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ABSTRACT BOOK

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BRIDGING THE GAPS: TRANSLATING BIOMEDICAL
RESEARCH FROM LAB TO COMMUNITY

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KUANTAN PAHANG**



PENYELIDIK
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International Medical Research Journal

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WELCOME MESSAGE FROM **THE ORGANISING CHAIRPERSON**

Assalamualaikum warahmatullahi wabarakatuh, Salam Malaysia Madani to all distinguished guests, esteemed speakers, dedicated researchers, brilliant students, and participants.

It is with immense pleasure and great honour that I extend my warmest welcome to each and every one of you attending the 1st International Biomedical Conference 2025 (IBC 2025), which proudly organised by the National Institutes of Health (NIH), Persatuan Pegawai Penyelidik Kementerian Kesihatan Malaysia (PENYELIDIK KKM), and Malaysia Biomedical Science Association (MyBiomed). On behalf of the Organising Committee, I am pleased to welcome you to what we anticipate will be an engaging and insightful event.

This conference marks a significant milestone in the biomedical landscape, bringing together bright minds from diverse backgrounds to explore the latest advancements, innovations, and challenges in the field. Our theme for IBC 2025, “Bridging the Gaps: Translating Biomedical Research from Lab to Community”, reflects our commitment to fostering collaborative discussions and forging new pathways for discovery that will ultimately benefit humanity.

In an era where biomedical science is rapidly evolving, platforms like IBC 2025 are crucial for knowledge exchange, networking, and the cultivation of future partnerships. We have curated a comprehensive program featuring keynote lectures from world-renowned experts, engaging parallel sessions, and stimulating poster presentations, all designed to inspire new ideas and stimulate robust discussions.

I would like to express my sincere gratitude to the Organising Committee, our generous sponsors, and all volunteers whose tireless efforts have made this conference possible. Your dedication is truly commendable.

To all participants, I encourage you to seize this opportunity to engage actively, share your insights, and connect with peers. May your time at IBC2025 be both professionally rewarding and personally enriching.

Thank you, and I wish you all a successful and memorable conference.

Yours Sincerely,

YBRS. DR. MOHD FAIRULNIZAL BIN MD NOH

Organising Chairperson (PENYELIDIK KKM)

1st International Biomedical Conference 2025 (IBC 2025)



WELCOME MESSAGE FROM **THE ORGANISING CHAIRPERSON**

On behalf of the Organising Committee, it is my great pleasure to welcome you to the 1st International Biomedical Conference (IBC 2025) with the theme “Bridging the Gaps: Translating Biomedical Research from Lab to Community”.

This inaugural gathering marks an exciting milestone, made possible through the collaborative effort between Persatuan Penyelidik Malaysia (PENYELIDIK) and the Malaysian Biomedical Science Association (MyBiomed), brings together researchers, academics, healthcare professionals, and industry partners to share knowledge, foster collaborations, and highlight innovations in biomedical science. The chosen theme underscores the urgent need to ensure that scientific discoveries do not remain confined within laboratories, but instead are effectively translated into real-world applications that benefit communities and improve quality of life.

Over the course of this conference, we will engage in stimulating keynote sessions, insightful oral and e-poster presentations, Rapid-Fire and Young Investigator Awards sessions, as well as meaningful discussions that reflect the diversity and dynamism of the biomedical sciences. This platform also provides valuable opportunities for networking, capacity-building, and sparking new collaborations that transcend borders and disciplines.

We would like to extend our deepest gratitude to our distinguished speakers, dedicated participants, supporting institutions, sponsors as well as our committee members, who have made this conference possible. Your contributions are vital in making this event not only a success but also a milestone in advancing biomedical science and its translation into practice.

We hope that this conference will inspire innovative thinking, encourage cross-disciplinary dialogue, and pave the way for impactful solutions that bring science closer to society.

With that, we warmly welcome you to the 1st International Biomedical Conference 2025. May your participation be enriching, rewarding, and memorable.

