A 70 year old male patient was admitted to the outpatient clinic because of chronic fatigue, weight loss, generalised joint aching, arthritis of the ankles, and renal insufficiency. His medical history was unremarkable. At physical examination, increased central venous pressure, subfebrile temperature of 38.4°C, tender and swollen ankles, and painful flexion and extension were observed. Laboratory investigation showed an erythrocyte sedimentation rate of 70 mm/1st h, haemoglobin 5.1 mmol/l, leucocytes \(18.6 \times 10^9/l\), eosinophils \(670 \times 10^6/l\), serum creatinine 369 mmol/l, urea 18.0 mmol/l, and urine sediment with 20–50 erythrocytes, 0–5 leucocytes, and several casts of the urinary tract epithelial lining. Positive tests for antineutrophil cytoplasmic antibodies with a cytoplasmic pattern (c-ANCA) and antigenic specificity for proteinase 3 were found. A renal biopsy disclosed focal necrotising intra- and extracapillary glomerulonephritis, with crescents fitting a diagnosis of Wegener’s granulomatosis (fig 1). Because of rapid renal and pulmonary deterioration immune suppressive treatment and dialysis were started clinically. However, during the initial stage of this treatment, the patient suddenly experienced severe abdominal pain.

Emergent radiological examination by computed tomographic scan showed diffuse intra-abdominal bleeding of unknown origin. Laparotomy revealed a massive intra-abdominal loss of blood. Diffuse intraperitoneal bleeding was uncovered, especially in the greater omentum, which had to be excised. Gastrointestinal perforations were not seen. Histological examination of the resected omentum diagnosed focal necrotising vasculitis of the venules of the omentum (fig 2). After this the patient soon recovered, and treatment with corticosteroids and cyclophosphamide was continued for 18 months. From that time cyclophosphamide could be discontinued and the patient has been followed up to the present without exacerbations of Wegener’s granulomatosis.

DISCUSSION

To our knowledge this is the first case which describes severe, biopsy verified involvement of the omentum, complicated by massive intra-abdominal bleeding in a patient with Wegener’s granulomatosis. Severe gastrointestinal involvement in Wegener’s granulomatosis has been reported occasionally, although abdominal involvement may be detected in a significant number of patients at necropsy. The main complications include intestinal perforation, ulceration, ischaemia, and haemorrhage in both the small and large intestine. As in the case presented here, gastrointestinal disease occurred shortly after diagnosis and the start of immunosuppressive treatment in these previous reports. A relationship between this therapeutic strategy in active disease and the occurrence of intestinal necrosis and perforation of the intestinal tract, or involvement of the omentum in our case, however, seems to be unlikely. The long term improvement of the disease without further severe intestinal disease seen in our patient, who was treated with cyclophosphamide for over 18 months after occurrence of severe intra-abdominal bleeding, does not support such a relationship.

Another point to be made concerns the need for surgery. Our case clearly shows that intra-abdominal bleeding requiring immediate surgical intervention may complicate Wegener’s granulomatosis. Therefore diagnosing haemorrhage is important as other causes of acute abdominal pain—for example, splenic rupture or abscess, perforation of a hollow viscous or ruptured aortic aneurysm, may also need emergency laparotomy. As stated before, this may happen early in the course of the disease or even at onset of the disease, especially in patients with existing severe renal and pulmonary involvement. Although rare, severe necrotising vasculitis of the omentum should be considered in the differential diagnosis of acute abdominal pain in patients with rapidly preceding Wegener’s granulomatosis.


Infliximab in refractory spondyloarthropathies: a multicentre 38 week open study

E Collantes-Estévez, M C Muñoz-Villanueva, J D Cañete-Crespillo, R Sanmartí-Sala, J Gratacos-Masmijá, P Zarco-Montejo, J C Torre-Alonso, C González-Fernández

S
ome patients (20–30%) with spondyloarthropathies (SpA) have a persistent and disabling disease, for which a limited number of alternative therapeutic approaches exist. The successful results from randomised, double blind, placebo controlled trials in ankylosing spondylitis (AS) and SpA which have been published suggest that treatment with infliximab is highly effective. However, in most of these studies, criteria for the selection of patients are based on active disease, but not on refractory disease (failure of response to previous drugs, including non-steroidal anti-inflammatory drugs (NSAIDs) and disease modifying anti-rheumatic drugs). Therefore, we aimed at assessing the effectiveness and safety of infliximab in patients with active and refractory SpA.

