

MEETING ABSTRACT

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# EHMTI-0058. Association between Ala379Val polymorphism of lipoprotein-associated phospholipase A2 and migraine without aura in an Iranian population

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## Introduction

Migraine is a common neurovascular disorder with multifactorial and polygenic inheritance.

## Aims

The aim of this study was to investigate the association of migraine without aura and Ala379Val polymorphism of lipoprotein-associated phospholipase A2 (Lp-PLA2) gene in an Iranian population.

## Methods

In this study 103 migraine patients and 100 healthy controls were enrolled. DNA samples were extracted and the Ala379Val polymorphism of Lp-PLA2 gene was investigated. To assess severity of headache, patients filled out the HIT-6 and MIGSEV questionnaires.

## Results

Allele V had significantly lower frequency in case group than control subjects ( $P=0.00$ ,  $OR=0.25$ ,  $CI=0.15 - 0.40$ ). The frequency of migraine patients that were carrier of V allele (V/V and A/V) was statistically significant lower than control group ( $P=0.003$ ,  $OR=2.39$ ,  $CI: 1.35 - 4.23$ ). There was no significant difference of alleles frequency between three grades of MIGSEV ( $P=0.316$ ). Also total HIT-6 score was not significantly different between different genotypes (0.466).

## Conclusion

In conclusion our results showed that Ala379Val gene polymorphism of Lp-PLA2 is associated with lower risk of migraine but not with severity of headaches.

No conflict of interest.

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