Yours Sincerely,

YBRS. PROF. DR. NOR FADILAH BINTI RAJAB

Organising Chairperson (MyBIOMED)

1st International Biomedical Conference 2025 (IBC 2025)

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57	EP_034 660 NM LIGHT-EMITTING DIODE ENHANCES FIBROBLAST-CELL LINE ACTIVITY FOR <i>IN VITRO</i> WOUND HEALING MODEL <u>Syaima' Farhani Sukeri</u>, Ahmad Azlina, Haslina Taib, Fatanah Mohamad Suhaimi, Sha Shiong Ng, Sai Cheong Lee, Wui Chai Chew, Naser M Ahmed, Siti Aishah Zainal
57	EP_036 FT-IR SPECTROSCOPY FOR CHEMICAL FINGERPRINTING AND DETECTION OF ACRYLAMIDE EXPOSURE IN <i>Lactobacillus</i> sp. <u>Yaman Ahmed Mohammed Naji</u>, Maulidiani Maulidiani, Mahboob Alam and Nurul Huda Abd Kadir
58	EP_037 GENOMIC INSIGHT OF <i>Staphylococcus aureus</i> IN DAIRY FARMS SELANGOR <u>Syahidiah Syed Abu Thahir</u>, Sakshaleni Rajendiran, Rohaida Ismail, Yuvaneswary Veloo
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59	EP_043 NEONATAL OUTBREAK OF ECHOVIRUS 11 IN MALAYSIA: WHAT CAN WE LEARN? <u>Wan Nabilatul Huda Wan Ghazali</u>, Jeyanthi Suppiah, Nor Aziyah Mat Rahim, Nur Ain Zahidah Zainudin, Alia Nabila Abdul Halim, Intan Surianne Mat Sahat, Siti Mukhaiyarah Mahtar, Rozainanee Mohd Zain
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60	EP_046 FROM MYSTERY TO MOLECULAR CLARITY: METAGENOMICS SEQUENCING IDENTIFIES UNSEROTYPEABLE DENGUE VIRUS <u>Jeyanthi Suppiah</u>, Nur Ain Zahidah Zainudin, Murni Maya Sari Zulkifli, Amir Hussin Adiee, Mazrul Effendy Dukut Soeharto, Nuraisyah Ramli, Rozainanee Mohd Zain
61	EP_047 <i>IN VITRO</i> STUDY OF HEPARIN OCTADECASACCHARIDES' EFFECT ON IDURONATE-2-SULPHATASE ACTIVITY IN MUCOPOLYSACCHARIDOSIS TYPE II PATIENTS <u>Affandi Omar</u>, Salina Abdul Rahman, Fatimah Diana Amin Nordin, Nur Azian Aziz, Balqis Kamarudin, Lock Hock Ngu, Huey Yin Leong, Mohd Shihabuddin Ahmad Noorden & Julaina Abdul Jalil
61	EP_048 <i>IN VITRO</i> EVALUATION OF MALAYSIAN HERBAL PLANT-DERIVED COMPOUNDS ANTIVIRAL ACTIVITY AGAINST DENV-2 USING HIGH-CONTENT CELL BASED ASSAY <u>Mohd Ridzuan Mohd Abd Razak</u>, Mohammad Afiq Aizuddin Rosdi, Nur Hana Md Jelas, Bazilah Jusoh, Noorsofiana Padlan, Norazlan Mohmad Misnan, Nur Hannani Ahmad Rozani, Maizatul Hasyima Omar

