

### Platelet changes in healthy male smokers. *Scientific views*

*To the Editor*

We read with interest the study by Ghahremanfard et al.<sup>1</sup> This interesting study observed the changes in thrombocytopoiesis and platelet morphological parameters in healthy male smokers. We would like to take this opportunity to share our scientific views on this wonderful published article. It was not stated clearly what was the rationale behind excluding the subjects who consumed anti-platelet drugs specifically for 10 days prior to blood collection. Few other diseases, such as diabetes and blood related disorders in these subjects could have been taken into account for exclusion. It was mentioned in the results section “no meaningful difference was found in average age between smokers and non-smokers.” We are sure that the exact word should be ‘significant’ rather than ‘meaningful.’

It would be interesting to observe the level of monoamine oxidase B (MAO-B) protein level in the platelets. Interestingly, it has been seen that MAO-B protein concentration even remained elevated in individuals who had quit smoking.<sup>2</sup> The MAO-B level also varies according to gender. An earlier study in women found that 60% of smokers, and 15% of the non-smokers experienced arterial thrombosis.<sup>3</sup> It is to be debated if the arterial thrombosis, or any other platelet disorder would be more pronounced in male or even female smokers. In the present study, the idea

of focusing mainly only on the healthy male smokers could be added as a limitation of the study.

Overall, it is an interesting article for increasing public consciousness. The authors and the editor are truly appreciated for their efforts in publishing such an important article on a public health related issue.

*Nik Kosai*

*Reynu Rajan*

*Department of Surgery*

*Srijit Das*

*Department of Anatomy*

*Universiti Kebangsaan, Malaysia Medical Centre*

*Kuala Lumpur, Malaysia*

### *Reply from Author*

**No reply was received from the Author.**

### *References*

1. Ghahremanfard F, Semnani V, Ghorbani R, Malek F, Behzadfar A, Zahmatkesh M. Effects of cigarette smoking on morphological features of platelets in healthy men. *Saudi Med J* 2015; 36: 847-850.
2. Launay JM, Del Pino M, Chironi G, Callebert J, Peoc'h K, Ménégnien JL, et al. Smoking induces long-lasting effects through a monoamine-oxidase epigenetic regulation. *PLoS One* 2009; 4: e7959.
3. Coccini T, Randine G, Castoldi AF, Balloni L, Baiardi P, Manzo L. Lymphocyte muscarinic receptors and platelet monoamine oxidase-B as biomarkers of CNS function: effects of age and gender in healthy humans. *Environ Toxicol Pharmacol* 2005; 19: 715-720.

## Ethical Consent

All manuscripts reporting the results of experimental investigations involving human subjects should include a statement confirming that informed consent was obtained from each subject or subject's guardian, after receiving approval of the experimental protocol by a local human ethics committee, or institutional review board. When reporting experiments on animals, authors should indicate whether the institutional and national guide for the care and use of laboratory animals was followed.