

EASO

European Association for the Study of Obesity



ECO ONLINE 2021

28TH EUROPEAN CONGRESS ON OBESITY

10-13 MAY, 2021

PROGRAMME BOOK

#ECO2021

www.eco2021.com



ECO2021 ONLINE PROGRAMME: BASIC SCIENCE - 10 MAY 2021, MONDAY

09:45-10:15

ROOM 1

ECO2021 Welcome and Opening Plenary: General Topic

10:15-11:00

ROOM 1

Plenary with Meet the Expert Q&A
Central regulation of metabolism

11:00-11:30

MOVEMENT BREAK, COFFEE AND TOPIC FORUM DISCUSSIONS

11:30-12:30

ROOM 1

Topic Session
Central regulation of metabolism

ROOM 2

Topic Session
Obesity & Cancer

ROOM 3

Accepted Symposium:
Different approaches towards personalised
nutrition – status quo and future directions

ROOM 4

EASO Workshop
Killing statistical zombies (for good)

12:30-14:00

ROOM 1

12:30-12:45

ROOM 2

MOVEMENT AND LUNCH BREAK, VIDEO INSIGHTS AND 'MEET THE EXPERT NETWORKING APPOINTMENTS'

EASO NIU Award in Basic Science

14:00-15:00

ROOM 1

Abstract Discussion Session:
Integrative Pghysiology I

ROOM 2

Abstract Discussion Session:
Adipose Tissue Biology

ROOM 3

EASO Workshop:
Communicating Science

ROOM 4

Joint Session:
European Research Council

15:00-16:00

ROOM 1

Abstract Discussion Session: Integrative Physiology II

ROOM 2

Topic Session
Inter-organ communication /
Integrative physiology

ROOM 3

Topic Session
Adipose tissue biology

16:00-16:45

ROOM 1

Plenary with Meet the Expert Q&A
New insights into adipose tissue



ECO2021 ONLINE PROGRAMME: CHILDHOOD AND ADOLESCENT OBESITY - 11 MAY 2021, TUESDAY

09:15-10:00

ROOM 1

Plenary with Meet the Expert Q&A:
Obesity and Pregnancy

10:00-11:00

ROOM 1

Topic Session:
Physical Fitness and Physical Activity

ROOM 2

Topic Session:
Mental Health

ROOM 3

Joint Session:
WHO COSI

ROOM 4

COTF Teaching Workshop:

11:00-11:30

MOVEMENT BREAK, COFFEE AND TOPIC FORUM DISCUSSIONS

11:30-12:30

ROOM 1

Topic Session:
Successful Interventions for Obesity
Prevention and Treatment in Children and
Adolescents

ROOM 2

Topic Session:
Child Nutrition and Health

ROOM 3

Workshop:
Storytelling for Policymakers

ROOM 4

COTF Teaching Workshop:

12:30-14:00

ROOM 1

ROOM 2

MOVEMENT AND LUNCH BREAK, VIDEO INSIGHTS AND 'MEET THE EXPERT NETWORKING APPOINTMENTS'

Industry Session 1

14:00-15:00

ROOM 1

Abstract Discussion Session:
Early Life Risk Factors

ROOM 2

Abstract Discussion Session:
Management and Intervention

ROOM 3

COTF Teaching Workshop:

ROOM 4

Accepted Symposium:
Beyond Body Mass Index: positioning body
composition in the nutrition assessment
menu

15:00-16:00

ROOM 1

Abstract Discussion Session:
Nutrition/Dietary Patterns

ROOM 2

Abstract Discussion Session:
Life Course Approaches

ROOM 3

Joint Session:
COS and WHO on Digital Marketing

16:00-16:45

ROOM 1

Plenary with Meet the Expert Q&A
COVID19: Impacts on Child and Adolescent Health and Lifestyle



ECO2021 ONLINE PROGRAMME: BEHAVIOURAL AND PUBLIC HEALTH - 12 MAY 2021, WEDNESDAY

09:15-10:00

ROOM 1

Plenary with Meet the Expert Q&A
Reassessing prevention: From children to the elderly

10:00-11:00

ROOM 1

Topic Session:
Obesity and COVID19: underlying mechanisms and clinical implications

ROOM 2

Accepted Symposium:
The EU PROTEIN Project

ROOM 3

Joint Session with WHO:
Green Deal – Healthy and sustainable diets

ROOM 4

PHTF Workshop:
Food Insecurity

11:00-11:30

MOVEMENT BREAK, COFFEE AND TOPIC FORUM DISCUSSIONS

11:30-12:30

ROOM 1

Topic Session:
Apps: what are they good for?

ROOM 2

Topic Session:
Modelling obesity scenarios at regional, national and European levels

ROOM 3

Accepted Symposium
The impact of COVID-19 measures on lifestyle and weight: towards positive solutions

ROOM 4

PHTF Workshop:
Barriers to Health in Europe: Implications for Policy

12:30-14:00

ROOM 1

MOVEMENT AND LUNCH BREAK, VIDEO INSIGHTS AND 'MEET THE EXPERT NETWORKING APPOINTMENTS'

ROOM 2

Industry Session 2

ROOM 3

Industry Session 3

14:00-15:00

ROOM 1

Abstract Discussion Session:
Behaviour Change

ROOM 2

Abstract Discussion Session:
Epidemiology

ROOM 3

Policy Discussion Session:
Obesity: the next EU Health Mission?

15:00-16:00

ROOM 1

Abstract Discussion Session:
Nutrition

ROOM 2

Accepted Symposium:
COllaBoration in health economic modelling of OverWEight and oBesity: An invitation to the Cobweb network

ROOM 3

Topic Session:
Mental health and obesity stigma

ROOM 4

Abstract Discussion Session:
COVID-19

16:00-16:45

ROOM 1

Plenary with Meet the Expert Q&A Discussion:
Sustainability, food systems and climate change

16:45-18:15

ROOM 1

Industry Session 4



ECO2021 ONLINE PROGRAMME: MANAGEMENT AND INTERVENTION - 13 MAY 2021, THURSDAY

09:15-10:00

ROOM 1

Plenary with Meet the Expert Q&A:
Lipodistrophy / Sarcopenic obesity

10:00-11:00

ROOM 1

Accepted Symposium:

ROOM 2

Topic Session:
Drug treatment of obesity in adults

ROOM 3

EASO NWG Session:
Medical Nutrition Therapy
Recommendations

ROOM 4

EASO OMTF Session:
Sleep, Health and Obesity

11:00-11:30

MOVEMENT BREAK, COFFEE AND TOPIC FORUM DISCUSSIONS

11:30-12:30

ROOM 1

Topic Session:
Personalized treatment of obesity

ROOM 2

Topic Session:
Weight-reduced markers, to prevent weight
regain

ROOM 3

Accepted Symposium
Understanding Sarcopenic Obesity: The
Ignored Phenotype?

ROOM 4

EASO OMTF Session:
The diagnosis and management of post-
bariatric hypoglycaemia

12:30-14:00

ROOM 1

MOVEMENT AND LUNCH BREAK, VIDEO
INSIGHTS AND 'MEET THE EXPERT
NETWORKING APPOINTMENTS'

ROOM 2

Industry Session 5

ROOM 3

Industry Session 6

ROOM 4

Industry Session 7

14:00-15:00

ROOM 1

Abstract Discussion Session:
Novel Anti-Obesity Medications

ROOM 2

Abstract Discussion Session:
Behavioural and Lifestyle Interventions

ROOM 3

EASO Workshop:
Role of Physical Activity in the
management of obesity in adults

ROOM 4

Abstract Discussion Session:
Bariatric Surgery

15:00-16:00

ROOM 1

Joint Session:
AACE and EASO

ROOM 2

Joint Session with WHO:
Brief Interventions in Primary Settings

ROOM 3

Topic Session:
Special dieting

ROOM 4

Abstract Discussion Session:
Obesity Complications – COVID-19

16:00-16:45

ROOM 1

Plenary with Meet the Expert Q&A:
Predimed studies



BASIC SCIENCE - 10 MAY 2021, MONDAY

09:45-10:15	ECO2021 Welcome and Opening Plenary: General Topic		ROOM 1
10:15-11:00	Plenary with Meet the Expert Q&A: Central regulation of metabolism		ROOM 1
	Chairs: Maria Del Mar Malagon (Spain), Ellen Blaak (Netherlands)		
10:15-11:00		Central regulation of metabolism	C Diéguez (Spain)
11:00-11:30	Movement Break, Coffee and Topic Forum Discussions		ROOM 1
11:30-12:30	Topic Session: Central regulation of metabolism		ROOM 1
	Chairs: Carlos Diéguez (Spain), TBC		
11:30-11:50	TS01.01	Control of Integrative Physiology by the Melanocortin Circuitry	J Brüning (Germany)
11:50-12:10	TS01.02	Astrocytes and metabolism	J Chowen (Spain)
12:10 -12:20	TS01.03	Assessing Fat-free Mass at the Tissue-Organ Level Better Explains the Between-Subject Variance in Fasted Hunger Sensations: An Exploratory Study Using Magnetic Resonance Imaging in Healthy Men	N Casanova (UK)
12:20-12:30	TS01.04	Fgf21 influence on food choice and hypothalamic gene expression in obese male and female mice	P Orlov (Russia)
11:30-12:30	Topic Session: Obesity & Cancer		ROOM 2
	Chairs: Jennifer Lyn Baker (Denmark), Jørn Sagen (Norway)		
11:30-11:50	TS02.01	Tissue-specific functions of the inflammasomes in colon cancer development in an obesity context	V Catalan (Spain)
11:50-12:10	TS02.02	The inflammation state as main drivers of aberrant DNA-RNA methylation in colorectal cancer	M Macias (Spain)
12:10 -12:20	TS02.03	Six adiposity-related markers associations with incidence from 24 cancers – Findings from the UK Biobank prospective cohort study	S Parra Soto (UK)
12:20-12:30	TS02.04	Body mass index in childhood and its associations with risks of pre- and post-menopausal breast cancer	D C Pedersen (Denmark)
11:30-12:30	Accepted Symposium: Different approaches towards personalised nutrition – status quo and future directions		ROOM 3
	Chairs: TBC		
11:30-12:30	AS1.01	Different approaches towards personalized nutrition – status quo and future directions	C Holzapfel (Germany)
11:30-12:30	EASO Workshop: Killing statistical zombies (for good)		ROOM 4
	Chairs: Paul Christiansen (UK), TBC		
11:30-12:30	In the session, Paul Christiansen will describe some of the many statistical zombies that, despite being shown to be hugely problematic, are constantly being resurrected in research. He will also equip you with the weaponry necessary to slay these statistical zombies before they can get their claws into your work.		P Christiansen (UK)
12:30-14:00	Movement and Lunch break, Video Insights and 'Meet the Expert Networking Appointments'		ROOM 1
12:30-12:45	EASO NIU Award in Basic Science		ROOM 2
	Chairs: TBC		



BASIC SCIENCE - 10 MAY 2021, MONDAY

14:00-15:00	Abstract Discussion Session: Integrative Pghysiology I		ROOM 1
	Chairs: Harriet Schellekens (Ireland), Emanuel Canfora (Netherlands)		
14:00-14:07	AD01.01	Age - and sex - specific adaptation to sweet-fat diet consumption in mice	N Bazhan (Russia)
14:07-14:14	AD01.02	Sex-specific effect of FGF21 administration on hepatic steatosis in obese mice with {Lethal yellow} mutation	N Y Balybina (Russia)
14:14-14:21	AD01.03	Gut microbiota from patients with obesity who underwent a bariatric surgery could prevent of future weight regain under an obesogenic environment in a procedure manner. A fecal microbiota transplant proof of concept in mice	M Indias (Spain)
14:21-14:28	AD01.04	Serpina3c deficiency promotes High-Fat Diet-induced steatohepatitis through mediating necroptosis via β -catenin/FOXO1	L Qian (China)
14:28-14:35	AD01.05	Reshaping gut microbiota composition and bile acid signalling as beneficial mechanisms in the management of early obesity and fatty liver with {Akkermansia muciniphila} and quercetin supplementation	M J-Fernández (Spain)
14:35-14:42	AD01.06	Fibronectin type III domain-containing 4 drives fat browning and inhibits lipogenesis in human omental adipocytes	A Rodríguez (Spain)
14:42-15:00	Discussion		
14:00-15:00	Abstract Discussion Session: Adipose Tissue Biology		ROOM 2
	Chairs: Anne Bouloumié (France), Johan Jocken (Netherlands)		
14:00-14:15	AD02.01	Glucose-6-phosphate dehydrogenase deficiency associates with lower BMI in males with Type 2 diabetes	E G Fojas (UAE)
14:15-14:30	AD02.02	Obesity and weight loss modulate DNA methylation profile of SARS-CoV-2 receptor ACE2 in blood leukocytes	A G Izquierdo (Spain)
14:30-14:45	AD02.03	Psoriatic arthritis may be associated with metabolically adverse adipose tissue morphology	L D Ferguson (UK)
14:45-15:00	AD02.04	Visceral Fat Area and Cardiometabolic Risk: The Kardiovize Study	A Polcova (Czech Republic)
14:00-15:00	EASO Workshop: Communicating Science		ROOM 3
	Chairs: TBC		
14:00-15:00		Communicating Science	E Combet (UK)
14:00-15:00	Joint Session: European Research Council		ROOM 4
	Chairs: TBC		



BASIC SCIENCE - 10 MAY 2021, MONDAY

15:00-16:00	Abstract Discussion Session: Integrative Pghysiology II		ROOM 1
	Chairs: Victoria Catalan (Spain), Peter Aldiss (UK)		
15:00 - 15:10	AD03.01	Effects of oral lubrication on appetite, food intake and salivary biomarkers in model foods	E Stribitcaia (UK)
15:10 - 15:20	AD03.02	Genetically induced maternal obesity in Ay mice affects sex-specifically taste preferences and susceptibility to diet-induced obesity in offspring	E Denisova (Russia)
15:20 - 15:30	AD03.03	A newly identified MC4R mutation, found in a young male patient with obesity, blunts signal transduction and impairs alpha-MSH-induced cAMP production	E Trevellin (Italy)
15:30 - 15:40	AD03.04	Parathyroid hormone receptor expression in adipose tissue is related to whole-body metabolic health in lean, obese and cachectic individuals with normal or impaired glucose metabolism	Z Kovaničová (Slovakia)
15:40 - 15:50	AD03.05	Muscle-Specific microRNAs in Cultured Muscle Cells are Associated with Metabolic Characteristics of Cells' Donors	N Laiferová (Slovakia)
15:50-16:00	Discussion		
15:00-16:00	Topic Session: Inter-organ communication / Integrative physiology		ROOM 2
	Chairs: Gijs Goossens (Netherlands), Matthias Blüher (Germany)		
15:00-15:20	TS03.01	Leveraging microRNA targets to treat obesity	S M. Hartig (US)
15:20-15:40	TS03.02	Role of perivascular fat in microcirculation – CVD	E Eringa (Netherlands)
15:40-15:50	TS03.03	Role of interleukin-1 β in inflammation and extracellular matrix remodelling in obesity and its associated comorbidities	A Mentxaka (Spain)
15:50-16:00	TS03.04	Causal implication of the gut microbiota in type 2 diabetes resolution after Roux-en-Y gastric bypass	J Debédát (France)
15:00-16:00	Topic Session: Adipose tissue biology		ROOM 3
	Chairs: Gunnar Mellgren (Norway), Maria Angela Guzzardi (Italy)		
15:00-15:20	TS04.01	Revisiting adipose Tissue progenitors	A Bouloumié (France)
15:20-15:40	TS04.02	Metabolic and endocrine functions of bone marrow adipose tissue	W Cawthorn (UK)
15:40-15:50	TS04.03	Alterations in miR-26a levels in breast milk may affect gene expression of target genes (Hmag1, Rb1, and Adam17) in the adipose tissue of offspring	C A Pomar (Spain)
15:50-16:00	TS04.04	Associations of objectively measured physical activity, sedentary time and cardiorespiratory fitness with adipose tissue insulin resistance and ectopic fat in community volunteers	S Malaikah (UK)
16:00-16:45	Plenary with Meet the Expert Q&A: New insights into adipose tissue		ROOM 1
	Chairs: Roberto Vettor (Italy), Gema Frühbeck (Spain)		
16:00-16:45		New insights into adipose tissue	K Clément (France)



