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Investigation of the MGP promoter and exon 4 polymorphisms in patients with ischemic stroke in the Ukrainian population
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У роботі представлено результати вивчення трьох поліморфізмів гена MGP (T-138C, G-7A, Thr83Ala) у хворих з ішемічним інсультом і в контрольній групі пацієнтів.

Опублікована стаття є першою самостійною (без співавторства з науковцями інших установ і навчальних закладів) публікацією за результатами, одержаними в науковій лабораторії молекулярно-генетичних досліджень СумДУ.

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Resea

Investigation of the MGP promoter and exon 4 polymorphi patients with ischemic stroke in the Ukrainian population

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Abstract

Matrix γ-carboxyglutamic acid protein (MGP) is a vitamin K-dependent protein playing a preventing arterial calcification. In the present study, we aimed to investigate the relation single nucleotide polymorphisms of MGP gene and ischemic stroke (IS) in the Ukrainian pop patients and 124 healthy controls were recruited to the study. MGP SNPs were examined methodology. The distribution of homozygous carriers of the major allelic variant, and het homozygous minor allele variants of the T-138C MGP promoter polymorphism (rs1800802) i IS was 61.2%, 31.2% and 7.6%, respectively. The corresponding distributions of the variants group were 59.7%, 35.6%, 4.8%. With regard to the G-7A promoter polymorphism (rs respective distributions were 35.9%, 48.8% and 15.3%, compared to 43.5%, 50% and 6.5% group. Finally, the respective distributions according to the Thr83Ala exon 4 polymorphism 39.4%, 48.8% and 11.8%, compared to 34.7%, 53.2% and 12.1% in the control group. regression analysis, it was estimated that A/A genotype (G-7A polymorphism) was significa associated with IS (OR=2.943; 95% CI: 1.218–7.109) in the Ukrainian population. A-allele h female sex had a risk of IS more than 7 times higher compared with carriers of G/G genotype.
Keywords: Matrix Gla protein, single nucleotide polymorphism, ischemic stroke, arteria Ukrainian population.