Treatment of resistant giant cell arteritis with etanercept

Tan et al recently described a case of “resistant giant cell arteritis” successfully treated with etanercept.1 Their patient, who had classical symptoms of polymyalgia rheumatica (PMR), developed headaches while receiving low dose steroids. Biopsy of a temporal artery showed no arteritis. Because giant cell arteritis (GCA) was suspected on clinical grounds, high dose steroids were instituted. Six months later, despite continued steroid treatment, a transient ischaemic attack (TIA) involving right arm weakness occurred, which was ascribed to “arteritis (sic)”. An insufficiency fracture ensued. As occurred, which was ascribed to “arteritis”.

One final caveat: although further study may show that TNFα blockade does successfully reduce the levels of cytokines that drive the acute phase response in GCA, thus ameliorating constitutional symptoms and signs, this treatment may not mitigate the disease’s most feared consequence—namely, ischaemia leading to visual loss. As demonstrated by elegant work over the past decade by Weyand and Goronzy, ischaemia in GCA results from an array of other cytokines with pathogenic potential—for example, platelet derived growth factor and vascular endothelial growth factor, which would be unaffected by TNFα’s blockade.

References


Authors’ reply

We thank Dr Dockens for his comments on the difficulty in the diagnosis, treatment, and classification of polymyalgia rheumatica (PMR) and giant cell arteritis (GCA). However, the sole purpose of our case report was to show that etanercept might have a role in the treatment of resistant disease of the PMR/GCA spectrum. From a clinical standpoint we are happy to label our patient as having GCA (in addition to PMR) based on his headaches, constitutional symptomatology, temporal tenderness, and resistance to 15 mg of prednisolone a day. We know that the disease was resistant because his symptoms and laboratory abnormalities persisted despite continued use of relatively high dose steroids, and there was clinical deterioration mirrored by an increase of the acute phase response.

Of course it is entirely possible that his transient ischaemic attack was related to atheroma, even in the face of very active GCA, but a rare arteritic related event could not be excluded in the clinical circumstances. The adverse effect of high dose steroids on blood pressure and lipid profiles and their association with atheromatous related disease was an additional concern about their continued use. We agree that it would be folly to treat patients on the basis of a raised erythrocyte sedimentation rate (ESR) alone but an extremely high ESR, as in this case, invariably signifies disease flare. Activation of the inflammatory cascade has a pivotal role in the pathogenesis of GCA so it seems logical that anti-tumour necrosis factor treatment could abrogate this regardless of the other cytokine mediators of disease.

Fenofibrate and losartan

The leader by Professor Bardin makes an excellent point. We could benefit from the hypouricaemic action of drugs that are not licensed for this use (for example, losartan and fenofibrate).

Other drugs in common use may also have a uricosuric effect. For example, atorvastatin can reduce serum uric acid concentrations in patients with peripheral atherosclerotic disease or hyperlipidaemia.4,5 However, the mechanisms involved are not clear cut; we speculate that atorvastatin can increase renal blood flow and decrease serum creatinine levels.6

Thus, the Medical Research Council/British Heart Foundation Heart Protection Study (HPS) showed that simvastatin decreased the deterioration of the glomerular filtration rate (GFR) over a period of 4.6 years in high risk patients with (n = 5967) without (n = 14 573) diabetes.7 This effect on GFR would almost certainly influence urate excretion. These statin mediated effects are relevant because, as Professor Bardin points out, patients with hyperuricaemia may also be dyslipidaemic.

Closer to the interests of rheumatologists are the non-steroidal anti-inflammatory drugs (NSAIDs). Some NSAIDs may exert a favourable effect on urate excretion. For example, diflunisal has been reported to have a uricosuric effect, although the inhibition of xanthine oxidase activity has also been proposed.8 Azapropazone (not used as a first line option) has been shown to lower serum urate levels.9 Indometacin may have uricosuric properties.10 Tiaprofenic acid...
is another NSAID with hypouricaemic effect. Aspirin has a bimodal effect on the renal handling of uric acid. High doses (>3 g/day) are uricosuric, while lower doses (1–2 g/day) cause urate retention. At the lowest dose (75 mg/day) aspirin caused a 15% decrease in urate excretion with a slight but significant increase in serum urate levels.

The clinical significance of these “additional” uricosuric effects remains to be established. There is also a need to assess the value of using combinations of these drugs (for example, losartan and fenofibrate together with an NSAID with beneficial effects on urate excretion). The search for NSAIDs that do not exert renal toxicity may well be worthwhile because of their widespread use. Acute attacks of gout are usually treated with high doses of NSAIDs. It could be useful to have NSAIDs with uricosuric properties as well as the analgesic and anti-inflammatory effect.

References


NOTIFICATION AND CORRECTION


The name of the first author of this paper has changed from Tak-Diamant Z to Diamant Z.


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We regret that the references for this letter were omitted. They are given below.


NOTICE

8th EULAR Postgraduate Course in Rheumatology

28 November–3 December 2004; Prague, Czech Republic

The course will cover clinical aspects of rheumatic disease concentrating on outcome, assessment, and evidence based management and will include the scientific basis of rheumatology. The course is aimed at junior rheumatologists at the end of their training but is open to all rheumatologists.

The registration fee of €600 will include tuition, accommodation for seven nights and all meals.

The electronic registration system will open on 1 April 2004 on the EULAR website www.eular.org

EULAR will consider granting bursaries to young rheumatologists from countries where there is a real educational need. More information will be available on the EULAR website from 1 April 2004.

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Email: Lupus2004@theoakleygroup.com
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Contact: Congress Secretariat at info@osteofound.org
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31 May–5 June 2004; Porto, Portugal
Contact: International Society for the Study of the Lumbar Spine, 2075 Bayview Avenue, Room MG 323, Toronto, Ontario, Canada M4N 3M5
Tel: 00 1 416 480 4839
Fax: 00 1 416 480 6055
Email: shirley.fitgerald@sw.ca

8th EULAR Sonography Course

7–9 June 2004; Berlin, Germany
Contact: Congress Committee: Marina Backhaus, Wolfgang Schmidt
Contact: Congress Organisation: Gedel Congress Service
Tel: +49-30-22488390
Fax: +49-30-22488399
Email: gedel.cm@t-online.de
Website: www.eular.org

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10–12 September 2004; Genova, Italy
Contact: Scientific Secretariat: Professor Maurizio Cutoio, Division of Rheumatology, DIMI, University of Genova, Italy
Email: mcutoio@unige.it
Organising Secretariat: Michela Civelli, EDRA spa, Viale Monza , 133 – 20125, Milan, Italy
Tel: +39 02 281 72300
Fax: +39 02 281 72399
Email: edracongressi@dsmedigroup.com

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27–31 October 2004; Antalya, Turkey
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Tel: +90 (0212) 258 6020
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