CHILDHOOD AND ADOLESCENT OBESITY - 11 MAY 2021, TUESDAY

09:15-10:00	Plenary with Meet the Expert Q&A: Obesity and Pregnancy		ROOM 1
	Chairs: Nathalie Farpour-Lambert (Switzerland), Nicola Heslehurst (UK)		
09:15-09:35	PL3.01	Prenatal exposure to environmental toxins and risks of developing obesity in childhood	T K Jensen (Denmark)
09:35-09:55	PL3.02	Effects of gestational weight gain interventions on obesity in children	A Astrup (Denmark)
09:55-10:00	Discussion		
10:00-11:00	Topic Session: Physical Fitness and Physical Activity		ROOM 1
	Chairs: Grace O'Malley (Ireland), Pawel Matusik (Poland)		
10:00-10:20	TS05.01	Strategies to promote physical activity among European children and adolescents.	C Joisten (Germany)
10:20-10:40	TS05.02	Determinants and consequences of physical activity and sedentary behaviour in European children and adolescents with obesity	F B Ortega (Spain)
10:40-10:50	TS05.03	24-hour movement behaviors and cardiometabolic risk factors in children: A isotemporal substitution analysis	L N Reis (Brasil)
10:50-11:00	TS05.04	Exercise motives in adolescent girls and boys of different BMI	A P Bulian (Croatia)
10:00-11:00	Topic Session: Mental Health		ROOM 2
	Chairs: Caroline Braet (Belgium), Susana Jiménez-Murcia (Spain)		
10:00-10:20	TS06.01	Mental health and inflammation in youth with obesity: what can we learn?	C Braet (Belgium)
10:20-10:40	TS06.02	Food addiction and behavioural addiction: A risky interaction during adolescence	S Jiménez-Murcia (Spain)
10:40-10:50	TS06.03	Adolescent's weight status and mental wellbeing: the role of body image	A Siri Fismen (Norway)
10:50-11:00	TS06.04	Adolescents' stress reactivity and emotional eating during a lab stressor: differences depending on chronic stress and overweight	K Wijnant (Belgium)
10:00-11:00	Joint Session: WHO COSI		ROOM 3
	Chairs: TBC		
10:00-11:00	COTF Teaching Workshop		ROOM 4
	Chairs: TBC		
11:00-11:30	Movement Break, Coffee and Topic Forum Discussions		ROOM 1
11:30-12:30	Topic Session: Successful Interventions for Obesity Prevention and Treatment in Children and Adolescents		ROOM 1
	Chairs: Louisa Ells (UK), Petur Juliusson (Norway)		
11:30-11:50	TS07.01	Effectiveness on interventions in children with obesity	N Farpour-Lambert (Switzerland)
11:50-12:10	TS07.02	Good Practice Criteria for Childhood Obesity Prevention in Kindergartens	M Hassapidou (Greece)
12:10-12:30	TS07.03	Complications of Childhood Obesity: the 4M approach	K Morrison (Canada)
11:30-12:30	Topic Session: Child Nutrition and Health		ROOM 2
	Chairs: Ronit Endevelt (Israel), Paulina Metelska (Poland)		
11:30-11:50	TS08.01	Obesity Prevention in Children and Adolescents: nutritional challenges	M Flynn (Ireland)
11:50-12:10	TS08.02	Food insecurity, dietary pattern and childhood obesity	M Bryant (UK)
12:10-12:30	TS08.03	Biomarkers in breast feeding and metabolic programming	C Picó (Spain)



CHILDHOOD AND ADOLESCENT OBESITY - 11 MAY 2021, TUESDAY

11:30-12:30	Workshop: Storytelling for Policymakers		ROOM 3
	Chairs: TBC		
11:30-12:30	COTF Teaching Workshop		ROOM 4
	Chairs: TBC		
12:30-14:00	Movement and Lunch break, Video Insights and 'Meet the Expert Networking Appointments'		ROOM 1
12:30-14:00	Industry Session 1		ROOM 2
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
14:00-15:00	Abstract Discussion Session: Early Life Risk Factors		ROOM 1
	Chairs: Lise Bjerregaard (Denmark), Nathalie Farpour-Lambert (Switzerland)		
14:00-14:08	AD04.01	The estimates of predictors associated with child body mass index in children in a population-based study: a systematic review, meta-analysis and modelling study	Y Mou (Netherlands)
14:08-14:16	AD04.02	Maternal Stress from Conception to Two Years Postpartum and Risk of Childhood Obesity: A Systematic Review	K M Sikar (Ireland)
14:16-14:24	AD04.03	Maternal and paternal distress in early childhood and child adiposity trajectories: Evidence from the Millennium Cohort Study	K Tommerup (UK)
14:24-14:32	AD04.04	The excess weight of 0 to 7 year-old children. Risk factors	E P Pereda (Spain)
14:32-14:40	AD04.05	The effect of blood lipid profiles during pregnancy on longitudinal offspring health	C Yelverton (Ireland)
14:40-14:48	AD04.06	Obesity and cognitive function in children and adolescents: relevance of socio-economic factors	T Ashraf (UAE)
14:48-15:00	Discussion		
14:00-15:00	Abstract Discussion Session: Management and Intervention		ROOM 2
	Chairs: Ram Weiss (Israel), Cilius Esmann Fonvig (Denmark)		
14:00-14:08	AD05.01	Associations between lifestyle interventions during pregnancy and childhood weight and growth: a systematic review and meta-analysis	R Raab (Germany)
14:08-14:16	AD05.02	Detection of metabolic syndrome in adolescents with obesity or overweight: new score based on explainable artificial intelligence	K Benmohammed (Algeria)
14:16-14:24	AD05.03	Dextroamphetamine treatment for children with hypothalamic obesity	M S Welling (Netherlands)
14:24-14:32	AD05.04	Barriers and facilitators for implementing paediatric telehealth: rapid review of user perspectives	L Tully (Ireland)
14:32-14:40	AD05.05	Resting energy expenditure is not altered in children and adolescents with obesity. Effect of age and gender and association with serum leptin levels	J Gómez-Ambrosi (Spain)
14:40-14:48	AD05.06	Where do observers look when estimating children's weight status and are looking patterns associated with accuracy? An eye-tracking study	E H Evans (UK)
14:48-14:56	AD05.07	The associations between body mass index and sleep duration in infants and toddlers: a cross-sectional study	A Duarte (Portugal)
14:56-15:00	Discussion		
14:00-15:00	COTF Teaching Workshop		ROOM 3
	Chairs: TBC		
14:00-15:00	Accepted Symposium: Beyond Body Mass Index: positioning body composition in the nutrition assessment menu		ROOM 4
	Chairs: TBC		
14:00-15:00	AS2.01	Beyond Body Mass Index: positioning body composition in the nutrition assessment menu	V O Owino (Austria)



CHILDHOOD AND ADOLESCENT OBESITY - 11 MAY 2021, TUESDAY

15:00-16:00	Abstract Discussion Session: Nutrition/Dietary Patterns		ROOM 1
	Chairs: Maria Hassapidou (Greece), Maria Bryant (UK)		
15:00-15:08	AD06.01	Dietary intake in Finnish primary school-aged children with normal weight and overweight/obesity	E Koivuniemi (Finland)
15:08-15:16	AD06.02	Metabolically unhealthy obesity and lifestyle-related factors in children and adolescents	H Samouda (Luxembourg)
15:16-15:24	AD06.03	Grazing Eating Behavior in Pediatric Obesity	S Ramalho (Portugal)
15:24-15:32	AD06.04	The effect of ultra-processed food consumption on plasma the metabolome and its role in childhood obesity	E Handakas (UK)
15:32-15:40	AD06.05	Associations between environmental factors and childhood eating behaviours in 5-year-old children: Findings from the ROLo longitudinal birth cohort study	A Delahunty (Ireland)
15:40-15:48	AD06.06	The prospective association between dietary energy density and adiposity in children and adolescents	M M Dagali (UK)
15:48-16:00	Discussion		
15:00-16:00	Abstract Discussion Session: Life Course Approaches		ROOM 2
	Chairs: Melania Manco (Italy), Erica van den Akker (Netherlands)		
15:00-15:08	AD07.01	Adiposity rebound and cardiometabolic health in childhood – results from the birth cohort Generation XXI	A C Santos (Portugal)
15:08-15:16	AD07.02	Associations of maternal birthweight, childhood height, body mass index and change in body mass index from childhood to pregnancy with risks of preterm delivery	D C. Pedersen (Denmark)
15:16-15:24	AD07.03	Development of obesity among children and adolescents in Germany - Results of the KIGGS cohort	A Schienkiewitz (Germany)
15:24-15:32	AD07.04	Childhood body size and the subsequent risk of anorexia nervosa and bulimia nervosa among women	B W Jensen (Denmark)
15:32-15:40	AD07.05	Self-concept, childhood obesity, and primary caregiver education in an Irish cohort of children	M A Dow (Ireland)
15:40-15:48	AD07.06	Maternal perception, concern and dissatisfaction with child weight and their association with feeding practices	A Costa (Portugal)
15:48-16:00	Discussion		
15:00-16:00	Joint Session with COS and WHO on Digital Marketing		ROOM 3
	Chairs: TBC		
16:00-16:45	Plenary with Meet the Expert Q&A: COVID19: Impacts on Child and Adolescent Health and Lifestyle		ROOM 1
	Chairs: Jens-Christian Holm (Denmark), Jo Jewell (UK)		
16:00-16:20	PL4.01	COVID-19: Impacts on Child and Adolescent Obesity and Health	K Wickramasinghe (Russia)
16:20-16:40	PL4.02	COVID-19: Impacts on Child and Adolescent Obesity and Health	J Jewell (UK)
16:40-16:45	Discussion		



BEHAVIOURAL AND PUBLIC HEALTH - 12 MAY 2021, WEDNESDAY

09:15 - 10:00	Plenary with Meet the Expert Q&A: Reassessing prevention: From children to the elderly		ROOM 1
	Chairs: Monica Bullo (Spain), Susanna Lehtinen-Jacks (Finland)		
09:15 - 10:00	Reassessing prevention: From children to the elderly		M Fogelholm (Finland)
10:00 - 11:00	Topic Session: Obesity and COVID19: underlying mechanisms and clinical implications		ROOM 1
	Chairs: Rachel Golan (Israel), TBC		
10:00-10:20	TS09.01	COVID19 makes tackling the obesity pandemic even more urgent	N Stefan (Germany)
10:20-10:40	TS09.02	Obesity and COVID-19: Two sides of the coin.	L Busetto (Italy)
10:40-11:00	TS09.03	Challenges for a Ministry of Health	D Cauchi (Malta)
10:00-11:00	Accepted Symposium: The EU PROTEIN Project		ROOM 2
	Chairs: TBC		
10:00-11:00	Joint Session with WHO : Green Deal – Healthy and sustainable diets		ROOM 3
	Chairs: TBC		
10:00-11:00	PHTF Workshop: Food Insecurity		ROOM 4
	Chairs: TBC		
11:00-11:30	Movement Break, Coffee and Topic Forum Discussions		ROOM 1
11:30-12:30	Topic Session: Apps: what are they good for?		ROOM 1
	Chairs: Berit Heitmann (Denmark), Antonio Palmeiras (Portugal)		
11:30-11:50		mHealth approaches for obesity prevention and weight management: Successes and new directions	K Pietiläinen (Finland)
11:50-12:10		Self-monitoring of dietary intake or physical activity	TBC
12:10-12:30		Mobile apps: tracking psychological and behavioural mechanisms of successful weight management	J Stubbs (UK)
11:30-12:30	Topic Session: Modelling obesity scenarios at regional, national and European levels		ROOM 2
	Chairs: Tommy Visscher (Netherlands), TBC		
11:30-11:50	TS11.01	Macroenvironmental determinants of food intake (modelling information at social media, product labelling, country policies affecting prices and food availability). WHO Food and Nutrition Action Plan	J Breda (Portugal)
11:50-12:10	TS11.02	Macroenvironmental determinants of food intake (modelling information at social media, product labelling, country policies affecting prices and food availability). WHO Food and Nutrition Action Plan.	K Wickramasinghe (Russia)
12:10-12:30	TS11.03	Economic impacts of obesity: a cross-country analysis	R Nugent (US)
11:30-12:30	Accepted Symposium: The impact of COVID-19 measures on lifestyle and weight: towards positive solutions		ROOM 3
	Chairs: TBC		
11:30-12:30	PHTF Workshop: Barriers to Health in Europe: Implications for Policy		ROOM 4
	Chairs: TBC		



BEHAVIOURAL AND PUBLIC HEALTH - 12 MAY 2021, WEDNESDAY

12:30-14:00	Movement and Lunch break, Video Insights and 'Meet the Expert Networking Appointments'		ROOM 1
12:30-14:00	Industry Session 2		ROOM 2
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
12:30-13:30	Industry Session 3		ROOM 3
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
14:00-15:00	Abstract Discussion Session: Behaviour Change		ROOM 1
	Chairs: Janas Harrington (Ireland), Graham Finlayson (UK)		
14:00-14:08	AD08.01	Understanding the effects of portion reduction on food choice: a warning for food manufacturers and policy makers	R O Shahrokni (UK)
14:08-14:16	AD08.02	The Practice Example in Corporate Nutrition Strategy: Sabri Ülker Foundation Healthy Living Center	B Mutuş (Turkey)
14:16-14:24	AD08.03	Personalized e-interactions with low-income populations drive weight loss for obesity	L Tian (US)
14:24-14:32	AD08.04	The effect of calorie labeling, motivation and habits on the calorie content of items selected from a university coffee shop menu	K Tapper (UK)
14:32-14:40	AD08.05	Predictors of weight gain during the COVID-19 quarantine: the Lithuanian COVIDiet study	V Kriaucioniene (Lithuania)
14:40-14:48	AD08.06	Direct and indirect costs of obesity – a Danish register-based study from 2002 to 2018	M Bøgelund (Denmark)
14:48-14:56	AD08.07	The prevalence of sleep disturbances and physical activity during the lockdown due to COVID-19 pandemic in Polish population	K Wyskida (Poland)
14:56-15:00	Discussion		
14:00-15:00	Abstract Discussion Session: Epidemiology		ROOM 2
	Chairs: Lauren Lissner (Sweden), Tommy Visscher (Netherlands)		
14:00-14:08	AD09.01	Cord blood Leptin as a predictor of age at adiposity rebound - the EDEN mother-child cohort	A Cisse (France)
14:08-14:16	AD09.02	The prevalence of comorbidities in people with obesity – a Danish register-based study from 2002 to 2018	M Bøgelund (Denmark)
14:16-14:24	AD09.03	Abdominal obesity in Tunisian women: Results of a national household survey, 2016	M Zribi (Tunisia)
14:24-14:32	AD09.04	Maternal pre-pregnancy BMI and offspring hyperactivity-inattention from 3 to 8 years in the EDEN birth cohort study	C Dow (France)
14:32-14:40	AD09.05	Associations of {FABP1} and {FABP4} genes polymorphisms with body weight in childhood and adulthood	A Raskilienė (Lithuania)
14:40-14:48	AD09.06	Challenges in weighing community-dwelling individuals with high body mass index: a barrier to accessing safe routine care	K Williamson (UK)
14:48-15:00	Discussion		
14:00-15:00	Policy Discussion Session : Obesity : the next EU Health Mission?		ROOM 3
	Chairs: TBC		
15:00-16:00	Abstract Discussion Session: Nutrition		ROOM 1
	Chairs: Teodora Handjieva-Darlenska (Bulgaria), Snezana Polovina (Serbia)		
15:00-15:10	AD10.01	Consumption of sugar-sweetened beverages, fruit juice, low-calorie beverages and body weight change and obesity in Dutch adults: The Lifelines Cohort - a SWEET study	M E C Buso (Netherlands)



BEHAVIOURAL AND PUBLIC HEALTH - 12 MAY 2021, WEDNESDAY

15:10-15:20	AD10.02	Energy density of commercial foods for infants and young children in Bulgaria	A Partzova (Bulgaria)
15:20-15:30	AD10.03	Bi-directional association of appetitive behaviors and body composition in school-aged children	S Warkentin (Portugal)
15:30-15:40	AD10.04	Knowledge of nutritional requirements and food habits in Qatar: The case of Community College students	L Ismayil (Qatar)
15:40-15:50	AD10.05	Impact of obesity on gestational diabetes mellitus	S Abadia (Tunisia)
15:50-16:00	Discussion		
15:00-16:00	Accepted Symposium: Collaboration in health economic modelling of overweight and obesity: an invitation to the cobweb network		ROOM 2
	Chairs: TBC		
15:00-16:00	Topic Session: Mental health and obesity stigma		ROOM 3
	Chairs: Ximena Ramos-Salas (Sweden), Vicki Mooney (Spain)		
15:00-15:20	TS12.01	Obesity stigma, mental health and dietary behaviours	R Puhl (US)
15:20-15:40	TS12.02	Post bariatric effects on mental health	A Ahern (UK)
15:40-16:00	TS12.03	Healthy aging and cognition in the Predimed Plus Study	F F Aranda (Spain)
15:00-16:00	Abstract Discussion Session: COVID-19		ROOM 4
	Chairs: Jay Duckworth (UK), Daniel Cauchi (Malta)		
15:00-15:08	AD11.01	The COVID-19 pandemic and its impact on participation in an online behavioural weight loss programme: A Qualitative Exploration	M Thomson (UK)
15:08-15:16	AD11.02	Variation of free sugar intake across eating occasions in secondary school pupils in the West Midlands, United Kingdom: a cross sectional study	A Stewart (UK)
15:16-15:24	AD11.03	Impact of COVID-19 lockdown measures on lifestyle behavior in children and adolescents with severe obesity	O Abawi (Netherlands)
15:24-15:32	AD11.04	The utility of the Edmonton Obesity Staging System for the prediction of COVID-19 outcomes: A multi-center study	M R Flores (Mexico)
15:32-15:40	AD11.05	Digital transformation for the virtual management of Obesity	T M Álvarez (Spain)
15:40-15:48	AD11.06	Effect of COVID-19 lockdowns on physical activity, eating behaviour, body weight and psychological outcomes in a post-bariatric cohort	A Bellicha (France)
15:48-15:56	AD11.07	Facing challenging times due to Covid-19 in Portugal with remarkable enthusiasm by adolescents in Youth Alliances of the EU-H2020 Project CO-CREATE	S Mendes (Portugal)
15:56-16:00	Discussion		
16:00-16:45	Plenary with Meet the Expert Q&A Discussion: Sustainability, food systems and climate change		ROOM 1
	Chairs: João Breda (Portugal), Jason Halford (UK)		
16:00-16:15		Sustainable food production and security	J McDermott (Belgium)
16:15-16:30		Environmental and health sustainability of the Mediterranean Diet	L Serra-Majem (Spain)
16:30-16:45		The impact of dietary habits on climate change and land use	J Macdiarmid (UK)
16:45-18:15	Industry Session 4		ROOM 1
	For further details, please visit: https://eco2021.com/?p=industry_symposia		

CASE-BY-CASE: ADVANCING INDIVIDUALIZED OBESITY CARE

12:30 – 14:00 CET | Thursday 13th May 2021
Available on the ECO 2021 virtual congress platform

Join us to explore real-life case examples
centred around:

Weight-loss with lifestyle interventions

**Supporting individuals with long-term
weight-loss maintenance**

Using weight-management pharmacotherapies

Sean Wharton

Kirsi Pietiläinen

Elisabeth van Rossum

The **Case-by-case: advancing individualized obesity care, Virtual Congress, United Kingdom, 13/05/2021-13/05/2021** has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 1 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

This symposium is supported by an educational grant from Novo Nordisk A/S.





