Local Injections in Polymyalgia Rheumatica

To the Editor:

We read with interest the article by Salvarani and colleagues. The authors postulate that shoulder corticosteroid injections seem to be an effective and safe therapy for polymyalgia rheumatica (PMR). They expound that the shoulder bursitis, joint synovitis, and tenosynovitis seen in PMR respond very well to corticosteroid therapy. They also claim that the bicipital tenon, subacromial and subdeltoid bursae, and glenohumeral joint, which are especially affected by the inflammatory process, are communicating synovial structures, so that a single injection into the glenohumeral joint would be adequate. Moreover, at the very end of the article, it is stressed that the articular and extraarticular synovial structures of the hip are not in communication, in contradistinction to the shoulder, and thus multiple site injections could be required for hip infiltrative corticosteroid therapy.

However, it has already been established that the bursae lie between the rotator cuff (mainly supraspinatus muscle) and the overlying acromion; they do not communicate with the joint. If there is a communication, it implies a complete rupture of the rotator cuff (mainly supraspinatus). Full thickness tears of supraspinatus tendon are found in 7-27% of patients at autopsy. The number of these tears increases with age and PMR can be considered as a disease of the elderly. The incidence of full thickness tears is about 20-30%. Magnetic resonance imaging evaluation of older asymptomatic patients (60 years of age and above) showed an incidence of 28% full thickness tears. Consequently, the probability of an injection into the joint reaching the subacromial bursa is only one in three patients. Furthermore, in the study by Salvarani, et al of the patients with MRI reportedly did not show any full thickness tears; however, the injection into the joint still led to the correction of the subacromial bursitis. This brings up the question whether the response is due to the systemic effects of the corticosteroid injection or not. We think that the answer to this question lies in a study that compares the effects of systemic corticosteroid administration, local corticosteroid injection, and multiple site injection, including the subacromial space.

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REFERENCES

Dr. Salvarani, et al reply
To the Editor:

We are grateful to Akgun and Aydingoz for their interesting comment on our paper. As they underline, there is an increased incidence in polymyalgia rheumatica (PMR) of rotator cuff tears with aging. In autopsy series rotator cuff defects were observed in 30% of subjects who were in their 50s and 60s, and in 90% to 100% of those who were over the age of 70.

As most of our patients with PMR were in their 70s, a communication between glenohumeral joint cavity and subacromial and subdeltoid bursae was possible. However, as mentioned in our report, we cannot exclude that part of the efficacy of the therapy could be related to the systemic absorption of corticosteroids.

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REFERENCES


To the Editor:

In a recent issue of The Journal, Nasher, et al stressed the value of visual hallucinations (VH) as a harbinger of permanent visual loss (PVL) in patients with giant cell arteritis (GCA). These authors found that intermittent VH preceded PVL in 4 out of 5 patients with that severe manifestation. If their finding is confirmed, the report of VH by a patient with suspected GCA will have important implications for ophthalmologic investigation and treatment urgency. We describe our experience based on a large series of patients with GCA, which might clarify the relationship between VH and PVL.

Between 1977 and 2001, we diagnosed 203 patients as having temporal arteritis, including 165 biopsy proven cases. Specifically, patients were asked if they had noticed transient eye manifestations such as pain, visual loss, blurred vision, diplopia, and VH, including dazzling flash, glittering, colored pastille illusions or more complex hallucinations. Date of onset and
duration and recurrence of eye symptoms were also prospectively recorded, using a comprehensive questionnaire. Visual events occurred in 54 patients (27% of cases), including transient symptoms in 39 and PVL in 26 (anterior ischemic optic neuropathy in 23, central retinal artery occlusion in one, and retrobulbar ischemic optic neuropathy in 2). Only 4 patients improved their vision upon starting glucocorticoid treatment, while 4 became definitively and bilaterally blind. Most of these cases have been published. The figures show the relative frequency of VH and other transient visual symptoms, according to whether the patients developed PVL or not. The most frequently reported type of transient visual symptom was amaurosis fugax (19 cases), followed by VH (14 cases). Transient visual symptoms heralded PVL in 11 patients (42% of cases). The delay to PVL from the first episode of visual symptom ranged from less than one day to 18 days (average 6 days). All 3 patients with VH preceding PVL also recalled at the same time concurrent amaurosis fugax or diplopia. As shown in Table 1 the risk of PVL was significantly associated with a history of transient visual symptoms, amaurosis fugax, more than one type of symptom in the same patient, and symptom recurrence, but not with blurred vision, diplopia, or VH (p = 0.39).

Our results confirm the relatively high frequency of VH in patients with GCA, but do not support the value of VH alone as a harbinger of impending PVL. We showed recently, using logistic regression analysis, that the only risk factor for the development of PVL was an elevated blood platelet count, although a history of transient visual ischemic symptoms had marginal significance. However, a stronger association might have been overshadowed. For example, nonrelapsing, fleeting, or bizarre symptoms may have been underreported or unrecognized by patients, especially those with already impaired vision or memory problems. Moreover, the risk of developing PVL after VH may be underestimated in our series, since many such patients recalled additional amaurosis fugax, blurred vision, or transient diplopia and therefore received prophylactic pulse glucocorticoids. Nevertheless, before the relationship between VH and PVL in patients with GCA is fully elucidated, a thorough ophthalmologic examination, including

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<th>Table 1. Value of transient visual ischemic symptoms in predicting permanent loss in 203 patients with temporal arthritis.</th>
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<td>Permanent Visual Loss, n = 26</td>
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<td>Transient visual ischemic symptoms</td>
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<td>Amaurosis fugax</td>
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<td>More than one type of symptom</td>
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<td>Recurrence of symptoms*</td>
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* Identical or new symptom. * Data were missing for 1 patient with PVL and 3 patients with transient visual symptoms alone. # Fisher's exact test. NS not significant (p > 0.1).

VH, should be part of the clinical assessment of patients with suspected GCA.

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REFERENCES

2. Liozon E, Herrmann FR, Jaubertel MO, et al. Facteurs prédictifs de complications cérébriques ischémiques irréversibles au cours de

Figure 1. Relative frequency of various transient visual manifestations in 28 patients who did not develop permanent visual loss.

Figure 2. Relative frequency of various transient visual manifestations in 11 patients who developed permanent visual loss.

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Isolated Tuberculosis Monoarthritis Mimicking Juvenile Rheumatoid Arthritis

To the Editor:

We read with interest the cases of childhood onset tuberculous arthritis presented by Al-Matar, et al, and would like to report another case that highlights the resurgence of this disease, not only in North America but also in the United Kingdom, Europe, and other areas. This case highlights also the potential for mimicry of more than one type of juvenile idiopathic arthritis (JIA) (formerly juvenile rheumatoid arthritis).

Case history. A 13-year-old UK born Asian girl was referred to our tertiary level pediatric rheumatology unit in July 1998 with a provisional diagnosis from the referring unit of probable JIA, unresponsive to treatment. The relevant history started 6 months previously in January 1998, when she developed persistent pain, swelling, and a decreased range of motion (ROM) of her right elbow joint. Shortly thereafter she developed an abscess in the right buttock that required surgical drainage and she was treated with flucloxacillin at the referring hospital. Over the following 3 months she also progressed to develop pain and swelling of the right shoulder (anterior glenohumeral and acromioclavicular region), discomfort in both knees, and increasing deformity of the right elbow. She was treated with nonsteroidal antiinflammatory drugs with little improvement. In addition to this she developed further series of deep seated abscesses in the left buttock, left thigh, left breast, and a 5 x 5 cm abscess on the scalp. Although she was treated with broad spectrum antibiotics and surgical drainage, healing was slow.

During the 6 months prior to her referral she had a low grade pyrexia and occasional mouth ulcers. Initial investigations at her local pediatric unit showed hemoglobin 9.1 g/dl, white blood cells (WBC) 8.2 x 10^9/l, and erythrocyte sedimentation rate (ESR) 131 mm/hr. The previous medical history was unremarkable; there was no history of contact with tuberculosis on admission to our hospital (although language difficulties made ascertaining difficult), and she had received Bacillus Calmette-Guerin (BCG) at birth.

On general examination at our unit, she was found to have low grade pyrexia with maximum temperature of 38.5°C, but no lymphadenopathy, rash, oral ulcers, or alopecia. Skin examination revealed a 2 x 2 cm ulcerated area on the right buttock, with healing scars on the thigh, breast, and scalp at the site of previous abscesses. She also had a 3 x 3 cm subcutaneous swelling over the posterolateral aspect of the right thorax (Figure 1). General examination was otherwise unremarkable. On musculoskeletal review she had a markedly swollen and warm right elbow with ROM of only 80°-100° of flexion, indicating a marked fixed flexion deformity. The right acromioclavicular joint was warm and swollen, with painful but full movement of the adjacent glenohumeral joint. The right wrist joint was swollen, with reduced extension, and both knees had small effusions. All other joints including the spine were normal on initial examination.

Figure 1. Posterior view of the trunk one week after presentation showing a soft tissue swelling over the posterolateral ribs on the right and a mid-thoracic swelling as well, representing 2 cold abscesses.
The initial working diagnosis in our unit was "partially treated" infectious (septic) arthritis, with multiple associated abscesses. In view of the unusual nature of presentation, other underlying diagnoses were considered, including a primary immune deficiency presenting at an older age, or an evolving autoimmune disease with or without coexistent chronic inflammatory joint disease.

Investigations revealed normocytic normochromic anemia with a hemoglobin of 9.6 g/dl, WBC 8.0 x 10^9/l, platelets 211 x 10^9/l, elevated acute phase response with both ESR and C-reactive protein significantly elevated to 100 mm/h and 100 µg/l, respectively. Radiographs of the involved joints showed periarticular osteoporosis, reduced joint space, and deformity of subchondral bone (Figure 2). Electrolytes, blood sugar, and renal function were normal and blood cultures were negative. She was negative for rheumatoid factor, antinuclear antibody, extractable nuclear antigen, and dsDNA. Complement levels were normal, as were a lymphocyte subset panel, nitroblue tetrazolium test, and neutrophil adhesion test.

Arthrocentesis revealed frank pus from the right elbow and the right acromioclavicular joint. She thus underwent formal arthroscopy, synovial biopsy, and washout of the 2 involved joints.

A Mantoux test with 1:1000 PPD (purified protein derivative) on day 2 was, however, strongly positive at 23 mm, and antitubercular treatment was started the following day. A chest radiograph was normal. The synovial biopsy revealed multiple tubercular granulomas (Figure 3) and a punch biopsy from the ulcer on the right buttock showed multiple giant cells with epithelioid granuloma. Polymerase chain reaction (PCR) from the pus aspirated from right elbow was positive for Mycobacterium tuberculosis, and culture from the elbow and the shoulder was subsequently positive.

The final diagnosis was thus multifocal osteoarticular tuberculosis. It was at this stage the family revealed that the maternal grandmother had had pulmonary tuberculosis in the last year, and indeed that she had been in close contact with our patient! As she had previously received BCG vacci-

Figure 2. Plain radiograph of the right elbow joint revealing marked abnormalities of the bony contours and density. There is significant soft tissue swelling overlying and enlargement of all bony components of the elbow with some periosteal reaction.

Figure 3. Photomicrograph of synovial tissue from the right acromioclavicular joint at presentation. The histology reveals a typical tubercular granuloma.

nation and had a borderline positive Mantoux test locally she had not been offered prophylaxis as, had the rest of the family.

