

Review of: "“Quantum Jump” and Their Effects on the Photo Whitening Technique"

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Potential competing interests: No potential competing interests to declare.

Dear authors,

This is an interesting overview of the use of violet light on tooth whitening. Please find below some suggestions:

1. Review the Materials and Methods section. Probably, there was a mistyping from another section.
2. It would be interesting to avoid strong sentences such as: The fundamentals of photonic whitening with violet light are based on quantum mechanics, which is fully accepted by modern science.
3. It is necessary to state that violet light used alone does not reach the efficacy observed for high-concentrated HP, as observed in some Randomized Clinical Trials.
4. The sentence “Collaboration with researchers from other institutions renowned companies point out that currently teeth whitening using violet light with or without peroxide gels in different concentrations is the most innovative technique for teeth whitening, as well as the one with the fewest side effects in dental aesthetics.” should be rethought because the references cited are not enough to confirm that.
5. Please provide references to attest to such a sentence: “Colorimetric and spectrophotometric tests were performed and suggest that this violet system, with a wavelength of 408nm, produced better results than other sources usually used in teeth whitening.”
6. When it comes to the following sentence: “The results indicated that, when associated with a peroxide solution or gel, the use of violet light promotes a teeth-whitening effect after a short clinical session in the dental office, decreasing pain sensitivity during and after the clinical procedure. That indicates less physical aggression to the tooth surface, no aggression to the oral soft tissues, and it allows for more frequent clinical sessions without harming teeth or soft tissues.” Which study are the authors talking about?
7. Some parts of the text are disconnected. I advise a new round of reading and checking for minor English mistakes.