MANAGEMENT AND INTERVENTION - 13 MAY 2021, THURSDAY

09:15 - 10:00	Plenary with Meet the Expert Q&A: Lipodistrophy / Sarcopenic obesity		ROOM 1
	Chairs: Rocco Barazzoni (Italy), Sven Francque (Belgium)		
09:15-09:35	PL7.01	Diagnosis and management of Lipodistrophy	F Santini (Italy)
09:35-09:55	PL7.02	Diagnostic criteria for Sarcopenic Obesity (ESPEN-EASO)	T Cederholm (Sweden)
09:55-10:00	Discussion		
10:00-11:00	Accepted Symposium:		ROOM 1
	Chairs: TBC		
10:00-11:00	Topic Session: Drug treatment of obesity in adults		ROOM 2
	Chairs: Dragan Micic (Serbia), Paolo Sbraccia (Italy)		
10:00-10:20	TS13.01	New drugs in the pipeline	H Toplak (Austria)
10:20-10:40	TS13.02	New targets for future drugs	A Vidal-Puig (UK)
10:40-11:00	TS13.03	Semaglutide treatment of Obesity	D Dicker (Israel)
10:00-11:00	EASO NWG Session: Medical Nutrition Therapy Recommendations		ROOM 3
	Chairs: Louisa Ells (UK), Maria Hassapidou (Greece)		
10.00-10.10		European Dietary Recommendations – The Current Status	TBC
10.10-10.20		EASO/EFAD Medical Nutrition Therapy Recommendations for the Treatment of Obesity in Children	TBC
10.20-10.30		EASO/EFAD Medical Nutrition Therapy Recommendations for the Treatment of Obesity in Adults	TBC
10:30-10:35		Participant Word Cloud: What do you think should be covered in these recommendations?	TBC
10:35-11:00		Moderated panel discussion with coffee: implications for practitioners, Patients and policymakers	TBC
10:00-11:00	EASO OMTF Session: Sleep, Health and Obesity		ROOM 4
	Chairs: Luca Busetto (Italy), Lisbeth van Rossum (Netherlands)		
10:00-10:20		Sleep Quality on Obesity	N Montano (Italy)
10:20-10:40		Sleep Apnoea	A Tahrani (UK)
10:40-10:50	TF1.1	Investigating Continuous Positive Airway Pressure (CPAP) Adherence - Patient Benefits and Barriers in a level 3 Weight Management Service	R Fox (Ireland)
10:50-11:00	TF1.2	Evening chronotype: an independent risk factor for cardiometabolic diseases in obesity	G Muscogiuri (Italy)
11:00-11:30	Movement Break, Coffee and Topic Forum Discussions		ROOM 1
11:30-12:30	Topic Session: Personalized treatment of obesity		ROOM 1
	Chairs: Ferruccio Santini (Italy), Francisco Tinahones (Spain)		
11:30-11:50	TS14.01	Nutrigenomics	D Corella (Spain)
11:50-12:10	TS14.02	Twin studies for epigenomic markers in obesity	J T Bell (UK)
12:10-12:30	TS14.03	Metabolomic signatures after bariatric surgery	M P Monteiro (Portugal)



MANAGEMENT AND INTERVENTION - 13 MAY 2021, THURSDAY

11:30-12:30	Topic Session: Weight-reduced markers, to prevent weight regain		ROOM 2
	Chairs: Alex Miras (UK), Paula Freitas (Portugal)		
11:30-11:50	TS15.01	Weight-reduction-induced markers of weight regain: characterisation and mechanisms	M van Baak (Netherlands)
11:50-12:10	TS15.02	Epigenomic biomarkers to predict weight reduction and weight regain in patients with obesity	A Crujeiras (Spain)
12:10-12:30	TS15.03	Adipose tissue: an under-exploited source of biomarkers for obesity sub-typing and personalized obesity care.	A Rudich (Israel)
11:30-12:30	Accepted Symposium: Understanding Sarcopenic Obesity: The Ignored Phenotype?		ROOM 3
	Chairs: TBC		
11:30-12:30	AS7.01	Understanding Sarcopenic Obesity: The Ignored Phenotype?	M El Ghoch (Lebanon)
11:30-12:30	EASO OMTF Session: The diagnosis and management of post-bariatric hypoglycaemia		ROOM 4
	Chairs: Volkan Yumuk (Turkey), Davide Carvalho (Portugal)		
11:30-11:50		Hypoglycemia after bariatric surgery: pathophysiology and assessment	A Pucci (UK)
11:50-12:10		Long term incidence of hypoglycaemia after bariatric surgery	K Sjöholm (Sweden)
12:10-12:30		Novel pharmacological approaches for post-bariatric hypoglycaemia	A Ciudin (Spain)
12:30-14:00	Movement and Lunch break, Video Insights and 'Meet the Expert Networking Appointments'		ROOM 1
12:30-14:00	Industry Session 5		ROOM 2
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
12:30-14:00	Industry Session 6		ROOM 3
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
12:30-14:00	Industry Session 7		ROOM 4
	For further details, please visit: https://eco2021.com/?p=industry_symposia		
14:00-15:00	Abstract Discussion Session: Novel Anti-Obesity Medications		ROOM 1
	Chairs: Hermann Toplak (Austria), Constantine Tsigos (Greece)		
14:00-14:07	AD12.01	Semaglutide 2.4 mg Induces Weight Loss and Improves Body Composition Across Age Groups in Adults With Overweight or Obesity: Post-Hoc Analysis of the STEP 1 Trial	D Dicker (Israel)
14:07-14:14	AD12.02	Semaglutide 2.4 mg and Intensive Behavioural Therapy in Subjects with Overweight or Obesity (STEP 3)	J P Frias (US)
14:14-14:21	AD12.03	Efficacy and Safety of AM833 for Weight Loss: A Dose-finding Trial in Adults with Overweight/Obesity	R L Batterham (UK)
14:21-14:28	AD12.04	Safety and Tolerability of Concomitant Administration of Multiple-Dose AM833 with Semaglutide 2.4 mg for Weight Management	L B Enebo (Denmark)
14:28-14:35	AD12.05	The effect of AM833 on patient-reported outcomes in individuals with overweight or obesity	K H Pietiläinen (Finland)
14:35-14:42	AD12.06	Effects of Glucagon-Like-Peptide-1 analogue treatment in genetic obesity	M S. Welling (Netherlands)
14:42-14:49	AD12.07	Once-Weekly Semaglutide 2.4 mg Improved Metabolic Syndrome in Adults With Overweight or Obesity: Post-Hoc Analysis of the STEP 1 Trial	C W le Roux (Ireland)
14:49-14:56	AD12.08	Semaglutide 2.4 mg Once Weekly Improves Patient-Reported Outcome Measures of Physical Functioning in Adults with Overweight or Obesity in the STEP 1 Trial	S Wharton (Canada)
14:56-15:00	Discussion		



MANAGEMENT AND INTERVENTION - 13 MAY 2021, THURSDAY

14:00-15:00	Abstract Discussion Session: Behavioural and Lifestyle Interventions		ROOM 2
	Chairs: Dominique Durrer (Switzerland), Simon Williams (UK)		
14:00-14:08	AD13.01	Bump2Baby and Me: protocol for a randomised control trial of mHealth coaching for healthy gestational weight gain and improved postnatal outcomes in high-risk women and their offspring	A A Geraghty (Ireland)
14:08-14:16	AD13.02	ACT and mindfulness group intervention for enhancing psychological and physical well-being of adults struggling with overweight: the Mind&Life study protocol	I Iturbe (Spain)
14:16-14:24	AD13.03	Relationship between Obesity, Insulin Resistance and Glycemic Changes in Type 2 Diabetes Mellitus: Initial Insights from the Randomised Trial Evaluating Whole-Body Digital Twin Technology Enabled Precision Nutrition for Reversal of Diabetes	P Shamanna (India)
14:24-14:32	AD13.04	Development of an acceptance-based guided self-help behavioural intervention for weight loss maintenance: an evidence-, theory- and person-based approach	R Richards (UK)
14:32-14:40	AD13.05	Predictors of weight loss within a digital behaviour change programme	R Huntriss (UK)
14:40-14:48	AD13.06	Changes in appetite-regulating hormones do not predict weight regain during a combined lifestyle intervention for obesity	S Kuckuck (Netherlands)
14:48-14:56	AD13.07	Attrition and retention in multidisciplinary weight management interventions for adults with obesity: a systematic review	J Everitt (UK)
14:56-15:00	Discussion		
14:00-15:00	EASO Workshop: Role of Physical Activity in the management of obesity in adults		ROOM 3
	Chairs: TBC		
14:00-15:00	Abstract Discussion Session: Bariatric Surgery		ROOM 4
	Chairs: Hassan Kahal (UK), Andreea Ciudin (Spain)		
14:00-14:08	AD14.01	The effect of bariatric surgery on healthcare costs and labour market attachment	M Bøgelund (Denmark)
14:08-14:16	AD14.02	Does post-bariatric surgery nutritional follow-up in primary care in the UK meet current clinical guidance?	H M Parretti (UK)
14:16-14:24	AD14.03	Bariatric surgery impacts on gut microbiota composition and faecal metabolome profile in morbid obese patients	S Román-Sagüillo (Spain)
14:24-14:32	AD14.04	The association between bariatric surgery and cataract: a cohort study from Swedish nationwide healthcare registries	T Burkard (Switzerland)
14:32-14:40	AD14.05	Gastric bypass with sleeve pouch delays weight regain: five years results of a rct	S Okkema (Netherlands)
14:40-14:48	AD14.06	A systematic review of food preference modifications after bariatric surgery	E Guyot (France)
14:48-14:56	AD14.07	Short and long term effects of bariatric surgery in obesity among individuals with MC4R deficiency: data from a large diabetes centre in the United Arab Emirates	E G Fojas (UAE)
14:56-15:00	Discussion		
15:00-16:00	Joint Session: AACE and EASO		ROOM 1
	Chairs: Monica Agarwal (US), Dror Dicker (Israel)		
15:00-15:15		ABCD of Obesity	J Mechanick (US)
15:15-15:30		Towards a new advanced diagnostic framework	G Frühbeck (Spain)
15:30-15:45		ABCD: Application in clinical settings	L Busetto (Italy)
15:45-16:00		Medical Management and Newer Therapies for Obesity	T Garvey (US)



MANAGEMENT AND INTERVENTION - 13 MAY 2021, THURSDAY

15:00-16:00	Joint Session with WHO : Brief Interventions in Primary Settings		ROOM 2
	Chairs: TBC		
15:00-16:00	Topic Session : Special dieting		ROOM 3
	Chairs: Mette Svendsen (Norway), Ellen Govers (Netherlands)		
15:00-15:20	TS16.01	Different dietary approaches to calorie reduction – learning from evidence and practice.	L Eills (UK)
15:20-15:40	TS16.02	Very Low Calorie Ketogenic Diets	A Colao (Italy)
15:40-16:00	TS16.03	Special diets to microbiota modulation	I Moreno-Indias (Spain)
15:00-16:00	Abstract Discussion Session : Obesity Complications – COVID-19		ROOM 4
	Chairs: Abd Tahrani (UK), Sébastien Czernichow (France)		
15:00-15:08	AD15.01	Arterial stiffness and cardiometabolic-based chronic disease: the KardioVize study	I Pavlovska (Czech Republic)
15:08-15:16	AD15.02	Quality of Life, Physical Function and Resting Oxygen Saturation associated with high STOP-BANG (Sleep Apnoea) Scores in a population with BMI>35kg/m2	R Fox (Ireland)
15:16-15:24	AD15.03	Screening for Obstructive Sleep Apnoea in Women in a Level 3 Weight Management Service – Do the Epworth Sleep Scale and the STOPBANG questionnaires have Predictive Validity?	R Fox (Ireland)
15:24-15:32	AD15.04	Body mass index, but not waist circumference nor metabolic control, is associated with the presence of NAFLD in subjects with type 1 diabetes	J Mertens (Belgium)
15:32-15:40	AD15.05	Cardio-metabolic Indices and Metabolic Syndrome as Predictors of Clinical Severity of Gastroenteropancreatic Neuroendocrine Tumors (GEP-NET)	L Barrea (Italy)
15:40-15:48	AD15.06	Ultra-processed products and markers of liver health: longitudinal analysis in older individuals with metabolic syndrome from the PREDIMED-Plus trial cohort	J Konieczna (Spain)
15:48-15:56	AD15.07	Higher levels of C-Reactive Protein in patients with overweight and SARS-CoV-2 related pneumonia	S Bettini (Italy)
15:56-16:00	Discussion		
16:00-16:45	Plenary with Meet the Expert Q&A: Predimed studies		ROOM 1
	Chairs: Felipe Casanueva (Spain), Annamaria Colao (Italy)		
16:00-16:45		Predimed Studies	J Salas-Salvadó (Spain)



E-POSTERS



E-POSTERS

- EP1-01** **Metabolomic profile after acute and medium-term intervention with *Physalis peruviana* L. High impact over the insulin signalling pathways**
Natalia Moreno Castellanos, Alberto Angel Martin, Fabrice Vaillant
- EP1-02** **Association between rs174537 FADS1 genotype and immune cell profiles in abdominal and femoral subcutaneous adipose tissue: An exploratory study in obese adults**
Chenxuan Wang, Jessica Murphy, Kerri Delaney, Natalie Khor, Jose Morais, Michael Tsoukas, Dana Lowry, David Mutch, Sylvia Santosa
- EP1-03** **Metabolomic profile of Metabolic syndrome in women in fertile and postmenopausal age and their comparison with men in the same age groups**
Serena Pisoni, Vannina González Marrachelli, Jose Manuel Morales Tatay, Consuelo Borrás Blasco, Anna Maria Di Blasio, Daniel Monleón Salvadó
- EP1-04** **Fecal microbiota signatures associated with body composition and weight loss in elderly subjects with overweight/obesity and metabolic syndrome**
Alessandro Atzeni
- EP1-05** **"Superfoods" during COVID-19 pandemic**
Katarzyna Wyskida, Michał Tworek, Agnieszka Wikarek, Paulina Kosińska, Ewa Łapczyńska, Jakub Maciurzyński, Magdalena Olszancka Glinianowicz
- EP1-06** **Association of androgen status with abdominal obesity in infertile males of different age groups**
Elena Epanchintseva, Svetlana Iankovskaia, Vera Selyatitskaya
- EP1-07** **The role of visceral tissue in gender differences of circadian rhythm of carbohydrate metabolism**
Maksim Sorokin, Boris Pinkhasov, Svetlana Iankovskaia, Nadezhda Mikhaylova, Vera Selyatitskaya
- EP1-08** **Single-anastomosis duodenoileal bypass with sleeve gastrectomy vs sleeve gastrectomy: new insight into weight loss and metabolic profile**
Sara Becerril, Amaia Rodríguez, Victoria Catalán, Beatriz Ramírez, Xabier Unamuno, Amaia Mentxaka, Javier Gómez Ambrosi, Javier A. Cienfuegos, Gema Frühbeck
- EP1-09** **Comparative study of adipocytes from different sources as a potential cell model for obesity research: new immortalized adipose-derived stem cell (ASC) line ASC52Telo vs primary ASC**
Denis Masnikov, Iurii Stafeev, Svetlana Michurina, Elizaveta Mamontova, Elizaveta Ratner, Mikhail Menshikov, Parfyonova Yelena
- EP1-10** **Soluble apoptosis markers in obese patients with food intolerance**
Sentsova Borisovna Tatyana, Ilyenko Ivanovna Lydia, Albagachieva Islamovna Diana, Sokolnikov Arnoldovich Andrey
- EP1-11** **Apolipoprotein E gene genotypes and metabolic changes in obese patients**
Ilyenko Ivanovna Lydia, Sentsova Borisovna Tatyana, Albagachieva Islamovna Diana, Sokolnikov Arnoldovich Andrey
- EP1-12** **Multi-Systemic Biological Risk, Body Composition and Lung Function in Adults with Asthma: Analysis of NHANES Data**
Roham Sadeghimakki, David Mccarthy
- EP1-13** **The pharmacological effects of FGF21 in obese female mice depend on the estradiol blood level**
Tatiana Vladimirovna Iakovleva, Antonina Yurievna Kazantseva, Anastasia Dmitrievna Dubinina, Natalia Yurievna Balybina, Elena Nicolaevna Makarova, Nadezhda Mihalovna Bazhan
- EP1-14** **Gut and liver different responses to a rescue diet after a short term fructose rich diet**
Arianna Mazzoli, Cristina Gatto, Raffaella Crescenzo, Maria Stefania Spagnuolo, Martina Nazzaro, Susanna Iossa, Luisa Cigliano
- EP1-15** **DDE (4,4'-dichlorodiphenyldichloroethylene) influences lipogenesis during adipocyte differentiation in vitro model of adipogenesis**
Iva Kladnická, Miroslava Čedíková, Monika Bludovská, Jan Jedlička, Iveta Plavinová, Michaela Kripnerová, Jitka Kuncová, Dana Müllerová
- EP1-16** **Adipose tissue morphological changes in gerbil high-fat, high-carbohydrate diet-induced obesity**
Zineb Bellahreche, Nesrine Semiane, Aicha Mallek, Yasmina Dahmani
- EP1-17** **The synthetic glucagon-like peptide-1 receptor agonist liraglutide induces beige-like phenotype in white 3T3-L1 adipocytes**
Elizaveta Mamontova, Svetlana Michurina, Elena Sorkina, Iurii Stafeev, Michail Menshikov, Marina Shestakova, Yelena Parfenova



