Reviewer's report

Title: Osseointegration of zirconia implants: an SEM observation of the bone-implant interface

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Reviewer: Jozsef Piffko

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Although titanium is used in dental implantology currently, there is a trend to develop new ceramic-based implants as an alternative to titanium. Zirconia already used as a material for prosthetic devices because of its good mechanical and chemical properties also seems to be a suitable material for dental implants. The successful incorporation of dental implants strongly depends on firm longstanding adhesion of the tissues surrounding the implant. To investigate biological reactions at the bone implant interface in vivo tests are commonly used.

The study presented is interesting to readers interested in dental research and implantology.

A comparative in vivo study of zirconia and titanium implants inserted in the tibias of minipigs is presented. Data content and length of article are acceptable.

Level of interest: An article of importance in its field

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.