABILITY: VITAL ROLES OF RESEARCHERS
Asst. Prof. Dr. Nor Razinah Mohd. Zain

IIUM Institute of Islamic Banking and Finance, International Islamic University Malaysia,

179 | INADVERTENT VERTEBRAL ARTERY INJURY DUE TO CENTRAL VENOUS LINE CATHETERIZATION.

Wan Irfan W Mustapha¹, Ahmad Razali Bin Md Ralib @ Md Raghif²,

^{1,2}International Islamic University Malaysia, Malaysia

180 | THE SOUND-WORKING MEMORY TRAINING AS A NEW INTERVENTION FOR CHILDREN WITH ATTENTION DEFICIT HYPERACTIVITY DISORDERS SYMPTOMS.

Masnira Jusoh¹, Ahmad Aidil Arafat Dzulkarnain¹, Sarah Rahmat¹, Ramli Musa², Mohd Zulfaezal Che Azemin³

¹Department of Audiology & Speech-Language Pathology, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Malaysia

²Department of Psychiatry, Kulliyah of Medicine, International Islamic University Malaysia, Malaysia

³Department of Optometry and Visual Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, Malaysia

182 | A STUDY OF PROTOZOA DISTRIBUTION IN KUANTAN COASTAL AREAS.

*Yukinori Mukai¹, Anis Najiha Azmi¹

¹Kulliyah of Science, International Islamic University Malaysia



183 | CASE REPORT: A RARE INITIAL PRESENTATION OF GASTROINTESTINAL SYMPTOMS IN SYSTEMIC LUPUS ERYTHEMATOSUS.

Dr. Azwanis Abdul Hadi ¹, Dr. Nurul Akmal Abd Latip², Dr. Mohd Nizamuddin Ismail³

¹ International Islamic University Malaysia, Malaysia.
² International Islamic University Malaysia, Malaysia.
³ International Islamic University Malaysia, Malaysia.

184 | MADELUNG’S DISEASE: A CASE REPORT IN AN ASIAN PATIENT.

Dr Azwanis binti Abdul Hadi¹, Dr Nur Fiza Izrin binti Mohd. Sa’im²

¹International Islamic University Malaysia, Malaysia
²International Islamic University Malaysia, Malaysia

185 | PERCEPTION TOWARDS PERIODONTAL THERAPY DUE TO COVID-19 PANDEMIC AMONG PATIENTS ATTENDED IIUM PERIODONTAL CLINIC.

Juzaily Husain¹, Wan Nor Hayati Wan Abd Manan², Earah Natashah Mohd³, Syahirah Aisyah Kamaruzaman⁴, Syarifah Nur Sabrena Syed Abdul Raffar⁴

¹Lecturer, Periodontics Unit, Kulliyah of Dentistry, IIUM
²Lecturer, Prosthodontics Unit, Kulliyah of Dentistry, IIUM
³Lecturer, Special Care Dentistry Unit, Kulliyah of Dentistry, IIUM
⁴Students, Kulliyah of Dentistry, IIUM

186 | PREVALENCE OF BACTERIA ISOLATED FROM THE LIFT BUTTONS OF TWO HOSPITALS IN KUANTAN, PAHANG.

Izzati Muhammad¹, Raja Noor Zaliha Raja Abd Rahman³, Niza Samsuddin¹, Norhidayah Kamarudin², Norsyuhada Alias¹

¹Department of Biomedical Science, Kulliyah of Allied Health Sciences, International Islamic University Malaysia (IIUM), Malaysia
²Department of Pathology and Laboratory Medicines, Kulliyah of Medicine, IIUM, Malaysia
³Department of Microbiology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia, Malaysia

187 | DISTRIBUTION OF CASES ENCOUNTERED IN ORAL MEDICINE UNDERGRADUATE CLINIC: A RETROSPECTIVE ANALYSIS.

Ibrahim, N. R.¹, Mohd, F. N.¹ and Mohd Ali, M.N.H², Khalil. N.³, Sahar, N. H.³

¹Department of Oral Maxillofacial Surgery & Oral Diagnosis, Kulliyah of Dentistry, IIUM Kuantan Campus
²Department of Restorative Dentistry, Kulliyah of Dentistry, IIUM Kuantan Campus,
³Kulliyah of Dentistry, IIUM Kuantan Campus

190 | COMPARATIVE STUDY OF VARIOUS COOKING OIL TOWARDS HEATING AND STORAGE BY GC-MS, PEROXIDE VALUE AND CHEMOMETRICS APPROACH.

Maliza Azrain Sham Bt Mohd¹, Azmi¹, Prof. Dr. Hafizan Juahir²

^{1,2}East Coast Environmental Research Institute, Universiti Sultan Zainal Abidin (UNISZA), 21300, Kuala Terengganu, Terengganu, Malaysia

191 | PATTERN OF MEDICATION USE AMONG THE ELDERLY AT ONE NURSING CENTRE FOR TERMINALLY-ILL PATIENTS IN THE EAST COAST MALAYSIA: A CROSS-SECTIONAL STUDY.