E-POSTERS

- EP1-18** **Rapid insulin resistance escalation rather than its' absolute value is the cause of glucose intolerance in male Sprague-Dawley rats**
Ekaterina A. Shestakova, Alla V. Stavrovskaya, Anastasiya S. Gushchina, Nina G. Yamshikova, Artyom S. Olshansky, Nataliya M. Malysheva, Sergei N. Ilarionshkin, Ivan I. Dedov
- EP1-19** **A lipid mediator modulating lipid function: palmitoylethanolamide (PEA) promotes the adipose organ plasticity in a mouse model of high fat diet-induced obesity**
Chiara Annunziata, Claudio Pirozzi, Adriano Lama, Federica Comella, Martina Senzacqua, Giuseppina Mattace Raso, Saverio Cinti, Antonio Giordano, Rosaria Meli
- EP1-20** **Microbiome and metabolic health: an umbrella review of observational and interventional studies**
Nathalie Michels, Inge Huybrechts
- EP1-21** **Impact of obesity on a woman's reproductive health**
Ekaterina V Sheremetyeva, Elena N Andreeva, Olga R Grigoryan, Yulia S Absatarova
- EP1-22** **Impact of obesity on ovarian reserve in women of reproductive age**
Ekaterina V Sheremetyeva, Elena N Andreeva, Olga R Grigoryan, Yulia S Absatarova, Robert K Mikheev
- EP1-23** **Lippia alba essential oil, a novel treatment involved in the regulation of lipid metabolism in adipocytes**
Katherin Bonilla Carvajal, Elena Stashenko, Natalia Moreno Castellanos
- EP1-24** **Lippia origanoides essential oil, a potential treatment against obesity using the adipocytes as a therapeutic target**
Katherin Bonilla Carvajal, Elena Stashenko, Natalia Moreno Castellanos
- EP1-25** **Ginkgo biloba extract supplementation differently alters fatty acid composition in neutral lipid classes of mesenteric adipose tissue of obese rats fed a high-fat diet**
Ellen K Joyce, Bruna K Hirata, Meira M Machado, Mônica M Telles, Allain A Bueno
- EP1-26** **The matricellular adipokine dermatopontin regulates adipose tissue extracellular matrix remodelling and inflammation in obesity**
Xabier Unamuno, Javier Gómez Ambrosi, Beatriz Ramírez, Amaia Rodríguez, Sara Becerril, Victor Valentí, Rafael Moncada, Camilo Silva, Javier Salvador, Gema Frühbeck, Victoria Catalán
- EP1-27** **Ginkgo biloba extract (GbE) modifies phospholipid fatty acid profiles of mesenteric adipose tissue of obese rats fed a high-fat diet**
Ellen K Joyce, Bruna K Hirata, Meira M Machado, Mônica M Telles, Allain A Bueno
- EP1-28** **Serpina3c regulates adipogenesis through endoplasmic reticulum stress-autophagy-apoptosis pathway**
Jiaqi Guo, Linglin Qian, Jingjing Ji, Yu Jiang, Ya Wu, Yuyu Yao
- EP1-29** **Sex-specific metabolic adaptations to consumption of high-calorie sweet and fatty food in mice**
Anastasia Dubinina, Antonina Kazantseva, Tatiana Iakovleva, Nadezhda Bazhan, Elena Makarova
- EP1-30** **Myo-inositol supplementation at physiological doses during lactation, alone and in combination with leptin, reverses short-term adverse programming effects caused by gestational calorie restriction in rats**
Pedro Castillo, Mariona Palou, Zhi Xin Yau Qiu, Ana M. Rodríguez, Andreu Palou, Catalina Picó
- EP1-31** **Modulation of near term placental leptin expression and content by maternal obesogenic diet and choline supplementation**
Ana Maria Rodríguez, Zhi Xin Yau Qiu, Pedro Castillo, Catalina Picó, Andreu Palou
- EP1-32** **The impact of stress on the regularity of menstrual cycle during COVID-19 pandemic**
Katarzyna Wyskida, Karolina Koziel, Karolina Pędrys, Marcin Setlak, Magdalena Olszanecka Glinianowicz
- EP1-33** **Obesity and variation of human body hydration**
Alkioni Chatzaki, Giorgos Bempis, Maria Anna Moysaki, Fotis Papaikovou, Vassilis Zafiropoulos
- EP1-34** **Mood disorders and control of emotions among Polish women with polycystic ovary syndrome (PCOS)**
Katarzyna Wyskida, Karolina Koziel, Karolina Pędrys, Mariola Jonderko, Małgorzata Rodak, Agnieszka Wikarek, Magdalena Olszanecka Glinianowicz
- EP1-35** **Self-reported memories of recent autobiographical events: approach for research on individuals' life**
Antonio Laguna Camacho
- EP1-36** **Abdominal obesity phenotype predicts covid-19 chest x-ray severity score better than general obesity**
Sara Basilio, Carola Dubini, Gloria Capitano, Francesco Secchi, Valentina Milani, Sara Boveri, Simone Schiaffino, Lelio Morricone, Francesco Sardelli, Ilaria Prandoni, Massimiliano Marco Corsi Romanelli, Gianluca Iacobellis, Michele Carruba, Alexis Elias Malavazos



E-POSTERS

- EP2-01** **Dysregulation of tryptophan metabolism is linked to inflammation and metabolic disease in pediatric obesity**
Julia Lischka, Andrea Schanzer, Margot Baumgartner, Maximilian Zeyda, Susanne Greber Platzler
- EP2-02** **Screen time is associated with eating habits, sleep patterns, and adiposity measures in adolescents**
Panchali Moitra, Jagmeet Madan, Preeti Verma
- EP2-03** **Association of comorbid burden and quality of life with anthropometric characteristics, psychoemotional status and smoking in males**
Svetlana Iankovskaia, Boris Pinkhasov, Vera Selyatitskaya
- EP2-04** **Prevention of childhood obesity: preliminary data of the "Not just diet" project**
Lucia Bioletti, Debora Lo Bartolo, Anna Maria Aloisi
- EP2-05** **Understanding children's eating experiences outside of the home: A caregiver perspective**
Ioanna Papadaki, Maxine Sharps, Michelle Lee, Laura Wilkinson
- EP2-06** **Clinical course of comorbidities in children with obesity**
Elena Pavlovskaya, Tatiana Strokova, Madlena Bagaeva, Natalia Taran, Andrey Zubovich, Irina Matinyan
- EP2-07** **Body mass index and total mortality: Instrumental variable analysis using offspring BMI as indicator of own BMI**
Kim Blond, David Carlsake, Line Klingen Gjerde, Dorte Vistisen, Thorkild IA Sørensen, George Davey Smith, Jennifer L Baker
- EP2-08** **Do as I say, not as I do: How do UK adolescents perceive others' dietary behaviours and attitudes, and how might this influence their own?**
Torin Greenhill, Jessica Newberry Le Vay, Nathan Critchlow, Jyotsna Vohra, Karen Fitzgerald
- EP2-09** **Features of the perinatal period in children born to obese mothers**
N. S. Dekhtyareva, N. E. Prokopeva, Yu. V. Petrenko, D. O. Ivanov, V. A. Shapkaits, V. P. Novikova
- EP2-10** **Emotional distress of preadolescents with excess weight**
Eva Pereda Pereda, Idolia Iturbe, Edurne Maiz, Maria Soledad Cruz Sáez, Karnele Salaberria, Enrique Echeburúa
- EP2-11** **Omentin and chemerin serum level and adipocyte morphology in male children**
Robert Mujkić, Darija Snajder Mujkić, Ivana Ilić, Anđela Grgić, Anita Čosić, Dalibor Divković, Kristina Selthofer Relatić
- EP2-12** **Pediatric follow-up: Short term improvement with life-style interventions**
Amanda Fernández Menéndez, Belén Gutiérrez Pernia, Clara Yela Salguero, Paula Labeira Candel, Álvaro Sánchez Jiménez, Clotilde Vázquez Martínez
- EP2-13** **An exploration of the association between school transport and dietary intake in 11-15 year old school pupils across the West Midlands: a cross-sectional study**
Ankita Gupta, Miranda Pallan, Marie Murphy
- EP2-14** **Inhibitory effect of miR-222 on insulin signalling pathway and lipid metabolism in adipocytes in vitro**
Pere Bibiloni, Catalina Amadora Pomar, Andreu Palou, Francisca Serra, Juana Sánchez
- EP2-15** **Targeted approach in childhood obesity - two case studies**
Adina Maria Trandafir
- EP2-16** **Children with high food approach tendency are at higher risk for overweight in deprived neighborhoods compared with affluent neighborhoods. The STEPS Study**
Saija Tarro, Mirkka Lahdenperä, Jussi Vahtera, Jaana Pentti, Hanna Lagström
- EP2-17** **Parental perception on changes in children eating habits, during the 2020 Portuguese first lockdown due to COVID-19. MUN-SI Cascais Program 2019/2020**
Joana Balaie, Diogo Oliveira Dos Santos, Ines Chiote, Catarina Pirata, Sofia Mendes, Ana Isabel Rito
- EP2-18** **Primary School Meals in Scotland 2020: a snapshot and a future vision**
Christina Sabbagh, Anna Gryka Macphail, Lorraine Tulloch
- EP2-19** **Does skipping breakfast associate with a higher BMI in young people living with obesity? A retrospective review of breakfast habits at their first presentation to a tertiary paediatric obesity clinic**
Rebecca L Treleaven, Jennifer S Cox, Shelley Easter, Julian P.H Shield, Dinesh Giri
- EP2-20** **Trajectories of infant weight gain and risks of adult coronary heart disease**
Lise G Bjerregaard, Kim Blond, Britt W Jensen, Jennifer L Baker



E-POSTERS

- EP2-21** **Examining how psychosocial factors impact the interest and decision to have bariatric surgery among adolescents living with severe obesity**
Biagina Carla Farnesi, Angela Alberga, Tamara Cohen, Laurent Legault, Julius Erdstein
- EP2-22** **Physical activity is of greater importance than diet in adolescents' weight control**
Tzvetelina Totomirova, Mila Arnaudova, Ivanina Arabadzhieva
- EP2-23** **The closure of early years settings due to the COVID-19 pandemic: A cross-cultural discussion of its impact on caregiver's feeding practices and their preschool child's eating**
Anca T Dobrescu, Jennifer Ferrar, Peter J Rogers, Danielle Ferriday
- EP2-24** **Rituximab therapy in Rapid-Onset Obesity, Hypothalamic Dysfunction, Hypoventilation, and Autonomic Dysregulation Syndrome**
Katherine Hawton, Rainer Doffinger, Athimalaipet V Ramanan, Simon C Langton Hewer, Dinesh Giri, Julian P Hamilton Shield
- EP2-25** **Service evaluation of the HEALTHY EAGLES childhood weight management programme**
Kyriaki Myrissa, Vanessa Abril Dieguez, Bethany Towle, Melissa Little, Shirley Serber Souza, Eirini Kelaiditi
- EP2-26** **Liraglutide therapy in combination with dietary and lifestyle measures contributing to rapid weight loss in an adolescent with morbid obesity and life threatening obstructive sleep apnoea**
Georgina Williams, Shelley Easter, Simon C Langton Hewer, Julian P H. Shield, Dinesh Giri
- EP2-27** **Topiramate as a treatment option in managing obesity related, neurological disease in children**
Rhianwen Mathews, Sam Amin, Julian P H Shield, Dinesh Giri
- EP2-28** **Metabolic status and markers of endothelial dysfunction in overweight and obese children**
Giulinar A. Safarova, Margarita M. Gurova, Valeria P. Novikova, Alevtina A. Pokhlebkina, Yuri V. Petrenko, Olga P. Gurina, Olga N. Varlamova, Alexander E. Blinov, Evgenia B. Milner
- EP2-29** **Childhood body mass index and risks of adult rheumatoid arthritis**
Julie Aarestrup, Peter E Thomas, Søren Jacobsen, Britt W Jensen, Jennifer L Baker
- EP2-30** **Association of prediabetes with adiposity in Emirati children and adolescents**
Maria Majeed, Saradalekshmi Koramannil R, Nader Lessan
- EP3-01** **Adequate levels of Physical Activity protect from Sarcopenia in Elderly People with Overweight and Obesity in Community Dwellings**
Marwan El Ghoch, Dana Saadeddine, Leila Itani
- EP3-02** **Duration of being breastfed and risks of coronary heart disease in adulthood in a high-income country**
Lise G Bjerregaard, Dorte C Pedersen, Jennifer L Baker
- EP3-03** **Investigation of eye tracking, electrodermal activity and facial expressions as biometric signatures of food reward and intake in adults with normal weight**
Hanne Pedersen, Jonas Salling Quist, Marie Møller Jensen, Kim Katrine Bjerring Clemmensen, Dorte Vistisen, Marit Eika Jørgensen, Kristine Færch, Graham Finlayson
- EP3-04** **Nature's effect on stress and diet: a lab study and questionnaire on nature aspect differentiation and indoor nature integration**
Nathalie Michels
- EP3-05** **Food Addiction assessment in a non clinical sample of Italian population. A pilot study**
Elvira Rostanzo, Anna Maria Aloisi
- EP3-06** **Is A Body Shape Index (ABSI) associated with incident cancer? – Findings from the UK Biobank prospective cohort study**
Solange Parra Soto, Fiona Malcomson, Jill P Pell, Frederick K Ho, Linda Sharp, John C Mathers, Carlos Celis Morales
- EP3-07** **Understandings of obesity complications, diagnosis and treatment in online communities: An IMI2 SOPHIA study**
Sherina Kuruvilla, Emma Farrell, Marianne Ølholm Larsen Grønning, Eva Hollmann, Carel W Le Roux, Joe Nadgrowski, Deirdre Mc Gillicuddy
- EP3-08** **A systematic review and qualitative synthesis of the lived experience of people with obesity: An IMI2 SOPHIA study**
Emma Farrell, Eva Hollmann, Carel W Le Roux, Marta Bustillo, Joe Nadgrowski, Deirdre Mc Gillicuddy
- EP3-09** **What cut-off points should Chile use to define central obesity? Findings from three National Health Surveys**
Fanny Petermann Rocha, Maria Adela Martinez Sanguinetti, Frederick K Ho, Carlos Celis Morales, Alonso Pizarro
- EP3-10** **The relationship between body mass index and maximum oxygen uptake**
Jovan Niciforovic, Nela Djonovic, Sandra Zivanovic, Dragan Vasiljevic, Dalibor Stajic, Ognjen Djordjevic, Gordana Djordjevic, Aleksandar Kocovic, Katarina Janicijevic, Milica Pantovic, Milana Maljah, Nikola Mirkovic, Stefan Stojanovic, Marija Sekulic