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62	EP_050 A METABOLOMIC SIGNATURE OF OBESITY-DRIVEN TYPE 2 DIABETES IN MALAYSIAN ADULTS: UNRAVELLING METABOLIC DYSREGULATION Mohd Naeem Mohd Naw, Tikfu Gee, Lim Syu Yu, Elina Tsen Poh Yue, Zubaidah Nor Hanipah, Nur Azlin Zainal Abidin, Tan You Zhuan, Farah Huda Mohkiar, Liyana Ahmad Zamri, Haron Ahmad, Mohd Shazli Draman, Noorizatul Syahira Yusaini and Fazliana Mansor
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63	EP_052 <i>Hibiscus sabdariffa</i> MODULATES INFLAMMATORY AND MATRIX GENES IN SENESCENT CARDIAC FIBROBLASTS Mei Siu Lay, Wan Mohamad Adham Afiq Wan Zainuzzaman, Siti Khadijah Mustapha Kamal, Wan Nurul Nadia Wan Seman, Nik Aina Syazana Nik Zainuddin, Chin Long Poo, Mohd Rahimi Ashraf Abd Rahman, Nur Liana Md Nasir, Hussin Muhammad, Norizah Awang
64	EP_054 ENHANCED LENTIVIRAL GFP EXPRESSION DRIVEN BY CMV PROMOTER: TOWARDS SUCCESSFUL GENERATION OF INDUCED NEURAL PROGENITOR CELLS (iNPCs) THROUGH DIRECT REPROGRAMMING Nur Jannaim Muhamad, Fatimah Diana Amin Nordin, Rosnani Mohamed, Mohd Khairul Nizam Mohd Khalid, Julaina Abdul Jalil, Nurul Husna Abd Razak, Muhammad Fauzi Daud, Izyan Mohd Idris
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70	EP_067 LET IT GLOW: ILLUMINATING DONOR CELLS IN CDC CROSSMATCH – A COMPARATIVE STUDY OF FLUOROQUENCH AND EOSIN STAINING Salawati Mansor, Asmadamia Abdul Aziz, Jamiila Ismail, Koay Bee Tee, Nur Fatini Che Shamsudin, Tengku Norminhalina Tan Mansor, Nur Izzati Sariyah Saadon, Siti Fatimah Mat Ali, Phiong Ying Hui, Wan Nurul Ain Mat Asuar, Nurul Syafiqah, Norfarhana Khairul Fahmy, Zurina Shamsuddin, Muhammad Zhafri Md Zakariah, Adibah Hanis Zainudin and Norhazlin Mustafa
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78	EP_085 IN VITRO MICRONUCLEUS ASSAY FOR <i>Dioscorea hispida</i> GENOTOXICITY ASSESSMENT <u>Siti Khadijah Mustapha Kamal</u>, Norizah Awang, Nur Liana Md Nasir, Nik Aina Syazana Nik Zainuddin, Lau Mei Siu, Mohd Rahimi Ashraf Abd Rahman, Poo Chin Long, Siti Soleha Abdullah, Elda Nurafnie Ibnu Rasid, Hussin Muhammad
78	EP_086 SKF7® AS A NATURAL HORMONAL REGULATOR IN MENOPAUSAL RATS <u>Noraini Ahmad Mustapa</u>, Mei Siu Lau, Elda Nurafnie Ibnu Rasid, Siti Khadijah Mustapha Kamal, Nik Aina Syazana Nik Zainuddin, Chin Long Poo, Mohd Rahimi Ashraf Abd Rahman, Nur Liana Md Nasir, Norizah Awang, Hussin Muhammad
79	EP_087 OESTROGEN-REGULATING EFFECTS OF SKF7® IN MENOPAUSAL RATS <u>Noor Syairah Sallim @ Ikram</u>, Mei Siu Lau, Elda Nurafnie Ibnu Rasid, Siti Khadijah Mustapha Kamal, Nik Aina Syazana Nik Zainuddin, Chin Long Poo, Mohd Rahimi Ashraf Abd Rahman, Nur Liana Md Nasir, Norizah Awang, Hussin Muhammad
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INTRODUCTION: Despite traditionally being considered a disease of older adults, recent data highlight the rising prevalence and significant premature cardiovascular complications of prehypertensive and hypertensive young adults. Younger individuals may present with different risk factor profiles compared to classic risk factors such as diabetes and smoking.

OBJECTIVE: To identify risk factor profiles associated with prehypertension and hypertension in young adults attending primary healthcare service at IUM.

