

20th International Conference on
Diabetes, Nutrition, Obesity & Eating Disorders

Diabetes & Metabolism Volume: 12

May 24-25, 2021 | Webinar

Relationship Between Type 2 Diabetes Mellitus, Obesity And Vitamin D Deficiency**Pankiv Ivan**

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Abstract

Previous epidemiologic studies suggested that vitamin D deficiency may be a risk factor of obesity and type 2 diabetes mellitus (DM). However, the result is still controversial. Type 2 DM and obesity are widely prevalent in Ukraine. The aim of the study was to determine the vitamin D status in relation to type 2 DM and obesity. This cross-sectional study was conducted at the Bukovinian State Medical University from June to September 2019. Approval of ethical committee was taken. A total of 402 patients with type 2 DM and obesity were enrolled in this study. Vitamin D status was assessed using 25(OH)D levels. Height and weight of the patients were recorded to obtain BMI. Of the total sample, 283 (70.4%) were females and 119 (29.6%) were males. Mean age of the participants was 47.28±14.83 years. Mean vitamin D levels were 19.03±6.91 ng/ml. A total of 373 (92.8%) patients were either vitamin D deficient 171 (42.5%) or insufficient 202 (50.2%) while 29 (7.2%) were sufficient in vitamin D. As regards BMI and vitamin D status, the difference was statistically significant ($p=0.014$). Vitamin D deficiency is widely prevalent in Ukraine. There is also a high prevalence of obesity and type 2 DM and they are inversely related to low vitamin D levels.

Biography

Pankiv I. has completed his PhD at the age of 27 years from Ternopil State Medical University and postdoctoral studies from Kyiv Research Institute of Gerontology National Academy of Medical Sciences of Ukraine. He is Associate Professor of Department of Clinical Immunology, Allergology and Endocrinology at Bukovinian State Medical University. He has published more than 50 papers in reputed journals and has been serving as an editorial board member of International Journal of Endocrinology (Ukraine).

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