Response to: ‘A relationship between extracapsular involvement and response to steroid treatment in polymyalgia rheumatica: too soon to conclude?’ by Yang et al

We thank Yang et al for their comments on our whole body MRI study in patients with polymyalgia rheumatica (PMR). Our previous work in PMR revealed inflammatory changes outside the joint cavity, or ‘extracapsular pattern disease’, in both the shoulder and the hand. In a preliminary analysis of four non-contrast whole-body MRIs in the present cohort, we saw an identical pattern of disease in PMR and consequently developed the scoring system described. In addition to scoring the individual sites semi-quantitatively, we also classified the overall pattern as ‘extracapsular’ or not, using visual pattern recognition. This Gestalt-based classification was not derived directly from any of the individual site scores. Subsequently, after unblinding of clinical diagnosis, we derived an ‘inflammation score’ by summing the scores at the five sites of gadolinium enhancement which discriminated best between PMR and rheumatoid arthritis (RA) (ranking shown in supplementary table 2 in Ref. 4). This was done to compare the overall burden of imaging inflammation with circulating interleukin-6 levels in the PMR patients (supplementary figure 2 in Ref. 4). We agree with Yang et al that it is unsurprising that PMR patients with extracapsular pattern had higher scores than the other patients; statistical testing was not in fact performed for this comparison.

Yang et al enquired about the extracapsular versus intracapsular pattern in PMR versus RA. The florid extracapsular pattern we observed in PMR was also associated with some intracapsular gadolinium enhancement. The difference between PMR and RA was best seen using the pelvic sequences; here, the extracapsular pattern is situated around the joint capsules. In our MRI study in patients with polymyalgia rheumatica (PMR), our functional impairment at first follow-up. It is not possible to determine whether or not this was because this group also reported slightly greater fatigue pretreatment; visual analogue scales behave non-linearly near the extremes.

We agree that further studies are required to replicate our observation that presence of this extracapsular pattern appears to be prognostically informative, at least in terms of completeness of patient-reported glucocorticoid response. In judging glucocorticoid response, we would advise researchers to continue to collect patient-relevant outcome data, rather than relying solely on ‘objective’ imaging tests. Indeed, we feel that it would be too soon to conclude from current data that MRI is a validated tool for disease activity monitoring in PMR, since our research question was not about disease monitoring but prognostic stratification.

Sarah L Mackie, Dennis G McGonagle
University of Leeds, Leeds Institute of Rheumatic and Musculoskeletal Medicine, Chapel Allerton Hospital, Leeds, UK

Correspondence to: Dr Sarah L Mackie, University of Leeds. Leeds Institute of Rheumatic and Musculoskeletal Medicine, Chapel Allerton Hospital, Leeds LS7 4SA, UK; s.l.mackie@leeds.ac.uk

Twitter Follow Sarah Mackie at @Sarah_L_Mackie

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REFERENCES


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