

Migraine and restless leg syndrome co-morbidity may be due to iron deficiency

Sir,

We inspected Gupta *et al.*'s^[1] study carefully. The authors investigated the effect of restless leg syndrome (RLS) on the formation of migraine-type headache. Our opinion is that iron deficiency may have an effect on the pathophysiology of migraine seen in RLS patients. So we recommend the readers to keep in mind that iron deficiency might have an effect on migraine formation in RLS patients.

Furthermore, when we inspected Gupta *et al.*'s^[1] study carefully, the authors investigated the effect of RLS on the formation of migraine-type headache. They focused on the hypothesis that the frequency and duration of RLS symptoms, sleep disturbance, and increased prevalence of depression, and positive family history, all caused by RLS, contribute in the formation of migraine-type headache. These factors are likely to contribute to the formation of migraine, as mentioned in the study. However, it is a recognized fact that iron deficiency is seen in RLS patients.^[2,3]

In the study conducted by Vuković-Cvetković *et al.*, has stated that iron deficiency anemia is common in patients with menstrual migraine and might have a trigger effect on migraine attacks.^[4] In the methodology of Gupta *et al.*'s study, iron deficiency was not a criteria of exclusion from the study. Our opinion is that iron deficiency may have an effect on the pathophysiology of migraine seen in RLS patients. So we recommend the readers to keep in mind that iron deficiency might have an effect on migraine formation in RLS patients.

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References

1. Gupta R, Lahan V, Goel D. Primary headaches in restless legs syndrome patients. *Ann Indian Acad Neurol* 2012;15:S104-8.
2. Quinn C, Uzbek M, Saleem I, Cotter P, Ali J, O'Malley G, *et al.* Iron status and chronic kidney disease predict restless legs syndrome in an older hospital population. *Sleep Med* 2011;12:295-301.
3. Çurgunlu A, Döventaş A, Karadeniz D, Erdinçler DS, Oztürk AK, Karter Y, *et al.* Prevalence and characteristics of restless legs syndrome (RLS) in the elderly and the relation of serum ferritin levels with disease severity: Hospital-based study from Istanbul, Turkey. *Arch Gerontol Geriatr* 2012;55:73-6.
4. Vuković-Cvetković V, Plavec D, Lovrenčić-Huzjan A, Galinović I, Serić V, Demarin V. Is iron deficiency anemia related to menstrual migraine? *Post hoc* analysis of an observational study evaluating clinical characteristics of patients with menstrual migraine. *Acta Clin Croat* 2010;49:389-94.

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10.4103/0972-2327.116956