

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_124045
Title of the Manuscript:	LOW-LEVEL LASER THERAPY: A REVIEW OF ITS APPLICATIONS AND EFFECTIVENESS IN HEALTH, GENERAL DENTISTRY, AND ENDODONTICS
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>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.</p>	<p>First of all, the systematic review of the paper is very good, and the integrative approach is also very good, since the laser has specifications in all specialties of dentistry and medicine increasingly, whose interaction takes place in all tissues.</p> <p>Today we cannot avoid the premise that the laser generates important benefits in patients, due to biophotomodulation, indirect (high power lasers)</p> <p>direct (low power lasers)</p> <p>I have two suggestions that may cause confusion, the first is: in the third paragraph of items 3.2 Laser in General Dentistry</p> <p>(For patients with dentin hypersensitivity, LLLT effectively reduces pain through its biostimulating action on nerve endings. In dental whitening, the use of infrared light beams with wavelengths of 660 and 810 nm has improved desensitization results [18].)</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>LOW INTENSITY LASER THERAPY: A REVIEW OF ITS APPLICATIONS AND EFFECTIVENESS IN HEALTH, GENERAL DENTISTRY AND ENDODONTICS</p>	
<p>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.</p>	<p>The second suggestion is found in items 3.2 Laser in endodontics</p> <p>However, in vitro testing has shown that while laser-activated irrigation (LAI) with a wavelength of 2,940 nm using saline did not completely eliminate microorganisms, LAI with NaOCl did, suggesting that diode lasers should serve as a complement rather than a replacement for conventional methods.</p> <p>The 660 nm wavelength is a visible monochromatic wavelength of Red color, the 810 nm wavelength is invisible infrared.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The publication talks about low-power laser therapy and in the previous paragraph it names 2,940 nm laser (high-power laser) which would clarify what high-power laser is, which is confusing for those who are not in the know.</p>	

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<p>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.</p>	<p>There are numerous publications, but one scholar in the field, Dr. Norbert Gutknecht, with a 2008 publication, This article describes and analyzes the use of Nd:YAG and diode lasers in endodontics. A review of studies in the field of laser use in endodontics clearly shows that Nd:YAG laser treatments can effectively replace conventional techniques. In particular, their improved disinfectant efficacy, more effective root canal cleaning, reduced permeability, reduced microleakage and elimination of the need to use toxic solvents represent the main advantages for patients and dentists. The use of lasers in endodontic therapy has been widely studied over the past 15 years. Laser treatments have been shown to have many advantages over conventional methods. The results suggest that the laser is an effective tool for the removal of debris, smear layer and filling materials, as well as being an effective disinfection tool.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. =</p>	<p>Finally, we are in the era of combinations of various wavelengths, to enhance the photobiomodulatory effects of lasers on different tissues, I think that is the way to go.</p>	
<p><u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?</p>		
<p><u>Optional/General</u> comments</p>		

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (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)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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