PostScript

MATTERS ARISING

Treatment of shoulder pain

Hay and colleagues concluded, in their extended report of a trial of physiotherapy and injection for unilateral shoulder pain that physiotherapy and local steroid injection are of similar effectiveness.1 They suggest that “The high overall success rates...argue against the need for further exploratory trials in this condition”. I disagree. A large number of studies of shoulder pain have been bedevilled by diagnostic criteria that are not precise,2 and this study must unfortunately join the others.

Unilateral shoulder pain has a number of different causes. The study by Hay excludes a few specific conditions—in particular, a ruptured rotator cuff, but must by definition include a heterogeneous group of problems that are in fact quite discrete. These include frozen shoulder (adhesive capsulitis), rotator cuff injuries without full rupture, subacromial joint arthritis (sometimes known as subacromial bursitis), bicipital tendinitis, acromioclavicular joint disease, and subdeltoïd bursitis. It is barely credible to imagine that several of these could be successfully treated by a steroid injection into the subacromial joint. In particular, the subacromial joint does not communicate with the glenohumeral joint unless the rotator cuff is ruptured, so frozen shoulder cannot be treated with a subacromial injection. Thus any study of shoulder pain must separate the different causes into different groups. Others have done this and shown that the relative benefits of physiotherapy and injection may be different.3

Furthermore, it must be clear that any clinicians contributing to a trial are working to the same diagnostic criteria. Even experienced consultant rheumatologists cannot agree on exact diagnoses, as I and colleagues have shown previously,4 and we concluded that patients for studies of the treatment of shoulder lesions requires careful to avoid selection of a heterogeneous group. Given the variability of rheumatology training and experience in general practice it seems unlikely that diagnostic precision will be sufficient in that setting.

Author’s reply

We agree with Bamji that, although a number of ways of classifying shoulder problems have been proposed, none have been shown to be valid or reliable. In our large primary care trial5 we adopted the “red flag” approach and are clear about its limitations in the paper. Although our trial was pragmatic, it examined a clearly stated question—“in patients presenting to general practitioners with a new episode of unilateral shoulder pain, and in whom specific “red flag” problems have been excluded, is a subacromial injection or a course of physiotherapy the best first choice?”. Essentially, we were comparing two treatments commonly used by general practitioners. We were not investigating the relative merits of different types of injection, or indeed which components of the physiotherapy package had specific benefits. These are different questions, important in their own right, but not the ones we chose to answer in this particular study.

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References

Do etanercept-naïve patients with rheumatoid arthritis respond better to infliximab than patients for whom etanercept has failed?

We read with interest the article by van Vollenhoven et al.1 In short, they report on 31 patients with rheumatoid arthritis (RA), 18 of whom used etanercept (ETA) first and then switched to infliximab (IFX)in most part because of inefficacy, and 13 patients who used IFX first and changed to ETA mostly owing to adverse events. They suggested using the other tumour necrosis factor (TNF) inhibitor when one of them fails. Although, in general, agreeing with their findings, we would like to present our experience which is somewhat different from theirs and to discuss the possible reasons for this.

We set up an IFX registry at the Hospital for Special Surgery in February 2000, with the start of IFX infusions. The registry collected prospective data on all the patients with RA who started treatment with IFX, and followed up them every 2 months until May 2001. All patients completed questionnaires about their RA history, treatment, and functional disability (modified Health Assessment Questionnaire (mHAQ)) at baseline and every 2 months thereafter. A 42 joint count for tender and swollen joints was performed at each visit. Patients were telephoned 3–5 days after infusions and asked about reactions while at home.

The availability of ETA before the approval of IFX and the fact that use of ETA did not require concomitant methotrexate has resulted in the treatment of more patients with RA than with ETA before trying IFX. However, after failure of ETA, several patients changed treatment to IFX. We compared response to treatment, adverse events, and discontinuation rates between patients for whom ETA had failed before IFX treatment (ETA-F) and patients who had not used ETA before—that is, etanercept-naïve (ETA-N).

Eighty eight patients were treated with IFX between February 2000 and May 2001 (77 women, mean (SD) age 61 (12.1) years, mean (SD) RA duration 13.4 (9.8) years, failed DMARDs 2). In 37 (42%) patients ETA had failed before IFX was introduced. There was no difference in age, disease duration, and number of failed DMARDs between ETA-F and ETA-N patients. Sixteen ETA-F and 10

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**References**

ETA-N patients were excluded from the analysis owing to an insufficient number of data points. mHAQ, pain scores, and morning stiffness were significantly greater in ETA-N patients, whereas no improvement was noted among the group of ETA-F patients, in the first year after they were receiving IFX. Six ETA-F and seven ETA-N patients discontinued treatment within 6 months. ETA-N subjects were similar. IFX treatment was discontinued in 15/42 (36%) MTX-R subjects and 12/46 (26%) MTX-NR subjects. After an average of 6.7 months' follow up 40/61 subjects experienced 96 adverse events (AEs) over a total of 648 infusions; 16/27 (59%) MTX-NR subjects had 46 AEs, compared with 24/34 (71%) MTX-R subjects who had 50 AEs (p = 0.51). Most of these AEs were minor and none resulted in IFX discontinuation. There was no difference in mHAQ, pain score, swollen and tender joint counts between the MTX-R and MTX-NR groups after 6 months of treatment.

Our clinical experience demonstrates a better clinical response to IFX among ETA-naive patients. Based on our data, we would suggest that if ETA fails there might not be a substantial benefit in trying IFX later on. Also, we did not note any difference in the rates of discontinuation or AEs, or response to treatment between MTX-R and MTX-NR patients beyond 6 months of IFX treatment.

We are limited by the number of our patients, just as van Vollenhoven et al were. We also do not have data for patients who switched from IFX to ETA because of the shortage of ETA at the time of our study. These results may reflect a population of refractory patients with RA who have more severe disease (patients for whom multiple DMARDs had failed) and are generally difficult to manage, or who are non-anti-TNF responders. Analysis of ETA-F patients who respond to IFX may show a subgroup of ETA-N patients.

For instance, the fact that 15 of 21 patients who were said to be “non-responders” continued treatment with infliximab suggests that some measure of improvement was none the less achieved. We have previously published data showing that a sharp distinction between “responders” and “non-responders” is an artefact and that responses in fact are normally distributed.

Yazici and Erkan also suggest that infliximab with or without concomitant methotrexate provides similar clinical results. In our own database only a few patients received infliximab without concomitant methotrexate so we cannot provide any data bearing directly on this issue. We do note, however, that the important radiological benefits of treatment with infliximab have only been documented in patients receiving background methotrexate. Thus, we continue to favour this combination when possible.

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References
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Seronegative antiphospholipid syndrome
1 agree with Hughes and Khamashta that the use of the term “seronegative antiphospholipid syndrome (APS)” is useful in clinical practice. However, the analogy with seronegative rheumatoid arthritis and antinuclear antibody (ANA) positivity is not correct. The current criteria for the classification of rheumatoid arthritis (RA) and systemic lupus erythematosus (SLE) allow the diagnosis of RA or SLE to be made even if the rheumatoid factor or the ANA is negative, and therefore, seronegative RA and SLE are embraced within the classification criteria and as such are not separate entities.14

Authors’ reply
We take Dr Jawad’s points and agree fully. We also believe that classification criteria are too often wrongly used in diagnosis. Our aim in writing the leader was to highlight what we believe to be a not uncommon diagnostic situation—the patient with many of the features of the syndrome in whom tests remain stubbornly negative.

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Ibandronate and prevention of postmenopausal osteoporosis
Stakkestad et al reported a clinical trial where intravenous (IV) ibandronate injections, given every 3 months during 1 year, produced a dose dependent gain in mean (SD) lumbar spine bone mineral density (BMD) compared with placebo in prevention of bone loss in postmenopausal women. The treatment was then proposed as an alternative to oral bisphosphonates and hormonal therapy in preventing postmenopausal osteoporosis. The primary outcome was the relative change from baseline in lumbar BMD after 2 years of treatment tested by analysis of

References
variance, with treatment group and stratum as independent variables. We found several limitations. Firstly, the initial study was planned for 2 years, but was stopped at 12 months because of the interesting results of the IV ibandronate pivotal phase III fracture study. It was possible to infer that results obtained from a trial on fracture occurrence would apply to the study of BMD. Secondly, given the limited changes in BMD, it could be suggested that they might be due to random variability in the procedure. The least significant change (LSC) in BMD is the percentage of change that is unlikely to be due to the precision error of the procedure. The LSC is 2.8-fold the precision error of the procedure on a specific device, site of measurement, and number of measurements. Precision error was not evaluated in the study. The sample size was calculated with an expectation of a significant change in lumbar spine BMD of 3% compared with placebo after 2 years of treatment. Would a 3% change be clinically relevant according to the variability of the measure? Thirdly, analysis of variance was used for a dose-response model. Multiple comparisons were performed without using post hoc tests, which would have adjusted the nominal threshold. The type I error would have been lower than 0.05. Keeping these limitations in mind, on a clinical group, IV ibandronate still needs to prove its efficacy on BMD gain.