PATIENTS AND METHODS

The study was an open label, multicentre, 38 week prospective study in 40 patients with active and refractory SpA: 34 patients had AS, 3 had arthritis with related inflammatory bowel disease, and 3 undifferentiated SpA. Infliximab (5 mg/kg) was given at weeks 0, 2, 6, 14, 22, and 30. Patients were included according to the criteria of the European Spondyloarthropathy Study Group and/or Amor’s criteria for SpA. At the time of inclusion, all patients had active and refractory disease, defined as no satisfactory response to full doses of at least three different NSAIDs and/or no response to sulfasalazine in a minimum daily dose of 2 g for at least three months or to methotrexate at a minimum dose of 15 mg/week for at least two months.

Clinical evaluations were carried out at all visits (before the infusion) and at week 38. We evaluated: the Bath Ankylosing Spondylitis Disease Activity Index (BASDAI), the Bath Ankylosing Spondylitis Functional Index (BASFI), patient global assessment of disease status, patient pain assessment, inflammation (represented by the mean of the two morning

---

**Table 1. Assessments** of patients (n = 40)

<table>
<thead>
<tr>
<th></th>
<th>Baseline</th>
<th>Week 14</th>
<th>Week 38†</th>
<th>Mean change % (0-38 weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BASDAI, 0-100 mm VAS</strong></td>
<td>71 (14)</td>
<td>34 (23%)</td>
<td>37 (23%)</td>
<td>48</td>
</tr>
<tr>
<td><strong>BASFI, 0-100 mm VAS</strong></td>
<td>69 (16)</td>
<td>41 (24%)</td>
<td>47 (27%)</td>
<td>32</td>
</tr>
<tr>
<td><strong>Patient global assessment, 0-100 mm VAS</strong></td>
<td>79 (13)</td>
<td>44 (26%)</td>
<td>46 (29%)</td>
<td>42</td>
</tr>
<tr>
<td><strong>Patient pain assessment, 0-100 mm VAS</strong></td>
<td>86 (11)</td>
<td>46 (29%)</td>
<td>50 (32%)</td>
<td>42</td>
</tr>
<tr>
<td><strong>Inflammation, 0-100 mm VAS</strong></td>
<td>77 (22)</td>
<td>32 (26%)</td>
<td>36 (27%)</td>
<td>53</td>
</tr>
<tr>
<td><strong>SF-36: PCS and MCS</strong></td>
<td>24 and 45</td>
<td>48 and 63</td>
<td>100 and 40</td>
<td></td>
</tr>
<tr>
<td><strong>ESR, mm/1 h</strong></td>
<td>35 (26)</td>
<td>14 (17%)</td>
<td>22 (23%)</td>
<td>37</td>
</tr>
<tr>
<td><strong>CRP, mg/l</strong></td>
<td>30.4 (31.9)</td>
<td>10.6 (18.1)</td>
<td>14.4 (16.6)</td>
<td>53</td>
</tr>
<tr>
<td><strong>Metrological variables:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chest expansion, cm</td>
<td>2.5 (1.2)</td>
<td></td>
<td>3.2 (1.3)</td>
<td>28</td>
</tr>
<tr>
<td>Modified Schober, cm</td>
<td>3.7 (2.8)</td>
<td></td>
<td>4.5 (3.5)</td>
<td>22</td>
</tr>
<tr>
<td>Occiput to wall, cm</td>
<td>5.5 (6.5)</td>
<td></td>
<td>4.6 (5.9)</td>
<td>16</td>
</tr>
<tr>
<td>Fingers to floor distance, cm</td>
<td>27.9 (14.0)</td>
<td></td>
<td>24.5 (12.2)</td>
<td>12</td>
</tr>
</tbody>
</table>

VAS, visual analogue scale; BASDAI, Bath Ankylosing Spondylitis Disease Activity Index; BASFI, Bath Ankylosing Spondylitis Functional Index; ESR, erythrocyte sedimentation rate; CRP, C reactive protein; SF-36, Short Form-36 items; PCS, physical component score; MCS, mental component score.

*Values are means (SD). †To include the three patients who withdrew, the last observation carried forward method was applied. Inflammation is represented by the mean of the two morning stiffness related BASDAI VAS scores (intensity and duration). Significance of the change from baselines was measured by analysis of variance of repeated measures, and the post hoc multiple comparison tests were performed for Bonferroni’s test. Statistical significance of metrological variables and SF-36 domains was determined by paired samples Student’s t test with Bonferroni’s correction; Significant differences versus baseline, p < 0.05.
ACKNOWLEDGEMENTS

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REFERENCES


High incidence of hepatotoxicity of isoniazid treatment for tuberculosis chemoprophylaxis in patients with rheumatoid arthritis treated with methotrexate or sulfasalazine and antitumour necrosis factor inhibitors

J Vanhoof, S Landewe, E Van Wijngaerden, P Geusens

Tumour necrosis factor (TNF) inhibition is a major breakthrough in the treatment of rheumatoid arthritis (RA). Infliximab, etanercept, and adalimumab are available TNF inhibitors that have been used and investigated extensively in RA.1,2 Reactivation of latent tuberculosis (TB) during anti-TNF treatment has been reported and therefore recommendations are made to screen patients for latent TB before starting TNF blocking agents.3

However, treatment with isoniazid (INH) can result in severe adverse effects. The two most important untoward effects of INH treatment are hepatitis and peripheral neuropathy. Peripheral neuritis associated with INH treatment can be reduced by the prophylactic administration of vitamin B6 (pyridoxine) 250 mg/week. INH associated hepatotoxicity can be severe and life threatening, with a death rate of 10%.4 Age seems to be the most important factor in determining the risk of important liver injury. Also a contributory role of alcohol consumption has been noted. The characteristic pathological process is bridging and multilobular necrosis. The severity of damage tends to increase if the drug is continued after symptoms of hepatic dysfunction have appeared. A reactive metabolite of acetylhydrazine, a metabolite of INH, may be responsible for liver injury, and patients who are rapid acetylators would be prone to such injury.

During the past year, the Biomedical Research Institute participated in several double blind randomised clinical trials to evaluate the effect and safety of treatment with TNF inhibitors in RA with methotrexate or sulfasalazine as the concomitant disease modifying drug (DMARD) treatment in 88 patients (table 1). Of these patients, 11 had a positive purified protein derivative (PPD) skin test (skin induration more than 5 mm) and two other patients had chest x-ray abnormalities, possibly suggesting latent TB. In eight patients prophylactic treatment with INH 300 mg/day (+ pyridoxine 250 mg/week) was started. The other five patients were not given INH as the trial was ended for various reasons, shortly after performing the PPD skin test and chest x-ray; one patient refused INH treatment. In four of eight patients treated with INH (and pyridoxine) at standard doses mild to severe hepatic dysfunction was noted. In three of these four patients discontinuation of INH resulted in a normalisation of the transaminase activity. The incidence of liver dysfunction in our patients considerably exceeds the reported incidence of hepatotoxicity of INH treatment.5 6 Interference with DMARD treatment, such as methotrexate and sulfasalazine, is probably the major reason for hepatotoxicity. In one patient excessive alcohol consumption might have had a contributory role, but it has to be noted that in this patient liver dysfunction was not seen before starting INH treatment. These results already justify a higher awareness of this adverse effect during treatment with tuberculosis chemoprophylaxis in patients with RA treated with sulfasalazine or methotrexate with or without anti-TNF treatment.6

The American Thoracic Society recommends that serum concentrations of aspartate aminotransferase and alanine aminotransferase are determined at baseline in patients over 35 years of age who are receiving INH for chemoprophylaxis, with monthly determinations thereafter. What to recommend if INH has to be stopped remains unclear; a rifampin plus pyrazinamide combination cannot be recommended because its hepatotoxicity rate is even higher than for INH.

| Table 1 Characteristics of the total patient group and of patients developing liver dysfunction |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| **Trial drug** | **Enrolled patients (n)** | **Positive PPD skin test** | **Signs of latent TB on chest x ray** | **Patients treated with INH (n)** | **Patients with liver dysfunction (n)** | **Age (years) and sex of patients with liver dysfunction** | **AST (ULN 45), ALT (ULN 46) (IU/l)** | **Weeks of exposure to INH before liver dysfunction (n)** | **Weeks before recovery after discontinuation of INH (n)** |
| MIX + infliximab (or placebo) | 54 | 8 | 1 | 5 | 2 | 48 - male, 50, 82 | 14 | 8 (dose reduction MTX) |
| MIX + etanercept (or placebo) | 4 | 0 | 0 | 0 | 0 | 53 - male, 304, 120 | 7 | 4 |
| SSZ + etanercept (or placebo) | 22 | 3 | 0 | 0 | 2 | 71 - female, 188, 330 | 16 | 4 |
| MIX + adalimumab (or placebo) | 8 | 0 | 1 | 0 | 0 | 55 - male, 103, 197 | 8 | 11 |
| Total | 88 | 11 | 2 | 8 | 4 | - | - | - |

PPD, purified protein derivative; TB, tuberculosis; INH, isoniazid; AST, aspartate aminotransferase; ALT, alanine aminotransferase; MTX, methotrexate; SSZ, sulfasalazine; ULN, upper limit of normal.
Insurance problems among patients with ankylosing spondylitis

A Boonen, A van Tubergen, Sj van der Linden

In a retrospective questionnaire survey, 129 Dutch patients with ankylosing spondylitis (AS) were asked if they had had difficulties in arranging a medical insurance, an additional work disability insurance, or a life insurance. Patients who had arranged the insurance after diagnosis were compared with those who had arranged the insurance before diagnosis. A restraint in arranging the insurance was defined as (a) a higher premium; (b) exclusion for AS related problems. Ninety four (73%) patients were male, with a mean (SD) age of 49 (10) years, mean (SD) disease duration of 12 (10) years, and mean (SD) educational level of 13 (4) years. One hundred and three (80%) were married, age and sex adjusted employment was 57% and age and sex adjusted work disability was 33%. Table 1 compares the number of patients who had arranged the insurance before or after diagnosis, and within each group the proportion of patients for whom restrictions in the contract were imposed.

Despite the small number of patients in this survey, it is clear that in the Netherlands, at least for medical insurance and life assurance, a substantial number of patients with AS encounter problems. This is especially relevant because AS is increasingly diagnosed at younger age. Because there is evidence that health resource use and work disability are especially increased in patients with more severe disease and because it has been shown that mortality is only increased in patients with longstanding or complicated disease, the course of disease severity should be taken into account when performing insurance risk assessments. It should be discussed how these considerations might be implemented in practice.

Table 1 Comparison of restraints imposed in the insurance contract to 129 patients with ankylosing spondylitis who arranged the insurance before, as opposed to after, diagnosis of disease

<table>
<thead>
<tr>
<th></th>
<th>Contract before diagnosis</th>
<th>Contract after diagnosis</th>
<th>p Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No (%)</td>
<td>No (%)</td>
<td></td>
</tr>
<tr>
<td>Medical insurance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients</td>
<td>114</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Restraints</td>
<td>0 (0)</td>
<td>15 (13)</td>
<td>0.005</td>
</tr>
<tr>
<td>Work disability insurance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients</td>
<td>19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restraints</td>
<td>0 (0)</td>
<td>19 (13)</td>
<td>0.47</td>
</tr>
<tr>
<td>Life assurance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Restraints</td>
<td>1 (3)</td>
<td>7 (28)</td>
<td>0.02</td>
</tr>
</tbody>
</table>

References


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Accepted 29 June 2003
Anti-tumour necrosis factor $\alpha$ treatment in chronic recurrent inflammation of the anterior segment of the eye in patients resistant to standard immunomodulatory treatment