Azlini Ismail^{1*}, Basma Ezzat Mustafa¹, Farah Natashah Mohd², Nazih Shaban Mustafa², Muhd Firdaus Che Musa³, Yunita Dewi Ardini³, Mohd Firdaus Akbar Abdul Halim⁴

¹Department of Fundamental Dental and Medical Sciences, Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

²Department of Oral Maxillofacial Surgery and Oral Diagnosis, Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

³Department of Paediatric Dentistry and Dental Public Health, Kulliyah of Dentistry, International Islamic University Malaysia, 25200 Kuantan, Pahang, Malaysia

⁴Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA Kelantan Branch, 15050 Kota Bharu, Kelantan, Malaysia

192 | IIUM KUANTAN STUDENTS' CHALLENGES DURING THE PANDEMIC OF COVID-19.

Nooraihan Afiqa Airoddin¹, Rina Suryani Ariff¹, Siti Khadijah Mohd Bustaman¹, Razman Mohd Rus²

¹Counseling and Career Services Department, International Islamic University Malaysia, Malaysia

²Office of the Deputy Campus Director (Student Development and Support Services), International Islamic University Malaysia, Malaysia

193 | KNOWLEDGE AND AWARENESS ON PELVIC FLOOR MUSCLES EXERCISES AMONG FEMALE STUDENTS IN INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA, KUANTAN.

Nur Afifah Binti Asri¹, Siti Salwana Binti Kamsan¹

¹ Department of Physical Rehabilitation Sciences, Kulliyah of Allied Health Sciences, International Islamic University Malaysia, 25200, Kuantan, Pahang, Malaysia.

194 | KNOWLEDGE AND ATTITUDE OF OPERATING THEATER NURSES TOWARDS PAIN MANAGEMENT.

Norlaila Abu Samah¹, Norimah Said², Sarizaton Mohamad³, Fazilahwati Md Fajaruddin⁴

¹Faculty Of Health Science Nursing ,Universiti Teknologi MARA (UiTM),Puncak Alam, Cawangan Selangor,



²Faculty Of Health Science Nursing
,Universiti Teknologi MARA (UiTM),Puncak
Alam,

Cawangan Selangor,

³Nursing department Hospital Tuanku
Ja'afar Seremban, Negeri Sembilan

⁴ Nursing Department Hospital Melaka,
Melaka

**195 | MECHANISM OF
ANGIOTENSIN CONVERTING
ENZYME (ACE) INHIBITION BY
SYZYGIUM POLYANTHUM WIGHT
(WALP.) LEAVES.**

T.A. Faiz T. Anuar¹, Azlini Ismail^{2*}, Izzat
Fahimuddin Mohamed Suffian³,
Azzmer Azzar Abdul Hamid⁴,
Muhammad Nor Omar⁴, Basma Ezzat
Mustafa², Wan Amir Nizam Wan
Ahmad⁵

¹Department of Chemistry, Kulliyah of
Science, International Islamic University
Malaysia, 25200 Kuantan, Pahang, Malaysia

²Department of Fundamental Dental and
Medical Sciences, Kulliyah of Dentistry,
International Islamic University Malaysia,
25200 Kuantan, Pahang, Malaysia

³Department of Pharmaceutical Chemistry,
Kulliyah of Pharmacy, International Islamic
University Malaysia, 25200 Kuantan, Pahang,
Malaysia

⁴Department of Biotechnology, Kulliyah of
Science, International Islamic University
Malaysia, 25200 Kuantan, Pahang, Malaysia

⁵Biomedicine Programme, School of Health
Sciences, Universiti Sains Malaysia, Health
Campus, 16150 Kubang Kerian, Kelantan,
Malaysia

**196 | PREVALENCE AND
ASSOCIATED FACTORS OF
CHRONIC CONSTIPATION AMONG
ADULTS IN PENANG.**

Patimah Abdul Wahab¹ Insyirah Shafei
²

¹Kulliyah of Nursing, International Islamic
University Malaysia, Malaysia

²Klinik Putra Bertam Indah, Malaysia

**197 | THE OUTCOMES OF ROOT
CANAL TREATMENT UNDERTAKEN
BY DENTAL STUDENTS IN
KULLIYAH OF DENTISTRY, IIUM:
PERIAPICAL HEALTH.**

Muhamad Sharifuddin Mat Daud¹,
Mohamad Shafiq Mohd Ibrahim²,
Musliana Mustaffa^{1*}

¹ Department of Restorative Dentistry,
Kulliyah of Dentistry, International Islamic
University Malaysia, Jalan Sultan Ahmad
Shah, Bandar Indera Mahkota, 25200
Kuantan, Pahang, Malaysia.

