

Review Form 3

Journal Name:	Journal of Advances in Medicine and Medical Research
Manuscript Number:	Ms_JAMMR_121541
Title of the Manuscript:	Local effect of 1% metformin gel as an adjuvant in the periodontal treatment of patients with type II diabetes mellitus with periodontitis. Double-blind randomized clinical trial.
Type of the Article	Double-blind randomized clinical trial.

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	The author did the clinical study on diabetes mellitus patients who were on orally metformin tablet and evaluate the effect of periodontal treatment on these patients. It is a proven fact that PD and DM are both highly prevalent diseases and there is a bidirectional relationship between DM and periodontitis. Various studies are still going on with different concentration and percentage of metformin and tries to evaluate with more emphasis to establish the relationship of locally delivered metformin gel into the gingival sulcus or periodontal pocket at different stages of periodontal disease conditions.	
Is the title of the article suitable? (If not please suggest an alternative title)	In my opinion it is ok but if the author can elaborate the staging and grading of periodontitis then it will give more impact to the readers	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Abstract is comprehensive and is designed by the author in systematic manner	
Are subsections and structure of the manuscript appropriate?	Yes, it is appropriate but in the inclusion criteria the author enrolled the patients of periodontitis with all the stages with only grade B and C but did not include the grade A? Also the author did not mentioned the preparation of metformin gel whether it was purchased commercially or prepared in the pharmaceutical laboratory?	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	<ol style="list-style-type: none"> 1. Metformin increases the osteoblastic activity, aids in collagen formation. 2. Metformin can be used both orally and as a local drug delivery agent with different concentration and percentages. 3. MF activates osteoprotegerin and inhibits receptor-activated nuclear κ ligand activity in osteoblasts, thereby upregulating osteoblast differentiation and resulting in bone formation in periodontitis. 4. The author evaluated the clinical and haematological parameters along with quantification of cytokines in GCF. This study has an immunological and clinical aspects to correlated the effects of metformin in type 2 DM patients. 	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes, the references are sufficient and recent one.	
Minor REVISION comments		
Is the language/English quality of the article suitable for scholarly communications?	Yes	
Optional/General comments		

Review Form 3

PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Navneet Kaur
Department, University & Country	Baba Farid University of Health Sciences, National Dental College and Hospital, India