



Universitas  
Alma Ata  
The Globe Inspiring University

2024  
**APHNI**  
CONFERENCE

**6TH APHNI CONFERENCE 2024**

# **BOOK OF ABSTRACT**

"The 6th Asia-Pacific Partnership on Health and Nutrition Improvement (APHNI) Conference 2024: The Evolution of Healthcare Delivery and Navigation on Nutrition, Maternal and Child Health, and Chronic Diseases."

Wednesday, November 20th 2024  
The Rich Jogja Hotel, Daerah Istimewa  
Yogyakarta (DIY), Indonesia



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## Welcome Letter from Conference Chair

*Assalamualaikum warahmatullahi wa barakatuh.*

On behalf of the APHNI Committee, I welcome you to the 6<sup>th</sup> Asia-Pacific Partnership on Health and Nutrition Improvement (APHNI), held on 20 November 2024 in Yogyakarta, Indonesia. The APHNI is an annual conference organised by the Faculty of Health Sciences at Alma Ata University, Yogyakarta. It has been held since 2019.

This conference will provide an interactive international forum for sharing and exchanging information on the latest research on Health and nutrition and related sciences, to enhance the capacities for creating innovative systems, to contribute to the formulation of global strategies in advancing health systems as well as developing policy initiatives in the community, to stimulate future collaborations among industries, researchers, governments and other stakeholders who apply science for better live. The speakers and participants of the 6<sup>th</sup> APHNI are up to 60 from various countries, including Indonesia, Malaysia, Thailand, and Taiwan.

I want to take this opportunity to thank you for the committee's endeavours from the Faculty of Health Sciences—Alma Ata University. In addition, the conference committee acknowledges Alma Ata University's technical and financial support.

I hope you can enjoy this conference, and I encourage you to engage with those presenting their works as oral presentations. Should you have extra time, I hope you can extend your stay and enjoy the exotic of Yogyakarta.

Thank you for your participation,

**Sofyan Indrayana, S.Kep., Ns., MS.**  
The Chair of the 6<sup>th</sup> APHNI Conference

## Welcome Letter from the Dean of the Faculty of Health Sciences, Alma Ata University

*Assalamualaikum warahmatullahi wa barakatuh.*

Ladies and gentlemen, esteemed colleagues, and distinguished guests,

It is with great pleasure and anticipation that we gather here today for the 6<sup>th</sup> Asia-Pacific Partnership on Health and Nutrition Improvement (APHNI) under the insightful theme of "The evolution of healthcare delivery and navigation on nutrition, maternal and child health, and chronic diseases". This year, the 6<sup>th</sup> APHNI is hosted by the Faculty of Health Sciences, and this conference serves as a beacon of intellectual exchange and innovation in the field of chemistry.

In today's dynamic landscape, characterised by Volatility, Uncertainty, Complexity, and Ambiguity (VUCA), the role of chemistry in shaping a sustainable future is more vital than ever. Our collective pursuit of knowledge and advancements in the field of health sciences hold the potential to redefine industries, reshape ecosystems, and promote responsible stewardship of our planet's resources.

This conference stands as a testament to the commitment of all participating institutions to address pressing global challenges through the lens of chemistry. The presentations and discussions unfold throughout the day will undoubtedly inspire new ideas, collaborations, and solutions that contribute to a more sustainable world.

As we embark on this intellectual journey, let us remain open to diverse perspectives, engage in rigorous debate, and forge connections that transcend borders and disciplines. May the insight gained during the conference deepen our understanding of health science's role in sustainable development and empower us to catalyse positive change within our societies.

I extend my heartfelt gratitude to the organisers, speakers, and attendees who have come together to make this event a reality. Let us embrace the spirit of collaboration and exploration as we navigate the fascinating intersections of health sciences.

Thank you, and let the 6<sup>th</sup> APHNI commence.

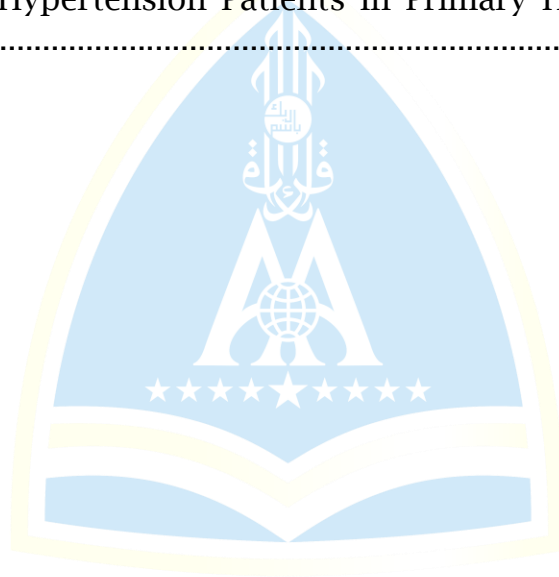
**Dr. Yhona Paratmanitya, S.Gz., MPH., RD.**

Dean of Faculty of Health Sciences, Alma Ata University

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**CONFERENCE PROGRAM**  
(Wednesday, November, 20<sup>th</sup> 2024, The Rich Hotel Yogyakarta)

**Event Speakers**



Prof. Dr. Hamam Hadi, MS., Sc.D., Sp.GK.



Prof. Joel Gittelsohn, PhD., MS.



Alexandra Ross, PhD. MHS.



Prof. Wan Abdul Manan bin Wan Muda



Dr. Kashif Ullah Khan



Dr. ATM Kamonchanok Maneechai





Edi Sampurno, M.Nurs., PhD.



