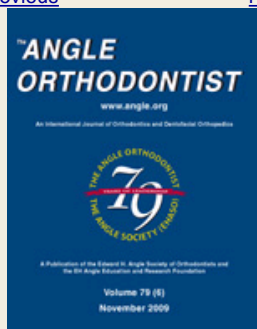


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Original Articles

## Effects of Corticision on Paradental Remodeling in Orthodontic Tooth Movement

Su-Jung Kim<sup>a</sup>, Young-Guk Park<sup>b</sup>, and Seung-Goo Kang<sup>a</sup>

### Abstract

**Objective:** To investigate the biologic effects of Corticision on alveolar remodeling in orthodontic tooth movement.

**Materials and Methods:** In this study, 16 cats were divided into 3 groups: group A, only orthodontic force (control); group B, orthodontic force plus Corticision; and group C, orthodontic force plus Corticision and periodic mobilization. Histologic and histomorphometric studies were performed on tissue specimens on days 7, 14, 21, and 28.

**Results:** Extensive direct resorption of bundle bone with less hyalinization and more rapid removal of hyalinized tissue were observed in group B. The accumulated mean apposition area of new bone on day 28 was observed to be 3.5-fold higher in group B than in the control group A.

**Conclusions:** Corticision might be an efficient procedure for accelerating orthodontic tooth movement accompanied with alveolar bone remodeling.

**Keywords:** [Corticision](#), [Regional acceleratory phenomenon \(RAP\)](#), [Alveolar remodeling](#), [Tooth movement](#)

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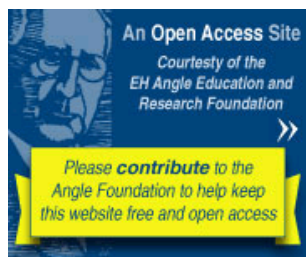
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