Y El-Shabrawi, H Mangge, J Hermann

Recurrent or chronic anterior uveitis leads to a drop of vision below 20/50 in 23% of patients; 11% will eventually be legally blind. Thus the treatment of these patients still presents a challenge, and additional treatments are needed. In a previous study we found that anti-tumour necrosis factor $\alpha$ (anti-TNF-$\alpha$) treatment was highly efficient in a patient with an acute HLA-B27 associated uveitis. Thus we tested the efficacy of anti-TNF-$\alpha$ treatment, consisting of a combined immunosuppressant treatment (for example, MTX plus mycophenolate-mofetil) or because of the massive destructive activity of the disease (for example, necrotising sclerouveitis) a quick acting active anti-inflammatory substance (for example, infliximab) was needed. Because a quick response towards infliximab was present for a mean (SD) period of 8.6 months before infliximab treatment. It consisted of methotrexate (MTX) in seven patients, of whom two received a combination of MTX and mycophenolate-mofetil. One patient received cyclophosphamide, and one leflunomide. Because the response was inadequate towards even combined immunosuppressant treatment (for example, MTX plus mycophenolate-mofetil) or because of the massive destructive activity of the disease (for example, necrotising sclerouveitis) a quick acting active anti-inflammatory substance was needed. Because a quick response towards infliximab had been seen in a previous study, it was chosen again.

RESULTS

Recurrent or chronic uveitis despite immunomodulatory treatment was present for a mean (SD) period of 8.6 months before infliximab treatment. It consisted of methotrexate (MTX) in seven patients, of whom two received a combination of MTX and mycophenolate-mofetil. One patient received cyclophosphamide, and one leflunomide. Because the response was inadequate towards even combined immunosuppressant treatment (for example, MTX plus mycophenolate-mofetil) or because of the massive destructive activity of the disease (for example, necrotising sclerouveitis) a quick acting active anti-inflammatory substance was needed. Because a quick response towards infliximab had been seen in a previous study, it was chosen again.

Table 1  Clinical data and follow up in the patients treated. The visual acuity of the inflamed eye (right eye (od), left eye (os) or both eyes had the same VA ou are listed)

<table>
<thead>
<tr>
<th>Infusions at week</th>
<th>Re-treatment at week</th>
<th>Treatment at baseline</th>
<th>Treatment after infliximab</th>
<th>Diagnosis</th>
<th>VA at baseline</th>
<th>VA after treatment</th>
<th>Follow up (weeks)</th>
<th>Duration of flare (days)</th>
<th>Flare up (month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>None</td>
<td>32.5 mg/day prednisone+20 mg MTX</td>
<td>15 mg MTX</td>
<td>HLA-B27</td>
<td>20/100</td>
<td>20/30</td>
<td>70</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>0/2/6</td>
<td>26/26/32</td>
<td>12.5 mg MTX</td>
<td>12.5 mg MTX</td>
<td>HLA-B27</td>
<td>20/40</td>
<td>15/20</td>
<td>82</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>0/2/6</td>
<td>None</td>
<td>17.5 mg/day prednisone+15 mg MTX</td>
<td>12.5 mg MTX</td>
<td>HLA-B27</td>
<td>20/25</td>
<td>15/20</td>
<td>78</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>0/2/6</td>
<td>None</td>
<td>20 mg MTX+2 g CellCept+steroid drops</td>
<td>20 mg MTX+2 g CellCept</td>
<td>HLA-B27</td>
<td>20/125</td>
<td>20/60</td>
<td>8</td>
<td>42</td>
<td>–</td>
</tr>
<tr>
<td>0/2/6</td>
<td>None</td>
<td>17.5 mg MTX</td>
<td>15 mg MTX</td>
<td>HLA-B27</td>
<td>20/20</td>
<td>20/20</td>
<td>48</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>0/2/6</td>
<td>18/22/26</td>
<td>10 mg MTX+2 g CellCept+steroid drops</td>
<td>12.5 mg MTX</td>
<td>RA</td>
<td>20/25 ou</td>
<td>20/25 ou</td>
<td>36</td>
<td>35</td>
<td>1</td>
</tr>
<tr>
<td>0/2/6</td>
<td>10/14/18/22/26</td>
<td>10 mg MTX+2 g CellCept+steroid drops</td>
<td>10 mg MTX+2 g CellCept</td>
<td>RA</td>
<td>20/20</td>
<td>20/20</td>
<td>30</td>
<td>42</td>
<td>4</td>
</tr>
<tr>
<td>0/2/6</td>
<td>20/28</td>
<td>Cyclophosphamide+prednisone 25 mg/day +10 mg/day prednisone</td>
<td>Prednisone 12.5 mg/day +10 mg/day prednisone</td>
<td>Scleritis</td>
<td>20/200 od, CF os</td>
<td>20/200 od, CF os</td>
<td>30</td>
<td>90</td>
<td>–</td>
</tr>
<tr>
<td>0/2/6</td>
<td>10</td>
<td>Last infliximab+prednisone 20 mg/day +10 mg/day prednisone</td>
<td>Prednisone+15 mg MTX</td>
<td>TINU</td>
<td>20/200 od, CF os</td>
<td>20/200 od, CF os</td>
<td>22</td>
<td>–</td>
<td>*</td>
</tr>
</tbody>
</table>

