

Importance of acute renal failure with ibuprofen

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Dear editor

Kuptniratsaikul et al report the efficacy of Curcuma domestica extracts in the treatment of knee osteoarthritis.¹ One of my concerns about this well designed study is lack of one important adverse event assessment. One of the most important adverse effects of ibuprofen, which is a non-selective non-steroid anti-inflammatory drug, is acute renal failure.² Although one of the exclusion criteria in this study is renal failure, especially in the elderly population, it is crucial to follow up kidney functions under non-steroid anti-inflammatory treatment.

Disclosure

The author has no conflicts of interest to disclose.

References

1. Kuptniratsaikul V, Dajpratham P, Taechaarpornkul W, et al. Efficacy and safety of Curcuma domestica extracts compared with ibuprofen in patients with knee osteoarthritis: a multicenter study. *Clin Interv Aging*. 2014;9:451–458.
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Author's reply

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Dear editor

We thank Professor Tufan very much for the valuable comment regarding the study entitled "Efficacy and safety of Curcuma domestica extracts compared to ibuprofen in patients with knee osteoarthritis: a multicenter study", published in *Clinical Interventions in Aging*.¹ His concern is about acute renal failure in aging patients receiving non-steroidal anti-inflammatory drugs, especially ibuprofen. We were also

concerned about this, therefore one of our exclusion criteria was abnormal renal function.¹ In addition, every patient had blood chemistry tests (complete blood count, liver function [serum glutamic oxaloacetic transaminase, serum glutamic pyruvic transaminase] and renal function [blood urea nitrogen, creatinine]) at week 0 and week 4 (at the end of the study). The results of the blood chemistry tests of both groups were compared before and after the study (presented in Table 3 in our original paper).¹ There were no differences between blood urea nitrogen and creatinine within each group. Additionally, no one developed acute renal failure during the study.

Disclosure

The author has no conflicts of interest to disclose.

Reference

1. Kuptniratsaikul V, Dajpratham P, Taechaarpornkul W, et al. Efficacy and safety of Curcuma domestica extracts compared with ibuprofen in patients with knee osteoarthritis: a multicenter study. *Clin Interv Aging*. 2014;9:451–458.

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