Reviewer’s report

Title: The cytotoxicity of QMix™ and sodium hypochlorite endodontic irrigating solution on human bone marrow mesenchymal stem cells

Version: 2 Date: 13 March 2014

Reviewer: Gianrico Spagnuolo

Reviewer’s report:

The manuscript titled: “Cytotoxicity of QMix™ endodontic irrigating solution on human bone marrow mesenchymal stem cells” deals with a topic that is interesting and relevant to the journal. The study would like to examined the toxic effect of two different endodontic agents on immortalized stem cells (MSC).

Materials and methods used in the experimental design were enough to evaluated the cell responses to the irrigating solution, but I suggest to show also a quantitative methods to quantify the apoptic response (e.g. flow cytometry).

The study is interesting and the results showed appear attractive for the understanding of the biocompatibility of these materials. The manuscript should be consider for the publication in BMC after major revision.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests