Comment on the 2021 EUGOGO Clinical Practice Guidelines for the Medical Management of Graves’ Orbitopathy

Terry J Smith

Department of Ophthalmology and Visual Sciences, and Division of Metabolism, Endocrinology and Diabetes, Department of Internal Medicine, University of Michigan Medical School, Ann Arbor, Michigan, USA

I am writing to you after reading the article entitled 'The 2021 European Group on Graves' Orbitopathy (EUGOGO) Clinical Practice Guidelines for the Medical Management of Graves' Orbitopathy' by Bartalena et al. (1). In these guidelines, the authors advise their colleagues who care for patients with Graves’ orbitopathy (GO) to consider an aggregate of several factors in determining the optimal therapy for moderate to severe and/or sight-threatening GO. They strongly recommend as first-line therapy the combination of i.v. methylprednisolone and mycophenolate (MMF).

To be certain, a thoughtful and personalized approach to developing treatment plans is essential for consistently delivering optimal patient care. The authors of the guidelines reveal that they based their recommendations largely on clinical response parameters comprising the clinical activity score. Instead, I suggest that they should have focused on treatment effectiveness in improving the most burdensome aspects of GO, namely proptosis and diplopia. Neither steroids nor MMF has shown reliable and clinically meaningful improvements in either of these disease manifestations. Their proposed first-line therapy involves administering both agents. Their rationale for this combination appears to rest entirely on two non-placebo-controlled clinical trials. One was conducted at a single institution in China while the other was performed in Europe and failed to meet its primary response.

In contrast, teprotumumab has unambiguously demonstrated remarkable effectiveness in improving both proptosis and diplopia with relative safety in two multicenter placebo-controlled trials (2, 3). The US FDA has commented on the benefit–risk dimensions of teprotumumab by stating that ‘Corticosteroids, orbital irradiation, and orbital surgery have been used with generally poor results’.

Thus, the authors of the guidelines should have addressed directly the skepticism expressed by the US FDA regarding the use of steroids in GO. These authors state that teprotumumab ‘incorporation into routine clinical practice is currently limited by the lack of comprehensive long-term efficacy and safety data, absence of head-to-head comparison with iv glucocorticoids, restricted geographical availability, reimbursement (outside the US), and costs’. Importantly, the authors express concerns about teprotumumab because long-term efficacy and safety data are yet to be published. Yet, their recommended ‘first-line’ combination therapy is not supported by either long-term efficacy or safety data. Further, steroids, either as a single agent or in combination with MMF, have not achieved regulatory approval. I, therefore, urge even-handed assessment of therapeutic options and keeping open minds regarding the prioritization of treatments, especially as teprotumumab may become commercially available in Europe for the treatment of GO.

Declaration of interest

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References

