Reviewer's report

Title: A highly efficacious pediculicide based on dimeticone: randomized observer blinded comparative trial in patients with severe infestation

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Reviewer: Kosta Y. Mumcuoglu

Reviewer's report:

Page 3, Conclusions:
Here it is claimed that NYDA interrupts the oxygen exchange, while in the discussion it is said that the product suffocate the louse. Do the authors perhaps mean the O2/CO2 exchange, or oxygen intake?
The sentence: “Text for this section of abstract” should be omitted.

Page 8, Figure 1:
The degree of itching was assessed based on a pre-tested ordinal visual analogue scale. The figure 1 is at best amusing, however not scientific. Did the authors use an objective measurement such as times scratching/min?

Page 9, 2. paragraph:
Why were all participants treated with Ivermectin before leaving the holiday resort?
Why not only those, who were still infested after the second application of the products?

Page 12, last line:
Omit the word “disappointingly”

Page 14, 2. paragraph:
It is said that the study was designed in a way to not artificially increase the efficacy of the product. Isolating treated children in a resort and treating them all simultaneously by a professional and removing the child from a milieu, where over 40% of the population is infested with lice, does not necessarily sound as an ideal solution (if there is something like that!).

Page 15, 2. paragraph:
The fact that there is an increase in the number of infested children, 7 days after the first application, rather shows that the product has not a very high ovicidal efficacy. Hatching lice, which survived the first treatment while inside eggs, are most probably responsible for this increase. The second treatment most probably killed all those hatched lice and contributes to the high efficacy of dimeticone.
**Level of interest:** An article of importance in its field

**Quality of written English:** Acceptable

**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests