Reviewer’s report

Title: Definition, etiology, prevention and treatment of peri-implantitis - a review

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Reviewer: Jörg Günter Kurt Handschel

Reviewer’s report:

The submitted article “Definition, etiology, prevention and treatment of peri-implantitis – a review” provides a funded overview about current issues concerning peri-implantitis. Peri-implant infections are serious diseases, which can lead to several complications up to the loss of the dental implant. Therefore the topic is gaining increasing attention in research and matches the focus of “Head and Face”.

The review is well structured. The first part summarizes the most important and latest scientific facts to pathogenesis, etiology, epidemiology and risk factors.

In the second part non-surgical and surgical approaches for therapy of peri-implant infections are presented and discussed. Therapy options are compared as well as advantages and disadvantages elucidated. As a result of this the extent of the manuscript (almost 5100 words) is large but necessary to give an appropriate overview about this complex topic.

The review addresses practitioners in oral implantology, which are increasingly faced with peri-implant disease, and can be recommended after revision of some minor issues, which are listed below.

MINOR ESSENTIAL REVISIONS NEEDED!

Page 5:
“Implant loss can be differentiated on the basis …”

Page 7:
“The extent of re-osseointegration of titanium implants after …”

Page 9:
“The basic principles include the elimination the periimplant osseous defect using ostectomy and osteoplasty as (Figure 4 and 5).”

“Two years after open reduction of inflammed peri-implant soft tissue and osseous …”

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:
There are no competing interests!