

**Do rheumatologists think about sex?****¿Piensan los reumatólogos en el sexo?**

Dear Editor:

We read in interest Espinoza and García-Valladares's article entitled 'Of Bugs and Joints'.<sup>1</sup> We agree that the epidemiology of reactive arthritis (ReA) is difficult to determine, especially in the absence of any internationally validated diagnostic criteria or guidelines. Whilst the clinical features of a ReA secondary to a sexually transmitted infection (STI) are indistinguishable from those caused by an enteric organism, the management could potentially be different. As was discussed, there is evidence that chlamydia induced ReA may benefit from a prolonged course of combination antibiotics.<sup>1–3</sup>

We wondered how good clinicians were at identifying the responsible organism? Is sexually acquired ReA (SARA), an under-recognised diagnosis, perhaps due to a reluctance from the rheumatologist to discuss and investigate such matters?

We conducted an audit to establish whether patients with suspected ReA were screened for STIs. The first clinic letter of all new referrals <30 years of age to both the general rheumatology and the early arthritis clinics in the preceding 6 months was reviewed. Out of 244 referrals, 42 patients were considered to potentially have ReA and of these only 24% (10/42) were screened for an STI (all negative).

It is not reassuring that no STIs were detected because over three quarters of patients were not tested. STIs are common in the young sexually active population, with chlamydia affecting 5–10% of those under 24 years, and in females especially it can be completely asymptomatic.<sup>4</sup> If a patient denies any 'promiscuous activities' or appears to be in a stable relationship should they still be screened?

We suggest if a diagnosis of ReA is being considered all patients should be tested, regardless of the social circumstances that they chose to disclose in their rheumatology consultation. The initial screening for an STI need involve only a first pass urine sample in males and in females a self-taken vulvo-vaginal swab sent for nucleic acid amplification testing (NAAT).<sup>4</sup> This is no more onerous than routinely testing the same people for rheumatoid factor, anti-CCP and HLA B27.

Our findings were presented both locally and at the 2012 Rheumatology conference in Glasgow, reiterating the importance of STI screening.<sup>5</sup> A re-audit 1 year later found that STI screening had increased to 50% (13/26) and two chlamydia infections were identified. This increase indicates that with clear guidance, clinicians are more likely to carry out an STI screen, and supports the need for a national ReA guidance.

As the authors described so well, the relationship between 'bugs and joints' is clear, however, the underlying STI may not be obvious. SARA may well be an under-recognised diagnosis due to the absence of testing, not the absence of infection. Clinicians must view STI screening as 'routine', if only those who are perceived to be high risk for infection are tested, then infection will be missed.

**References**

1. Espinoza L, García-Valladares I. Review article of bugs and joints: the relationship between infection and joints. *Reumatol Clin.* In press 2012 [Epub ahead of print]. doi: <http://www.elsevier.es/sites/default/files/elsevier/eop/dx.doi.org/10.1016/j.reuma.2012.06.008>.
2. Hannu T. Reactive arthritis. *Best Pract Res Clin Rheumatol.* 2011;25:347–57.
3. Lauhio A, Leirisalo-Repo M, Lahdevirta J, Saikku P, Repo H. Double-blind, placebo-controlled study of three-month treatment with lymecycline in reactive arthritis, with special reference to *Chlamydia arthritis*. *Arthritis Rheum.* 1991;34:6–14.
4. British Association of Sexual Health and HIV (BASHH). 2006 UK national guideline for the management of genital tract infection with *Chlamydia trachomatis*. London (UK): British Association of Sexual Health and HIV (BASHH); 2006. Available at <http://www.bashh.org/documents/61/61.pdf> [last accessed 21.11.12].
5. Pease E, Pease C. Audit: are potential reactive arthritis patients screened for a sexual aetiology? *Rheumatology.* 2012. Available at: [http://rheumatology.oxfordjournals.org/content/51/suppl\\_3.toc#POSTERVIEWINGTUESDAY1MAY2012](http://rheumatology.oxfordjournals.org/content/51/suppl_3.toc#POSTERVIEWINGTUESDAY1MAY2012) [Abstract].

