Reviewer’s report

Title: Periodontitis associated with Plasminogen Deficiency: A Case Report

Version: 7 Date: 18 February 2015

Reviewer: Atsushi Saito

Reviewer’s report:

Referee comments

In this case report, the authors report the long-term clinical management of a patient with type I plasminogen deficiency.

Although it may be of interest to some audience, the following points have to be clarified before a decision regarding the publication can be reached.

Major compulsory revisions

1. Periodontal examination
   The results of full-mouth periodontal examination should be presented as figure charts.

2. Radiographical examination
   Rather than presenting many oral photographs, the authors should present the radiograph taken at the time of reevaluation following active periodontal therapy (full-mouth SRP+adjunctive antimicrobial therapy).

3. Diagnosis
   Please provide the diagnosis of periodontitis according to an appropriate periodontal disease classification.

4. Treatment
   Please provide the rationale for introducing this particular adjunctive antimicrobial treatment.
   Moreover, what was the rationale for selecting full-mouth disinfection? No discussion regarding this is provided.

5. Discussion
   This section is poorly organized. The authors failed to discuss the findings from the present study in relation to other studies. For example, how and why the authors perceive that treatment outcome of this particular case was superior? to those reported by others?

6. Figures
   Please consider reducing the number of oral photographs. Instead, the authors should present the charts of periodontal examination which indicate PPD, CAL
and BOP, etc... Also, post-treatment X-rays should be presented. Otherwise, no evidence of the improvement in periodontal condition can be discussed.

Minor essential revisions

Abstract
This section should be structured into the following three sections: Background, Case presentation and Conclusion.

p3 L16 “The reported therapy has significantly improved periodontal health...”
Please provide information regarding when this reevaluation was performed after “the reported therapy.”

p3 L23 “…and progressive attachment loss.”
No description regarding the attachment loss or bone resorption was provided in “Case report (should be Case presentation)” section.

p3 L25 “…and a strict supportive periodontal therapy regime (regimen?) “
No description regarding supportive periodontal therapy is provided in “Case report” section of the Abstract.

Background
This section is poorly organized. The authors should briefly describe plasminogen deficiency and its effect on the periodontal tissue, before introducing the present case. Also, appropriate reference should be given to such additional information.

p4 L5 “A patient with generalized aggressive periodontitis...”
It is unclear which patient this is. Please consider using “In this case report...”

p4 L10 “Plasminogen seems to play an important...”
This notion should be placed before the previous sentence regarding the efficacy of the treatment.

Case presentation
p5 L19 “…associated with plasminogen deficiency...”
Should be “…associated with PLG deficiency...”

p5 L19 “…surgical and non-surgical periodontal therapy alone...”
It is unclear what this “alone” means. If alone is also associated with “surgical”, does this mean that no non-surgical periodontal therapy was provided before “surgical” therapy?

p5 L22 “However, these treatments have failed...”
Please provide the reference to support this statement regarding treatment
failure.

Case report
p6 L7 “Class 3 mobility”
Please indicate the index for this.

p6 L27 “A microbiological analysis...”
The methodology regarding the microbiological analysis should be provided in more detail.

p7 L12 “…signs of arrested periodontitis (Fig. 5).”
In my view, an oral photograph does not indicate the arrest of periodontitis. Instead, the authors should consider providing the radiographic information.

Discussion
p7 L9 “…PPD and BOP were markedly reduced...”
This is rather a subjective statement. Please provide the data.

p7 L22 “However, in vitro data and.....periodontal destruction.”
Please indicate the references to support this statement.

p7 L24 “Local extracellular.....wound healing.”
Please provide the reference(s) to support this notion.

p8 L10 – p9 L13
Please consider reorganizing these paragraphs. The authors merely introduced findings from other studies and failed to discuss the findings from the present study in relation to these studies.

References
Please refer to the author guideline for appropriate format for presenting references (including the use of capitalization, abbreviation of the journal names, etc...) and revise the list extensively.

Figure legends
Figure 7 “direct restauration” should be “direct restoration”?

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

Quality of written English: Needs some language corrections before being published

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.