

## LETTER TO EDITOR

### Pyridostigmine, working and toxicity on platelet

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Dear Editor

I read the recent publication by Leong *et al* on the effect of pyridostigmine or Mestinon on human platelet aggregation with a great interest.<sup>1</sup> In medicine, pyridostigmine has been investigated for its effect on biochemical and hematological parameters. Indeed, such effects have already been studied in animal models.<sup>2</sup> Somani *et al* reported on significant change due to receipt of pyridostigmine in a biochemical parameter, creatinine phosphokinase but not in red blood cells or platelets.<sup>2</sup> However, Husain *et al* recently noted that pyridostigmine plus exercise might induce change in platelet enzymes.<sup>3</sup> This might be the explanation for the possible toxicity of exposure to pyridostigmine among the workers who have to work hard and are exposed to pyridostigmine.

#### REFERENCES

1. Leong CF, Aini-Ardena M, Cheong SK, Norris N. Effect of pyridostigmine (Mestinon) on human platelet aggregation. Malays J Pathol. 2009; 31(1):45-52.
2. Somani SM, Husain K, Asha T, Helfert R. Interactive and delayed effects of pyridostigmine and physical stress on biochemical and histological changes in peripheral tissues of mice. J Appl Toxicol. 2000; 20(4):327-34.
3. Husain K, Somani SM. Persistent/delayed toxic effects of low-dose sarin and pyridostigmine under physical stress (exercise) in mice. Indian J Physiol Pharmacol. 2004;48(2):150-64.