Reviewer’s report

Title: Medical-grade polycaprolactone scaffolds made by melt electrospinning writing for oral bone regeneration – a pilot study in vitro

Version: 0 Date: 16 Sep 2018

Reviewer: Michael Edelmayer

Reviewer's report:

In their study entitled "Medical-grade polycaprolactone scaffolds made by melt electrospinning writing for oral bone regeneration" the authors evaluated box-shaped polycaprolactone scaffolds made using melt electrospinning writing via scanning electron microscopy. Cytotoxicity and cell growth were evaluated by seeding each scaffold with human osteoblast-like cells (MG63). Based on their results the authors conclude that these scaffolds might enhance wound healing in certain maxillofacial tissues. Overall, it is my opinion that the study is suitable for publication in the renowned journal BMC Oral Health after major revision based on the comments stated below.

Line 77 "tissues" (issues)

The pilot study design should be stated in the title and in the methods section. At the moment this fact can only be found in the discussion part.

As the hydrolytic degradation of polycaprolactone happens very slow (2 years), which changes (especially in pH values) are expected during 2 to 4 days?

Due to missing replicate samples findings about cytocompatibility and morphological characterization may not be reliable.

Consequently, no conclusion about possible effects on cells and preferable box geometries and sizes can be drawn.

Therefor the results should be verified by a multiple repetition of the experiment.
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.

No

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

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

Needs some language corrections before being published

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