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No association between LEPR Q223R and plasma leptin level in Caucasian female adolescents

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Statement of the Problem: The hormone leptin is involved in regulation of energy metabolism. Effect of the leptin is carried out through binding to its receptor in target tissues. Many polymorphisms of LEPR gene were found out including Q223R (Gln223Arg). This polymorphism produces molecular changes in extracellular region of the LEPR. Several studies showed the association of polymorphism with obesity and leptin level in adult and adolescent samples. However, some studies showed no association.

Methodology & Theoretical Orientation: A total of 128 Caucasian female adolescents living in Eastern Siberia (Irkutsk city, Russia) were observed. 59 of them were included in control group (average age 15.72±0.93; SDS BMI 0.84±0.55) and 69 adolescents were

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