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**Cutaneous lupus erythematosus induced by the treatment with tumor necrosis factor antagonists\*****Lupus eritematoso cutáneo inducido por la terapia biológica con antagonistas del factor de necrosis tumoral**

Dear Editor,

We have carefully read the excellent review by Hernandez et al.,<sup>1</sup> with regard to skin lesions that occur during treatment with antagonist of tumor necrosis factor (anti-TNF), and we would like to make some additional comments with respect to cutaneous lupus erythematosus (LE) induced by such drugs.

As the authors report, the development of autoantibodies is a frequent event in patients receiving anti-TNF drugs,<sup>1</sup> with an estimated prevalence of ANA positivity ranging from 25% to 80% and anti-DNA ranging from 5% to 15%.<sup>2</sup> However, as they state, the appearance of LE is quite rare.<sup>1</sup> Postmarketing studies estimate the incidence of induced LE at 0.19%–0.22% for infliximab, 0.18% for etanercept and 0.10% for adalimumab.<sup>2</sup> The slightly higher frequency of LE induced with infliximab and etanercept may simply reflect more years of exposure of patients compared with adalimumab. In connection with more recently introduced anti-TNF agents, certolizumab and golimumab, a case of induced LE has been described with the first<sup>3</sup> and one subacute cutaneous LE exacerbation has been related to the second.<sup>4</sup> Considering the high prevalence of autoantibodies and the large number of patients treated, one would expect a higher frequency of induced LE. One probable explanation for this discrepancy is that the type of autoimmune response induced by

anti-TNF agents is mainly restricted to nonpathogenic IgM or IgA isotypes, and although the main reactivity is anti-DNA, it is rare to develop other LE related antibodies, such as anti-ENA or hypocomplementemia. In addition, the titles of anti-DNA IgM tend to fluctuate over time and disappear quickly after removal of the drug.<sup>5</sup>

Identified risk factors for the development of LE during anti-TNF treatment are advanced age and the presence of increased baseline anti-DNA, but not of ANA.<sup>6</sup> Another factor that could influence this is the underlying disease. Although the production of autoantibodies is similar among the different diseases treated with these agents, most cases have been described in RA patients, as evidenced by a review of Costa et al.,<sup>7</sup> who found that of 33 published cases of induced LE due to anti-TNF drugs, 76% of patients had RA. The frequency with which these cases appear in the literature contrasts to those described in RA clinical trials with long-term follow up, so it should be noted that these cases are generally based on retrospective observations that often lack serological data prior to starting anti-TNF therapy and there may be some overlap of RA and LE before treatment.<sup>5</sup>

LE cases induced by anti-TNF comply with 4 or more ACR classification criteria in 40%, 3 criteria in 21%, and 2 or less in 39%.<sup>2</sup> Up to 67% of cases have cutaneous manifestations,<sup>8</sup> corresponding generally to maculopapular, pruritic erythematous rash affecting photosensitive areas, as mentioned by the authors,<sup>1</sup> however, the spectrum is much broader. Both LE-specific lesions (cutaneous acute, subacute and discoid), and other nonspecific findings including urticarial lesions, scarring, alopecia and purpura may occur.<sup>8</sup> Within difficult to classify cutaneous LE lesions, there has also been published cases of LE tumidus and lupus pernio (LP) induced by anti-TNF. LE tumidus is characterized by the appearance of papules on exposed areas, erythematous plaques or nodules without other associated epidermal changes; one of the cases found in the literature occurred with infliximab and adalimumab<sup>9</sup> in another,<sup>10</sup> both in RA patients. Our group conducted a review of 5 cases of LP associated with anti-TNF,<sup>11</sup> a rare form of cutaneous LE characterized by papules or plaques with erythematous violaceous acral distribution that simulate ischemic injury. Four of these cases occurred in patients with RA and one in ankylosing spondylitis.

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