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COVER

On the cover: Bone-borne palatal expansion relies on mini-implant stability for successful orthopedic expansion. The large magnitude of applied force experienced by mini-implants during bone-borne expansion may lead to high failure rates, so new approaches to improve mini-implant stability during bone-borne expansion are needed. For orthodontic tooth movement, bicortical mini-implant anchorage has been found to be biomechanically more favorable than monocortical anchorage. Bone-borne expanders, which have heavy anchorage requirements, may also benefit from bicortical anchorage but has not yet been explored in existing literature. Lee et al used finite element analysis to analyze and compare the effects of bicortical and monocortical anchorage on stress distribution and displacement during bone-borne palatal expansion. The smiling patient on the cover is Myah Sarwar, who was treated orthodontically by Drs Gregg, Scott, and Daniel Frey, of FreySmiles Orthodontics, in Schnecksville, Pennsylvania.

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