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### COVER

**On the cover:** Micro-osteoperforations (MOPs) are thought to increase the rate of tooth movement by initiating the regional acceleratory phenomenon and promoting bone turnover. Both the clinical and experimental literature evaluating the effectiveness of the MOPs remains controversial, and the short-term effects of MOPs on cortical and trabecular bone have not been investigated. van Gemert et al, working at the Texas A&M University College of Dentistry, Dallas, Texas, sought to evaluate the amount of damage induced by MOPs and to quantify the extent of the subsequent remodeling that occurred in and around the injuries. They evaluated bone hardness and used 3D reconstructions of bone block specimens. Areas of interest in cortical and trabecular specimens were defined with a series of 3D spheres that began at the edge of the MOP and radiated outward. They found that demineralization was transient, and healing of the injured area, as well as remineralization of bone affected by MOP placement, began during the first 2 weeks. The smiling patient on the cover is Morgan Rogers. She was treated orthodontically by Dr Ryan Jeffery Cox, Pridemore and Cox, Rome, Georgia.

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