MOH/S/IMR/105.25(JL)-e



ABSTRACT BOOK

BIOMEDICAL CONFERENCE 2025

BRIDGING THE GAPS: TRANSLATING BIOMEDICAL RESEARCH FROM LAB TO COMMUNITY

3RD - 4TH SEPTEMBER 2025 AC HOTEL BY MARRIOTT, KUANTAN PAHANG







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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 IBC 2025 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)





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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PROGRAMME

DAY 1: 3rd September 2025

Time	Ballroom		
0800 - 0900	Registration		
0915	Arrival of YBhg. Dato' Indera Dr. Nor Azimi binti Yunus , Deputy Director General of Health (Medical), Ministry of Health Malaysia		
0930	National Anthem "Negaraku" Doa Recital		
0935	Joint Welcome Address by YBrs Dr. Mohd I Fadilah Rajab , Organising Chairpersons, 1st	Fairulnizal Md Noh and YBrs Prof. Dr. Nor International Biomedical Conference 2025	
0945	Officiating Speech by YBhg. Dato' Indera Dr. Director General of Health (Medical), Ministry		
1000 - 1030	KEYNOTE: MicroRNAs: Tiny Regulators, Mas Cancer Diagnosis and Therapy <i>Prof. Ts. Dr. Cheah Yoke Kqueen, FASc. (Un</i> Chairperson: Prof. Dr. Nor Fadilah Rajab (UK	niversiti Putra Malaysia)	
1030	Tea Break & Networking		
1045 - 1115	PLENARY 1: Uncovering Novel Therapeutic Targets for Head and Neck Cancers Prof. Dr. Cheong Sok Ching (Cancer Research Malaysia) Chairperson: Assoc. Prof. Dr. Lim Chooi Ling (IMU University)		
Time	Ballroom	Meeting Room 5	
1115 - 1215	SYMPOSIUM 1: Precision Medicine Chairperson: Dr. Mohd. Khairul Nizam Mohd Khalid (IMR) MyGENOM: Advancing Precision Medicine Through Inclusivity and Equity in Malaysia Dr. Adiratna Mat Ripen (IMR) Precision Medicine in Practice: Bridging Genomic Insights to Public Health Impact Prof. Dr. Chee-Onn Leong (AGTC Genomics)	SYMPOSIUM 2: AI & Machine Learning Chairperson: Dr. Mohd Kamarulariffin Kamarudin (IMR) The Future of Computational Methods in Personalised Medicine Assoc. Prof. Dr. Ooi Ean Hin (Monash University Malaysia) Clinician-Centric Innovation: From Smart Forms to Deep-Learning Suites in Biomedical Imaging Prof. Dr. Mohd Zulfaezal Che Azemin (IIUM)	
1215 - 1300	RAPID-FIRE PRESENTATION 1	RAPID-FIRE PRESENTATION 2	
1300 - 1400	Lunch Break		
1400 - 1530	ORAL PRESENTATION 1 ORAL PRESENTATION 2		
Time	Ballı	room	
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1630	End of Day 1		
	J. Day 1		



