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Dear editor

As a group of allergists who treat both allergic rhinitis and urticaria patients on a daily basis, and involved in clinical research, we read with particular interest the review paper "Treatment of allergic rhinitis and urticaria: a review of the newest antihistamine drug bilastine", published in your journal. Although the group of distinguished authors from the Asia Pacific Region provide an interesting insight into the burden of allergic diseases in this fast developing part of the world, no new data or insights are offered for the treatment of these diseases. Our attention was particularly drawn by Figure 9, which is partly based on data generated in a clinical study performed and published by our group.²

We would like to take this opportunity to bring some clarifications that we consider important for the readers.

It is regrettable that Figure 9 wrongly presents our results, which is compounded by the fact that it compares data from studies having completely different designs and objectives. According to this figure, desloratadine has a higher response rate of 27.1%, when used at doses of 20 mg once daily, than levocetirizine's response rate of 21.7%: a misrepresentation of our results. According to Figure 2 of our primary publication,² 12 patients (around 30%) became symptom-free (responders) when treated with levocetirizine 20 mg and only 1 patient (<3%) became symptom-free when treated with deslorated and 20 mg. In fact, 7 of the patients who responded to levocetirizine 20 mg were nonresponders to desloratadine 20 mg. In addition, Figure 9 seems to indicate that the number of the deslorated patients in our study was more than twice as large as the levocetirizine-treated patients (59 vs 23, respectively), which is also incorrect. The treatment groups in our study were well-balanced, with 40 patients in each group at randomization.

As Figure 2 of our primary publication may have been challenging for some, we would like to offer a different presentation of our data (Figure 1).

In addition to what appears to be incorrect presentation of our data, we consider the comparison of data in the same graph from completely different studies to be questionable. The desloratadine and levocetirizine data come from our study,² whereas the bilastine data come from Krause et al.3 Our study was a clinical trial in difficult-to-treat chronic urticaria patients who were initially treated with the recommended doses of desloratadine 5 mg and levocetirizine 5 mg, and only those patients who were not symptom-free after the first study week were put on increasing doses of the study medications. The study by Krause et al³ recruited patients with cold contact urticaria whose symptoms were

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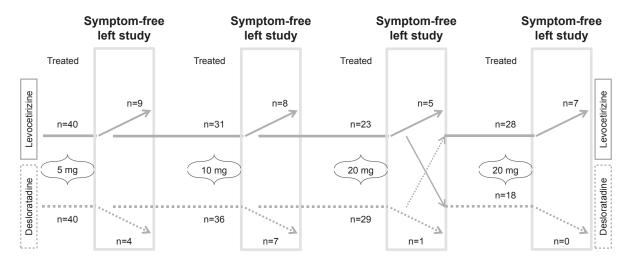


Figure I The study design with the treatment arms and the crossover step.

Notes: The symptom free patients left the study and the rest went on the higher dose. The final group of symptomatic patients went to the crossover step.

elicited by a cold provocation test, and they all received, in a crossover manner, 20, 40, or 80 mg bilastine over 1 week. Thus, the subjects in the bilastine study had a different disease, their symptoms were artificially elicited, and they were not treated with sequentially increasing antihistamine doses. Moreover, the 60% responder rate for 80 mg bilastine was not obtained in nonresponders to 20 and/or 40 mg of this drug. To make data more comparable with this study, we can calculate the cumulative responder rate in our study on difficult-totreat chronic urticaria that is 43% for levocetirizine group (29 symptom-free patients from 68 patients: 40 patients entering the study on levocetirizine plus 28 desloratadine nonresponsive patients eventually treated with 20 mg levocetirizine) versus 21% for desloratadine group (12 symptom-free patients from 58 patients: 40 patients entering the study on desloratadine plus 18 levocetirizine nonresponsive patients eventually treated with 20 mg desloratadine). These findings support our clinical observations demonstrating similar efficacy for levocetirizine and bilastine and that both are superior in efficacy compared to desloratadine.