E-POSTERS

- EP3-11** **Evolution of the prevalence of obesity in the adult population in France, 2013-2016: the Constances study**
Joane Matta, Sebastien Czernichow, Adeline Renuy, Claire Rives Lange, Claire Carrette, Guillaume Airagnes, Emmanuel Wiernik, Anna Ozguler, Sofiane Kab, Marcel Goldberg, Marie Zins, Joane Matta
- EP3-12** **Distribution of obesity between 2015-2019 by different obesity parameters in Hungarian Screening and Public Health Promotion Program 2010-2020-2030. The significance of waist to height ratio**
Eszter Halmy, László Gyula Halmy, Tennó Daiki, Ede Kékes, Gergely Dankovics, István Barna, András Paksy
- EP3-13** **Survey of food and drink promotions in an online grocery shopping environment in Scotland**
Anna Gryka Macphail, Jane Gordon, Caitlin Plank, Christina Sabbagh, Lorraine Tulloch
- EP3-14** **Out-of-home policy changes in Scotland and UK during the COVID-19 pandemic**
Chhavi Bansal, Christina Sabbagh, Anna Gryka Macphail, Lorraine Tulloch
- EP3-15** **Association between obesity indicators and clusters of physical activity and sedentary behavior**
Alessandra Araújo De Souza, Rafael Miranda Tassitano, Jorge Augusto Pinto Silva Mota, Clarice Maria De Lucena Martins
- EP3-16** **Trends in Obesity Among 7-Years-Old Schoolchildren in Bulgaria**
Vessela Duleva, Ekaterina Chikova Iscener, Lalka Rangelova, Angelina Partzova, Plamen Dimitrov
- EP3-17** **Importance of Time Watching Television on the association of Physical Activity Level with Cardiometabolic Risk Factors. The KardioVize Study**
Geraldo Neto, Iuliia Pavlovka, Anna Polcova, Jeffrey Mechanick, Maria Infante Garcia, Jose Medina Inojosa, Sarka Kunzova, Ramfis Nieto Martinez, Francisco Lopes Jimenez, Gorazd Stokin, Juan Gonzales Rivas
- EP3-18** **Eating behavior during COVID-19 pandemic: comparison between people with obesity, overweight and normal weight**
Verónica Vázquez Velázquez, José J. Pizarro, Sofía Sánchez Román, Denise Arcila Martínez, Valeria Soto Fuentes, Héctor Velázquez Jurado
- EP3-19** **Epidemiology of metabolic syndrome in tunisian adults**
Nourhène Najar, Nadia Ben Mansour, Nada Zoghalmi, Salsabil Rejaibi, Faouzi Mehdi, Hajer Aounallah Skhiri
- EP3-20** **Is irregular meal pattern among Finnish pre-school children associated with overweight?**
Eva Roos, Reetta Lehto, Henna Vepsäläinen, Carola Ray, Majjaliisa Erkkola
- EP3-21** **Disordered eating in patients with overweight and obesity**
Veranika Lvovna Labashova, Alla Petrovna Shepelkevich, Yulia Vasilyevna Dydyshka
- EP3-22** **Virtual reality exergaming improves the affective response to exercise and reduces subsequent food intake in sedentary adults**
Sarah Sauchelli, Jeffrey M Brunstrom
- EP3-23** **A matter of timing - pregnancy after bariatric surgery**
Laura Heusschen, Ineke Krabbendam, Jessika M. Van Der Velde, Laura N. Deden, Edo O. Aarts, Ashley E. Meriën, Marloes Emous, Gysele S. Bleumink, Helen L. Lutgers, Eric J. Hazebroek
- EP3-24** **Associations between antenatal lifestyle and the risk for gestational diabetes mellitus in the GeliS trial – an exploratory secondary cohort analysis**
Julia Günther, Julia Hoffmann, Lynne Stecher, Monika Spies, Kristina Geyer, Roxana Raab, Dorothy Meyer, Kathrin Rauh, Hans Hauner
- EP3-25** **Societal Factors Associated with Obesity in Nigerian Women**
Amira Iwuuala, Jonas Akpakli, Lekan Durojaiye, Kendra Njoku, MBBS, Ayoposi Ogboye, Luyao Tian, Nneka Mobisson, MD
- EP3-26** **Attitudes and beliefs about obesity among healthcare professionals in Spain**
David Sánchez-Carracedo, Albert Fornieles-Deu, Júlia Fernández-Homar, Stuart W Flint
- EP3-27** **Epidemiological features of obesity in Tunisian geriatric population: Results of a national survey, 2016**
Mariem Zribi, Salsabil Rejaibi, Nada Zoghalmi, Nadia Ben Mansour, Hajer Aounallah Skhiri
- EP3-28** **Dietary habits during the COVID-19 lockdown in Poland**
Marta Lopyta, Marta Kwiatkowska, Paweł Domański, Katarzyna Wyskida, Magdalena Olszanecka Glinianowicz
- EP3-29** **The impact of the COVID-19 pandemic on physical activity in Polish population**
Katarzyna Wyskida, Angelika Burzy, Katarzyna Rymaszewska, Agnieszka Sokalska, Kamila Chlewska, Justyna Puchala, Julia Stachowiak, Magdalena Olszanecka Glinianowicz
- EP3-30** **Measuring height for people with high body mass index at home: standing up for inclusion**
Kath Williamson, Amy Nimegeer, Mike Lean



E-POSTERS

- EP3-31** **The impact of lockdown during the COVID-19 pandemic on changes of eating habits and body mass**
Katarzyna Wyskida, Karolina Nowak, Konrad Kamiński, Anna Naleśnik, Sylwia Kozak, Anna Olszewska, Krzysztof Ulbrich, Magdalena Olszanecka Glinianowicz
- EP3-32** **Insulin resistance is not associated with erosive esophagitis in adults with obesity**
Daniela Rojas Acuña, Carlos Quispe Vicuña, Jorge Luis Salazar Alarcon, Jesus Pinto Elera, Gustavo Salinas Sedo, Carlos Jesus. Toro Huamanchumo
- EP3-33** **Differences in health-related biomarkers profile of vegetarians and meat-eaters: A cross-sectional analysis of the UK Biobank study**
Jirapitcha Boonpor, Fanny Petermann Rocha, Solange Parra Soto, Frederick K Ho, Stuart R Gray, Carlos Celis Morales
- EP3-34** **Intensity of Weight Perception Differences in Unities of BMI: Intervals of Weight Perception Types amongst Metabolic Syndrome Patients**
Maria Cristina De Oliveira Regina
- EP3-35** **Concordance between different criteria for metabolic syndrome in Peruvian adults undergoing bariatric surgery**
Nataly Echevarria Castro, Kevin Silva Parra, Marcos Polar Trinidad, Juan Carlos Sanchez Vicente, Gustavo Salinas Sedo, Carlos. Jesus Toro Huamanchumo
- EP3-36** **Physical activity and non-alcoholic fatty liver disease among Peruvian adults living with obesity**
Diego Chambergo Michilot, Andy Bryan Campero Espinoza, Jhosuny Perez Fernandez, Gustavo Salinas Sedo, Carlos Jesus. Toro Huamanchumo
- EP3-37** **Types of Weight Perception, BMI intervals of difference between them, Anxiety and Depression**
Maria Cristina De Oliveira Regina
- EP3-38** **The use of MMSE and MoCA to identify early cognitive impairment in patients with metabolic syndrome**
Andrei Catalin Oprescu, Andreea Gherasim, Otilia Nita, Laura Mihalache, Walther Bild, Lidia Iuliana Arhire
- EP3-39** **Associations between weight loss history and factors related to type 2 diabetes risk in the Stop Diabetes study**
Faranak Halabi, Anja Lapveteläinen, Kirsikka Aittola, Reija Männikkö, Tanja Tilles Tirkkonen, Elna Järvelä Reijonen, Pilvikki Absetz, Marijukka Kolehmainen, Ursula Schwab, Jaana Lindström, Timo Lakka, Jussi Pihlajamäki, Leila Karhunen
- EP4-01** **Sarcopenic Obesity Predicts Treatment Dropout in Young Adult Patients with Obesity: A Longitudinal controlled Study**
Marwan El Ghoch, Dima Kreidieh, Leila Itani, Hana Tannir, Dana El Masri
- EP4-02** **Ethnic-specific BMI cut-off points for obesity based on type 2 diabetes mellitus risk: a cohort study of 1.5 million people in England**
Rishi Caleyachetty, Thomas M Barber, Nuredin Ibrahim Mohammed, Francesco P Cappuccio, Rebecca Hardy, Rohini Mathur, Amitava Banerjee, Paramjit Gill
- EP4-03** **Confirmatory Psychometric Evaluations of the Impact of Weight on Quality of Life-Lite Clinical Trials Version (IWQOL-Lite-CT)**
Ronette L Kolotkin, Valerie S. L. Williams, Lisa Von Huth Smith, Henrik Hjorth Meincke, Shanshan Qin, Nicole Williams, Sheri E. Fehnel
- EP4-04** **Do general practitioners voluntarily participate in trainings to treat bariatric patients after surgery? a questionnaire based study**
Tamara Ranzenberger Haider, Elias Meyer, Michael Krebs, Gerhard Prager, Karin Schindler
- EP4-05** **Where do bariatric patients attend a structured follow-up program besides in specialized outpatient clinics? A questionnaire based study**
Tamara Ranzenberger Haider, Samira Rube, Michael Krebs, Gerhard Prager
- EP4-06** **Periodontitis and hypertension association in patients with morbid obesity indicated for bariatric surgery, a case-control study**
Dejana Čolak, Alja Crnok Kučić, Tadeja Pintar, Boris Gašpirc, Rok Gašperšič
- EP4-07** **Effectiveness of herbal medicines for weight loss: a systematic review and meta-analysis of randomised placebo-controlled trials**
Erica Bessell, Alison Maunder, Romy Lauche, Jon Adams, Amanda Sainsbury, Nicholas R Fuller
- EP4-08** **Effectiveness of dietary supplements for weight loss: a systematic review and meta-analysis of randomised placebo-controlled trials**
Erica Bessell, Alison Maunder, Romy Lauche, Jon Adams, Amanda Sainsbury, Nicholas R Fuller
- EP4-09** **Efficacy of combination therapy of myo-inositol and vitamin D in obese women with subclinical hypothyroidism: an observational study**
Ivan V Pankiv



E-POSTERS

- EP4-10** **Insulin initiation is not linked with BMI increase in all patients with type-2-diabetes - Latent class analysis from the DPV registry**
Nicole Prinz, Anke Schwandt, Bernadette Borgert, Bettina Hartmann, Hans Peter Kempe, Julia Mader, Sigrun Merger, Rosmarie Weber Lauffer, Frank Jürgen Wosch, Reinhard W Holl
- EP4-11** **The use of novel visual/numeric scoring charts to quality satiety and hunger - clinically useful tools for future assessment of therapeutic strategies**
Andrew John Hartland, Salman Mirza, Harriet Lila Hartland, Alexander William Hartland, Ana Lee
- EP4-12** **Evaluation of obesity in relation with chronic complications of newly diagnosed diabetes**
Andreea Morosan, Magdalena Morosan
- EP4-13** **Real life efficacy of liraglutide therapy on weight-loss in obese patients: a retrospective study in 109 consecutive patients**
Fabrizio Muratori, Michela Del Prete, Domenico Pellegrino, Federico Vignati, Gianleone Di Sacco
- EP4-14** **Efficacy of long term intermittent liraglutide 3.0 mg therapy on weight-loss in patients with weight regain after bariatric surgery**
Gianleone Di Sacco, Michela Del Prete, Domenico Pellegrino, Federico Vignati, Fabrizio Muratori
- EP4-15** **Targeted care for adults with severe obesity and advanced knee osteoarthritis: protocol for the POMELO (Prevention Of Muscle Loss in Osteoarthritis) feasibility and pilot randomized trial**
Kristine Godziuk, Carla M. Prado, Mary Forhan
- EP4-16** **Health risks, etiology, diagnosis and treatment of insulin resistance**
Ellen Govers, Dave Henry Schweitzer, Tommy Leopold Visscher, Ismay Wiggers
- EP4-17** **The usefulness of CUN-BAE index as a tool to identify the metabolic risk in people with normal-weight and obesity**
Andrea Costa, Jadwiga Konieczna, Barbara Reynés, Marian Martín, Miquel Fiol, Andreu Palou, Dora Romaguera, Paula Oliver
- EP4-18** **Anthropometric Measures and Risk of Non-Alcoholic Fatty Liver Disease in Patients with Morbid Obesity**
Marta Borges Canha, João Sérgio Neves, Fernando Mendonça, Maria Manuel Silva, Cláudia Costa, Pedro M. Cabral, Vanessa Guerreiro, Rita Lourenço, Patrícia Meira, Daniela Salazar, Maria João Ferreira, Jorge Pedro, Ana Varela, Eva Lau, Selma Souto, John Preto, Paula Freitas, Davide Carvalho
- EP4-19** **Encouraging long-term evolution in extreme obesity maintaining lean mass**
Amanda Fernández Menéndez, Clara Yela Salguero, Álvaro Sánchez Jiménez, Paula Labeira Candel, Clotilde Vázquez Martínez
- EP4-20** **The impact of gender-specific differences in fat-free mass on weight-loss**
Aoife Egan, John Rayman, Margaret Rayman, Kelly Johnston, Adam Collins
- EP4-21** **Personalized Nutrition and eHealth: Design and Methods of the Lifestyle Intervention (LION) Study for Weight Loss and Maintenance in Adults with Obesity**
Anna Reik, Vincent Winkler, Meike Wiechert, Hans Hauner, Christina Holzapfel
- EP4-22** **Alcohol behaviours and AUDIT results in the context of referral for Bariatric Surgery**
Emer O' Malley, Amanda Villiers Tuthill, Ruth Yoder, Cathy Breen, Colin Dunlevy, Jean O' Connell
- EP4-23** **Drug utilization study of liraglutide in Europe – Investigating the potential for real-world misuse of Victoza and Saxenda to obtain weight loss**
Paolo Sbraccia, Jens Aberle, Nicholas Birch Jørgensen, Anne Helene Olsen, Dorthe Skovgaard, Atheline Major-Pedersen
- EP4-24** **Statin therapy among bariatric patients: impact on metabolic outcomes and diabetes status**
Fernando Mendonça, Maria Manuel Silva, Marta Borges Canha, João Sérgio Neves, Cláudia Costa, Pedro Cabral, Vanessa Guerreiro, Rita Lourenço, Patrícia Meira, Maria João Ferreira, Daniela Salazar, Jorge Pedro, Ana Varela, Eva Lau, Selma Souto, Paula Freitas, Davide Carvalho, Crio Group
- EP4-25** **Beneficial Effect of Semaglutide 2.4 mg Once Weekly on Patient-Reported Outcome Measures of Weight-Related and Health-Related Quality of Life in Adults With Overweight or Obesity in the STEP 1 Trial**
Domenica M Rubino, Jakob B Bjorner, Robert F Kushner, Sue D Pedersen, Donna H Ryan, Marie TD Tran, Lisa von Huth Smith, Sean Wharton, Niels Zeuthen, Ronette L Kolotkin
- EP4-26** **Circulating interleukins, other adipocytokines and gut microbiota-related metabolite levels as predictors of metabolic bariatric surgery outcome**
Laia Bertran, Miguel Lopez Dupla, Jessica Ramos, David Riesco, Ajla Alibalic, Carmen Aguilar, Mercè Sirisi, Fátima Sabench, Daniel Del Castillo, Cristóbal Richart, Teresa Auguet
- EP4-27** **Metabolic Abnormalities and Cardiovascular Risk in Apparently Healthy Normal Weight Individuals in North Indian Population**
Meenakshi Mann, Manisha Taneja, Deepak Gupta, Brij Mohan Makkar



