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COMMENTARY

DENTINAL BONDING REACHES THE ROOT CANAL SYSTEM

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The authors have approached the problem of endodontic therapy success with a technique and material to improve the seal of the root canal system from apex to coronal tooth structure. Although gutta-percha has been used for many years as the root canal filling material of choice, the development of an adhesive, resin-based filling material with better properties would increase the potential for successful results. An improved interface with the dentinal walls and root canal filling material decreases bacterial microleakage.

Resilon is nontoxic, and the material has earned approval from the US Food and Drug Administration. The sealing efficacy of Resilon with Epiphany sealant has been shown to be superior to that of gutta-percha with various sealers and techniques. The Resilon core bonds to the tooth structure to form a monoblock, which improves the strength of the tooth.

This new material can be used with different condensation techniques; it is adaptable to lateral condensation, vertical condensation, Obtura heated technique, or mechanical compaction. Resilon with Epiphany sealer has been used in our practice over the past 6 months as the root canal filling material of choice for over 800 patients. Initially encouraging results will nurture further investigation of this most promising new root canal filling material and technique.

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