



LETTER TO THE EDITOR

Genetic polymorphisms in apolipoprotein E and atrial fibrillation



Polimorfismos genéticos na apolipoproteína E e fibrilhação auricular

Dear Editor,

We would like to share ideas on the publication “Correlation between genetic polymorphisms in apolipoprotein E and atrial fibrillation.”¹

Atrial fibrillation (AF) and genetic variations in apolipoprotein E (ApoE) were investigated by Wang et al.¹ ApoE4 is an AF-sensitive phenotype, according to Wang et al., who also reported that ApoE polymorphisms had an impact on the occurrence of AF.¹ The inherited component may or may not affect AF. In this study, the impact of a polymorphism is examined. We agree that the underlying genetic factor under study might be related to AF, however numerous genetic variants have been linked to AF. Gene polymorphisms in the *GJA1*, *ATFB5*, and *ADAMTS-13* families are some examples.²⁻⁴ Future research should take into account the effects of new, possibly puzzling genetic variations.

Conflict of interest

None declared.

References

1. Wang Y, Lou H, Wang M, et al. Correlation between genetic polymorphisms in apolipoprotein E and atrial fibrillation. *Rev Port Cardiol.* 2022;41:417–23.
2. Okamura S, Ochi H, Onohara Y, et al. *GJA1* gene polymorphism is a genetic predictor of recurrence following pulmonary vein isolation in patients with paroxysmal atrial fibrillation. *Heart Rhythm.* 2022;19:2044–50.
3. Abdullaeva G, Abdullaev A, Kevorkov A, et al. Interrelation between the rs2200733 polymorphism of the *ATFB5* gene and atrial fibrillation in Uzbek patients. *Turk Kardiyol Dern Ars.* 2021;49:404–9.
4. Wang HJ, Xiao M, Zeng Z, et al. Correlation analysis between *ADAMTS-13* gene polymorphism and hypertension-induced atrial fibrillation. *Eur Rev Med Pharmacol Sci.* 2020;24:2674–82.

Rujittika Mungmunpantipantip^{a,*}, Viroj Wiwanitkit^b

^a Private Academic Consultant, Bangkok, Thailand

^b Honorary Professor, Dr DY Patil Vidhyapeeth, Pune, India

* Corresponding author.

E-mail address: rujittika@gmail.com

(R. Mungmunpantipantip).