The patient was started on 4 drug antitubercular therapy, with a combination of isoniazid, rifampicin, pyrazinamide, and ethambutol. In the first 2 months following her treatment she continued to develop new lesions in the form of cold abscesses, including a paraphal ganglion in the thoraco-lumbar area. She did not have any neurological signs and as magnetic resonance imaging did not reveal cord compression, this was treated conservatively (Figure 4). On followup visits over the next 18 months she showed steady improvement in her general health, resolution of abscesses, and joint disease. When last seen, at 30 months after diagnosis, she was finished all medication and was symptom-free, except for a modest loss of extension of the right elbow joint. She had a normal spine with full ROM, and repeat imaging of the spine was normal.

The co-occurrence of soft tissue involvement and joint disease in this case certainly should be an alert to a possible cause other than the presumption of an idiopathic inflammatory arthritis.

Retrospectively, it is evident that our patient had an atypical age of onset and pattern of joint involvement for JIA. The significant systemic features and the marked inflammatory response, however, might have been suggestive of a systemic onset form of JIA. The lack of a typical rash, lymphadenopathy, or hepatosplenomegaly and the atypical fever pattern would argue against this diagnosis.

Since 1985 there has been an increase in the incidence of osteoarticular tuberculosis reported in Europe and the USA. Bone and joint tuberculosis account for 2–10% of cases of extrapulmonary manifestations of this disease. The infrequent occurrence of this form of tuberculosis and the lack of pathognomonic signs pose a diagnostic challenge to physicians, often resulting in delayed recognition and treatment. Rheumatological or musculoskeletal manifestations of tuberculosis are many, and range from infection (Pott’s disease, septic or infectious arthritis, subcutaneous abscesses) and immunological reactions (Poncet’s disease, i.e., reactive arthritis, erythema nodosum) to drug induced syndromes such as isoniazid induced systemic lupus erythematosus. The overall osteoarticular pattern of involvement here suggested to us a mixture of both primary osteoarticular TB and the reactive phenomenon called Poncet’s disease (the wrist and knee involvement in particular). The soft tissue abscess may have acted as the
Figure 4. MRI of the midthoracic spine one week after presentation reveals a soft tissue abscess in the superficial planes (black arrow) with extension into the posterior aspect of the vertebral body (white arrow).

visceral component, which is usually associated with this reactive component.

The early occurrence and type of bony involvement, as evidenced on plain radiographs, could be considered unusual for JIA and more typical of an infective or other process. Radiological findings are usually nonspecific and include soft tissue swelling, osteopenia, periarticular bony destruction, and periosteal thickening. Generally these changes are much more rapid than one would see in JIA. Cystic tuberculosis and tuberculous dactylitis are being increasingly recognized in childhood, and should be distinguished from pyogenic infections. This timing is in contrast to the suggestion by Al-Matar, et al that such changes are usually late in tuberculous disease. The distribution of joint involvement in our case is also atypical of TB in that it involved predominantly non-weight-bearing joints.

The mean time to diagnosis of patients with osteoarticular TB is reported to be one year and thus both our case and the reported case could be considered to have been diagnosed relatively early. The arthritis in such patients is said to be monoarticular (or "mono-regional") in 90%, and most commonly affects the spine, followed by weight-bearing joints such as the hip or knee. A changing pattern of osteoarticular tuberculosis has been reported, and such cases can therefore mimic different forms of JIA, including polyarticular and systemic, as in our patient. Although our patient was unwell she was not "toxic" as might be expected with multifocal septic arthritis. In children the arthritis related to tuberculosis may present acutely, and it is the lack of response to broad spectrum antibiotics that prompts a search for tuberculosis. Our patient had simultaneous involvement of soft tissue areas, discrete from the bony involvement, which have been reported in up to 10% of cases. The absence of pulmonary disease in our case is consistent with its infrequent association with osteoarticular TB.

An elevated ESR, unusual patterns of joint involvement in childhood arthropitides, or resistance to initial therapy should prompt the attending physician to consider a Mantoux test to help exclude TB. The test was positive in our patient, as has been previously reported in the majority of children and adults with osteoarticular TB.

An elevated ESR and positive Mantoux, while helpful, are neither specific nor completely reliable. The definitive diagnosis of osteoarticular TB requires the identification of M. tuberculosis from the site. Optimally the patient should have a synovial biopsy, as histological examination reveals granulomas in 88% of cases, and the culture from tissue is positive in over 90%. Our patient had a positive biopsy and culture and was also smear positive, which has been noted in 25 to 33% of specimens.

PCR techniques are being used increasingly for diagnosis of a number of different conditions that previously relied on laborious culture methods, and in this case provided rapid confirmation of strongly suggestive pathology. As the incidence of multi-drug resistant TB increases, recovery of the specific organism is important, especially if the index case is not identified. Most patients respond well to drug therapy, and surgery is rarely required.

In conclusion, although this case differs from that of Al-Matar, et al in several respects, it highlights the increasing diagnostic challenge facing physicians dealing with joint problems in childhood; moreover, TB, one of the great "mimics," may appear initially to be one of several different forms of JIA. Vigilance and careful history taking and clinical examination should prompt early recognition, treatment, and an optimal outcome.

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REFERENCES


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Termination of Disease Modifying Antirheumatic Drugs in Psoriatic Arthritis

To the Editor:

The experience reported by Ufalfusky, et al on the use of intramuscular (im) gold, methotrexate (MTX), and sulfasalazone (SSZ) in psoriatic arthritis (PsA) is very interesting. The lack of difference between time on treatment, calculated by survival analysis, with im gold and MTX observed in this study, contrasts with the results obtained in our study and with other reports.

It is always difficult to explain differences across studies, even more so when treatment is not randomized and the outcome, treatment discontinuation, could be influenced by practice patterns differing across countries. Also, more information about the clinical characteristics of both treatment groups at baseline, about the treatment doses received, and about the results is needed to explore potential reasons for the differences.

I agree with the authors of the letter that non-random allocation of treatment and the fact that some patients having received MTX had failed either im gold or SSZ, are potential explanations for the difference in results observed. If the practice pattern during the study was to reserve MTX for more severe cases or cases refractory to other treatments, this could explain why their results with MTX were less favorable than ours. The authors present information at baseline on age, sex, and disease duration, showing a longer disease duration in the MTX group, but no information regarding disease activity or disease severity. If differences exist at baseline, it would be important to control for them in a multivariate regression analysis, such as a Cox regression analysis, to prevent a confounding effect. To assess whether having used MTX after failure with im gold or SSZ in some of the patients may explain a poorer performance with MTX treatment, one could include order of therapy as a covariate in the Cox regression analysis. Both these analyses were performed in our study and showed that baseline characteristics, other than previous DMARD use, and order of therapy were not significant in our sample. Also, not controlling for repeat observations within patients potentially could dampen a true treatment difference, as patients refractory to all treatments provide multiple observations. The Cox regression method we used allowed the data to be stratified according to first or second treatment course.

It appears that the main difference in the survival results between the 2 studies stems from a shorter survival observed by Ufalfusky, et al for the group receiving MTX (median survival with MTX was 12 months vs more than 5 years in our study (median survival cannot be calculated in our study since less than 50% discontinued treatment, but at 5 years, 54% remained on treatment); whereas median survival with gold was 12 and 14 months, respectively). Information on the reason for discontinuation may help understand why this difference was observed. Were there more discontinuations for side-effects? If so, it would be interesting to look for differences in practice patterns when dealing with side effects. Or were there more discontinuations for lack of effect? In which case the doses of MTX used in both studies need to be compared. It has been our clinical impression that patients with PsA tend to require higher doses than patients with rheumatoid arthritis.