Dr. Nittiya Noysipoom

### SCHEDULE

Time (WIB)	Details
07.00 - 08.00	Registration
08.00 - 08.05	Opening (MC: Bu Emelda dan Bu Lia Dian)
08.05 - 08.10	Qur'an recitation (Khanifudin)
08.10-08.13	Opening pray (Bu Nyai Ida)
08.13-08.23	Lagu kebangsaan Indonesia Raya Mars Alma Ata
08.23 - 08.37	Opening Speech (Prof Hamam) Simbolis gong
08.37-08.47	Tari Sesonderan (Malang, Jawa Timur) by. UKM Tari UAA
08.55-09.15	Bumpering Break
Speaker 1	Prof. dr. H Hamam Hadi, MS, Sc.D, Sp.GK (Director of Center for Global Health, Alma Ata University, Indonesia) "Child Obesity"
09.15-09.35	Bumpering Break
Speaker 2	Prof. Joel Gittlesohn (Bloomberg School of Public Health, John Hopkins University, USA) "School-based strategies for child obesity prevention: State of the art and future directions"
09.35-09.55	Bumpering Break
Speaker 3	Dr. Alexandra Ross (Harvard School of Public Health, USA) "Nutrition Policies to Improve Food Environments and Diet Quality: a Focus on Children and their Families"
09.55-10.15	Bumpering Break
Speaker 4	Prof Wan Abdul Manan Wan Muda (World Public Health Nutrition Association)

	"Addressing the Multiple Burden of Malnutrition in SEA - Its Drivers and Policy Direction"
<b>10.15-10.30</b>	Question and Answer 1
<b>10.35-10.50</b>	Coffee break
<b>10.50-10.55</b>	Moderator 2 introduction Invite speakers to the stage
<b>10.55-11.15</b> <b>Speaker 5</b>	Bumpering Break (Dr. Khasif Ullah Khan) Universiti Malaya, Malaysia The Role of Health Professionals in the Utilization of Pharmaceutical Technology and Information
<b>11.15-11.35</b> <b>Speaker 6</b> <b>ONLINE</b>	Bumpering Break Dr. ATM Kamonchanok Maneechai (Mahidol University, Thailand) The Evolution of Complementary Therapy for The Management of Pregnancy, Labour and Postpartum
<b>11.35-11.50</b>	Question and Answer 2
<b>13.00- 14.00</b>	<b>ORAL PRESENTATION (PARALLEL)</b>
	Doorprize peserta
<b>13.00-13.05</b>	Moderator 3 introduction Invite speakers to the stage
<b>13.05-13.25</b> <b>Speaker 7</b> <b>ONLINE</b>	Bumpering Break Dr. Nittiya Noysipoom (Boromarajonani College of Nursing, Nopparat Vajira, Faculty of Nursing, Praboromarachanok Institute, Thailand) "topic"
<b>13.25-13.45</b> <b>Speaker 8</b> <b>OFFLINE</b>	Bumpering Break Edi Sampurno, M.Nurs, PhD (Alma Ata Graduate School of Public Health) "Nursing: Long-term Care Management of Chronic Disease Patient"
<b>13.45-14.00</b>	Question and Answer 3
<b>14.15-14.25</b>	"Best oral presentation" Announcement
<b>14.25-14.35</b>	"Best poster competition" Announcement
<b>14.35-14.45</b>	Closing Remark





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# List of Oral Presentations

## APHNI 2024

"THE EVOLUTION OF HEALTHCARE DELIVERY AND NAVIGATION ON  
NUTRITION, MATERNAL, AND CHILD HEALTH, AND CHRONIC DISEASE"

U N I V E R S I T A S   A L M A   A T A



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## The Interaction of Macronutrient and Energy Intake with Gestational Weight Gain Status on Newborn Interaction Outcomes: Findings from VDPM Cohort Study in West Sumatera

Anisa Eka Pramasti<sup>1</sup>, Arif Sabta Aji<sup>1\*</sup>, Anafrin Yugistyowati<sup>2</sup>, Effatul Afifah<sup>1</sup>

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### ABSTRACT

**Background:** Proper nutrient intake in pregnant women is essential for maternal and foetal health, childbirth preparation, and prevention of infant nutrition problems. Malnutrition, especially Chronic Energy Deficiency (CED), can increase the risk of complications from giving birth to a baby with Low Birth Weight (LBW).

**Objectives:** To analyse the interaction between the intake status of macronutrients (carbohydrates, proteins, fats), energy and maternal weight gain status during pregnancy on newborn anthropometry in West Sumatra.

**Methods:** This secondary data analysis was based on the longitudinal cohort study "Vitamin D Program Women (VDPM)" with 182 subjects. In the third trimester, the Semi-Quantitative Food Frequency Questionnaire (SQ-FFQ) obtained macronutrients and energy intake. Statistical data analysis uses Spearman Correlation and a multivariate test with the General Linear Model (GLM) to find the interaction between macronutrient intake, energy, and gestational weight gain (GWG) status on newborn anthropometry outcomes with adjusting possible confounding variables such as antenatal care visit, parity status, maternal age, and gestational age.

**Results:** There was no significant association between macronutrients, energy, and GWG status during pregnancy ( $p>0.05$ ). The macronutrient and energy intake had no association with newborn anthropometry ( $p>0.05$ ). There was no interaction between macronutrients and energy intake with GWG status on anthropometric indicators of newborns ( $p>0.05$ ).

**Conclusions:** Macronutrients and energy intake did not interact with GWG status on newborn anthropometry outcomes. Further analysis is needed to determine factors that interact with macronutrients and energy intake and the status of GWG in newborn anthropometric indicators.

**KEYWORDS:** macronutrient intake; energy; gestational weight gain; newborn anthropometry; west Sumatera.