Dr. Yoshida, et al reply

To the Editor:

We thank Dr. Kawada¹ for his interest in our studies. Since the landmark RRR study,² the field of biological disease-modifying antirheumatic drug (bDMARD) discontinuation study has expanded tremendously³,⁴,⁵,⁶. However, as Dr. Kawada pointed out, the design of studies varies widely⁶, making comparison of studies difficult. One important point that has to be considered in interpreting bDMARD discontinuation studies is that these studies are not necessarily examining purely biological disease processes, but rather examining the interplay of disease processes and patterns of clinical practice. Because of the rapidly changing nature of rheumatology practice in recent years, particularly in Japan, the results from our studies⁷,⁸ should be considered snapshots of a moving target.

In the study that examined the incidence of bDMARD discontinuation attempts (importantly, this study did not examine treatment success after discontinuation)⁷, methotrexate (MTX) had reverse trends in the United States and Japan. That is, in the United States, physicians were more likely to attempt bDMARD discontinuation in patients who were receiving MTX, whereas the opposite was found in Japan, albeit nonsignificantly. This is likely because of the more severe underlying disease process in MTX users in Japan before the treatment guideline update that recommended more liberal use of MTX; therefore, it should not discourage physicians from discontinuing bDMARD in patients using concurrent MTX with successful treatment status.

Regarding antitumor necrosis factor (anti-TNF) bDMARD versus non-TNF bDMARD, little evidence exists on whether they differ in discontinuation practice and in persistent disease control after discontinuation, because most studies focused on the former or solely on the latter. Our studies⁷,⁸ attempted to shed light on this by using a clinical registry including both types of users. However, the results were inconclusive in this regard because of the small sample sizes of the non-TNF bDMARD subsets. Therefore, continuing research efforts are necessary to further optimize rheumatology care.

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