Treatment of Relapsing Polychondritis with Tocilizumab

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To the Editor:

We read with interest the letter from Wallace and Stone describing a patient with relapsing polychondritis (RP) refractory to corticosteroids, cyclophosphamide, and tumor necrosis factor (TNF) blockers. The patient’s biological inflammation and clinical symptoms of chondritis responded well after each tocilizumab (TCZ) infusion. We describe a somewhat different experience of TCZ efficacy in a patient with RP.

A 46-year-old woman was diagnosed with RP in 2000 with recurrent episodes of chondritis and mainly synovitis and tenosynovitis. After failure of prednisone, dapsone, several disease-modifying antirheumatic drugs, infliximab, and etanercept, she was successfully treated with anakinra (100 mg/day) beginning in 2007. Because of clinical remission, she stopped anakinra injections in December 2010. She experienced relapse of symptoms in April 2012 [auricular chondritis, synovitis, and fatigue, with C-reactive protein (CRP) 5.4 mg/dl].

Because she did not want to return to daily injections, monthly infusions of TCZ (8 mg/kg) were initiated. A clinical improvement was observed during the first week after the first infusion, but did not last, and no effect was seen after the second, despite normalization of CRP. After 2 months, treatment was switched to anakinra, with a fair response after 2 weeks. Our patient did not develop a similar response profile to the one described by Wallace and Stone, the 2 cases of Kawai, et al., and that of Narshi and Allard, all with positive results, mainly occurring soon after the first infusion. In the cases of Wallace and Stone and Kawai, elevated serum interleukin 6 (IL-6) levels were present, and this may account for a good clinical response to subsequent IL-6 blockade. IL-6 serum levels were not assessed in our case, but CRP was elevated. The therapeutic effect of TCZ in RP may be variable from one patient to another. This variability seems to exist for other biologic agents in this condition: a recent literature review analyzed 62 published cases treated with biologics for RP (43 with TNF blockers). Efficacy was reported in 27 patients, partial efficacy in 5, and absence of efficacy in 29.

In RP, patients treated with biologic agents do not develop a uniform response, and individualization of predictive factors for good response to biologic agents would be helpful. For tocilizumab, elevated serum levels of IL-6 may be predictive factors for biological and clinical response.

REFERENCES