

3rd Edition of World Congress on
**ENDOCRINOLOGY, DIABETES
AND METABOLISM**

Oct 04 - 05, 2022 at
London, United Kingdom

Scientific Program

Venue:
Hotel Novotel London Wembley
London, United Kingdom



In-person Talks:
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DAY
1

3rd Edition of World Congress on
**Endocrinology, Diabetes and
Metabolism**



Tuesday

OCT 04, 2022

Virtual Session Through ZOOM
Time Zone- London Time (GMT+1)

Day 1 - October 04, 2022

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- 10:00 - 10:20 Title: Novel angiotensin converting enzyme 2 (ACE2) for treatment of diabetic kidney disease
Niwanthi Rajapakse, The University of Queensland, Australia
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- 10:20 - 10:40 Title: Comparison of the development and prognosis in patients of hypertriglyceridemic pancreatitis with and without diabetes
Xiaobing Liu, HuiDong People's Hospital, China
-
- 10:40 - 11:00 Title: Self-management behavior and fasting plasma glucose control in patients with type 2 diabetes mellitus over 60 years old: multiple effects of social support on quality of life
Xinye Qi, Harbin Medical University, China
-
- 11:00 - 11:20 Title: Novel insight into understanding diabetic myopathy; calcium dysregulation
Hiroaki Eshima, Nagsaki International University, Nagsaki, Japan, Japan
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- 11:20 - 11:40 Title: UCP1 Dependent and Independent Thermogenesis in Brown and Beige Adipocytes
Kenji Ikeda, Tokyo Medical and Dental University, Japan
-
- 11:40 - 12:00 Title: Long-term exercises increase the taste sensitivity for sucrose and reduces the carbohydrate intake and anthropometric parameters in patients with type 2 diabetes mellitus (T2DM)
Priyadarshika Hettiaracchchi, University of Sri Jayewardenepura, Srilanka
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- 12:00 - 12:20 Title: Diabetes Mellitus Risk Prediction in the Presence of Class Imbalance using Flexible Machine Learning Methods
Somayeh Sadeghi, Tehran University of Medical Sciences, Iran
-
- 12:20 - 12:40 Title: Prunus domestica L.: Metabolite profiling and in vitro protective activity against metabolic syndrome
Hammad Ullah, University of Napoli Federico, Italy
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Long-term exercises increase the taste sensitivity for sucrose and reduces the carbohydrate intake and anthropometric parameters in patients with type 2 diabetes mellitus (T2DM)

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Emerging evidence suggests a relationship between exercises and taste sensitivity for sucrose. This study aimed at determining an association between taste sensitivity with energy intake and anthropometric parameters in T2DM on long-term exercises. A randomized controlled trial conducted with 225 T2DM patients aged 35-60 years was assigned randomly into 3 groups aerobic (n=75), combined (n=75) and control (n=75) groups. The aerobic exercise group performed brisk walking 30min/day, 3-5days/week and the combined exercise group performed resistance exercises, 2-3days/week in addition to aerobic exercises. Primary outcomes were suprathreshold intensity for sucrose measured by 'general Labeled Magnitude Scale' following a standard breakfast meal (275 kcal) and anthropometric parameters (height, weight, waist and hip circumferences) measured by conventional methods at 0, 3 and 6 months. Carbohydrate intake, assessed, based on a 3-day diet diary, using 'Nutrsurvey2007' in a matched subset (Aerobic n=36, Combined n= 36, Controls n=36) was a primary outcome. Glycemic control, determined by HbA1c (glycosylated hemoglobin) assessment using HPLC method at 0, and 6 months was a secondary outcome. Association between taste sensitivity for sucrose, carbohydrate intake, and anthropometric parameters was done using Pearson Correlation test and Multiple Linear Regression. Aerobic exercise group showed a significant negative correlation between taste threshold for 2.02M, 0.64M solutions and waist circumference at 3 and 6 months (p<0.05). Combined exercise group had negative correlations between all anthropometric parameters with taste sensitivity for 2.02M and 0.64M solutions at 6 months (p<0.05). A 1 mm increase in suprathreshold intensity ratings for sucrose (0.64M) reduces daily carbohydrate intake from 5.2g (R=0.801, R²=642, p=0.004) and 2.3kg of body weight (R=0.586, R² = 0.343, p=0.002) when all other independent variables were held constant with combined exercises. Taste sensitivity has an inverse relationship with carbohydrate intake and body weight in patients with T2DM who perform regular combined exercises.

Biography

Priyadarshika Hettiarachchi has MBBS, Mphil, PhD is a Professor at University of Sri Jayewardenepura. Joined the University as a probationary lecturer and has more 25 years of experience in teaching medical and paramedical students. Her Mphil is on glycemic indices of different varieties of rice in Sri Lanka. Following receiving a Commonwealth split-site doctoral scholarship she completed her PhD related to gut hormones. She is interested in research related to diabetes mellitus, appetite, taste and exercise. She has more than fifteen publications in peer reviewed journals.