It is also regrettable that our data were used to generate Figure 9 without any reference to our primary publication,

which does not even appear in the list of references. Instead, this review paper used yet another review⁴ as a reference.

In conclusion, we would like to emphasize that bilastine is a very valuable and efficacious option for many patients treated in our clinic and we welcome any new medications that could help us to effectively deal with the increasing severity and prevalence of modern allergies.

Disclosure

The author reports no conflicts of interest in this communication.

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Author's reply

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Dear editor

Thank you for the opportunity to review the content of the letter by Staevska in response to our article entitled Treatment of allergic rhinitis and urticaria: a review of the newest antihistamine drug bilastine.¹

The objective of this article has been to review the current burden of allergic rhinitis and urticaria in the Asia Pacific region, to briefly describe the evolution of antihistamine pharmacology, and to systematically review the pharmacological characteristics and clinical results of bilastine, a new antihistamine that is highly selective for the H1 histamine receptor.

Figure 9 in our article presents data from an indirect comparison of data from several clinical trials (including the one by Staevska et al²) published in *World Allergy Organization Journal*.³ It is described thus in our paper "A comparison of clinical trial data for second-generation antihistamines in chronic urticaria suggests that this bilastine dosage is significantly more effective than supratherapeutic dosages of desloratadine and levocetirizine (Figure 9)." The data presented in Figure 9 are as they appear in the indirect comparison paper by Sánchez-Borges et al.³ In our opinion, should there be any criticism of the interpretation of these data, it should be leveled at the authors of the indirect comparison (Sánchez-Borges et al), yet we were unable to find any correspondence indicating that this has taken place.

A couple of things to note about our use of these data:

- Because our article was focused on bilastine, the Staevska et al² article, which includes desloratidine and levocetirizine, was not captured by the original literature search but the Sánchez-Borges paper was.
- The Sánchez-Borges paper is labeled by the journal that published it as "original research," presumably because they applied comparative analysis to previously published data.
- Although we could have sourced the original paper, as suggested by Staevska in this letter, to verify the findings of the Sánchez-Borges analysis, we had no reason to

- suspect that the Sánchez-Borges analysis misrepresented the original findings, and our description of the analysis (as a comparison of clinical trial data) does not overstate the Sánchez-Borges conclusions.
- The Staevska et al² study, which used a dose-escalation protocol, may have achieved a higher cumulative response rate with levocetirizine (43%) and desloratidine (21%) than has been represented in the Sánchez-Borges paper, but this rate is still numerically lower than the 60% response rate to bilastine described in the paper by Krause et al.⁴ Therefore, our statement that the analysis suggests a higher response rate with bilastine than levocetrizine is not inaccurate.
- The patient number of n=59 for desloratidine 20 mg once daily in the figure is correct because this portion of the graph includes combined data from the Staevska et al² paper and one by Siebenhaar et al.⁵ This fact may have escaped the letter's authors. If they thought that the desloratidine portion of the graph contained only data from their own paper, it is little wonder that the graph seemed to misrepresent the findings of their 2010 study.

Arguably, Sánchez-Borges et al should not have included the Staevska et al² study in their indirect comparison of high-dose antihistamines, as the Staevska et al study did not use a fixed dose of drug (in both arms, the dose was escalated to achieve maximal benefit and patients who did not respond to the maximal dose of one agent were switched to the other). Similarly, the authors may have a point that the bilastine study, in which patients with cold urticaria underwent cold challenge, should not have been compared alongside the others in the Sánchez-Borges analysis. Nevertheless, cold urticaria is a form of chronic urticaria and we repeat our contention that we have not overstated or misrepresented the data presented by Sánchez-Borges et al.

Naturally, we fully support the principles of open scientific debate, if this is accomplished through substantiated and science-driven observations together with full understanding of the article these remarks are destined to.

Disclosure

The author reports no conflicts of interest in this communication.

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