Finally, the last question to be raised is whether there was a sufficient number of patients taking MTX followed for 2 or more years to have the necessary power to show a difference between the 2 survival curves. Without confidence intervals or number of subjects at risk at different times, it is difficult to assess the certainty of the estimates of survival at 2 years and beyond. The only indication provided is the size of the downward steps on the survival curve, which suggest that the estimates from 2 years onwards are based on relatively small numbers. In our study, although the survival curves appeared different even within the first year, the 95% confidence interval overlapped. The difference between the 2 survival curves became statistically significant only after 1.5 years.

We agree with the conclusion of the authors, that both MTX and im gold are effective treatments, that gold is a good alternative where MTX fails or is contraindicated, and that SSZ, which was not assessed in our study, is another effective treatment, as shown in other controlled studies.

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REFERENCES

Myocarditis Associated with Polymyositis Diagnosed by Gadolinium-DTPA Enhanced Magnetic Resonance Imaging

To the Editor:

Cardiac manifestations of polymyositis include congestive heart failure, pericarditis, pulmonary hypertension, mitral valve prolapse, and dissecting aneurysm, and a variety of arrhythmias have been reported. We describe a case of polymyositis manifesting myocardial insult due to myocarditis, suggested by gadolinium diethylenetriaminepentaacetic acid enhanced magnetic resonance imaging (Gd-DTPA MRI) and histologically diagnosed by endomyocardial biopsy.

In November 1998, a 58-year-old man was admitted to hospital due to worsening dyspnea because of congestive heart failure. Symmetric proximal muscle wasting and weakness were found in both upper and lower limbs. Right cardiac catheterization showed moderate pulmonary hypertension. Laboratory examination showed a marked elevation of serum muscle enzymes: 1000–1200 IU/l creatine phosphokinase (CPK)(normal < 150 IU/l), 12.3 IU/l aldolase (normal 1.7–5.7 IU/l), and 770 ng/ml myoglobin (normal < 60 ng/ml). His condition improved almost one week after drug treatment, and he was discharged.

In January 1999, he was referred to our university hospital for further examination and treatment. On admission, blood pressure was 132/70 mmHg and his body temperature was 36.8°C. A chest radiograph showed mild cardiomegaly (cardiothoracic ratio 51.9%). The electrocardiogram showed sinus rhythm (heart rate 77 beats/min), negative T waves in leads I, aVL and V4 through V6, and ST depression in leads V4 through V6. Laboratory studies showed 1827 IU/l CPK (muscle origin, MM band, normal 36–216 IU/l), 5.0 IU/l aldolase (normal 0.5–3.1), 988 ng/ml myoglobin (normal < 73 ng/ml), 0.18 ng/ml troponin T (normal < 0.25 ng/ml), and 14 ng/ml myosin light chain (normal < 2.5 ng/ml). He was in NYHA class II. Gd-DTPA MRI performed 4 days after admission revealed transmural contrast enhancement in the anterior, lateral, and posterior wall in the left ventricle (Figure 1A, 1B).

Electromyography revealed a characteristic myopathic pattern. Left deltoid muscle biopsy specimens showed hyaline degeneration, or severely degenerated single muscle fibers mixed with normal muscle fibers (Figure 1C). An echocardiogram showed left ventricular dilatation and diffuse hypokinesia wall motion of the left ventricle. There was no valvular disease. Cardiac catheterization was hemodynamically normal. Biplane left ventriculograms revealed generalized hypokinesis in the wall motion. The ejection fraction was 34%. Selective coronary angiograms showed normal

Figure 1. A, B: MRI reveal transmural contrast enhancement in the anterior, lateral, and posterior wall in the left ventricle. C. Left deltoid muscle specimen shows hyaline degeneration or severely degenerated single muscle fibers mixed with normal muscle fibers. D. Left ventricular endomyocardial biopsy specimen shows interstitial fibrosis, edema, cellular cluster, and hypertrophy.
epicardial coronary vasospasm. The left ventricular endomyocardial biopsy specimens showed interstitial fibrosis, edema, cellular cluster, and hyper trophy (Figure 1D).