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References
1 Stakkestad JA, Benevolenskaya LI, Stepan JJ, Skog A, Nordby A, Oelfeld E, et al. Intravenous ibandronate injections given every three months: a new option to prevent bone loss in postmenopausal women. Ann Rheum Dis 2003;62:669–74. IV ibandronate, in contrast with placebo, increased BMD by 1.9% after 2 years of treatment. In that study, a 2 mg dose of ibandronate produced significantly greater BMD increases and suppression of bone resorption markers than the 1 mg dose investigated in the fracture prevention study. The available results from our study were used to enable further evaluation of the dose-response relationship of intermittent IV ibandronate. As reported, although our study was terminated prematurely, sufficient results were collected for analysis of data for the first year of the study. These results support those seen previously: intermittent IV ibandronate produced a dose-dependent effect on BMD and biochemical markers of bone resorption, with the highest dose producing the greatest efficacy. Owing to the findings from our study, together with those from prior studies, a large non-inferiority trial is continuing to determine whether a lower dose (3 mg every 3 months) or a shorter dosing interval (2 mg every 2 months) of IV ibandronate provides equivalent therapeutic efficacy relative to an oral daily ibandronate regimen, which has proved antifracture efficacy (the Dosing Intravenous Administration study). In their second observation on our study, the authors imply that the observed changes in MBD might have been due to the random variability associated with the procedure. However, all the BMD measurements in our study were centrally assessed by Synarc (Ballerup, Denmark), where they were also quality assured. Synarc is a well respected company that employs radiologists who are leading experts in clinical trial radiology. Thus, any variability in the assessment of spinal BMD in our study would have been kept to a minimum and the precision error (PE) associated with the measurements would be unlikely to have exceeded 1%. Hence, as defined by several authors, including Gluer et al, the percentage of BMD change that is unlikely to be due to the variability (PE) of these measurements (the least significant change) is expected to be about 2.8% (1% multiplied by 2.8). As a result, the sample size calculations used in our study, which were based on an expectation of a significant change in lumbar spine BMD of 3% by 2 years of treatment, were justified. Because the 3% change exceeds the 2.8% variability of the measurement procedure, it is considered clinically relevant.

In their third comment, the authors correctly state that analysis of variance was used to investigate the efficacy of the three ibandronate regimens. They go on to advise that because multiple comparisons were performed, adjustments should have been made to ensure the maintenance of the overall type I error. However, as only three tests were performed for the primary end point (the relative effect of treatment on lumbar spine BMD), all of which were highly significant, it was not deemed necessary to apply adjustments. Additional analyses were conducted to determine the influence of baseline spinal BMD and/or time since menopause on the primary end point. In retrospect, as a number of comparisons were performed when conducting these secondary analyses, we agree with Maravic and Landais that relevant adjustments would be optimal. Thus, we have retrospectively applied a Bonferroni correction, a well recognised test to adjust for multiple comparisons. Despite the highly conservative nature of such statistical adjustments when the number of repeated tests is >5, only two results changed (table 1).

Therefore, reassuringly, the findings observed after applying the Bonferroni correction were similar to those reported in our publication.

In summary, although our randomised, double blind, placebo controlled study was prematurely discontinued, sufficient 1 year data from almost 600 patients were available to allow an adequate assessment of the efficacy of IV ibandronate injections in postmenopausal women without osteoporosis. We found that ibandronate dose dependently prevents postmenopausal bone loss, even when considering the variability associated with measuring BMD, and even when adjusting for multiple, repeated statistical assessments. Of note, the highest dose of ibandronate produced gains in BMD that were comparable to those observed with other therapeutic agents in this setting.