*In the patient with TINU syndrome no remission was achieved.

REFERENCES
5 Carbone LD, Cooper C, Michel CJ, Atkinson EJ, O’Fallon WM, Melton LJ. Anti-tumour necrosis factor alpha (anti-TNF alpha) treatment in chronic recurrent uveitis associated with Wegener’s granulomatosis. One patient with uveitis with an associated tubulointerstitial nephritis (TINU) was also included. Disease modifying antirheumatic drug (DMARD) treatment was started at least three months before infliximab treatment. It consisted of methotrexate (MTX) in seven patients, of whom two received a combination of MTX and mycophenolate-mofetil. One patient received cyclophosphamide, and one leflunomide. Because the response was inadequate towards even combined immunosuppressant treatment (for example, MTX plus mycophenolate-mofetil) or because of the massive destructive activity of the disease (for example, necrotising sclerouveitis) a quick acting active anti-inflammatory substance was needed. Because a quick response towards infliximab had been seen in a previous study, it was chosen again.
6 Boonen A. Anti-tumour necrosis factor treatments are needed. In a previous study we found that anti-tumour necrosis factor $\alpha$ (anti-TNF-$\alpha$) treatment was highly efficient in a patient with an acute HLA-B27 associated uveitis. Thus we tested the efficacy of anti-TNF-$\alpha$ treatment, consisting of a combined immunosuppressant treatment (for example, MTX plus mycophenolate-mofetil) or because of the massive destructive activity of the disease (for example, necrotising sclerouveitis) a quick acting active anti-inflammatory substance was needed. Because a quick response towards infliximab had been seen in a previous study, it was chosen again.

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(4.1) months before infliximab treatment. Infliximab was given at a dose of 3 mg/kg body weight at weeks 0, 2, and 6 in all but one patient who received only one infusion owing to a reaction after her first infusion. After anti-TNFα treatment the mean (SD) duration of the uveitis was 12.6 (11.7) days in HLA-B27 positive patients with uveitis and 38.5 (3.5) days in patients with JIA. In the patient with Wegener’s granulomatosis the time to remission was three months. The infliximab treatment had no effect in the patient with TINU. Patients with HLA-B27 associated uveitis remained in remission for an average of 5.9 (0.5) months. This 5.5 months’ duration of response was similarly achieved after re-treatment of these patients. In the patients with JIA the anti-inflammatory effect of TNFα blockage was much more moderate and only transient. In the patients with oligoarthritis the remission of uveitis after three infliximab infusions lasted for five weeks only and as seen in the patient with Still’s disease the uveitis became active again despite increasing the dose of infliximab after about 30 weeks. Thus it seems, as seen in the patient with Still’s disease, that the effect of TNFα treatment is reduced to some extent over the long term.