E-POSTERS

- EP4-28** **Severe Obesity Is Associated with Altered Gut Microbiota Biotin Metabolism and Host Biotin Status**
Lise Voland, Jean Debédât, Eugeni Belda, Camille Gamblin, The Metacardis Consortium, Tiphaine Le Roy, Karine Clément
- EP4-29** **Lifestyle intervention for morbid obesity management in practice**
Anca Mihaela Hancu
- EP4-30** **The impact of COVID-19 emergency on weight and nutritional habits of patients who underwent bariatric surgery**
Nicola Salituro, Ilaria Di Cintio, Lorenzo Piva, Cristina Sciacovelli, Rita Teglia, Jennifer Malandra, Alessandro Agostini, Paolo Bernante, Matteo Rottoli, Francesca Balsamo, Gilberto Poggioli, Uberto Pagotto, Silvia Garelli
- EP4-31** **Energy balance behaviours associated with successful weight loss in women with overweight and obesity engaged in a 14-week weight loss programme**
Anna Myers, Diana Camidge, Fiona Croden, Catherine Gibbons, John Blundell, Graham Finlayson, Nicola Buckland
- EP4-32** **Challenges in the management of geriatric obesity**
Hassan Massoud Heshmati
- EP4-33** **The effectiveness of motivational interviewing in primary care in people with overweight and obesity**
Itsaso Palacios, Idoia Iturbe, Idoia Lion, Edurne Maiz, Enrique Echeburúa, Eva Pereda Pereda
- EP4-34** **COPD- Obesity paradox or challenge ?**
Anca Mihaela Hancu
- EP4-35** **Lipid normalization is independent benefit of bariatric surgery regardless of glycaemia normalization**
Igor Sklyanik, Ekaterina Shestakova, Iurii Stafeev, Mikhail Menshikov, Alexander Vorotnikov, Kamil Yah'yaev, Anatoly Yurasov, Yelena Parfyonova, Marina Shestakova
- EP4-36** **Projecting the prevalence of obesity and alcohol-related non-communicable diseases in France from 2020 to 2030 using multi-risk microsimulation methods: preliminary results**
Joshua Card Gowers, Daniel Ohrenstein, Laura Webber, Hannah Graff, Juan Vesga, Maria Buti, Helena Cortez Pinto, Peter Jepsen, Jeffrey Lazarus, Francesco Negro, Pierre Nahon, Nick Sheron, Marietav Simonova, Shira Zelter, Lise Retat
- EP4-37** **Continued Treatment with Semaglutide 2.4 mg Leads to Sustained Improvements in Cardiometabolic Risk Factors in the STEP 4 Trial**
W. Timothy Garvey, Meena Bhatta, Melanie Davies, John E Deanfield, Camilla Jensen, Usman Khalid, Robert Kushner, Domenica M Rubino, Subodh Verma, Mikhail Kosiborod
- EP4-38** **Treatment with Semaglutide 2.4 mg Leads to Improvements in Cardiometabolic Risk Factors in the STEP 1 Trial**
W. Timothy Garvey, Meena Bhatta, Melanie Davies, John E Deanfield, Usman Khalid, Mikhail Kosiborod, Robert Kushner, Domenica M Rubino, Niels Zeuthen, Subodh Verma
- EP4-39** **The effect of an ACT and mindfulness group intervention on psychological and physical well-being of adults struggling with overweight: a preliminary study**
Idoia Iturbe, Iratxe Urkia, Eva Pereda Pereda, Enrique Echeburúa, Edurne Maiz
- EP4-40** **Improvement of the 10-Year Atherosclerotic Cardiovascular Disease Risk with Once-Weekly Semaglutide 2.4 mg in Adults with Overweight or Obesity – Post-Hoc Analysis of the STEP 1 Trial**
Melanie Davies, Meena Bhatta, John E Deanfield, W Timothy Garvey, Usman Khalid, Robert Kushner, Domenica M Rubino, Subodh Verma, Niels Zeuthen, Mikhail Kosiborod
- EP4-41** **The impact of personalized lifestyle advice on type 2 diabetes remission as compared to usual care in newly diagnosed type 2 diabetics in a primary care setting in the Netherlands**
Iris M. De Hoogh, Wilrike J. Pasman, André Boorsma, Ben Van Ommen, Suzan Wopereis
- EP4-42** **Evaluation of relationship between metabolic syndrome, visceral adiposity index and lipid accumulation product in people with obesity**
Feray Akbas, Hanife Usta Atmaca, Serife Degirmencioglu
- EP4-43** **Postprandial Hypoglycaemia following bariatric surgery; a case report**
Hassan Kahal, Jeanette Lamb, Fleur Talbot, Georgina Russell, Kathryn Lonnen
- EP4-44** **The impact of bariatric surgery on the advanced glycation end-products in patients with morbid obesity**
Enzamaría Fidilio, Angel M Ortiz Zuñiga, Francesca Fillipi Arriaga, Marta Comas, Marta Sanchez Perez, Irene Hernandez, Efrain Cordero, Andreea Ciudin
- EP4-45** **Secondary normocalcemic hyperparathyroidism (NCHP) after bariatric surgery in relation to weight loss effects – a retrospective analysis**
Rebeka Jörg, Michael Krebs, Gerhard Prager, Felix Langer, Bianca Karla Itariu



E-POSTERS

- EP4-46** "Old" SADI'S versus "New" SADI'S: the importance of the length of the common alimentary loop in the evolution of patients with morbid obesity that undergo bariatric surgery
Pilar Costa, Angel Michael Ortiz, Marta Comas, Alba Zabalegui, Efrain Cordero, Irene Hernandez, Alba Rojano, Ramon Vilallonga, Andreea Ciudin
- EP4-47** Management of Late Dumping Syndrome Induced Hypoglycemia with GLP-1R agonist
Amna Ali Shaghoul, Naglaa Mohammed Mesbah Mohammed Mesbah, Razan Khaled Ballani
- EP4-48** Weight-Loss Maintenance with Once-Weekly Semaglutide 2.4 mg in Adults with Overweight or Obesity Reaching Maintenance Dose (STEP 4)
Domenica M Rubino, Niclas Abrahamsson, Melanie Davies, Dan Hesse, Frank L Greenway, Camilla Jensen, Ildiko Lingway, Ofri Mosenzon, Julio Rosenstock, Miguel A Rubio, Gottfried Rudofsky, Sayeh Tadayon, Thomas Wadden, Dror Dicker
- EP4-49** Patient on CAPD undergoing sleeve gastrectomy
Guitar Hassanen, Helen Ashby
- EP4-50** Once-Weekly Subcutaneous Semaglutide 2.4 mg Reduces Body Weight in Adults With Overweight or Obesity Regardless of Baseline Characteristics (STEP 1)
Robert F Kushner, W Timothy Garvey, Dan Hesse, Anna Koroleva, Soo Lim, Ildiko Lingway, Ofri Mosenzon, Signe OR Wallenstein, Thomas A Wadden, Carel W le Roux
- EP4-51** Developing a new equation for assessment of Appendicular Lean Mass using Bioelectrical Impedance Analysis in People with Obesity
Maria D Ballesteros Pomar, Elena González Arnáiz, Begoña Pintor De La Maza, Isidoro Cano Rodríguez
- EP4-52** Bioelectrical impedance analysis in the assessment of fat mass and appendicular lean mass in people with obesity using different equations
Elena González Arnáiz, Maria D Ballesteros Pomar, Begoña Pintor De La Maza, Isidoro Cano Rodríguez
- EP4-53** Maintenance - key challenge in obesity
Anca Mihaela Hancu
- EP4-54** Safety of biliopancreatic diversion after 20 years: A single centre experience
Bryan Francois Rodriguez Montalvan, Luis Alberto Vazquez Salvi, Maria Isabel Alvarez Schettini, Ricardo Batanero Maguregui, Gabriela Alexandra Zapata Maldonado, Coral Montalban Carrasco
- EP4-55** Big data and the what, why and how of economic simulation modelling of obesity: The need for greater international collaboration and coordination
Bønnaug Ødegård, Kevin Balanda, Gudrun Waaler Bjørnelv, Vidar Halsteinli, Samira Barbara Jabakhanji, Diana Sonntag, Grace O' Malley
- EP4-56** Clinically-Relevant Weight Loss is Achieved Independently of Early Weight Loss Response to Once-Weekly Subcutaneous Semaglutide 2.4 mg (STEP 4)
Robert F Kushner, W Timothy Garvey, Dan Hesse, Anna Koroleva, Soo Lim, Ildiko Lingway, Ofri Mosenzon, Signe Or Wallenstein, Thomas A Wadden, Carel W le Roux
- EP4-57** Pancreatic uptake of radiolabeled exendin as a measure of beta cell mass in type 2 diabetes before and after bariatric surgery
Laura Deden, Marti Boss, Hans De Boer, Edo Aarts, Eric Hazebroek, Maarten Brom, Frits Berends, Martin Gotthardt
- EP4-58** What threshold of insulin resistance is associated with prediabetes in subjects with weight excess? Results from a cross-sectional study
Gabriella Pugliese, Luigi Barrea, Daniela Laudisio, Sara Aprano, Silvia Savastano, Annamaria Colao, Giovanna Muscogiuri
- EP4-59** A characterization of the psychosocial impact of COVID-19 lockdown in post-bariatric surgery patients
Silvia Félix, Marta De Lourdes, Joana Pinheiro, Bruna Cunha, Sofia Ramalho, Ana R. Vaz, Paulo P. P. Machado, Eva Conceição
- EP4-60** The relation between cortisol and anthropometric measurements throughout lifespan: a systematic review and meta-analysis
Eline S. Van Der Valk, Ozair Abawi, Mostafa Mohseni, Amir Abdelmoumen, Vincent L. Wester, Bibian Van Der Voorn, Anand M. Iyer, Erica L. T. Van Den Akker, Sanne E. Hoeks, Yolanda B. De Rijke, Tobias Stalder, Liesbeth F. C. Van Rossum
- EP4-61** Inflammation, cardiometabolic obesity phenotype and biochemical health markers in women outside of pregnancy
Sarah Louise Killeen, David F Byrne, Aisling A Geraghty, Mark T Kilbane, Patrick J Twomey, Malachi J Mckenna, Rachel K Crowley, Cara A Yelverton, Radka Saldova, Douwe Van Sinderen, Paul D Cotter, Eileen F Murphy, Fionnuala M McAuliffe
- EP4-62** Efficacy and Safety of Semaglutide 2.4 mg Once-Weekly in Adults with Overweight or Obesity and Type 2 Diabetes (STEP 2)
Melanie Davies, Louise Færch, Ole Kleist Jeppesen, Arash Pakseresh, Sue D Pedersen, Leigh Perreault, Julio Rosenstock, Ichiro Shimomura, Adie Viljoen, Thomas Wadden, Ildiko Lingway



E-POSTERS

- EP4-63** Eating behaviors and weight outcomes in post-bariatric surgery patients during the COVID-19 pandemic: A three-year longitudinal study
Eva Conceição, Marta De Lourdes, Sofia Ramalho, Sílvia Félix, Ana Pinto Bastos, Ana Vaz, Paulo Machado
- EP4-64** Semaglutide 2.4 mg Once Weekly Reduces Appetite, Reduces Energy Intake and Improves Control of Eating in Subjects With Obesity
Dorthe Skovgaard, Astrid Breitschaft, Alicja Wizert, Sayeh Tadayon, Martin Friedrichsen
- EP4-65** In adults with obesity, long-term cortisol levels are not associated with eating behavior; neither are their changes in response to a combined lifestyle intervention
Susanne Kuckuck, Eline S. Van Der Valk, Anton J. W. Scheurink, Sjoerd A. A. Van Den Berg, Elisabeth F. C. Van Rossum
- EP4-66** Efficacy and Safety of Once-Weekly Subcutaneous Semaglutide 2.4 mg in Adults With Overweight or Obesity (STEP 1)
John P.H. Wilding, Rachel L. Batterham, Salvatore Calanna, Melanie Davies, Luc F. Van Gaal, Ildiko Lingvay, Barbara M. McGowan, Julio Rosenstock, Marie TD Tran, Thomas Wadden, Sean Wharton, Koutaro Yokote, Niels Zeuthen, Robert F. Kushner
- EP4-67** A qualitative study using semi-structured interviews to understand attrition in a tier 2 NHS adult weight management service
Jordan Everitt, Enzo Battista Dowds, Dan Heggs, Amanda Squire
- EP4-68** Identifying variables that predict completion and early dropout in a tier 2 NHS Adult Weight Management Service
Jordan Everitt, Enzo Battista Dowds, Daniel Heggs, Paul Hewlett, Amanda Squire
- EP4-69** Individual nutrients, foods, and dietary programs for weight loss in overweight and obese adults: an umbrella review of 76 meta-analyses reporting 92 dietary interventions among 43,870 participants
Ahmad Jayedi, Bradley C. Johnston, Sepideh Soltani, Geoff Ball, Sakineh Shab Bidar
- EP4-70** Pouch emptying in standard, banded and extended-pouch Roux-en-Y gastric bypass
Yonta Van Der Burgh, Stijn Van Der Linden, Abel Boerboom, Frits Berends, Laura Deden, Eric Hazebroek
- EP4-71** Canadian trends in bariatric surgery
Amer Jarrar, Anne Hardy Henry, Nicole Kolozsvari
- EP4-72** Performance of the preoperative neutrophil-lymphocyte ratio (NLR) as a predictor of early complications after sleeve gastrectomy
Luz Fiorella Huertas Campos, Luciana Torres Pesantes, Julio Orlando Rodriguez Sagastegui, Jesus Pinto Elera, Gustavo Salinas Sedo, Carlos Jesus Toro Huamanchumo
- EP4-73** Pentraxin-3 Time-course During a Very-Low Calorie Ketogenic Diet in Obesity Patients
Paula M. Lorenzo, Ignacio Sajoux, M Angeles Zulet, Javier Baltar, Aurelio Sueiro, Francisco J. Tinahones, J. Alfredo Martinez, Ana B. Crujeiras, Felipe F. Casanueva
- EP4-74** Body mass index correlates with advanced fibrosis in patients with diabetes and NAFLD, but not with cardiovascular complications
Jonathan Mertens, Jonas Weyler, Luisa Vonghia, Eveline Dirinck, Sven Francque, Christophe De Block
- EP4-75** Integration of genotypical and hormonal data for precision nutrition in non-syndromic obesity resistant to weight loss: A clinical case report according to CARE methodology
Fernando Rojo Fernández, Ramón De Cangas Morán, Jose Ramón Bahamonde Nava, Guillermo Nicieza Forcelledo, David Zamarréño Ortiz, Haldio Hernández Monzón, Karina Torres Escandón
- EP4-76** Men with hypogonadism and excessive obesity benefit from long-term testosterone therapy – update of real-world data from a registry study
Farid Saad, Ahmad Haider, Karim Sultan Haider, Gheorghe Doros, Abdulmageed Traish
- EP4-77** Long-term testosterone therapy improves lipid profile and blood pressure in overweight and obese men with functional hypogonadism: real-world data from 6913 patient-years
Farid Saad, Ahmad Haider, Karim Sultan Haider, Gheorghe Doros, Abdulmageed Traish
- EP4-78** Long-term testosterone therapy improves liver metabolism in overweight and obese men with hypogonadism: 12-year real-world data from a registry study
Farid Saad, Ahmad Haider, Karim Sultan Haider, Gheorghe Doros, Abdulmageed Traish
- EP4-79** Sustained reductions in weight and waist circumference achieved by long-term testosterone therapy over 12 years in men with hypogonadism and type 2 diabetes: real-world data from a registry study
Farid Saad, Ahmad Haider, Karim Sultan Haider, Gheorghe Doros, Abdulmageed Traish
- EP4-80** Effect on weight of homemade meals in women with overweight or obesity: a randomised controlled trial
Antonio Laguna Camacho, Maria De Jesús Serrano Plata