Table 1 Summary of the effect of ibandronate on mean lumbar spine BMD, relative to baseline, after 12 months of treatment (%)

<table>
<thead>
<tr>
<th>Stratum</th>
<th>Time since menopause (years)</th>
<th>Placebo</th>
<th>0.5 mg</th>
<th>1.0 mg</th>
<th>2.0 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>T score</td>
<td>Treatment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt;1</td>
<td></td>
<td>-0.0</td>
<td>1.1</td>
<td>1.1</td>
<td>1.8†</td>
</tr>
<tr>
<td>&lt;1, &gt;-2.5</td>
<td></td>
<td>-0.7</td>
<td>0.4</td>
<td>1.9*</td>
<td>2.8*</td>
</tr>
<tr>
<td>&lt;1</td>
<td></td>
<td>-0.4</td>
<td>1.4†</td>
<td>1.9*</td>
<td>1.9*</td>
</tr>
<tr>
<td>&lt;1, &gt;-2.5</td>
<td></td>
<td>-0.2</td>
<td>1.4†</td>
<td>2.2*</td>
<td>2.9*</td>
</tr>
</tbody>
</table>

*Differences between active group and placebo was significant (p<0.05), even when a Bonferroni correction was applied; †According to an ANOVA test, the difference between active group and placebo was significant (p<0.05). Significance was not achieved when a Bonferroni correction was applied.
Thus, as stated in the conclusion of our publication, intermittent IV ibandronate injections offer the promise of an effective and convenient alternative to current treatments for the prevention of postmenopausal bone loss.

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References

Atherosclerosis in primary antiphospholipid syndrome

We read with great interest the article by Medina et al about atherosclerosis in primary antiphospholipid syndrome (APS). They showed that the intima-media thickness (IMT) of carotid arteries from patients with primary APS was greater than that of age and sex matched controls.

We wish to comment on their methodology and findings. For the ultrasound technique Medina et al did not define the area where the measurement of IMT was taken, nor did they specify whether the anterior or posterior carotid wall was measured. The anterior or near wall is prone to reverberation artefact, making placement of the callipers difficult.

IMT should be measured at a site away from atherosomatic plaques. The figures provided by Medina et al show that colour and power Doppler were used to define the lumen of the vessel, but there is no mention of how these were standardised. The gain, pulse repetition frequency and prioritisation of colour versus grey scale, use of contrast agents, angle of insonation, and the velocity of blood flow (stysyle or diastole) will all affect the position of the border of the colour echo in the image and hence affect the readings taken. Their fig 2B shows that the colour echo does not conform to the “white line” of the intimal-luminal interface. Furthermore, the placement of the measurement callipers in figs 2B and 3B is not correct. Here most workers advise that the image be magnified to facilitate accurate calliper placement. Also, the effect of laminar or plug flow patterns may influence readings. With their technique even IMT readings in their controls are far higher than those reported in the world literature (reviewed by Aminbakhsh and Mancini).

We would have liked to see the antiphospholipid antibody (aPL) titre of the patients and how they ranked if entered in their regression model in table 3. A previous study identified IgG antcardiolipin antibody (aCL) as an independent predictor of carotid IMT, suggesting a possible dose effect of IgG aCL on IMT. Therefore aPL titres at the lower end of the medium range (20–80 GPL) may be less atherogenic than those at the higher end of the same range.

To confuse matters further, most of their patients with primary APS had other significant conventional risk factors for atherosclerosis, whether in isolation or combination. The prevalence of hypertension, hyperlipidaemia, and obesity was 36%, 54%, and 25%, respectively, in their cohort with several patients having more than one risk factor.

We question the author’s conclusion of atherosclerosis in primary APS. As it stands, their scanning technique overestimates IMT readings, and other conventional cardiovascular risk factors are overrepresented in their cohort, potentially masking the atherogenic potential of aPL.

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References

Authors’ reply
We thank Dr Ames et al for their interest in our study and for their comments about our methodology and findings of atherosclerosis in primary antiphospholipid syndrome (APS).

We agree about the difficulties of anterior carotid wall measurements. Therefore our intima-media thickness (IMT) measurements were performed on the posterior wall, as is shown in fig 2B. Our patients did not have atherosomatic plaques, consequently this artefact did not alter the IMT measurement. The colour and power Doppler ultrasound were standardised in our hospital according to the method of Cantú-Brito et al. Briefly, the sensitivity and specificity of the method were 91.3 and 92.7%, respectively. A composite measure than the maximal common carotid artery IMT and maximal internal carotid artery IMT was obtained by averaging these two measurements after standardisation with subtraction of the mean and division by the standard deviation for the measurement.

Colour Doppler cannot define the “white line”, but this technique does define the intimal-luminal interface. The position of the callipers in fig 2B is correct for IMT measurement, but in fig 3B the callipers are showing the indentations in the lumen vessel.

The carotid artery IMT in our controls was 1.2 (0.44) mm. This value is higher than that reported in other studies but, however, only 7/28 controls had an IMT > 1 mm. The mean IMT in these seven controls was 1.65 mm (range 1.1–2). The explanation of these results is that the controls also had other cardiovascular risk factors and they were hospital workers. In other studies performed in Mexico, IMT was detected in more than 60% of people from the general population.

In our regression model we did not include the titres of antcardiolipin antibodies, because we did not determine them simultaneously with the carotid artery IMT study. We have only historical data of antiphospholipid antibodies. We are currently analysing the association of antiphospholipid antibodies and other new risk factors with carotid artery IMT.

In relation to conventional risk factors for atherosclerosis, we agree that these are confusing variables, but the logistic regression analysis controlled for these factors. Certainly, it is very difficult to have patients and controls who do not have traditional risk factors for atherosclerosis.

In view of all the above mentioned information, we think that our patients with primary APS had a significantly greater IMT of the carotid arteries than the controls.

The results are not overestimated because all ultrasound scanning was performed under similar conditions in both groups, by a single experienced radiologist who was unaware of the clinical information, and using the same sonography equipment.

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Inflammatory rheumatic disorders

I was interested to read the paper by Guillemín et al, where the authors used a detailed questionnaire for a telephone survey of patients to assess rheumatic problems.1 We have used a similar but somewhat more extensive questionnaire, which was initially designed for doctors such as general practitioners to complete and return through my cyberclinic project.2

In this study we evaluated the feasibility of a rheumatology consultation and advisory service using internet and email. We devised and posted a detailed rheumatology pro forma on our website (www.cyberrheum.org; accessed 26 February 2004) for general practitioners to complete and return on the internet. Two trainee doctors interviewed and completed the pro forma for 207 new patients. Based on this information from the questionnaire alone we were then able to provide provisional diagnoses and management plans, which we compared with those drawn up after a face to face assessment of the same patients in the outpatient clinic. Diagnostic concurrence was noted in the majority of patients (86%), no changes in further investigations, such as radiographs and blood tests, in a sizeable proportion of patients (62%) were necessary, and the majority of patients (74%) required no changes in the treatment plans suggested.

Our results show that it is quite feasible to offer an internet based outpatient consultation and advisory service in rheumatology and possibly other disciplines. Perhaps it is more practical in rheumatology because most of the diagnostic clues lie in a detailed history taken from the patients (as in the patient questionnaire we devised), only then aided by clinical examination and laboratory tests.

To our knowledge this was the first and only website based service available to general practitioners. This, when established, can enable centres to streamline referral processes and provide early diagnosis and management plans for patients, even before their first appointment, which then functions as a review appointment (as all the results and details of the patients are available at the time of referring). As a result we can cut the consultation time in the clinic, to half the usual time required, a consequence of which is that we can see more new patients and perhaps also see more review patients.

We noted that general practitioners were finding it difficult to complete the pro forma on the website with the patients. Therefore, subsequently we devised a patient completed questionnaire, available on the same website, so that patients could complete this pro forma at the GP surgery with the help of an assistant such as a nurse. This facilitates referral and reduces demand on general practitioners’ time. We have been able to devise a separate questionnaire,2 again posted on our website, to facilitate referrals relating to osteoporosis services, and reduce our response time to management plans.

We are therefore not surprised that the authors found such a patient questionnaire helpful in their surveys. Compared with telephone consultation in this manner, an internet based questionnaire format would appear to be more convenient and less time consuming. Patients can take their own time in a relaxed manner to do the same. Furthermore, two people are not tied down at the same time—that is, patients can complete and return the questionnaire when convenient, and the researchers or the clinicians can assess such questionnaires at leisure or when convenient. Furthermore, more patients have access to telephone than internet and email, and many do not yet know how to use the latter. Hence, in recent years we have provided “hands-on” training and instructions with a number of “road shows” for our patients to keep abreast with new information technology and to increase “equity” and access for our patients in these days of “modernisation” in the health services.

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Authors’ reply

We appreciate Dr Pal’s presentation of a rheumatology consultation and advisory service posted on a website for use by general practitioners, further completed with patient’s targeted online questionnaire to facilitate rapid internet based service available to manage and reduce demand on general practitioners’ time.

Although this is certainly of interest for the consultation and care of patients, a prevalence survey was not necessary, which this service offers as a review appointment. This is not only because people have more access to telephone than internet and email but also, above all, because people in the general population, the target of such a survey, including people with and without disease, will not spontaneously answer an unexpected questionnaire without a minimum of information and invitation. There would be a severe risk of underestimating the denominator and thus biasing the prevalence.

