Reviewer’s report

Title: Complete-arch fixed reconstruction by means of guided surgery and immediate loading: a retrospective clinical study on 12 patients with 1 year of follow-up

Version: 0 Date: 21 Sep 2019

Reviewer: Davide Farronato

Reviewer's report:

General Comments:

The authors report a retrospective clinical study on complete-arch fixed implant rehabilitation by the use of guided surgery. The paper shows very interesting results and no flaws are detected in the statistical evaluation nor in the overall considerations, even if minor improvements may be applied.

Abstract:

Page 2:
-Line 38-39: "…for a 1-year implant survival rate…” I suggest "giving", "resulting in" or any synonyms instead of "for".
-Line 39-41: "8/12 prostheses that did not undergo any failure or complication during the entire follow-up period." Please consider removing "That".

Introduction:

Page 3:
-Line 2-4: "… represent a predictable for the rehabilitation …" Please consider "… represent a predictable solution for the rehabilitation …"

Page 5:
-line 1-2: "allows one to obtain " please consider removing "one"

Methods:
Page 5:
-line 38: "Patients, that were fellowed up for at least 1 year" Please check spelling "least" instead of "leadt", "followed" instead of "fellowed"
-line 44: "Patients with other prosthetic rehabilitation than complete-arch fixed prostheses", please consider "Patients with any other prosthetic rehabilitation rather than complete-arch fixed prostheses"
Page 6:
- Data acquisition, lines 32-36: "...in order to have all the .STL files available for the upload in the guided surgery software. All these models were saved as .STL files, ready to be imported in the guided surgery software". Repetition detected, please fix accordingly.
- Lines 50-60 page 6: "Care was taken to try to engage the fixtures as much as possible in the residual bone, exceeding the apex of fresh extraction sockets at least 3-4 mm, by choosing appropriate implant sockets, ideally at a distance of 2-3 mm from the residual buccal bone walls, and at a proper inclination. Ideally the axis of the implants had to be in the center of the teeth, to achive a perfect prosthetic plan " please motivate the mentioned measures in the discussion.

Page 7:
- Line 1: Please consider to change "screened" with "checked" or other synonyms
- Line 34: Please consider to change "with a Morse-taper indexed connection" with "with a Morse-taper hexed connection" same at line 54 "Morse-taper indexed connection"
- Lines 39-40: " In the coronal portion, in fact, microgrooving is present, in order to soften and reduce forces transmitted to the cortical bone during insertion" please provide literature justification.

Page 8:
- Line 6: "After this…" I suggest considering "After the digital planning…"
- Lines 32-33: "This fixed full-arch temporary was cemented and a panoramic radiograph was taken" you assessed that in few areas bone augmentation procedures and tissue managing was performed as well as fresh socket implants. How did you manage the risk for cement contamination in those sites? Was the panoramic an X-ray check also aimed at this? Was the cement radiopaque? Please point out.
- In addiction, in the presented case it might seem that the prosthodontics is screw-retained with multi-unit intermediary abutments
  (Img. 7B,8A) despite what described in Methods/Surgical and Prosthetic Treatment. Please point out accordingly.
- Line 45: Please check spelling "...the same aforementined desktop scanner..." into "aforementioned"

Results:

Page 13
- Line 24: "(53 SCs, 17 BRs, and 2 fixed FAs)" Please disclose meanings for the acronyms in the Surgical and prosthetic treatment section page 8 and in abbreviation section page 20

Complications:

Page 14
- Line 37-38: "...,but improved oral hygiene reduced the inflammation" please consider "...,but the improved oral hygiene reduced the inflammation"
Conclusions:

Page 19
-line 42-43: "and good soft-tissue stability" please consider "and good soft-tissue stability"

Figure legends:

Page 32
-line 13-14 and line 31-32: "prosthetically driven matter" please consider more common expressions like "prosthetically driven position/philosophy/guidance…"
-line 33-34: "implant emergency profile" please consider "implant emergence profile"

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.

Yes

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 am able to assess the statistics

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Please indicate the quality of language in the manuscript:

Needs some language corrections before being published
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