

AOCO-MASO 2021
6 - 8 April 2021 | Kuala Lumpur

PLENARY 1




Prof Dr Louise Baur
University of Sydney
Australia




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PLENARY 4



Prof Dr Boyd Swinburn
School of Population Health
University of Auckland,
New Zealand



Chairperson: Prof. Dr. Mohd Ismail Noor
President, MASO

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PLENARY 4



Prof Dr Boyd Swinburn
School of Population Health
University of Auckland,
New Zealand

B Global Syndemic view



Legend:
 ■ Micro systems
 ■ Meso systems
 ■ Macro systems
 ■ Governance


Obesity, Undernutrition, Climate change

Human health and wellbeing, Ecological health and wellbeing


Systems included:
 Families, Communities, Social circles
 Schools, Hospitals, Workplaces, Public spaces
 Food, Transport, Urban design, Land use
 Norms, Economics, Policies
 Natural systems

Plenary 2, 3 and 5 photos tak ada!

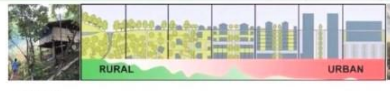
SYMPOSIUM 1



Prof. Dr. Johan Eriksson
National University of Singapore



Dr. Dicky L. Tahapary
Division of Endocrinology, Metabolism, and Diabetes, Department of Internal Medicine, Faculty of Medicine,



RURAL vs **URBAN**

Overweight trend: 6.4% (2010) vs 14.4% (2018)

HEALTHY INFECTIONS DRIVE HETEROGENEOUS TYPE 2 AND REGULATORY CELLS

Differences in **lifestyle, break with natural environment, and biodiversity** be associated with **changes in the immune system** resulting in **various adverse health effects**.

SYMPOSIUM 1



Dr. Jennifer Miles-Chan
Human Nutrition Unit, School of Biological Sciences, Faculty of Science.



Dr. Hadia Mohammad Radwan
College of Health Sciences, University of Sharjah, United Arab Emirates

Introduction

The Developmental Origins of Health and Disease (DoHaD) hypothesis proposed a link between prenatal, perinatal and early postnatal exposure to certain environmental, dietary, and lifestyle factors and subsequent development of obesity and non-communicable diseases.



DoHaD: Developmental Origins of Health and Disease

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SYMPOSIUM 11
Complications of Obesity

Chairperson: **Dr. Tham Kwang Wei**, President, Singapore Association for the Study of Obesity (SASO)
Co-chair: **Dr Masni Mohamad**, Hospital Putrajaya

- Prof. Dr. Ian D Caterson**
School of Life and Environmental Sciences, Faculty of Science, University of Sydney, Australia
Title: What profile changes have we seen in our fight with Obesity?
Abstract Submission ID: AOCO2021-001
- Dr. Rosa Allyn Sy**
Diabetes, Endocrine, Metabolic, and Nutrition Center, Cardinal Santos Medical Center, Manila, Philippines
Title: Obesity and its complications: an overview
Abstract Submission ID: AOCO2021-002
- Prof. Dr. Takashi Kadzawa**
Department of Diabetes and metabolic diseases, The University of Tokyo Hospital, Tokyo, Japan
Title: Molecular mechanism of insulin resistance and comorbidities linked to obesity
Abstract Submission ID: AOCO2021-003
- Prof. Dr. Chuan Wai Kheng**
Gender-Enterology Unit, Department of Medicine, Universiti Malaya Medical Centre, Malaysia
Title: Obesity and non-alcoholic fatty liver disease (NAFLD) linked update
Abstract Submission ID: AOCO2021-004
- Dr. Mohd Armin Mat**
Education and Research Centre, St. Vincent's University Hospital, Dublin, Ireland
Title: Obesity and cardiovascular diseases: COVID
Abstract Submission ID: AOCO2021-005

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SYMPOSIUM 11

Reasons for not discussing weight management
PwO and HCPs perspectives



Reason	HCPs (n=2,785)	PwO (n=14,502)
I believe it is my responsibility to manage weight	9	44
The appointment is not long enough / I am rushed	59	54
I do not feel motivated to lose weight	20	48
There are more important health issues to discuss	36	47
I do not think my health care provider is interested/concerned with my weight	3	15
I do not believe I am able to lose weight	15	44
I am in good health and do not have weight-related health problems	10	39
I am not interested in losing weight	7	71

Prof. Dr. Ian D Caterson
School of Life and Environmental Sciences, Faculty of Science, University of Sydney, Australia

[All PwO] Q779 Which of the following are/would be the top five reasons for which you might not discuss managing your weight with your healthcare provider?
[All HCP] Q708 What are the top 5 reasons for which you might not discuss obesity with a patient?

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SYMPOSIUM 11



Prof. Dr. Takashi Kadowaki
Department of Diabetes and Metabolic Diseases
The University of Tokyo Hospital
Tokyo, Japan

Take Home Message

Molecular mechanism of insulin resistance and comorbidities linked to obesity

1. **Chronic hyperinsulinemia in obesity downregulates IRS-2 in M2 macrophages, which leads to impaired IL-4 / insulin signaling and IL-4 production, causing inflammation, gluconeogenesis and insulin resistance.**
2. **Impaired Adiponectin/AdipoR signaling in obesity plays a crucial role in insulin resistance and comorbidities in obesity such as type 2 DM and AdipoRon ameliorates them to realize healthy longevity.**

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SYMPOSIUM 11



Dr. Rosa Allyn Sy
Diabetes, Endocrine, Metabolic, and Nutrition Center
Cardinal Santos Medical Center
Philippines

OBESITY AND ITS COMPLICATIONS: AN OVERVIEW

ROSA ALLYN G. SY, MD, FPCP, FPSEDM
CARDINAL SANTOS MEDICAL CENTER, PHILIPPINES
ENDOCRINOLOGY, DIABETES, METABOLISM AND NUTRITION

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SYMPOSIUM 10
Bariatric Surgery

Chairperson: Dr. Reynu Rajan
Hospital Canselor Tuanku Muhriz, UKM
Co-chair: Dr. Gafoor Mubarak
Island Hospital, Penang



Dr. Mufazzal Laskdawala
Institute of Minimal Invasive Surgical Sciences & Research Centre, Safee Hospital, Mumbai, India
Title: **Metabolic outcomes of bariatric surgery**
[Abstract: Symposium 10 April 2021 8:20 AM - 10:00 AM](#)



Dr. Chih-Kun Huang
China Medical University Hospital, Taichung, Taiwan
Title: **Cost effectiveness of bariatric surgery-why insurance providers should consider coverage**
[Abstract: Symposium 10 April 2021 8:20 AM - 10:00 AM](#)



Dr. Simon Wong Kin Hung
Department of Surgery, The Chinese University of Hong Kong
Title: **Latest innovations in bariatric procedures**
[Abstract: Symposium 10 April 2021 8:20 AM - 10:00 AM](#)



Prof. Dato' Dr. Nik Ritza Kosai Nik Mahmood
Department of Surgery, Faculty of Medicine, UKM Specialist Centre
Title: **History and progress of bariatric surgery in Malaysia**
[Abstract: Symposium 10 April 2021 8:20 AM - 10:00 AM](#)

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SYMPOSIUM 10


Dr. Muffazal Lakdawala
Institute of Minimal Invasive Surgical Sciences & Research Centre
Saifee Hospital
Mumbai, India

History

1947: Dr. Jean Vague; made observation that upper body obesity predisposed to diabetes, Atherosclerosis, gout and calculi

1967: Avogaro & Crepaldi; described 6 moderately obese patients with diabetes, hypercholesterolemia and marked triglyceridemia, all of which improved with a Hypocaloric, low carbohydrate diet

In 1977: Gerald B. Phillips; developed the concept that Risk factors for myocardial infarction concur to form a "constellation of abnormalities": glucose intolerance, hyperinsulinemia, hyperlipidemia and hypertension is associated with heart disease and obesity **MUST BE LINKING FACTOR**

1977: Haller used the term "**metabolic syndrome**"; obesity, diabetes mellitus, hyperlipoproteinemia, hyperuricemia and steatosis hepatitis when describing the additive effects of risk factors on atherosclerosis

1988: Gerald M. Reaven proposed insulin resistance as the **linking factor** and named the constellation of abnormalities **Syndrome X**





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SYMPOSIUM 10


Prof. Dato' Dr. Nik Ritza Kosal Nik Mahmood
Department of Surgery
Faculty of Medicine
UKM Specialist Centre

BARIATRIC SURGERY IN MALAYSIA 1996 TO 2019

TOTAL: 5970



Year	Number of Surgeries
1996-2009	220
2010	158
2011	176
2012	204
2013	226
2014	220
2015	340
2016	514
2017	688
2018	1156
2019	2068

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SYMPOSIUM 9
Food Security & Obesity


Chairperson: Assoc. Prof. Dr. Wan Azdie Mohd Abu Bakar
International Islamic University Malaysia, Malaysia


Prof. Dr. Rafael Perex-Escamilla
Yale School of Public Health, Yale University, New Haven, USA
Title: Food Insecurity and Obesity Research and Policy: Where do we go from here?
[Continued Symposium 9 08h, April 2021 09:45 - 10:30 am](#)


Prof. Dr. Danielle Gallegos
Faculty of Health, School of Exercise and Nutrition Sciences, Queensland University of Technology, Australia
Title: Food insecurity and the ramifications for health and weight status: an international overview of high-inc
[Continued Symposium 9 08h, April 2021 09:45 - 10:30 am](#)


Prof. Dr. Norhasmah Sulaiman
Department of Nutrition and Dietetics, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia
Title: Not having enough food can cause obesity: Is that possible?
[Continued Symposium 9 08h, April 2021 09:45 - 10:30 am](#)



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SYMPOSIUM 9



Prof. Dr. Rafael Perez-Escamilla

Yale School of Public Health
Yale University
New Haven, USA

HFI & Obesity co-exist



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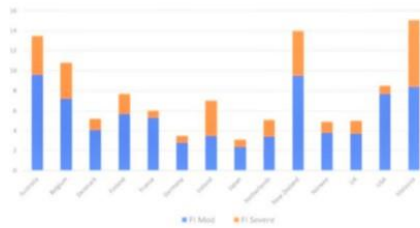
SYMPOSIUM 9



Prof. Dr. Danielle Gallegos

Faculty of Health
School of Exercise and Nutrition Sciences
Queensland University of Technology, Australia

Prevalence of HFI in high income countries (FIES data, 2017-2019)



The State of Food Security and Nutrition in the World 2020. www.fao.org

Conflicts



