Reviewer's report

Title: Factors affecting the early failure of implants placed in a dental practice with a specialization in implantology – a retrospective study

Version: 0 Date: 07 May 2019

Reviewer: Jeffrey Wessel

Reviewer's report:

It is important to point out the retrospective nature of this study as a major limitation. This is mentioned in the discussion but should be emphasized more.

Smoking and diabetes are mentioned in the discussion but comparison of implant failure rates related to diabetes and smokers should be included in the results. Additionally, any data on the level of diabetic control (HbA1c levels) and quantity of smoking should be included in the analysis.

The mean time until implant loading was 81.9 days. The reason for this timeline should be discussed and what clinical factors were used to determine when the implants were ready for prosthesis delivery should be described. Many publications advocate longer integration times prior to restoration so this should be discussed.

Why were 7 implants with a diameter less than 2.8mm excluded from the analysis? This is mentioned in the results but no reason for the exclusion is given.

The results mention a history of periodontitis in 26% of patients. The time since achieving periodontal health and stability in these patients should be described. The periodontal diagnoses of these patients should be included as well.

This study evaluated implants placed by general dentists, not periodontists or oral surgeons. This should be discussed, including what type of surgical training these dentists had received.

Evaluation of the implants included "radiologically (attachment loss)." Radiographs will demonstrate bone loss. Attachment loss is a clinical measurement based on probing depth and location of the gingival margin relative to the CEJ - this needs to be corrected in the manuscript.

The second sentence in the discussion states that this study suggests early implant failure is manageable for dental implants placed in private practice. This study does not evaluate management of implant failures. It just evaluates the number of implant failures, not how they were managed. This sentence needs to be corrected.
Was a measurement of the insertion torque at the time of placement obtained for the implants? If so, what was the minimum accepted torque and what was the insertion torque of the failed implants?

**Are the methods appropriate and well described?**
If not, please specify what is required in your comments to the authors.

Yes

**Does the work include the necessary controls?**
If not, please specify which controls are required in your comments to the authors.

No

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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