

عنوان مقاله:

The Association between GNB β Gene Polymorphism and Obesity: A Systematic Review and Meta-Analysis

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نویسندگان:

Narges Faramarziyan - *Department of Physical Education and Sport Sciences, Faculty of Literature and Human Sciences, Lorestan University, Khoramabad, Iran*

Masoud Rahmati - *Department of Physical Education and Sport Sciences, Faculty of Literature and Human Sciences, Lorestan University, Khoramabad, Iran*

Rahim Mirnasouri - *Department of Physical Education and Sport Sciences, Faculty of Literature and Human Sciences, Lorestan University, Khoramabad, Iran*

Mostafa Bahrami - *Department of Physical Education and Sport Sciences, Faculty of Literature and Human Sciences, Lorestan University, Khoramabad, Iran*

خلاصه مقاله:

The association between Guanine Nucleotide Binding protein β protein polypeptide β (GNB β) C β T polymorphism and obesity has recently been reported. However, the findings remain inconclusive. The aim of this systematic review and meta-analysis was to detect the relationship between GNB β C β T polymorphism and obesity. Materials and Methods: Six electronic databases including Embase, Medline, science direct and SID were investigated and searched for English articles, published before February 2016, which referred to the association between GNB β C β T polymorphism and obesity. Pooled odds ratios (OR) with a 95% confidence interval (CI) were calculated in allele, recessive, dominant and additive genetic models to assess this association. Results: The findings demonstrated that GNB β TT homozygote status was significantly associated with an increased risk of obesity compared with CC wild-type homozygote (TT vs. CC: OR= 1.237, 95% CI: 1.040- 1.472, P-value: 0.016), while one mutation allele (TC) could not significantly increase the risk of obesity (TC vs. CC: OR= 0.91, 95% CI: 0.79- 1.05, P-value: 0.207). Conclusion: Our meta-analysis suggested a significant association between the TT genotype of the GNB β gene polymorphism and obesity risk. Thus, targeted healthcare should be strengthened with regard to this gene carrier in order to prevent obesity.

کلمات کلیدی:

polymorphism, GNB β gene, obesity, meta-analysis

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