**DISCUSSION**

HLA-B27 associated uveitis as well as the sclero-uveitis in the patient with Wegener’s granulomatosis responded well to infliximab treatment. In all these patients a sustained anti-inflammatory effect was achieved. This is in accordance with the previously described positive effect of anti-TNFα treatment on the systemic manifestations of the spondyloarthropathies and Wegener’s granulomatosis. However, in both patients with chronic uveitis in association with JIA, the anti-inflammatory effect of infliximab on the eyes was not sustained. The overall moderate response towards TNFα blockade that we found in our patients with JIA is comparable with the results of a previous report. We are aware that only isolated cases are presented, but together the results of our study suggest that anti-TNFα treatment is not equally applicable to all forms of anterior uveitis but that ocular inflammations associated with the spondyloarthropathies, especially, are highly responsive to anti-TNFα treatment. Prospective, “blinded” studies will be required to examine these differences further.

**References**


**Syncope in a patient with relapsing polychondritis**

**W R Saliba, L H Goldstein, G S Habib, M Elias**

Relapsing polychondritis (RP) is a rare disease, characterised by recurrent episodes of inflammation of cartilaginous tissues and other proteoglycan rich structures. The cardiovascular system is affected in 24–52% according to different series, and typically is not the common manifestation. Aortic regurgitation is the most common manifestation (4–10%), followed by mitral regurgitation (2–8%), aortic aneurysm (2–7%), pericarditis (0–8%), and conduction disturbances (4–6%). Cardiovascular disease mostly affects male patients and is the second most common cause of death in RP. All types of atrioventricular conduction defects have been reported in RP. Godeau described transient complete heart block (CHB) during relapses that required temporary pacing, suggesting recurrent acute inflammation of the conduction system during relapses. Fibrosis of the conduction system was detected at necropsy in a patient with CHB.

**CASE REPORT**

Here we report a case of RP in which the relapse was preceded by true syncope, caused by suspected sinus node dysfunction (SND). To our knowledge, both relapse preceded by syncope and SND have not been previously reported in RP. A 43 year old woman with RP of six years’ duration presented to the emergency room with syncope followed by sudden onset of auricular chondritis and right knee arthritis. On arrival the patient was alert and complained of pain in the inflamed areas. Her blood pressure was 122/73 mm Hg, temperature was 37°C, pulse was regular 33 beats/min (her basal rate was 68 beats/min two months previously). Complete blood count, creatinine, urca, serum electrolytes,
liver and thyroid function tests were normal. An electrocardiogram showed a regular rhythm 34 beats/min with normal QRS and PR intervals. The rhythm was not affected by carotid sinus massage and an echocardiogram was normal. Her drugs were prednisone, azathioprine, and thyroxine (Eltroxin), and she did not take any drugs known to cause bradyarrhythmia.

Within hours almost all joints were affected, the large and small joints of the arms, hip, knee, ankle, foot, costochondral, sternomanubrial, sternoclavicular, and finally, sacroiliac joints. The auricular chondritis worsened and the right external auditory canal was rapidly affected with severe inflammation that led to almost total occlusion with a large serous discharge. She also developed hoarseness and wheezing as a manifestation of laryngotracheal involvement.

Prednisone and azathioprine doses were increased and analgesics were added, as needed, to relieve pain. Five days later the pulse rate gradually increased. Pulse rate at discharge was 65 beats/min.

DISCUSSION
The inadequate acceleration in sinus rate in response to severe pain in our patient may indicate SND. Sinoatrial block might also be the cause of this bradycardia and invasive intracardiac recordings are required to differentiate it from sinus bradycardia.

The tachybradia syndrome is also a possibility, although the patient did not complain of palpitations. Vagal response that can cause sinus bradycardia and syncope is less likely in this case because the pain was preceded by syncope, and the heart rate did not recover with pain relief.

The sinus node, similarly to the atrioventricular conduction system, may be affected in RP by acute inflammation that eventually may lead to fibrosis. In conclusion, we have described a patient with RP who had a rapid progressive course. Syncope may be the first manifestation of an RP flare, thus doctors should be aware of this symptom in these patients. Finally, SND in RP warrants further investigation.

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