MATERIALS & METHODS: This was a comparative cross-sectional study recruiting a total of 72 participants aged 18 to 45 years, comprising 24 normotensive, 25 prehypertensive, and 23 newly diagnosed hypertensive individuals. Normotension was defined as systolic blood pressure (SBP) < 120 mmHg and diastolic blood pressure (DBP) < 80 mmHg; prehypertension as SBP 120–139 mmHg and/or DBP 80–89 mmHg; and hypertension as SBP ≥ 140 mmHg and/or DBP ≥ 90 mmHg. Cardiovascular risk histories, anthropometric and biochemical parameters were assessed.

RESULTS: The median age was 38 years for the normotensive and prehypertensive groups, and 40 years for the hypertensive group. Apart from family history, hypertensive participants had significantly higher body mass index, waist circumference, pulse rate, and uric acid levels than normotensive participants ($p < 0.042$). The high-density lipoprotein (HDL) cholesterol levels were significantly lower in hypertensive and prehypertensive participants compared to normotensive participants ($p < 0.004$). Consequently, total cholesterol levels were significantly lower in the hypertensive than the normotensive participants ($p = 0.029$). Other factors, including smoking, vaping, salt intake, fasting glucose, and high-sensitivity C-reactive protein levels, did not differ significantly across the groups.

CONCLUSION: Blood pressure elevation in young adults is mainly driven by modifiable risk factors, particularly obesity and low HDL levels. These findings underscore the importance of effective lifestyle interventions, including weight reduction and healthier dietary patterns, beginning in the prehypertensive stage, to mitigate long-term cardiovascular risk among young adults.

KEYWORDS: Young Adults, Prehypertension, Hypertension, Risk Factors

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COMPARATIVE STUDY OF APOLIPOPROTEIN A1 LEVELS IN OBESE SCHIZOPHRENIA AND CONTROLS

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INTRODUCTION: Obesity commonly co-occurs in patients with schizophrenia, contributing to their elevated susceptibility to cardiovascular disease. Apolipoprotein A1 (Apo A1), the principal protein component of high-density lipoprotein (HDL), is known for its protective roles against inflammation and atherosclerosis; however, the relationship of obesity among individuals with schizophrenia remains unclear.

OBJECTIVE(S): This study aimed to compare the plasma Apo A1 levels between individuals with schizophrenia and control subjects across both obese and non-obese groups.

MATERIALS & METHODS: A total of 120 subjects participated in this comparative cross-sectional study. They were categorised into four subgroups: obese schizophrenia, obese control, non-obese schizophrenia, and non-obese control ($n = 30$ per group). Plasma Apo A1 concentrations were quantified using a sandwich Enzyme-Linked Immunosorbent Assay (ELISA). The Mann-Whitney U test was applied to non-normally distributed obese groups, and Welch's t-test to non-obese groups with unequal variances.

RESULTS: Plasma Apo A1 levels were significantly reduced in individuals with schizophrenia across both obesity categories. In the obese participants, the schizophrenia group demonstrated significantly lower median Apo A1 (270.20 [153.36] mg/dL) compared to obese controls (308.65 [132.85] mg/dL) ($p = 0.016$). A similar trend was observed in the non-obese group, mean Apo A1 was also lower in non-obese schizophrenia participants (333.55 ± 131.03 mg/dL) than in non-obese controls (459.23 ± 206.92 mg/dL) ($p = 0.004$). These findings establish that schizophrenia independently lowers Apo A1 levels, while co-morbid obesity significantly exacerbates this deficit, increasing cardiovascular risk in these patients.

CONCLUSION: Our findings show that individuals with schizophrenia have consistently lower Apo A1 levels regardless of obesity, suggesting the need to explore Apo A1 not only as a potential biomarker but also as a potential therapeutic target to improve their cardiovascular health and overall well-being.

KEYWORDS: Obesity, Schizophrenia, Apolipoprotein A1, Biomarkers