

Polymorphisms in the MTHFR and MTR genes and the risk of varicose veins in ethnical Russians

Shadrina A., Sevost'ianova K., Shevela A., Soldatsky E., Seliverstov E., Demekhova M., Shonov O., Ilyukhin E., Smetanina M., Voronina E., Pikalov I., Zolotukhin I., Filipenko M.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

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Objectives: The objective of this study was to study the association of polymorphisms MTHFR C677T (rs1801133) and MTR A2756G (rs1805087) with the risk of varicose veins in ethnical Russians. Methods: We genotyped 475 patients with varicose veins, 168 individual without chronic venous disease, and the population-based group of 896 subjects. Association was studied using logistic regression analysis adopting co-dominant, additive, recessive, and dominant models of inheritance. Results: None of the polymorphisms showed a statistically significant association with the risk of varicose veins. Conclusions: Our results provide evidence that the studied polymorphisms do not contribute to genetic susceptibility to varicose veins in ethnical Russians.

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Keywords

Association, folate-metabolizing genes, SNP