PROGRAMME

DAY 2:4th September 2025

Time	Ballroom		
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0830 - 0900	PLENARY 2: Effects of Environmental Changes on the Transmission Dynamics of Aedesborne Diseases Assoc. Prof. Dr. Pratap Singhasivanon (SEAMEO TROPMED Network) Chairperson: Dr. Nor Aziyah Mat Rahim (IMR)		
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0900 - 1000	SYMPOSIUM 3: Non Communicable Diseases Chairperson: Assoc. Prof. Dr. Adeline Chia Yoke Yin (Taylor's University) Decoding the Lung Immune Ecosystem: From Fundamental Insights to Biomedical Impact. Dr. Megat Hafizzuddin Abd Hamid (UM) Lipoprotein (a): The new target in CV risk reduction? Assoc. Prof. Dr. Ahmad Syadi Mahmood Zuhdi (UM)	SYMPOSIUM 4: Molecular Biology & Immunology Chairperson: Dr. Ibrahim Adham Taib (IIUM) Exploration Of Protoemic Biomarker Discovery For Precision Medicine. Asst. Prof. Dr. Norbaiyah Mohamed Bakrim (IIUM) Human-induced pluripotent stem cell- derived neural models to understand neuropathogenesis in Down syndrome. Prof. Dr. Ling King Hwa (UPM)	
1000	, ,	s & Tea Break	
1030 - 1130	SYMPOSIUM 5: Drug discovery & regulatory Chairperson: Assoc. Prof. Dr. Suvik Assaw (UMT) From Bench to Bedside: Incorporating Herbal Therapies in Treatment of Diabetic Nephropathy Assoc. Prof. Dr. Wan Amir Nizam Bin Wan Ahmad (USM) Cancer Chemopreventive Activity of Terpenoid Rich Canarium odontophyllum MIQ. Leaf Extract (TRCO) in UVB-Induced Skin Cancer Models In Vitro and In Vivo Prof. Dr. Ahmad Rohi Ghazali (UKM)	SYMPOSIUM 6: Planetary Health Chairperson: Assoc. Prof. Dr. Suzita Mohd Noor (UM) Planetary Health in Focus: Redefining Human Well-being in a Changing World Prof. Ts. Dr. Muhammad Lokman Md Isa (IIUM) Planetary Boundaries and Child Health Prof. Dr. Amir Hamzah Abdul Latiff (Sunway University)	
1130 - 1300	YOUNG INVESTIGATOR AWARD	ORAL PRESENTATION 3	
1300 - 1400	Lunch Break		
1400 - 1445	RAPID-FIRE PRESENTATION 3	RAPID-FIRE PRESENTATION 4	



	SYMPOSIUM 7: Infectious diseases	SYMPOSIUM 8: Biomedical Data Science Bioinformatics (Big Data in Biomedical)
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GENOTOXICITY ASSESSMENT OF *Dioscorea Hispida* USING BACTERIAL REVERSE MUTATION ASSAY

Nur Liana Md Nasir, Norizah Awang, Nik Aina Syazana Nik Zainuddin, Chin Long Poo, Mohd Rahimi Ashraf Abd Rahman, Siti Khadijah Mustapha Kamal, Mei Siu Lau, Siti Soleha Abdullah, Elda Nurafnie Ibnu Rasid, Hussin Muhammad

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FLAVONOID-SAPONIN FRACTION FROM LEAVES OF Mitragyna speciosa AS A NEPHROPROTECTIVE AGENT AGAINST GENTAMICIN-INDUCED TOXICITY IN RATS
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SKF7 SHOWS PROMISE IN REDUCING OVARIAN OXIDATIVE STRESS: A NATURAL ALTERNATIVE TO ESTRADIOL?

<u>Siti Soleha Ab Dullah</u>, Nur Liana Md Nasir, Norizah Awang, Nik Aina Syazana Nik Zainuddin, Poo Chin Long, Mohd Rahimi Ashraf Abd Rahman, Siti Khadijah Mustapha Kamal, Lau Mei Siu, Elda Nurafnie Ibnu Rasid, Hussin Muhammad

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CARDIOTOXICITY ASSESSMENT OF *Hibiscus sabdariffa* L. DERIVED PRODUCT, SÍ ROJA, IN ZEBRAFISH EMBRYOS

Chin Long Poo, Mohd Rahimi Ashraf Abd Rahman, Norizah Awang, Nik Aina Syazana Nik Zainuddin, Nur Liana Md Nasir, Mei Siu Lau, Siti Khadijah Mustapha Kamal, Siti Soleha Ab Dullah, Maizatul Hasyima Omar. Hussin Muhammad

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EMBRYOTOXICITY AND TERATOGENIC EFFECTS OF SÍ ROJA, A *Hibiscus sabdariffa* L. DERIVED PRODUCT, IN ZEBRAFISH (*Danio rerio*) MODEL

Mohd Rahimi Ashraf Abd Rahman, Chin Long Poo, Norizah Awang, Nik Aina Syazana Nik Zainuddin, Nur Liana Md Nasir, Mei Siu Lau, Siti Khadijah Mustapha Kamal, Siti Soleha Ab Dullah, Maizatul Hasyima Omar, Hussin Muhammad



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MATERIALS & METHODS: A total of 99 patients (39 males, 60 females) undergoing LSG were followed for 12 months. Anthropometric measures, including body weight (BW) and body mass index (BMI), alongside body composition metricspercentage body fat (PBF), body fat mass (BFM), and visceral fat area (VFA) were assessed using standardized methods and bioelectrical impedance analysis (BIA). Generalized Estimating Equations (GEE) were employed to evaluate the effects of time, sex, and their interaction, adjusted for age, race, diabetes status, and baseline measurements.

