Psoriatic Arthritis: Radiographic Joint Repair Following Etanercept Therapy

IGNACIO GARCIA-VALLADARES, RAQUEL CUCHACOVICH and LUIS R. ESPINOZA

J Rheumatol 2012;39;185
http://www.jrheum.org/content/39/1/185

1. Sign up for TOCs and other alerts
   http://www.jrheum.org/alerts

2. Information on Subscriptions
   http://jrheum.com/faq

3. Information on permissions/orders of reprints
   http://jrheum.com/reprints_permissions

*The Journal of Rheumatology* is a monthly international serial edited by Earl D. Silverman featuring research articles on clinical subjects from scientists working in rheumatology and related fields.
Psoriatic Arthritis: Radiographic Joint Repair Following Etanercept Therapy

To the Editor:

We read with great interest Eder and colleagues’ article1 on repair of radiographic joint damage following treatment with etanercept in patients with psoriatic arthritis (PsA). The authors conclusively demonstrated that after more than 2 years of treatment with etanercept, their PsA patient with severe radiographic damage had significant improvement. This finding was clearly documented and confirmed by the use of 3 different methods of radiographic assessment.

Our experience was similar in patients with PsA refractory to conventional therapy, but with significant clinical response to etanercept therapy2. In contrast to the Canadian experience, we began using etanercept shortly after it was approved by the US Food and Drug Administration for treatment of rheumatoid arthritis (RA) in the late 1990s3. In our report published in 20003, 12 patients with PsA (9 had symmetric polyarthritis and 3 were asymmetric) that had failed other disease-modifying antirheumatic drugs alone or in combination (methotrexate, cyclosporine, azathioprine, and prednisone) were given etanercept 25 mg twice a week. Average duration of followup was 10 months. Ten patients exhibited complete resolution of skin (including nails) and joint involvement, with normalization of erythrocyte sedimentation rate (ESR) and C-reactive protein (CRP)3.

Radiographic assessment of the hands and feet was performed in several patients on a yearly basis with the assistance of a musculoskeletal radiologist. After more than 2 to 3 years’ duration of etanercept therapy, we began to observe stabilization of radiographic progression, and eventually definite repair of bone erosive changes in some patients. In contrast to the experience of Eder, et al, however, there were no changes in joint space narrowing. Also similar to Eder, et al, no changes in bony proliferation were noted. As reported by others, radiographic improvement has been demonstrated in patients with initial high serum levels of ESR and CRP1,2,4.

We also stated that the radiologic improvement observed in patients with PsA was very similar to that described in RA, and concluded that the use of biologic agents in PsA was highly efficacious and decreased progression of radiographic damage2,5,6. Subsequent studies, including the report by Eder, et al, provide further confirmation1,7. Radiographic findings provide strong support that anti-tumor necrosis factor (anti-TNF) therapy can be followed by repair of joint damage. Further studies are needed to elucidate the pathophysiology of the underlying mechanisms, and also whether anti-TNF therapy affects axial involvement seen in this patient population.

IGNACIO GARCIA-VALLADARES, MD; RAQUEL CUCHACOVICH, MD; LUIS R. ESPINOZA, MD, Section of Rheumatology, Department of Internal Medicine, Louisiana State University Health Sciences Center, 2020 Gravier St., 7th Floor, Box E-20, New Orleans, LA 70112-2822, USA. Address correspondence to Dr. L.R. Espinoza; E-mail: lespin1@lsuhsc.edu

REFERENCES