

Response to: Correspondence on "ASAS-EULAR recommendations for the management of axial spondyloarthritis: 2022 update" by Ramiro *et al*

We read with interest the letter by Braun¹ pertaining to the 2022 update of the ASAS-EULAR recommendations for the management of axial spondyloarthritis (axSpA).² Braun questions whether having non-steroidal anti-inflammatory drugs (NSAIDs) as the first mandatory pharmacological treatment is still appropriate. First, doubt is raised whether an insufficient response to NSAIDs, which is required in daily clinical practice and in clinical studies before the start of biological disease-modifying antirheumatic drugs (bDMARDs), is ever formally checked. Whether this is the case or not, we remain firmly of the opinion that this could not, at least without a proof against, be an argument used to delete this from our recommendations. This opinion is based on the well documented and extensive evidence on the efficacy of NSAIDs in axSpA, over long periods of time.

Furthermore, Braun indicates that tumour necrosis factor inhibitors (TNFi) reduce axial inflammation while NSAIDs do not.¹ However, it is worth noting that NSAIDs have also shown to decrease axial inflammation to some extent: a decrease in signal intensity of bone marrow oedema of the sacroiliac joints was measured as an early response to 6 weeks of optimal NSAID therapy in patients newly presenting with axSpA.³ Nevertheless, we agree that this is an aspect of studies with NSAIDs that has been less frequently examined, as compared to TNFi and other bDMARDs.

Moreover, the question is raised around the time period (4 weeks) chosen for the treatment with NSAIDs necessary to observe clinical response. We accept that the evidence on this is very limited and arguably, a 4-week trial duration is indeed arbitrary. However, there was clear consensus to recommend an NSAID trial first, which also allows time to consider patients with axSpA who truly need to progress to bDMARDs, versus those who do not.^{1,4} This strategy has indeed proven to be successful since, as also acknowledged by Braun, an important proportion of patients reach very good clinical outcomes while only on NSAIDs.⁵ For example, in newly diagnosed patients in the TICOSPA trial, whereby there was indeed a 4-week visit to check efficacy, 44% of the patients in one arm and 63% in the other arm did not start a bDMARD within the first year of treatment.⁶ This suggests that bDMARDs are not necessarily needed for every single patient with axSpA. It should also be noted that 4 weeks is not a very long period in comparison to the 3-month minimum window used for conventional synthetic DMARDs in rheumatoid arthritis.⁷

There are other relevant generic considerations pertaining to the content of recommendations. As in the case of classification criteria, recommendations should be conservative, not too sensitive to *Zeitgeist*, and consider the entire spectrum of patients in different regions of the world. Essentially, this means that the patients with the severest disease should be treated with the most efficacious drugs as soon as possible, while those with less severe disease could still be offered a chance of good clinical outcomes with other drugs, such as NSAIDs for axSpA, or with non-pharmacological treatment alone. In addition, there are patients with an even milder form of the disease who do not wish to be followed up long term, with the option to reach out to a specialist 'on demand'. Treatment recommendations should serve the entire spectrum of axSpA. Despite the decreasing costs of bDMARDs in some countries through more effective

market-competition and the availability of biosimilars, we all must recognise that they remain considerably more expensive than NSAIDs. ASAS-EULAR recommendations for the management of axSpA aim to be used universally and their content needs to address and reflect worldwide axSpA-care including ease of access to drug treatment.^{8,9}

Finally, the suggestion raised to treat patients with axSpA with bDMARDs alone as first line has so far not been formally investigated. Such a comparative (pragmatic) trial with bDMARDs first versus NSAIDs first followed by bDMARDs only if needed, would be very challenging to design and conduct properly, and sensitive to all sorts of bias. To consider such a paradigm-change in the ASAS-EULAR management recommendations for axSpA, at least some evidence favouring it would be necessary to overcome the arguments previously given and the strong rationale for keeping NSAIDs as first-line treatment in axSpA.

Sofia Ramiro ^{1,2}, Elena Nikiphorou ^{1,3,4}, Alexandre Sepriano ⁵, Augusta Ortolan ^{6,7}, Casper Webers ^{8,9}, Xenofon Baraliakos ¹⁰, Robert BM Landewé ^{2,11}, Désirée van der Heijde ¹

¹Rheumatology, Leiden University Medical Center, Leiden, The Netherlands

²Rheumatology, Zuyderland Medical Center, Heerlen, The Netherlands

³King's College Hospital, London, UK

⁴Centre for Rheumatic Diseases, King's College London, London, UK

⁵Leiden Universitair Medisch Centrum, Leiden, The Netherlands

⁶Department of Medicine DIMED, University of Padova, Rheumatology Unit, Padua, Italy

⁷Fondazione Policlinico Universitario Agostino Gemelli IRCSS, Roma, Italy

⁸Department of Internal Medicine, Division of Rheumatology, Maastricht University Medical Centre, Maastricht, The Netherlands

⁹Maastricht University, Maastricht, The Netherlands

¹⁰Rheumazentrum Ruhrgebiet, Ruhr University Bochum, Herne, Germany

¹¹Rheumatology & Clinical Immunology, Amsterdam University Medical Center, Amsterdam, The Netherlands

Correspondence to Dr Sofia Ramiro, Rheumatology, Leiden University Medical Center, Leiden, 2333 ZA, The Netherlands; sofiamirami@gmail.com

Handling editor Josef S Smolen

Twitter Sofia Ramiro @sofiamirami82, Elena Nikiphorou @ElenaNikiUK and Alexandre Sepriano @AlexSepriano

Contributors SR drafted the response. All authors reviewed and approved the final response.

Funding The authors have not declared a specific grant for this research from any funding agency in the public, commercial or not-for-profit sectors.

Competing interests SR received research grants from AbbVie, Galapagos, Novartis, Pfizer and UCB, and consulting fees from AbbVie, Eli Lilly, Novartis, MSD, Pfizer, UCB and Sanofi. EN has received speaker honoraria/participated in advisory boards for Celtrion, Pfizer, Sanofi, Gilead, Galapagos, AbbVie, Lilly and holds research grants from Pfizer and Lilly. AS has received speaker/consulting fees from Abbvie, Lilly, UCB and Novartis. AO has nothing to declare. Casper Webers has nothing to declare. XB, received consulting fees and research grants from Abbvie, BMS, Eli-Lilly, Galapagos, Janssen, MSD, Novartis, Pfizer, Roche, Sandoz, Sanofi, UCB. XB is an Editorial Board member of *Annals of Rheumatic Diseases*. Robert Landewé received consulting fees from AbbVie, Bristol Myers Squibb, Celgene, Janssen, Galapagos, Glaxo-Smith-Kline, Novartis, Pfizer, UCB, and is Director of Rheumatology Consultancy BV. DvdH, received consulting fees from AbbVie, Bayer, BMS, Cystone, Eisai, Galapagos, Gilead, Glaxo-Smith-Kline, Janssen, Lilly, Novartis, Pfizer, UCB Pharma and is Director of Imaging Rheumatology bv.

Patient consent for publication Not applicable.

Provenance and peer review Commissioned; internally peer reviewed.

© Author(s) (or their employer(s)) 2023. No commercial re-use. See rights and permissions. Published by BMJ.



To cite Ramiro S, Nikiphorou E, Sepriano A, *et al*. *Ann Rheum Dis* Epub ahead of print: [please include Day Month Year]. doi:10.1136/ard-2023-223937

Received 16 February 2023

Accepted 17 February 2023



► <http://dx.doi.org/10.1136/ard-2023-223935>

Ann Rheum Dis 2023;**0**:1–2. doi:10.1136/ard-2023-223937

ORCID iDs

Sofia Ramiro <http://orcid.org/0000-0002-8899-9087>

Elena Nikiphorou <http://orcid.org/0000-0001-6847-3726>

Alexandre Sepriano <http://orcid.org/0000-0003-1954-0229>

Augusta Ortolan <http://orcid.org/0000-0002-3131-0939>

Casper Webers <http://orcid.org/0000-0003-3011-8547>

Xenofon Baraliakos <http://orcid.org/0000-0002-9475-9362>

Robert BM Landewé <http://orcid.org/0000-0002-0577-6620>

Désirée van der Heijde <http://orcid.org/0000-0002-5781-158X>

REFERENCES

- 1 Braun J. Correspondence on "ASAS-EULAR recommendations for the management of axial spondyloarthritis: 2022 update" by Ramiro *et al.* *Ann Rheum Dis* 2023.
- 2 Ramiro S, Nikiphorou E, Sepriano A, *et al.* ASAS-EULAR recommendations for the management of axial spondyloarthritis: 2022 update. *Ann Rheum Dis* 2023;82:19–34.
- 3 Varkas G, Jans L, Cypers H, *et al.* Brief report: six-week treatment of axial spondyloarthritis patients with an optimal dose of nonsteroidal antiinflammatory drugs: early response to treatment in signal intensity on magnetic resonance imaging of the sacroiliac joints. *Arthritis Rheumatol* 2016;68:672–8.
- 4 Braun J, Pham T, Sieper J, *et al.* International ASAS consensus statement for the use of anti-tumour necrosis factor agents in patients with ankylosing spondylitis. *Ann Rheum Dis* 2003;62:817–24.
- 5 Sieper J, Lenaerts J, Wollenhaupt J, *et al.* Efficacy and safety of infliximab plus naproxen versus naproxen alone in patients with early, active axial spondyloarthritis: results from the double-blind, placebo-controlled INFAST study, part 1. *Ann Rheum Dis* 2014;73:101–7.
- 6 Molto A, López-Medina C, Van den Bosch FE, *et al.* Efficacy of a tight-control and treat-to-target strategy in axial spondyloarthritis: results of the open-label, pragmatic, cluster-randomised TICOSPA trial. *Ann Rheum Dis* 2021;80:1436–44.
- 7 Smolen JS, Landewé RBM, Bergstra SA, *et al.* EULAR recommendations for the management of rheumatoid arthritis with synthetic and biological disease-modifying antirheumatic drugs: 2022 update. *Ann Rheum Dis* 2023;82:3–18.
- 8 Nikiphorou E, van der Heijde D, Norton S, *et al.* Inequity in biological DMARD prescription for spondyloarthritis across the globe: results from the ASAS-COMOSPA study. *Ann Rheum Dis* 2018;77:405–11.
- 9 Putrik P, Ramiro S, Kvien TK, *et al.* Inequities in access to biologic and synthetic dmards across 46 European countries. *Ann Rheum Dis* 2014;73:198–206.