

# Review of: "[Mini Review Article] Practicality of Piezo Surgery in Periodontics"

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**Potential competing interests:** No potential competing interests to declare.

The written document gives a thorough summary of piezoelectric tools, with particular emphasis on Piezosurgery. It provides practical applications for clinical care.

**Improvements in language and structure:** The document needs major linguistic enhancements. The present layout does not have clear language and correct grammar. Make sure that the levels of similarity and plagiarism are kept within acceptable boundaries.

**Approval for ethical considerations:** There is no official documentation for confirming the ethics methodology. Including this is necessary to improve the study's credibility.

**Design of the study:** The research query does not adhere to a standardized set of criteria. It must be clearly outlined in order to comply with (systematic) review criteria. There is a need for bias assessment; a bias graph risk should be shown. The methods used to collect data are not described, and the accuracy of the data is not confirmed (e.g., criteria for including/excluding data, bias in selection).

**Advantages and Disadvantages:** The mini-review does not discuss its strengths and weaknesses. These issues need to be thoroughly tackled. Insufficient explanation is provided in the discussion section regarding how the sample size calculation method was determined and the influence of non-English papers on the review's findings.

**Substance and coherence:** The introduction does not have a clearly defined purpose or background. The document lacks visual aids such as figures to improve comprehension. The benefits and drawbacks of Piezosurgery are not clearly specified.

**Technical specifications:** Clarify acronyms like ENDO and PERIO programs or provide more details about them. Explain how the authors determined that the resonance tip will exhibit solely linear movements. Explain how Piezosurgery distinguishes between dense and spongy bone.

**Uses and Contrasts:** The article needs to cover key uses of piezoelectric devices, like orthodontic applications and split crest, which are currently missing. Contrast Piezosurgery with alternative surgical techniques, including oscillating saws and other commercial ultrasonic devices such as NSK or WH systems.

**Illustrative tools:** The manuscript would greatly benefit from the inclusion of visuals or illustrations demonstrating the Piezosurgery device and how it is used, which would improve readability and reader engagement.

Overall, the manuscript introduces Piezosurgery and its uses in periodontics but lacks in various aspects. There is a lack of depth in analyzing mechanisms, biological processes, and significant applications. It needs to be modified to incorporate these enhancements, guaranteeing its clarity, conciseness, and informativeness. This will increase its worth to the scientific community and boost its potential influence.