Study: The effects of over-the-counter analgesics on orthodontic tooth movement

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The most frequently asked question in every orthodontic office may be: “When are my braces coming off?” In the fast-paced, busy lives of patients, there is little time to spend on lengthy orthodontic therapy. In the ever-advancing field of orthodontics, many barriers have been overcome, leading to healthier results and more beautiful smiles. Now, the focus is on reducing treatment time (Prof-it, 2013). Faster care without sacrificing quality would be advantageous in (a) reducing hygiene problems, (b) increasing patient acceptance of treatment plans and (c) creating a higher level of overall treatment satisfaction. This new focus can be seen through the development of techniques such as the accelerated osteogenic orthodontics known as Wilckodontics and the micropulse technology seen in AcceleDent (Kau, 2011).

With the emphasis on shortening treatment time, it is critical that practitioners be aware of all medications.

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Fig. 1: Alveolar bone from pressure zone of rat treated with ibuprofen/aspirin. Note small resorption areas (r), with few osteoblasts (ob), osteoclasts (oc), and osteocytes (os) in osseous matrix (m). Photos/Drs. Arias and Marquez-Orozco

Fig. 2: Alveolar bone from pressure zone of rat treated with acetaminophen/control. Note large resorption areas (r), many osteoblasts (ob), differentiated osteoclasts (oc) and osteocytes (os) on growth lines (c) in osseous matrix (m).

The 2013 Midwestern Society of Orthodontists Annual Session will take place Sept. 20–22 at the Sheraton Kansas City Hotel at Crown Center in Kansas City, Mo. This year’s session will be co-sponsored by the Missouri Society of Orthodontists and the South Dakota Society of Orthodontists.

The focus of this year’s meeting is “Orthodontics: A Palette of Progress.”

The group aims for attendees to learn the latest research and esthetics from scientific lecturers including Drs. Mark Berkman, Aaron Molen, Chung Kau, Sebastian Baumgaertel and Abraham Lifshitz.

Marketing and management will be covered in a staff program featuring Amy Kirsch and Cathy Sundvall.

On Sunday, a doctor-staff lecture will focus on improving social media results with marketing and search engine optimization speaker Mary Kay Miller.

Attendees are also invited to tailgate with staff, family and colleagues in the MSO-private Budweiser Patio at the Saturday evening Royals vs. Rangers baseball game. Separate registration includes bus shuttle and complimentary buffet.

For more information on the annual meeting schedule and registration, visit www.msortho.org.