Author’s response to reviews

Title: Simultaneous, radiation-free registration of the dentoalveolar position and the face by combining 3D photography with a portable scanner and impression-taking

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Reviewer reports and detailed response to the comments

We would like to thank all editors and reviewers again for their time and effort to review our revised manuscript and help us to improve our presented study with their most valuable comments.

Reviewer #3: While some general concern about the novelty aspects of the presented study remains, the authors have addressed most of the remarks from the previous review. However, some issues still need to be addressed:

Page 6: "An analysis of the variance of a tenfold repetition of the digital workflow has been performed"

This description is not very precise. The authors should clarify, whether in fact the residual deviations between the intraorally scanned models have been calculated after registering with the extraoral scan body. Which measurement has been used as reference?

Reply: Thank you for pointing out the shortcomings in our description of the performed workflow. We have added more information to the steps we have repeated. The new wording in the Methods-section is now as follows:

“The tenfold repetitions were performed additionally to gain information about the standard deviation and variance of RMSE. For this purpose, the workflow was repeated with the digitalized models starting from the above-mentioned step 3. After creating a data set as a basis for comparison, another ten repetitional data sets have been formed. All ten data sets have then
been aligned individually to the basic data set with a consecutive RMSE analysis of the entire 3D models.”

Page 8: Units should be added to the numerical values.

Reply: We thank the reviewer to call attention on the unit. We have added the numerical values.

For the newly added text, the language should be revised.

Reply: Our revised manuscript has been language-corrected by a professional language-editor after this revision before re-submission.