² Department of Dental Public Health,
Kulliyah of Dentistry, International Islamic
University Malaysia, Jalan Sultan Ahmad
Shah, 25200 Kuantan, Pahang, Malaysia.

**198 | THE EFFECTS OF INDUCED
OPTICAL BLUR ON VISUAL SEARCH
PERFORMANCE AND TRAINING.**

Azuwan Musa^{1,2}, Aida Hazira Ruslan²,
Khairidzan Mohd Kamal^{1,2}, Amanda
Ellison³, Alison Lane³

¹Department of Ophthalmology, Kulliyah of
Medicine, International Islamic University
Malaysia, Malaysia

²Department of Ophthalmology, Sultan Ahmad Shah Medical Centre (SASMEC), International Islamic University Malaysia, Malaysia

³Department of Psychology, Durham University, United Kingdom

199 | KNOWLEDGE, PERCEPTION AND PRACTICE OF ADJUNCTIVE MANAGEMENT IN PERIODONTAL DISEASE.

Ameerah Dianah Izaddin¹, Siti Farah Amelia Ahmad Subhi¹, Asst. Prof. Dr. Suhaila Muhammad Ali², Asst. Prof. Dr. Munirah Yaacob², Asst. Prof. Dr. Yunita Dewi Ardini³

¹ IIUM, Malaysia

² IIUM, Malaysia

³ IIUM, Malaysia

200 | KNOWLEDGE, ATTITUDE AND PRACTICE OF PELVIC FLOOR MUSCLE EXERCISE AMONG HEALTH CARE PROVIDERS IN COMMUNITY HEALTH CLINICS, KUANTAN.

Siti Mariam

201 | EVALUATION OF AN INTENSIVE EDUCATION PROGRAMME ON THE TREATMENT OF TOBACCO USE DISORDER FOR COMMUNITY PHARMACISTS.

Syed Azizullah Ghor¹, Assoc. Prof. Dr Mohamad Haniki Nik Mohamed,²

Assoc. Prof. Dr Faizah Safina Binti Bakrin,³Asst. Prof. Dr Aziz-Ur-Rahman⁴

^{1,2}International Islamic University, Malaysia

³KPJ Healthcare University College, Nilai, Negeri Sembilan, Malaysia

⁴UCSI University, Kuala Lumpur, Malaysia

202 | PERSONALIZED MEDICAL DEVICE FOR OPTIMAL CHEMOTHERAPY TREATMENT

Ahmad Fairuzabadi Mohd Mansor¹, Anis Nurashikin Nordin¹, Salmah Sedek², Mardhiah Mohammad², Muhammad Naimuddin Abdul Azih³, Megat Razeem Abdul Razak⁴, Aishah Ibrahim⁴, How Soon Hin³, Muhammad Irsyad Bin Suhaimi⁵, Zambri Samsudin⁵

¹Kulliyah of Engineering, International Islamic University Malaysia (IIUM) Gombak, Selangor, Malaysia

²Kulliyah of Allied Health Science, International Islamic University Malaysia (IIUM) Kuantan, Pahang, Malaysia

³Kulliyah of Medicine, International Islamic University Malaysia (IIUM) Kuantan, Pahang, Malaysia

⁴Respiratory Unit, Hospital Tengku Ampuan Afzan, Kuantan, Pahang, Malaysia.

⁵Manufacturing Technology & Innovation, Jabil Inc., Bayan Lepas, Pulau Pinang, Malaysia.



**203 | CLINICAL PROFILE AND
OUTCOMES OF PATIENTS WITH
SKIN AND SOFT TISSUE
INFECTIONS ADMITTED IN
DEPARTMENT OF GENERAL
SURGERY IN A TERTIARY CARE
HOSPITAL - A RETROSPECTIVE
ANALYSIS.**

Syed Azizullah Ghor^{1*}, Zareen Unnisa²,
Mohammed Fareedullah², Syed
Nusrath Farees³

¹ Department of Pharmacy Practice, Kulliyyah
of Pharmacy, International Islamic
University Malaysia.

² Department of Pharmacy Practice, Deccan
School of Pharmacy, Hyderabad, India.

³ Department of General Surgery, Owaisi
Hospital and Research Center, Hyderabad,
India.

All abstracts for IRD 2021 will be published as supplements in the following IIUM Journals:

1) Journal of Pharmacy

<https://journals.iium.edu.my/ktn/index.php/jp/index>

2) IIUM Journal of Orofacial and Health Sciences

<https://journals.iium.edu.my/ktn/index.php/ijohs>

3) International Journal of Care Scholar

<https://journals.iium.edu.my/ijcs/index.php/ijcs/index>



“Disclaimer: The author is wholly responsible for the accuracy of the abstract. The Organizing Committee cannot take responsibility for the specific accuracy of the details of the abstract contents”

