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COVER

On the cover: Invisalign clear aligners are an increasingly popular alternative to traditional brackets and wires for orthodontic treatment. Technological advances, including more efficient aligner materials, have led to improved outcomes for patients treated with clear aligners. Even so, clinicians still find that a refinement stage is sometimes necessary at the end of treatment. Charalampakis and colleagues at Saint Louis University collected initial, predicted, and achieved digital models of 20 Invisalign patients to assess the accuracy of horizontal and vertical movements, rotations, and transverse changes. They found that while horizontal movements of the teeth were reliably achieved, rotations and vertical movements did not fare as well. Achieved movements differed significantly from predicted values, especially for rotation of the canines and intrusion of incisors. The smiling patient on the cover is Jason Kushy, who was treated orthodontically by Drs Gregg and Daniel Frey, of FreySmiles Orthodontics, Allentown, Pa.

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