

This paper presents optimization of a dental implant using finite element analysis. The paper investigated the effect of design parameters in the distribution of stress. However, there are many published studies on the topic, this paper adds value to the field and can be accepted for publication once the authors revise the text as follows:

- 1- The title is too general. Title should be changed and reflect the objective of study
- 2- Many mistakes in use of English and paper needs proofreading
- 3- Paper lacks limitation of study
- 4- Specification of optimized implant is not clear and should be explained clearly
- 5- Dimensions in figure 1 is not clear
- 6- Author should follow template of journal. Fonts in some tables are not consistent

**Reply to reviewer (s):**

Dear reviewer (s). I appreciate your useful comments. The revision has been done according to your comments as follows:

- 1- The title was changed to:

Effect of Design Parameters of Dental Implant on Stress Distribution: A Finite Element Analysis

- 2- Proofreading was done and errors were removed.

- 3- A paragraph was added at the end of discussion section about limitations of study as follow:

Several limitations were observed in this study. Using oblique loading and bending moment in FEA may present more reliable results. Furthermore, using different bone types may support the contribution of the optimized implant stronger. A wide range of recommendations can be stated for future extensions of the introduced approach in this study. Surface roughness can be analyzed to increase the contact area in the interface. The effect of the design parameters of implants can be investigated on fatigue endurance. By using glue and composite materials, the long life expectancy of dental implants can be analyzed.

- 4- A table was added in materials and method section to summarize specification of optimized implant as follow:

**Table 2:** Specification of designed (V-5) implant

Abutment Connection	Apical Features	Apical Shape	Body Feature	Body Shape	Cervical Feature	Cervical Shape
Eternal	Grooved	Flat apex	Threaded	Tapered	Polished Surface	Wider than body

5- Figure 1 was improved and dimensions got bigger

6- Paper was arranged according to template of journal. Fonts in all tables were gotten consistent