According to the criteria of Bohan and Peter, the diagnosis was “probable polymyositis” and the case was diagnosed positive based on the criteria of the Japanese Ministry of Health and Welfare.

We diagnosed this patient had cardiac involvement due to polymyositis. Prednisone 60 mg/day was started. On February 15, 1999, because plasma CPK level was still high (688 IU/L), methotrexate 5 mg/week started from the next day. On February 20, 1999, he committed suicide.

Cardiac involvement is one of the most significant clinical factors associated with a poor prognosis for polymyositis. The incidence of cardiac disease in polymyositis was formerly thought to be low, but careful cardiac evaluation has shown it to be much higher. The incidence has been reported as from 37% to 49% in large series.

Haupt, et al reported that pathological evidence of cardiac involvement in patients with polymyositis included active myocarditis, focal fibrosis, vasculitis, intimal proliferation, and medial sclerosis of vessels. On the other hand, Denbow, et al demonstrated that some patients have histological findings of active myocarditis and others show replacement fibrosis and small vessel disease in the myocardium. In the present case, the pathological findings included interstitial fibrosis, edema, and degeneration of the compactile band. These findings suggested the presence of myocardial inflammatory damage.

Gd-DTPA MRI has been used to detect myocardial damage from active myocardial inflammation. A study using a rodent myocarditis model has shown that accumulation of Gd-DTPA is observable in myocarditis with ongoing replacement fibrosis, in both the active inflammation and the healing stage, but not in scar tissue. We have reported that Gd-DTPA is a helpful tool to detect sarcoid heart, eosinophilic myocarditis, ischemic myocardial injury, and subendocardial damage due to aortic valve stenosis.

Gd-DTPA MRI shows the extent and location of inflammation and fibrosis of the myocardium more clearly than myocardium more clearly than myocardial scintigraphy and echocardiography. We should therefore take the possibility of cardiac involvement into consideration when treating patients with polymyositis. Our case demonstrates that Gd-DTPA MRI may be a helpful and safe tool and is more specific for the evaluation of myocardial damage than conventional noninvasive techniques.

Gd-DTPA MRI may be a useful screening tool for the diagnosis of polymyositis associated with polymyositis, and can be helpful in providing an appropriate treatment.

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REFERENCES


Ultrasound Imaging — A Requirement for Rheumatologists
To the Editor:

In an editorial entitled “Ultrasound imaging: A rheumatologist’s dream” I speculated on the impact ultrasonography could have in rheumatologic training. While on the one hand my dream has recently come true, I have also learned that it was no dream at all but ignorance of what is going on in European rheumatology.

My dream was realized when I attended a workshop organized by Dr. Antonio Reginato from The Cooper Health System and the Division of Rheumatology, UMDNJ/Robert Wood Johnson Medical School at Camden, New Jersey, to honor the late Dr. Joseph L. Hollander. The workshop, “Cutting Edge Diagnostic Techniques and Invasive Rheumatology for the Millennium,” took place just before the 2000 American College of Rheumatology Meeting in October in Philadelphia. There were 2 eight-hour sessions devoted to arthroscopy, 2 eight-hour sessions on musculoskeletal ultrasound, plus an eight-hour session on synovial inflations, subcutaneous fat aspiration, skin biopsy, salivary gland biopsy, needle muscle biopsy, anterior iliac crest biopsy, and capillaroscopy. Although I did not attend the arthroscopy sessions those who did were delighted with the hands-on approach in realistic plastic models under the authoritative guidance of Drs. G.A. Reyes and Angel Checa from Havana, Cuba, and Robert W. Ike from Ann Arbor, Michigan. The ultrasound sessions, which I attended, allowed participants to perform a full upper and lower extremity joint ultrasound in healthy persons plus selected joints in patients with inflammatory joint disease. The superb instructors included Drs. Esperanza Naredo and Jacqueline Uson from Madrid, Spain, Antonio Bouffard from Detroit, Michigan, and Walter Grassi from Ancona, Italy. Please note that of the 4 ultrasound instructors one was an American radiologist while the 3 European instructors were rheumatologists with ample experience in musculoskeletal ultrasonography. This session obviously did not make us ultrasonographers, but was enticing enough to send us back trying to figure how to get hold of an ultrasound machine and start exploring the soft tissues. Lectures in the third session included Drs. Warren R. Heymann, Joseph V.