RESULTS: All parameters showed significant reductions at 12 months post-surgery (p < 0.001). Compared to females, males demonstrated significantly greater reductions in body weight (-41.65 vs. -29.94 kg) and BMI (-13.09 vs. -11.09 kg/m²). Males also showed significantly greater reductions in PBF (-12.10% vs. -8.64%), BFM (-29.40 vs. -19.25 kg), and VFA (-86.60 vs. -68.93 cm²). Time-by-sex interactions were statistically significant across all outcomes (p < 0.001), indicating that changes over time differed significantly between sexes.

CONCLUSION: While both sexes experienced significant benefits from LSG, males showed greater reductions in weight and fat-related measures. These findings highlight the importance of sex-specific monitoring post-surgery. Reliance on weight alone may overlook meaningful changes in body fat, particularly among women. Incorporating body composition assessment into routine follow-up may support more individualized, effective postoperative care.

KEYWORDS: Obesity, Laparoscopic Sleeve Gastrectomy, Anthropometry, Body Composition

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IMPACT OF BARIATRIC SURGERY ON 1-YEAR LIPID PROFILE TRAJECTORIES IN OBESE INDIVIDUALS WITH DIFFERENT GLYCAEMIC STATES

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INTRODUCTION: Obesity-related dyslipidaemia increases cardiovascular risk. Despite the known benefits of bariatric surgery on metabolic health, its distinct effects on lipid profiles

across different glycaemic categories are not well understood.

OBJECTIVE: This study aimed to evaluate 12-month lipid profile trajectories in obese individuals undergoing bariatric surgery, stratified by glycaemic status.

MATERIALS & METHODS: Forty-one obese participants undergoing bariatric surgery (sleeve gastrectomy, Roux-en-Y, or mini-gastric bypass) at medical centres in the Klang Valley were assessed at baseline, 6, and 12 months. Participants were stratified as non-diabetic (ND, n = 17), prediabetic (PDM, n = 12), and diabetic (DM, n = 12) based on baseline HbA1c levels, following the current national guidelines. Lipid parameters were analysed using generalised estimating equation (GEE), adjusted for age, sex, time, glycaemic status group, and baseline lipid levels.

RESULTS: Participants were mostly female (63.4%) and Malay (68.3%), with a mean age of 38.0 ± 7.3 years and a mean BMI of 40.1 ± 8.2 kg/m². Overall, the prevalence of dyslipidaemia decreased from 88% at baseline to 39% at 12 months, indicating 56% resolution. Significant within-group improvements were observed in HDL-C, triglycerides (TG), and TC:HDL-C ratio across all glycaemic categories. HDL-C increased significantly between 6 and 12 months in all groups (DM: +0.20, PDM: +0.19, ND: +0.29 mmol/L), while TG declined substantially in the first 6 months in DM and PDM groups (-0.43 mmol/L and -0.36 mmol/L, respectively). TC:HDL-C ratio improved significantly in ND and DM groups, particularly from 6 to 12 months. No significant time-by-group interaction was found, indicating that lipid profile trajectories over 12 months were similar across glycaemic groups.

CONCLUSION: Bariatric surgery significantly improved lipid profiles and cardiovascular risk markers over 12 months, regardless of baseline glycaemic status. These findings support its role in mitigating cardiometabolic risk across the spectrum of obesity, highlighting its value as a metabolic intervention that extends beyond weight loss.

KEYWORDS: Obesity, Diabetes, Lipid Profiles, Bariatric Surgery, Cardiovascular Risk

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GRISK FACTOR PROFILES IN YOUNG ADULTS WITH PREHYPERTENSION AND HYPERTENSION ATTENDING IIUM PRIMARY HEALTHCARE SERVICE

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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 IIUM.

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 \geq 140 mmHg and/or DBP \geq 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 nonobese group, mean Apo A1 was also lower in non-obese schizophrenia participants (333.55 \pm 131.03 mg/dL) than in non-obese controls (459.23 \pm 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

