

COMMENTARY

The Effect of Ultrasonic Instruments on the Quality of Preparation Margins and Bonding to Dentin¹

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This is an important paper of good originality and is a contribution to the field. It reports a detailed study of "the effect of ultrasonic instruments on the quality of preparation margins and bonding to dentin."¹

Ultrasonic instruments clearly are here to stay. As the authors have shown, they can provide clear finish lines with smooth margins with relative ease. However, these instruments and their attachments are relatively costly, which may be prohibitive for widespread use.

The authors have shown that ultrasonic instruments can produce finer margins than those prepared with diamond burs. However, it would have been interesting to compare marginal finish with a white stone as the last in the series for group 2. Extremely smooth margins can be achieved with both techniques. However, a diligent clinician may consider using both ultrasonic instruments as well as diamond burs for clinical use. However, it should be noted that each method has relative contraindications and limitations.

It was interesting to see the acceptable results on dentin bonding after tooth preparation with ultrasonic instruments. This observation is an important finding as dentin bonding is an important part of contemporary practice, which follows tooth preparation.

REFERENCE

1. Ellis R, Bennani V, Purton D, et al. The effect of ultrasonic instruments on the quality of preparation margins and bonding to dentin. *J Esthet Restor Dent* DOI 10.1111/j.1708-8240.2011.00495.x.

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