ABSTRACT DISCUSSION



ABSTRACT DISCUSSION

- AD01.01** **Age- and sex-specific adaptation to sweet-fat diet consumption in mice**
Nadezhda Bazhan, Tatiana Iakovleva, Antonina Kazantseva, Anastasia Dubinina, Natalia Balybina, Elena Makarova
- AD01.02** **Sex-specific effect of FGF21 administration on hepatic steatosis in obese mice with Lethal yellow mutation**
Natalia Yurievna Balybina, Antonina Yurievna Kazantseva, Elena Nikolaevna Makarova, Nadezhda Mihailovna Bazhan
- AD01.03** **Gut microbiota from patients with obesity who underwent a bariatric surgery could prevent of future weight regain under an obesogenic environment in a procedure manner. A fecal microbiota transplant proof of concept in mice**
Francisca Aguilar Lineros, Carolina Gutiérrez Repiso, Juan Alcaide, Eduardo García Fuentes, Francisco J Tinahones, Isabel Moreno Indias
- AD01.04** **Serpina3c deficiency promotes High-Fat Diet-induced steatohepatitis through mediating necroptosis via β -catenin/FOXO1**
Linglin Qian, Jingjing Ji, Jiaqi Guo, Yu Jiang, Ya Wu, Yuyu Yao
- AD01.05** **Reshaping gut microbiota composition and bile acid signalling as beneficial mechanisms in the management of early obesity and fatty liver with *Akkermansia muciniphila* and quercetin supplementation**
Maria Juárez-Fernández, David Porras, Petar Petrov, María Victoria García-Mediavilla, Sara Román-Sagüillo, Susana Martínez-Florez, Javier González-Gallego, Esther Nistal, Ramiro Jover, Sonia Sánchez-Campos
- AD01.06** **Fibronectin type III domain-containing 4 drives fat browning and inhibits lipogenesis in human omental adipocytes**
Amaia Rodríguez, Blanca Fernández Quintana, Mirla Paniagua, Ana Wenting Hernández Pardos, Víctor Valenti, Rafael Moncada, Victoria Catalán, Sara Becerri, Javier Gómez Ambrosi, Camilo Silva, Javier Salvador, Gema Frühbeck
- AD02.01** **Glucose-6-phosphate dehydrogenase deficiency associates with lower BMI in males with Type 2 diabetes**
Esphie Grace Fojas, Saradalekshmi Radha, Tomader Ali, Nader Lessan
- AD02.02** **Obesity and weight loss modulate DNA methylation profile of SARS-CoV-2 receptor ACE2 in blood leukocytes**
Andrea G Izquierdo, Marcos C Carreira, Carolina Nicoletti, Daniel De Luis, Carla Nonino, J Alfredo Martínez, Felipe F Casanueva, Ana B Crujeiras
- AD02.03** **Psoriatic arthritis may be associated with metabolically adverse adipose tissue morphology**
Lyn D Ferguson, Xuan Gao, Fiona Jordan, Anne Sillars, Iain B McInnes, Dilys Freeman, Stefan Siebert, Naveed Sattar
- AD02.04** **Visceral Fat Area and Cardiometabolic Risk: The KardioVize Study**
Anna Polcova, Iuliia Pavlovskaya, Geraldo A. Maranhao Neto, Sarka Kunzova, Maria M. Infante Garcia, Jose R. Medina Inojosa, Francisco Lopez Jimenez, Jeffrey I. Mechanick, Ramfis Nieto Martinez, Gorazd B. Stokin, Hynek Pikhart, Juan P. Gonzalez Rivas
- AD03.01** **Effects of oral lubrication on appetite, food intake and salivary biomarkers in model foods**
Ecaterina Stribitcaia, Catherine Gibbons, Christine Boesch, John Blundell, Anwesha Sarkar
- AD03.02** **Genetically induced maternal obesity in Ay mice affects sex-specifically taste preferences and susceptibility to diet-induced obesity in offspring**
Elena Denisova, Anastasia Dubinina, Antonina Kazantseva, Elena Makarova
- AD03.03** **A newly identified MC4R mutation, found in a young male patient with obesity, blunts signal transduction and impairs alpha-MSH-induced cAMP production**
Elisabetta Trevelin, Marnie Granzotto, Cristina Host, Francesca Grisan, Diego De Stefani, Alessandro Grinzato, Konstantinos Lefkimiatis, Claudio Pagano, Rosario Rizzuto, Roberto Vettor
- AD03.04** **Parathyroid hormone receptor expression in adipose tissue is related to whole-body metabolic health in lean, obese and cachectic individuals with normal or impaired glucose metabolism**
Zuzana Kovaničová, Adam Šulek, Tímea Kurdióvá, Miroslav Baláz, Juraj Payer, Daniela Gašperiková, Ružena Tkáčová, Barbara Ukropcová, Jozef Ukropec
- AD03.05** **Muscle-Specific microRNAs in Cultured Muscle Cells are Associated with Metabolic Characteristics of Cells' Donors**
Nikoléta Laiferová, Michal Nemec, Lucia Vernerová, Tímea Kurdióvá, Mária Balázová, Martina Vokurková, Sabína Oreská, Martin Klein, Maja Špiritović, Michal Tomčík, Jiří Vencovský, Jozef Ukropec, Barbara Ukropcová
- AD04.01** **The estimates of predictors associated with child body mass index in children in a population-based study: a systematic review, meta-analysis and modelling study**
Yuchan Mou, Macarena Lara, Ivonne Derks, Vincent W. V. Jaddoe, Romy Gaillard, Janine F. Felix, Hein Raat, Trudy Voortman, Marinus H. Van Ijzendoorn, Pauline W. Jansen
- AD04.02** **Maternal Stress from Conception to Two Years Postpartum and Risk of Childhood Obesity: A Systematic Review**
Karen Matvienko Sikar, Jennifer Cooney, Caragh Flannery, Jennifer Murphy, Ali Khashan, Anja Huizink



ABSTRACT DISCUSSION

- AD04.03** **Maternal and paternal distress in early childhood and child adiposity trajectories: Evidence from the Millennium Cohort Study**
Kristiane Tommerup, Rebecca Lacey
- AD04.04** **The excess weight of 0 to 7 year-old children. Risk factors**
Eva Pereda Pereda, Iratxe Escudero, Anne San Román, Ane Arregi, Alba Jimeno Romero, Izaro Babarro, Nerea Urbieto, Mara Gallastegi, Florencia Barreto Zarza, Amaia Molinuevo, Asier Anabitarte, Amaia Irizar, Andrea Lebeña, Ainara Andiarrena, Aritz Aranbarri, Aitana Lertxundi, Nerea Lertxundi
- AD04.05** **The effect of blood lipid profiles during pregnancy on longitudinal offspring health**
Cara Yelverton, Linda O'keeffe, Ciara McDonnell, Helena Bartels, Fionnuala McAuliffe
- AD04.06** **Obesity and cognitive function in children and adolescents: relevance of socio-economic factors**
Alaina Pearce, Tanveer Ashraf, Radwa Helal, Saidi Sarah, Kathryn Flaharty, Vaidya Chandan, Lessan Nader
- AD05.01** **Associations between lifestyle interventions during pregnancy and childhood weight and growth: a systematic review and meta-analysis**
Roxana Raab, Sophie Michel, Julia Günther, Julia Hoffmann, Lynne Stecher, Hans Hauner
- AD05.02** **Detection of metabolic syndrome in adolescents with obesity or overweight: new score based on explainable artificial intelligence**
Karima Benmohammed, Nabil Omri, Nourredine Zerhouni, Zeina El Masry, Paul Valensi
- AD05.03** **Dextroamphetamine treatment for children with hypothalamic obesity**
Jiska Van Schaik, Mila S. Welling, Cornelis J. De Groot, Ozair Abawi, Marcella Burghard, Lotte Kleinendorst, Bibian Van Der Voorn, Mieke M. Van Haelst, Bas Oude Ophuis, Boudewijn Bakker, Wim J. E. Tissing, Gerdien A. Kamp, Joost Rotteveel, Nettekete Y. N. Van Schouten Meeteren, Erica L. T. Van Den Akker, Hanneke M. Van Santen
- AD05.04** **Barriers and facilitators for implementing paediatric telehealth: rapid review of user perspectives**
Louise Tully, Lucinda Case, Niamh Arthurs, Jan Sorensen, James P. Marcin, Grace O' Malley
- AD05.05** **Resting energy expenditure is not altered in children and adolescents with obesity. Effect of age and gender and association with serum leptin levels**
J. Karina Zapata, Victoria Catalán, Amaia Rodríguez, Beatriz Ramírez, Camilo Silva, Javier Escalada, Javier Salvador, Cristina Azcona-San Julián, Gema Frühbeck, Javier Gómez-Ambrosi
- AD05.06** **Where do observers look when estimating children's weight status and are looking patterns associated with accuracy? An eye-tracking study**
Elizabeth H. Evans, Martin J. Tovee, Piers Cornelissen
- AD05.07** **The associations between body mass index and sleep duration in infants and toddlers: a cross-sectional study**
Ana Duarte, Maria José Silva, Cláudia Augusto, Silvana Martins, Luís Lopes, Rafaela Rosário
- AD06.01** **Dietary intake in Finnish primary school-aged children with normal weight and overweight/obesity**
Ella Koivuniemi, Outi Nuutinen, Kirsi Laitinen
- AD06.02** **Metabolically unhealthy obesity and lifestyle-related factors in children and adolescents**
Mohammed Subhi Ellulu, Alex Brito, Carine De Beaufort, Torsten Bohn, Benjamin Guinhouya, Hanen Samouda
- AD06.03** **Grazing Eating Behavior in Pediatric Obesity**
Sofia Ramalho, Sílvia Félix, Joana Pinheiro, Marta De Lourdes, Sónia Gonçalves, Eva Conceição
- AD06.04** **The effect of ultra-processed food consumption on plasma the metabolome and its role in childhood obesity**
Evangelos Handakas, Oliver Robinson, Kiara Chang, Vamos Ester, Christopher Millett, Franco Sassi, Paolo Vineis
- AD06.05** **Associations between environmental factors and childhood eating behaviours in 5-year-old children: Findings from the ROLO longitudinal birth cohort study**
Anna Delahunt, Marie C Conway, Sharleen L O'Reilly, Ciara Mc Donnell, Fionnuala M Mc Auliffe
- AD06.06** **The prospective association between dietary energy density and adiposity in children and adolescents**
Muftah Milad Dagali, Lisa Heggie, Rana Conway, Helen Croker, Andrea Smith, Clare Llewellyn
- AD07.01** **"Adiposity rebound and cardiometabolic health in childhood – results from the birth cohort Generation XXI"**
Maria João Fonseca, Carla Moreira, Ana Cristina Santos
- AD07.02** **Associations of maternal birthweight, childhood height, body mass index and change in body mass index from childhood to pregnancy with risks of preterm delivery**
Dorthe C. Pedersen, Lise G. Bjerregaard, Kathleen M. Rasmussen, Ellen A. Nohr, Jennifer L. Baker



ABSTRACT DISCUSSION

- AD07.03** Development of obesity among children and adolescents in Germany - Results of the KiGGS cohort
Anja Schienkiewitz, Stefan Damerow, Felicitas Vogelgesang, Laura Krause
- AD07.04** Childhood body size and the subsequent risk of anorexia nervosa and bulimia nervosa among women
Britt W. Jensen, Johannes Hebebrand, Jennifer L. Baker
- AD07.05** Self-concept, childhood obesity, and primary caregiver education in an Irish cohort of children
Mckenzie A. Dow, Grace O'Malley, Aoife Brinkley, Celine Murrin
- AD07.06** Maternal perception, concern and dissatisfaction with child weight and their association with feeding practices
Alexandra Costa, Marion Hetherington, Andreia Oliveira
- AD08.01** Understanding the effects of portion reduction on food choice: a warning for food manufacturers and policy makers
Roya Ozra Shahrokni, Danielle Ferriday, Sonia Miguel, Aurelie Lesdema Laurent, Jeffrey Michael Brunstrom
- AD08.02** The Practice Example in Corporate Nutrition Strategy: Sabri Ülker Foundation Healthy Living Center
Özge Dinç, Begüm Mutuş, Halit Tanju Besler, Selen Tokcan
- AD08.03** Personalized e-interactions with low-income populations drive weight loss for obesity
Luyao Tian, Jonas Akpakli, Lekan Durojaiye, Kendra Njoku, Ayoposi Ogboye, Amira Iwuala, Nneka Mobisson
- AD08.04** The effect of calorie labeling, motivation and habits on the calorie content of items selected from a university coffee shop menu
Katy Tapper, Kielan Yarrow, Stephanie Farrar, Kate Mandeville
- AD08.05** Predictors of weight gain during the COVID-19 quarantine: the Lithuanian COVIDiet study
Vilma Kriaucionienė, Janina Petkeviciene
- AD08.06** Direct and indirect costs of obesity – a Danish register-based study from 2002 to 2018
Maria Elmgaard Madsen, Mette Bøgelund, Carsten Dirksen, Nils Bruun Jørgensen, Sten Madsbad, Ulrik Haagen Pantton, Mikkel Hasse Pedersen, Pierre Johansen
- AD08.07** The prevalence of sleep disturbances and physical activity during the lockdown due to COVID-19 pandemic in Polish population
Katarzyna Wyskida, Natalia Lewoniuk, Julia Szafraniec, Mateusz Biesok, Magdalena Olszanecka Glinianowicz
- AD09.01** Cord blood Leptin as a predictor of age at adiposity rebound - the EDEN mother-child cohort
Aminata Cisse, Sandrine Lioret, Blandine De Lauzon Guillaud, Anne Forhan, Marie Aline Charles, Barbara Heude
- AD09.02** The prevalence of comorbidities in people with obesity – a Danish register-based study from 2002 to 2018
Mikkel Hasse Pedersen, Mette Bøgelund, Carsten Dirksen, Pierre Johansen, Nils Bruun Jørgensen, Sten Madsbad, Maria Elmgaard Madsen, Ulrik Haagen Pantton
- AD09.03** Abdominal obesity in Tunisian women: Results of a national household survey, 2016
Mariem Zribi, Salsabil Rejaibi, Nada Zoghlami, Nadia Ben Mansour, Hajer Aounallah Khiri
- AD09.04** Maternal pre-pregnancy BMI and offspring hyperactivity-inattention from 3 to 8 years in the EDEN birth cohort study
Courtney Dow, Cédric Galera, Marie Aline Charles, Barbara Heude
- AD09.05** Associations of *FABP1* and *FABP4* genes polymorphisms with body weight in childhood and adulthood
Asta Raskilienė, Alina Smalinskienė, Vilma Kriaucionienė, Janina Petkeviciene
- AD09.06** Challenges in weighing community-dwelling individuals with high body mass index: a barrier to accessing safe routine care
Kath Williamson, Amy Nimegeer, Mike Lean
- AD10.01** Consumption of sugar-sweetened beverages, fruit juice, low-calorie beverages and body weight change and obesity in Dutch adults: The Lifelines Cohort - a SWEET study
Marion E.C. Buso, Elske M. Brouwer Brolsma, Naomi Novita, Anne Raben, Edith J.M. Feskens
- AD10.02** Energy density of commercial foods for infants and young children in Bulgaria
Angelina Partzova, Lalka Rangelova, Ekaterina Chikova Ischener
- AD10.03** Bi-directional association of appetitive behaviors and body composition in school-aged children
Sarah Warkentin, Alison Fildes, Andreia Oliveira
- AD10.04** Knowledge of nutritional requirements and food habits in Qatar: The case of Community College students
Lamia Ismayil, Maryam Vojdani



ABSTRACT DISCUSSION

- AD10.05** **Impact of obesity on gestational diabetes mellitus**
Salma Abadía, Imen Sebai, Sarah Raddedi, Haifa Abdesslem, Amal Salem, Zeineb Zemni, Rym Yahyaoui, Asma Ben Brahim, Kamilia Ounaissa, Chiraz Amrouche
- AD11.01** **The COVID-19 pandemic and its impact on participation in an online behavioural weight loss programme: A Qualitative Exploration**
Meigan Thomson, Anne Martin, Emily Long, Jennifer Logue, Sharon Anne Simpson
- AD11.02** **Variation of free sugar intake across eating occasions in secondary school pupils in the West Midlands, United Kingdom: a cross sectional study**
Abigail Stewart, Rhona Duff, Miranda Pallan
- AD11.03** **Impact of COVID-19 lockdown measures on lifestyle behavior in children and adolescents with severe obesity**
Mila S. Welling, Ozair Abawi, Emma van den Eynde, Elisabeth F. C. Van Rossum, Jutka Halberstadt, Erica L. T. Van Den Akker, Bibian Van Der Voorn
- AD11.04** **The utility of the Edmonton Obesity Staging System for the prediction of COVID-19 outcomes: A multi-center study**
Marcela Rodríguez Flores, Eduardo Wilfrido Goicoechea Turcott, Leonardo Mancillas Adame, Nayely Guadalupe Garibay Nieto, Malaquias López Cervantes, Mario E. Rojas Russell, Luis Fernando Campos Calderón, Eréndira Villanueva Ortega, Sheyla Marcela Monzalvo Reyes, Rafael García Rascón, Dora Elia Cortés Hernández, Marcela Granados Shiroma, Juana María Cerda Arteaga, Héctor Raúl Pérez Gómez, Roberto Calva Y Rodríguez, Roopa Mehta, Edurne Sandoval Diez, Edward W. Gregg
- AD11.05** **Digital transformation for the virtual management of Obesity**
Teresa Montoya Álvarez, Clotilde Vázquez Martínez, Irene Hoyas Rodríguez, Bogdana Luiza Luca, Jersey Jair Cárdenas Salas, Leticia López Escudero, Cristina Cruces Vega
- AD11.06** **Effect of COVID-19 lockdowns on physical activity, eating behaviour, body weight and psychological outcomes in a post-bariatric cohort**
Alice Bellicha, Pierre Bel Lassen, Christine Poitou, Laurent Genser, Florence Marchelli, Judith Aron Wisniewsky, Cécile Ciangura, Flavien Jacques, Pauline Moreau, Nutrimics Investigators, Karine Clément, Jean Michel Oppert
- AD11.07** **Facing challenging times due to Covid-19 in Portugal with remarkable enthusiasm by adolescents in Youth Alliances of the EU-H2020 Project CO-CREATE**
Sofia Mendes, Diogo Oliveira Dos Santos, Ana Rito
- AD12.01** **Semaglutide 2.4 mg Induces Weight Loss and Improves Body Composition Across Age Groups in Adults With Overweight or Obesity: Post-Hoc Analysis of the STEP 1 Trial**
Dror Dicker, Rachel L Batterham, Juan P Frias, Luc F van Gaal, Camilla Jensen, David CW Lau, Peter Nørkjær Laursen, Barbara M McGowan, Kristian Kandler, Frank L Greenway
- AD12.02** **Semaglutide 2.4 mg and Intensive Behavioural Therapy in Subjects with Overweight or Obesity (STEP 3)**
Juan P Frias, Timothy S Bailey, Liana K Billings, Anna Koroleva, Patrick M O'neil, Domenica M Rubino, Dorthe C Skovgaard, Thomas A Wadden, Signe OR Wallenstein, W Timothy Garvey
- AD12.03** **Efficacy and Safety of AM833 for Weight Loss: A Dose-finding Trial in Adults with Overweight/Obesity**
Rachel L Batterham, Lars Erichsen, Ann Marie Francisco, Carel W le Roux, Barbara McGowan, Sue D Pedersen, Kirsi H Pietiläinen, Domenica Rubino, Altnay Satylganova, David CW Lau
- AD12.04** **Safety and Tolerability of Concomitant Administration of Multiple-Dose AM833 with Semaglutide 2.4 mg for Weight Management**
Lone B Enebo, Kasper K Berthelsen, Martin Kankam, Michael T Lund, Domenica Rubino, Altnay Satylganova, David CW Lau
- AD12.05** **The effect of AM833 on patient-reported outcomes in individuals with overweight or obesity**
Kirsi H Pietiläinen, Rachel L Batterham, Lars Erichsen, Ann Marie Francisco, Carel W le Roux, Barbara McGowan, Sue D Pedersen, Domenica Rubino, Altnay Satylganova, David CW Lau
- AD12.06** **Effects of Glucagon-Like-Peptide-1 analogue treatment in genetic obesity**
Mila S. Welling, Cornelis J. De Groot, Lotte Kleinendorst, Bibian Van Der Voorn, Jan Steven Burgerhart, Eline S. Van Der Valk, Mieke M. Van Haelst, Erica L. T. Van Den Akker, Elisabeth F. C. Van Rossum
- AD12.07** **Once-Weekly Semaglutide 2.4 mg Improved Metabolic Syndrome in Adults With Overweight or Obesity: Post-Hoc Analysis of the STEP 1 Trial**
Carel W le Roux, Melanie Davies, Juan P Frias, Peter Nørkjær Laursen, Ildiko Lingvay, Sriram Machineni, Anette Varbo, John PH Wilding, Signe Olrik Rytter Wallenstein, Leigh Perreault



