

REVIEWER'S REPORT

Manuscript No.: IJAR-58214

Title: *Evaluation of the Etching Patterns after Three Different Etching Techniques on Buccal Enamel: An In-vitro Study*

Recommendation:

- Accept as it is
 ✓ Accept after minor revision.....
 Accept after major revision
 Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance	✓			

Reviewer Name: Dr S. K. Nath

Detailed Reviewer's Report

Strength of the study:

- The study evaluates a clinically relevant orthodontic bonding technique
- Clear objective with comparison of three etching methods
- Standardized in vitro experimental design was followed
- Scanning electron microscopy provided detailed surface evaluation
- Statistical analysis supports the reported findings
- Results are presented with clear tables and SEM images
- The findings have practical relevance for orthodontic practice

Weakness of the study:

- Sample size is relatively small for broader conclusions
- Ethical approval for the use of extracted teeth is not clearly mentioned
- The methodology requires more detail regarding randomization
- Minor grammatical and typographical errors need correction
- Discussion could include more recent supporting literature
- Bond strength was not directly evaluated in this study
- Reference formatting is inconsistent in several sections

Reviewers Comments:

The manuscript presents an interesting in vitro comparison of three enamel etching techniques used before orthodontic bonding. The study addresses a relevant clinical question, and the use of scanning electron microscopy provides valuable information regarding enamel surface characteristics. The methodology is generally appropriate, and the statistical analysis supports the conclusions drawn by the authors. The manuscript is organized in a logical manner, although several grammatical errors, formatting inconsistencies, and repetitive statements should be corrected to improve readability. The authors should clearly mention ethical committee approval or institutional permission for the use of extracted human teeth, even for an in vitro investigation. The relatively small sample size and the absence of direct bond strength evaluation should be discussed more clearly as study limitations. Including additional recent references would further strengthen the discussion. Overall, the manuscript is informative and clinically relevant and can be considered for publication after minor revision.

Previously Published anywhere/Plagiarism check:

The manuscript appears to be an original in vitro research study, and no obvious evidence of previous publication or duplicate submission was identified during this review. No apparent plagiarism concerns were observed. However, the journal should perform a routine plagiarism similarity check before publication to confirm originality and ensure compliance with publication ethics.