Correspondence

Risk of Cancer in Middle-aged Patients With Gout: A Nationwide Population-based Study in Korea

To the Editor:

A cohort study conducted by Lee, *et al* published in *The Journal of Rheumatology* revealed that the hazard of overall cancer was higher in patients aged 41–55 with gout than the control group in Korea (adjusted HR [aHR] 1.224, 95% CI 1.073–1.398).¹ Their findings are compatible with 1 study in Korea reporting that the hazard of overall cancer was higher in patients aged ≥ 20 years with gout than the control group (aHR 1.053, 95% CI 1.031–1.077, $P < 0.01$).² Here we address several points in the Lee, *et al*¹ study.

In Lee, *et al*'s study, the hazard of hematologic and lymphoid malignancy was more prominent among all site-specific cancers (adjusted HR 2.849, 95% CI 1.035–7.844).¹ It is well known that the turnover rate of malignant hematologic and lymphoid cells is fast, causing much breakdown of these malignant cells. Therefore, hyperuricemia might develop and a gout attack might occur.^{3,4} We reported that hyperuricemia may be an early feature of undiagnosed leukemia in adults aged 20–84 years.⁵ Our study partially supports the association between gout and hematologic and lymphoid malignancies found in Lee, *et al*'s study.¹ Before diagnosis, the early characteristics of hematologic and lymphoid malignancies may be vague or nonspecific. We suggest that when a new gout attack develops in adults, the serum uric acid and the complete blood count with differential should be examined⁵; this will enable early detection of hematologic and lymphoid malignancies. We agree with Lee, *et al*'s¹ discussion that the current evidence is insufficient to conclude the association between gout and the increased risk of site-specific cancer. More studies are needed to explore this issue.

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The authors declare no conflicts of interest relevant to this article.

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