**Reviewer’s report**

**Title:** Effect of mandibular position achieved using an oral appliance on genioglossus activity in healthy adults during sleep

**Version:** 0  **Date:** 06 Aug 2019

**Reviewer:** M. Wojda

**Reviewer's report:**

The work is written in an orderly and transparent way. The subject matter is an important issue in modern medicine. The article brings cognitive elements in the subject of sleep medicine. The title of the article corresponds to its content. The Authors of the article clearly defined the purpose of the work. They presented research methods in a simple and accessible way. References have been well-chosen, current and properly used in the text. The form of presentation of Results, Conclusions and legends under the figures raises some doubts. It is suggested:

1. Describe the obtained results in the Results section and write in brackets on which particular figures the results discussed are presented. There is no need to describe the figures.

2. Regarding Fig. 1 it seems advisable to change its description with emphasis that it is an appliance with properly mounted electrodes.

3. In the case of Fig. 2, for better understanding, it would be better to present the entire patient profile with the exact location of the electrodes on the rumen muscle.

4. It would be advisable to shorten the description under the Fig. 4 and horizontal arrangement of photos. In the case of Fig. 4 it is necessary to use the same abbreviations describing the position of the lower jaw in the figure as used in the text.

5. The Conclusion should be reworded. It can be concluded from the research that the activity of the GG muscle depends not only on the protrusion of the mandible, but also on the degree of its opening. It can be said that to increase the activity or achieve GG activity, with a small jaw opening (up to 4mm) the jaw should be protruded, and with a large opening (12mm) it is enough opening the jaw. The Authors did not study the effectiveness of mandibular advancement appliance and the group of patients in this study consisted of healthy patients. For this reason, it can be indicated that the effectiveness of intraoral appliances in the treatment of OSA should be examined, taking into account both protrusion and opening of the mandible.

**Level of interest**

Please indicate how interesting you found the manuscript:

An article of importance in its field
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