



Letter to the editor

Comments on the effect of perampanel on aggression and depression in patients with epilepsy: A short-term prospective study



To the Editor

I read with great interest the article by Goji and Kanemoto [1]. After reading this article carefully, I wonder if the authors misinterpreted their data about relationship between dose of perampanel at the end-point of the study and changes in the total Buss Perry Aggression Questionnaire (BAQ) scores or they made typographical errors.

Firstly, daily dose of perampanel was categorized into two groups (2 and 4 mg vs. 6 and 8 mg). Table 4 showed variables associated with the difference of the total BAQ score between the entry and the endpoint using univariate analyses. Correlation coefficients (r) for the total BAQ score at the entry point and dose of PER at the end point were -0.299 and 0.300, respectively. These data suggested that higher dose of PER at the end point was associated with positive value of differences of the total BAQ score, which meant improvement in aggression at the end-point compared to at the entry.

Secondly, Table 5 showed variables associated with the difference of the total BAQ score between the entry and the endpoint using multivariate analyses. Was 'standardized coefficients' correct in the Table 5? Is it "unstandardized coefficients"? Similar to the Table 4, coefficients for the total BAQ score at the entry point and dose of PER at the end point had the opposite direction. Thus, positive coefficients for dose of perampanel suggested that dose of perampanel was negatively

associated with aggression at the endpoint of the study.

However, authors concluded that a dose-dependent effect of PER was confirmed in BAQ. I think that these should be explained by authors.

Declaration of Competing Interest

The authors declare no conflicts of interest in relation to this study.

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References

- [1] Goji H, Kanemoto K. The effect of perampanel on aggression and depression in patients with epilepsy: a short-term prospective study. *Seizure* 2019;67:1–4.

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