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Reference

Increased risk of cancer in patients with scleroderma: no risk in patients with morphea?

In a recent issue of the Annals Hill et al reported a risk of cancer in patients with (systemic) scleroderma. The authors found an increased risk for all cancers, but the greatest significantly increased relative risk was for lung cancer.

Published data do not indicate an increased risk of cancer for patients with localised scleroderma or morphea in general.1 But that statement needs a closer look. Although there are no population based studies in this field, there is some evidence that patients with pansclerotic or generalised...
morphoea with longstanding ulcerations of skin or scars are at risk for the development of squamous cell carcinoma. In a recent overview we found seven case reports on squamous cell carcinoma in these patients. The number seems remarkably high because this disease is extremely rare. The observation has not only some impact on follow up but on treatment as well. The use of ultraviolet based treatments like UVA1 or PUVA (psoralen plus UVA) widely used successfully for more severe or widespread forms of morphea might further increase the risk of squamous cell carcinoma in these patients.

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References

Author’s reply
Dr Wollina’s observations are of great clinical and research interest. Unfortunately, we excluded patients with localised scleroderma in our study owing to incomplete ascertain-ment in South Australia. We agree that further investigation of this interesting area is needed, particularly in relation to the influence of treatment. However, epidemiological studies of rare diseases are a challen ging area of research.

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Reference

NOTICE

MSc Programme in Clinical Rheumatology
Applications are invited for places on this MSc programme, starting September 2004, which provides an excellent academic basis for those aiming at a career in rheumatology or a related subject. Applicants should be medically qualified and should have had at least 2 years of general medical experience after qualification. Previous experience in rheumatology is desirable, but not essential. The programme is undertaken part time over 2 years and is now well established, entering its 10th year. Further details can be obtained from Miss Lisa McClar, ARC Epidemiology Unit, Stopford Building, University of Manchester, Oxford Road, Manchester, M13 9PT, UK. Tel: (0) 161 275 5993, Fax: (0) 161 275 5043. Email: Lisa.Mcclar@man.ac.uk

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First European Course: Capillaroscopy and Rheumatic Diseases
10–12 September 2004; Genova, Italy
Contact: Scientific Secretariat: Professor Maurizio Cutolo, Division of Rheumatology, DIMI, University of Genova, Italy
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Xth International Conference on Behcet’s Disease
27–31 October 2004; Antalya, Turkey
Contact: Congress Secretariat, Figur Congress and Organization Services Ltd, STI, Ayazmaderesi Cad. Karadud Sok. No: 7 80888 Dikilitas, Istanbul, Turkey
Tel: +90 (0212) 258 6078
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Email: behcet2004@figur.net
Website: www.behcet2004.org

4th International Congress on Autoimmunity
3–7 November, 2004; Budapest, Hungary
Deadline for receipt of abstracts: 20 June 2004
Contact: 4th International Congress on Autoimmunity, Kene’s International—Global Congress Organisers and Association Management Services, 17 rue du Cendrier, PO Box 1726, CH-1211 Geneva 1, Switzerland
Tel: +41 22 908 0488
Fax: +41 22 732 2850
Email: autoim04@kenes.com
Website: www.kenes.com/autoim2004

8th EULAR Postgraduate Course in Rheumatology
28 November–3 December 2004; Prague, Czech Republic
Contact: EULAR Secretariat, Witiokonerstrasse 15, CH 8032 Zurich, Switzerland
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Fax: +41 1 383 98 10
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Website: www.eular.org

Osteoarthritis Research Society International
2–5 December 2004; Chicago, USA
Contact: 17 000 Commerce Parkway, Suite C, Mt Laurel, NJ 08054, USA
Email:oarsi@oarsi.org
Tel: +001 856 439 1385
or visit http://www.oarsi.org

Vth European Lupus Meeting
3–5 March 2005; Royal College of Physicians, London, UK
Contact: Julia Kermode, Conference organiser of the British Society of Rheumatology
Email: Julia@Rheumatology.org.uk

Future EULAR congresses
8–11 June 2005; EULAR 2005; Vienna, Austria
21–24 June 2006; EULAR 2006; Amsterdam, The Netherlands

Future ACR meeting
16–21 October 2004; 68th Annual Scientific Meeting; San Antonio, Texas
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P R J Ames, K Sokoll, M Weston, A Margarita and V Brancaccio

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