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Campelone, Gerald Falasca, and Antonio J. Reginato from Camden, New Jersey, and Drs. Mary-Carmen Amigo and myself from México City, México. Thanks to Dr. Reginato’s enterprise this session allowed attendants to practice synovial needle placement using realistic plastic models with an internal sensor that indicated accurate placement, and a hands-on true-cut muscle biopsy session in which attendants tried their hand on a Purdue turkey! Truly, I have never seen a workshop like this, in which the fuzzy fringes of our specialty were probed with vigor and knowhow.

That my ultrasonography dream was only ignorance I learned from our European instructors. At present, to qualify as a rheumatologist in Italy one has to provide evidence of having performed 200 ultrasonic examinations plus 200 capsilloscopic examinations. Ultrasound proficiency is also required in Austria, Germany, and Switzerland. Work is in progress to require ultrasonography proficiency in other European countries.

There is no question that emphasis on biology and experimental medicine, and more recently clinical epidemiology has built the greatness of rheumatology in the New World. However, to fulfill our duty as specialists in diseases of the musculoskeletal system (which comprise about 30% of our day to day practice) we must become proficient in musculoskeletal medicine. To this end, musculoskeletal ultrasonography provides an unmatched medium. Dr. Reginato’s far-seeing, successful workshop should be replicated and expanded by American (in the broad sense) academic rheumatology. The 3 workshop sessions on ultrasonography featured at the San Francisco ACR meeting with a German instructor, Prof. Wolfgang Schmidt, and the musculoskeletal ultrasound study group, represent steps in the right direction.

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REFERENCE

Canadian Consensus Conference on Hydroxychloroquine

To the Editor:

In the December 2000 issue the report of the Canadian Consensus Conference on hydroxychloroquine, chaired by Dr. John Esdaile, was published. One of the key recommendations was the need to develop up-to-date "patient friendly" information to meet the needs of consumers. In followup to this recommendation, a consumer led workshop was held recently that included representatives of the Canadian Rheumatology Association, Canadian Pharmacists Association, Canadian Ophthalmology Society, Canadian Paediatric Rheumatology Association, Motherisk Canada, Lupus Canada, Canadian Arthritis Patient Alliance, The Arthritis Society, and Health Canada.

In keeping with emerging Therapeutic Products Directorate guidelines, the patient information drafted by this group will be submitted to Health Canada for inclusion in the hydroxychloroquine product monograph that is currently being developed between Health Canada and the manufacturer.

This group process represented an effective prototype for the development of information that will meet the needs of patients and consumers.

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Corrections

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Corrections

Patberg WR, Rasker JJ. Beneficial effect of being outdoors in rheumatoid arthritis [letter]. J Rheumatol 2002;29:202-4. Labels identifying time periods were omitted from Figure 1, and are printed correctly here. We regret the error.

Lee YH, Kim YR, Ji ID, Sohn J, Song GG. p53 codon 72 polymorphism and rheumatoid arthritis. J Rheumatol 2001;11:2392-4. Acknowledgment of support for this article by a grant from the Korea Ministry of Health and Welfare was omitted. We regret the error.

Figure 1. Plot of 24 hour mean outdoor temperature, time outdoors per 24 hours, daily joint pain score, and ESR. Periods during which the daily time outdoors was about 3 hours are shaded. Broken lines (JS) indicate days on which joint surgery was carried out.