

## Peer Review File

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### Review Comments

It is unclear which kind of "study" the paper under review represents. It is neither a systematic review, nor a clinical study. Might it could be classified as "case report". This should be stated in the title.

There are numerous statements in the manuscript which need to be supported by a reference (e. g. in the introduction, page 1, line 24 and 27, page 3 line 81).

The authors often use the term "TMD" (temporomandibular disorders) instead of joint disease. Page 1, line 31: "As TMDs progress and cause more damage via resorption and remodeling to the joints the altered...". This might be true for TMJ-related disorders, but not for muscular related TMD.

It should be clarified that joint replacement might be a therapeutic approach when severe degeneration of the joint occurs. This should be mentioned in the title, also. Furthermore, the correlation between sleep apnea and degenerative joint disease should be more elaborated and described. In this context, it should be mentioned (and supported by references) that subjects with sleep apnea benefit from surgery more than from other therapeutic approaches (splints, CPAP).

Details about the clinical TMD examination are missing. What about the calibration of the examiners? Reliability and validity of the examination?

Statements as "The authors of this chapter prefer the use of custom TJPs" are not scientific and should be avoided - or references should be given to support the statement. All abbreviations (e. g. TJP) should be explained.

What about the classification of sleep apnea? Was there a polysomnographic recording prior to the surgery and afterwards? This is mandatory to proof the assumption that sleep apnea improved after surgery. What about a control group (or a split design) using splints or CPAP? What about the AHI score before and after treatment with surgery, splint or CPAP?

All edits on paper are in red colored font. We have added "case report" to title. Addressed lines 24, and 27. Addressed line 81. Changed TMD to TMJ disease. Mentioned joint replacement should be done in severe degeneration. Added section that displays correlation between sleep apnea and TMJ disease. Added reference discussing splints, CPAP to surgery. Added details about the TMD exam. Changed statements that started with "the authors," to sound more scientific. Explained abbreviations. Some patients had pre and post op polysomnographies, AHIs and RDIs are mentioned in the "Case examples," at the end of the chapter for each patient. The purpose of the study was not to compare to other modalities but to describe our results as a case series.

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