ABSTRACT DISCUSSION

- AD12.08** Semaglutide 2.4 mg Once Weekly Improves Patient-Reported Outcome Measures of Physical Functioning in Adults with Overweight or Obesity in the STEP 1 Trial
Sean Wharton, Jakob B Bjorner, Robert F Kushner, Tugce K Oral, Sue D Pedersen, Domenica M Rubino, Donna H Ryan, Lisa von Huth Smith, Niels Zeuthen, Ronette L Kolotkin
- AD13.01** Bump2Baby and Me: protocol for a randomised control trial of mHealth coaching for healthy gestational weight gain and improved postnatal outcomes in high-risk women and their offspring
Sharleen L O'reilly, Aisling A Geraghty, Fionnuala M McAuliffe, Timothy C Skinner, Rachel Laws, Karen K Campbell, Vincent Versace, Helena Teede, Cheryce Harrison, Jesper Andresen, Jane Norman, Christy Burden, Cristina Campoy, Helle Terkildsen Maindal
- AD13.02** ACT and mindfulness group intervention for enhancing psychological and physical well-being of adults struggling with overweight: the Mind&Life study protocol
Idoia Iturbe, Eva Pereda Pereda, Iratxe Urkia, Enrique Echeburúa, Edurne Maiz
- AD13.03** Relationship between Obesity, Insulin Resistance and Glycemic Changes in Type 2 Diabetes Mellitus: Initial Insights from the Randomised Trial Evaluating Whole-Body Digital Twin Technology Enabled Precision Nutrition for Reversal of Diabetes
Paramesh Shamanna, Shashank Joshi, Lisa Shah, Jahangir Mohammed, Maluk Mohamed, Terrence Poon, Mohamed Thajudeen, Ashok Keshavamurthy, Suchitra Bhonsley
- AD13.04** Development of an acceptance-based guided self-help behavioural intervention for weight loss maintenance: an evidence-, theory- and person-based approach
Rebecca Richards, Rebecca A Jones, Fiona Whittle, Carly A Hughes, Andrew J Hill, Emma R Lawlor, Simon J Griffin, Jennifer Bostock, Sarah Bates, Marie Stubbings, Jenny Woolston, Amy L Ahern
- AD13.05** Predictors of weight loss within a digital behaviour change programme
Rosemary Huntriss, Philipp Kanehl, Tobias Larsen, Lucy Jones
- AD13.06** Changes in appetite-regulating hormones do not predict weight regain during a combined lifestyle intervention for obesity
Susanne Kuckuck, Eline S. Van Der Valk, Anton J. W. Scheurink, Sjoerd A. A. Van Den Berg, Elisabeth F. C. Van Rossum
- AD13.07** Attrition and retention in multidisciplinary weight management interventions for adults with obesity: a systematic review
Jordan Everitt, Enzo Battista Dowds, Dan Heggs, Amanda Squire
- AD14.01** The effect of bariatric surgery on healthcare costs and labour market attachment
Mette Bøgelund, Nils Bruun Jørgensen, Sten Madsbad, Maria Elmegaard Madsen, Ulrik Haagen Pantton, Mikkel Hasse Pedersen, Pierre Johansen
- AD14.02** Does post-bariatric surgery nutritional follow-up in primary care in the UK meet current clinical guidance?
Helen M Parretti, Anu Subramanian, Nicola J Adderley, Sally Abbott, Abd A Tahrani, Krishnarajah Nirantharakumar
- AD14.03** Bariatric surgery impacts on gut microbiota composition and faecal metabolome profile in morbid obese patients
Sara Román-Sagüillo, María Juárez-Fernández, David Porras, María Victoria García-Mediavilla, Pedro Linares, María Ballesteros-Pomar, Ana Urioste-Fondo, Begoña Álvarez-Cuenillas, Javier González-Gallego, Sonia Sánchez-Campos, Francisco Jorquera, Esther Nistal
- AD14.04** The association between bariatric surgery and cataract: a cohort study from Swedish nationwide healthcare registries
Theresa Burkard, Dag Holmberg, Farhad Hafezi, Andrea Burden
- AD14.05** Gastric bypass with sleeve pouch delays weight regain: five years results of a rct
Sietske Okkema, Abel Boerboom, Edo Aarts, Theo Aufenacker, Frits Berends, Eric Hazebroek
- AD14.06** A systematic review of food preference modifications after bariatric surgery
Erika Guyot, Anestis Dougkas, Julie Anne Nazare, Sarah Bagot, Emmanuel Disse, Sylvain Iceta
- AD14.07** Short and long term effects of bariatric surgery in obesity among individuals with MC4R deficiency: data from a large diabetes centre in the United Arab Emirates
Eshpie Grace Fojas, Saradalekshmi Radha, Tomader Ali, Nader Lessan
- AD15.01** Arterial stiffness and cardiometabolic-based chronic disease: the KardioVize study
Iuliia Pavlovskaya, Jeffrey J Mechanick, Geraldo A Maranhao Neto, Maria M Infante Garcia, Ramfis Nieto Martinez, Sarka Kunzova, Anna Polcova, Robert Vysoky, Jose R Medina Inojosa, Francisco Lopez Jimenez, Gorazd B Stokin, Juan P González Rivas



ABSTRACT DISCUSSION

- AD15.02** **Quality of Life, Physical Function and Resting Oxygen Saturation associated with high STOP-BANG (Sleep Apnoea) Scores in a population with BMI>35kg/m2**
Ruth Fox, Emer O'malley, Colin Dunlevy, Claire Kearney, Donal O'shea, Jean O'connell
- AD15.03** **Screening for Obstructive Sleep Apnoea in Women in a Level 3 Weight Management Service – Do the Epworth Sleep Scale and the STOPBANG questionnaires have Predictive Validity?**
Ruth Fox, Emer O'malley, Colin Dunlevy, Claire Kearney, Donal O'shea, Jean O'connell
- AD15.04** **Body mass index, but not waist circumference nor metabolic control, is associated with the presence of NAFLD in subjects with type 1 diabetes**
Jonathan Mertens, Jonas Weyler, Luisa Vonghia, Eveline Dirinck, Sven Francque, Christophe De Block
- AD15.05** **Cardio-metabolic Indices and Metabolic Syndrome as Predictors of Clinical Severity of Gastroenteropancreatic Neuroendocrine Tumors (GEP-NET)**
Luigi Barrea, Gabriella Pugliese, Daniela Laudisio, Roberta Modica, Antongiulio Faggiano, Silvia Savastano, Annamaria Colao, Giovanna Muscogiuri
- AD15.06** **Ultra-processed products and markers of liver health: longitudinal analysis in older individuals with metabolic syndrome from the PREDIMED-Plus trial cohort**
Jadwiga Konieczna, Miguel Fiol, Marga Morey, Maira Bes Rastrollo, Miguel Ruiz Canela, Jesús Vioque, Sandra Gonzalez Palacios, Lidia Daimiel, Miguel Ángel Martínez González, Jordi Salas Salvadó, J. Alfredo Martínez, Dora Romaguera
- AD15.07** **Higher levels of C-Reactive Protein in patients with overweight and SARS-CoV-2 related pneumonia**
Silvia Bettini, Giovanni Bucca, Caterina Sensi, Chiara Dal Prà, Roberto Fabris, Roberto Vettor, Luca Busetto



TOPIC SESSIONS



TOPIC SESSIONS

- TS01.01** **Control of Integrative Physiology by the Melanocortin Circuitry**
Jens Claus Brüning
- TS01.02** **Astrocytes and Metabolism**
Laura M Frago, Roberto Collado Pérez, María Soledad Fernández Alonso, Jesús Argente, Julie A Chowen
- TS01.03** **Assessing Fat-free Mass at the Tissue-Organ Level Better Explains the Between-Subject Variance in Fasted Hunger Sensations: An Exploratory Study Using Magnetic Resonance Imaging in Healthy Men**
Nuno Casanova, Anja Bosy Westphal, Manfred J Müller, Kristine Beaulieu, John Blundell, Graham Finlayson, Mark Hopkins
- TS01.04** **Fgf21 influence on food choice and hypothalamic gene expression in obese male and female mice**
Pavel Orlov, Elena Makarova
- TS02.02** **The inflammation state as main drivers of aberrant DNA-RNA methylation in colorectal cancer**
Manuel Macias Gonzalez, Hatim Boughanem Lakhali
- TS02.03** **Six adiposity-related markers associations with incidence from 24 cancers – Findings from the UK Biobank prospective cohort study**
Solange Parra Soto, Emma S Cowley, Leandro Rezende, Caterina Ferreccio, John C Mathers, Jill P Pell, Frederick K Ho, Carlos Celis Morales
- TS02.04** **Body mass index in childhood and its associations with risks of pre- and post-menopausal breast cancer**
Dorthe C. Pedersen, Britt W. Jensen, Anne Tjønneland, Zorana J. Andersen, Lene Mellemkjaer, Lise G. Bjerregaard, Julie Aarestrup, Jennifer L. Baker
- TS03.01** **Leveraging microRNA targets to treat obesity**
Sean M Hartig
- TS03.03** **Role of interleukin-1 β in inflammation and extracellular matrix remodelling in obesity and its associated comorbidities**
Amaia Mentxaka, Javier Gómez Ambrosi, Beatriz Ramírez, Amaia Rodríguez, Sara Becerril, Víctor Valentí, Rafael Moncada, Camilo Silva, Gema Frühbeck, Victoria Catalán
- TS03.04** **Causal implication of the gut microbiota in type 2 diabetes resolution after Roux-en-Y gastric bypass**
Jean Debédat, Lise Voland, Tiphaine Le Roy, Pierre Bel Lassen, Solia Adriouch, Eugeni Belda, Camille Gamblin, Léa Le Gléau, Rohia Alili, Licia Torres, Geneviève Marcelin, Christine Rouault, Laurent Genser, Nathalie Kapel, Christine Poitou, Judith Aron Wisniewsky, Karine Clément
- TS04.01** **Revisiting adipose Tissue progenitors**
Nathalie Boulet, Jean Galitzky, Anne Bouloumié
- TS04.02** **Metabolic and Endocrine functions of Bone Marrow Adipose Tissue**
Karla J Suchacki, Adriana A.S. Tavares, Domenico Mattiucci, Erica L Scheller, Giorgos Papanastasiou, Calum Gray, Antonella Poloni, Saverio Cinti, Ormond A MacDougald, Nicholas M Morton, Roland H Stimson, William P Cawthorn
- TS04.03** **Alterations in miR-26a levels in breast milk may affect gene expression of target genes (Hmag1, Rb1, and Adam17) in the adipose tissue of offspring**
Catalina Amadora Pomar, Francisca Serra, Andreu Palou, Juana Sánchez
- TS04.04** **Associations of objectively measured physical activity, sedentary time and cardiorespiratory fitness with adipose tissue insulin resistance and ectopic fat in community volunteers**
Sundus Malaikah, Scott A. Willis, Joseph Henson, Jack A. Sargeant, Thomas Yates, Alice E. Thackray, Fernanda R. Goltz, Matthew J. Roberts, Danielle H. Bodicoat, Guruprasad P. Aithal, David J. Stensel, James A. King
- TS05.01** **Strategies to promote physical activity among European children and adolescents.**
Christine Joisten
- TS05.02** **Determinants and consequences of physical activity and sedentary behaviour in European children and adolescents with obesity**
Francisco B Ortega
- TS05.03** **24-hour movement behaviors and cardiometabolic risk factors in children: A isotemporal substitution analysis**
Luiza Naujorks Reis, Cézar Priscila Reuter, Caroline Brand, Clarice Martin, Camila Felin Fochesatto, Leticia Borfe, Jorge Mota, Adroaldo Gaya, Anelise Reis Gaya
- TS05.04** **Exercise motives in adolescent girls and boys of different BMI**
Petra Anić, Alessandra Pokrajac Buljan, Tamara Mohorić, Miljana Kukić, Nataša Dragaš Zubalj
- TS06.01** **Mental health and inflammation in youth with obesity: what can we learn?**
Caroline Braet, Ine Verbiest



TOPIC SESSIONS

- TS06.03 Adolescent's weight status and mental wellbeing: the role of body image**
Anne-siri Fismen, Martina Galler, Knut Inge Klepp, Therese Wardenær Bakke, Oddrun Samdal, Arnfinn Helleve
- TS06.04 Adolescents' stress reactivity and emotional eating during a lab stressor: differences depending on chronic stress and overweight**
Kathleen Wijnant, Joanna Klosowska, Stefaan De Henauw, Lynn Vanhaecke, Lynn Vanhaecke, Nathalie Michels
- TS07.03 Complications of Childhood Obesity: the 4M approach**
Katherine Mary Morrison
- TS08.01 Obesity Prevention in Children and Adolescents: nutritional challenges**
Mary Flynn
- TS08.03 Biomarkers in breastfeeding and metabolic programming**
Catalina Picó
- TS09.01 COVID19 makes tackling the obesity pandemic even more urgent**
Norbert Stefan
- TS09.02 Obesity and COVID-19: Two sides of the coin**
Luca Busetto
- TS11.03 Economic impacts of obesity: a cross-country analysis**
Rachel Nugent, Adeyemi Okunogbe, Garrison Spencer
- TS12.01 Obesity stigma, mental health and dietary behaviours**
Rebecca Puhl
- TS12.03 Healthy Aging and Cognition in the Predimed Plus Study**
Fernando Fernandez-Aranda, Jordi Salas-Salvado
- TS13.01 New drugs in the pipeline**
Hermann Toplak
- TS14.01 Nutrigenomics**
Dolores Corella
- TS14.03 Metabolomic signatures after bariatric surgery**
Mariana P Monteiro
- TS15.01 Weight-reduction-induced markers of weight regain: characterisation and mechanisms**
Marleen van Baak
- TS15.02 Epigenomic biomarkers to predict weight reduction and weight regain in patients with obesity**
Ana B Crujeiras
- TS15.03 Adipose tissue: an under-exploited source of biomarkers for obesity sub-typing and personalized obesity care.**
Assaf Rudich, Yulia Haim, Nitzan Maixner, Nir Goldstein, Yftach Gepner, Matthias Bluher, Idit Liberty, Tal Pecht
- TS16.03 Special diets and microbiota modulation**
Isabel Moreno Indias, Francisco J Tinahones



ACCEPTED SYMPOSIUM



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- | | |
|--------|--|
| AS1.01 | Different approaches towards personalized nutrition – status quo and future directions
<i>Christina Holzapfel, Marie Christine Simon, Andrea Henze, Christine Dawczynski</i> |
| AS2.01 | Beyond Body Mass Index: positioning body composition in the nutrition assessment menu
<i>Victor O Owino, Mary Fewtrell, John Reilly</i> |
| AS7.01 | Understanding sarcopenic obesity: the ignored phenotype?
<i>Marwan El Ghoch, Giovanna Muscogiuri, Andrea Paolo Rossi</i> |



PLENARY LECTURES

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- | | |
|--------|--|
| PL3.02 | Effects of preconception obesity and gestational weight gain on obesity in children
<i>Arne Astrup</i> |
| PL4.01 | COVID-19: Impacts on Child and Adolescent Obesity and Health
<i>Kremlin Wickramasinghe</i> |
| PL5 | Reassessing prevention: From children to the elderly
<i>Mikael Fogelholm</i> |
| PL7.01 | Diagnosis and treatment of lipodystrophies
<i>Ferruccio Santini</i> |
| PL7.02 | Diagnostic criteria for Sarcopenic Obesity (ESPEN-EASO)
<i>Tommy Cederholm</i> |
| PL8 | Primary prevention of cardiovascular disease with Mediterranean diet: PREDIMED studies
<i>Jordi Salas Salvado</i> |



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