New research in accelerated orthodontics

Tooth Movement

Editors: Alpdogan Kantarci Leslie Will Stephen Yen

With the intention of improving the rate, quality, and stability of orthodontic tooth movement, those in the field are now moving toward accomplishing this ‘acceleration’ with minimally or non-invasive methods. New procedures have been widely tested in humans, animal models, and in vitro. While interest is growing both in the industry and at the clinical level, the understanding of the biology is limited. Considering that a simple increase in force will result in tooth morbidity and arrest of the tooth migration, a multi-disciplinary approach is critical for success.

This publication brings together multi-disciplinary expertise on a wide variety of processes related to and involved in orthodontic tooth movement. The premise is that, by better understanding the biological structures and the mechanism through which they respond to biomechanical forces, one can get a better assessment of the ‘acceleration’. This work presents research aimed at an improved understanding of conventional and accelerated orthodontic tooth movement from a biological perspective and will be of great value to clinicians, researchers, academics, and students.
The past two decades have witnessed a rapid advance in the theoretical and technical development of dental and oral medicine, coupled with a substantial increase in the qualitative and quantitative demands made upon dentists by their patients. This series is designed for today’s dentists who, because of the growing scope of their field, must display more than just a familiarity with all areas of oral physiology, whether fundamental or highly specialized. The series has received repeated praise for its systematic and well-referenced treatment of vital topics.

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