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Ethnic aspects in lipid and carbohydrate metabolism in patients with type 1 diabetes mellitus

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Incidence, severity, and rate of complications of type 1 diabetes mellitus (T1D) associated with many factors including geographic location and ethnicity. Sixty-five patients of the Russian and Buryat populations having 1 type diabetes were examined. All patients examined were born in Buryat republic and were living there. It was revealed that the changes in indices of lipidogramms in patients of Russian population are atherogenic variant of dislipidemia. During the analysis of the indices of carbohydrate metabolism in the control and patients' groups there was found reliable increase of lactic acid level and ratio of lactic acid/pyruvic acid in patients of Russian population. Lactic acid content and ratio of lactic acid/pyruvic acid in this group increased by 2.4. Thus, more significant increases in lactic acid blood levels in Russian with T1D indicates an anaerobic tendency of their metabolism with acidosis development.

Biography

Lubov Kolesnikova completed her PhD in 1994 and became corresponding member of Russian Academy of Medical Sciences in 2000 year. Since 1999 until present she is a Director of Scientific centre of family health and human reproduction problems of Siberian brunch of RAMS (Irkutsk, Russian Federation). She has published more than 400 papers and serving as an Editorial Board Member of some journals.

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