Multidisciplinary assessment of ortho treatment outcomes for the adult mutilated dentition

By Katie E. Miettunen, DDS, MS, and Orhan C. Tuncay, DMD

Abstract
Guidelines to evaluate adult orthodontic treatment outcomes do not exist. In this study, orthodontists, periodontists and restorative dentists examined the pre- and post-treatment records of 10 adult mutilated dentition orthodontic patients. Study design employed both quantitative and qualitative research methods.

Two questionnaires were used to collect the data. The first was a visual analogue scale (VAS) to assess the overall result, occlusion, periodontal health, restorability, case difficulty and the degree of influence of American Board of Orthodontics (ABO) standards in participants’ judgment.

The second questionnaire asked open-ended questions related to orthodontic treatment outcome. The study results were: 1) periodontists and restorative dentists rated treatment results higher than orthodontists, 2) all specialists rate preferred orthodontic outcomes in the following order of importance: esthetics, occlusion, restorability, periodontal health and stability.

Background
In the absence of adult treatment guidelines, judgment of adult treatment outcomes is prejudiced by adolescent treatment guidelines of the American Board of Orthodontics (ABO). The Objective Grading System (OGS) used by the ABO relies on anatomical landmarks such as incisal edges, cusp tips, marginal ridges, etc. These landmarks are not easily identified in an adult dentition that exhibits worn incisal edges and cusp tips, restorations and/or missing teeth.
**TREATS, Page 1**

- It’ll feel like you’re at the beach when you stop by the OrthoBanc booth (No. 435), which features one of the most unique booth spaces you have ever seen — complete with pseudo-sand flooring, a tiki hut and traditional beach smells. Stop by and have a smoothie and enter a $100 drawing by registering to attend an OrthoBanc event.

- Stop by the Solomon Orthodontic Systems booth (No. 332) to have your picture taken with “Smeethy.” The staff will e-mail you a copy of the picture, and you can talk to them about innovative solutions and creative products for your practice.

- At the tops Software booth (No. 475), you can pick up some cool pins with self-affirming statements such as, “I Rock,” and “Sexy and I Know It” as well as a hot-squishy toy brain while you’re there.

- Visit the Crest Oral-B, booth No. 1307, where you can receive a sample of the OrthoEssentials bag, which includes PRO-HEALTH System products. You’ll find additional booth incentives with purchase, such as big savings.

- Dr. Fresh (booth No. 1557) has all the coolest handout products, such as Angry Birds and Hello Kitty toothbrushes. You’ll especially want to check out its Orthodontic Travel Bottle Kit, which includes a toothbrush, mirror, timer, floss, proxy brush and wax, and the pediatric product box, which includes a V-trim toothbrush, travel toothbrush, floss, mirror, floss threaders, proxy brush case, mint wax and a two-minute timer.

- If you’ve brought your children to check out the AAO this year, you’re sure to find yourself at the KidSpace Interactive booth (No. 1941), where they can play some of the newest video games available for office waiting rooms. While you’re there, enter the free drawing to win an Xbox 360 Kinect Game System.

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Here at the AAO: What to know

What
American Association of Orthodontists’ 112th Annual Session

When
Today through Tuesday

Where
Hawaii Convention Center, 1801 Kalakaua Ave., Honolulu

Online
www.aaomembers.org/mtgs/2012-AAO-Annual-Session.cfm

Exhibit hall hours
The exhibit hall is located in Level 1 of the Hawaii Convention Center.
• 8 a.m.–3:30 p.m. today and Monday
• 8 a.m.–2 p.m. Tuesday

Table clinics
7:30 a.m.–2:30 p.m. today, Monday and Tuesday

Scientific posterboard exhibits
9–11 a.m. today

Attire
The official dress code of the AAO is “Aloha Wear,” which includes aloha shirts, khakis and loafers for men and aloha shirts, khakis, skirts, city shorts, dresses, loafers and sandals for women.

C.E. Pavilion
While attending the AAO, record the lectures you attend and print your C.E. hours report at the C.E. Pavilion on the Level 3 Breezeway.

Shuttle schedule
The AAO shuttles will operate at 15-minute intervals in the mornings from 6 a.m. to 9 a.m. and late afternoons from 1 p.m. to 3:30 p.m., and at 30-minute intervals during mid-day from 9 a.m. to 1 p.m. every day.

The following hotels will have shuttle service: Hilton Hawaiian Village, Courtyard, Doubletree, Embassy Suites, Hilton Waikiki Beach, Hyatt Regency, Moana Surfrider, Royal Hawaiian, Sheraton Princess, Sheraton Waikiki and Waikiki Beach Marriott.

Please refer to the shuttle signage, which will be posted in each shuttle hotel, for hours of operation and special event details. Routing and pickup locations are subject to change.

Camp AAO
Children 6 months to 12 years old are welcome to participate in the Camp AAO on-site program. The activity center will be located at the Hawaii Convention Center, Room 321, and will be open daily.

Children ages 6 to 12 have the opportunity to participate in educational youth tours as well. The tours depart and return to the on-site activity center each day.

Those children participating in tours also have the option to sign up for hourly on-site attendance prior to and following the tour. An hourly rate will apply. The youth tour program will include visits to Waikiki Aquarium, Honolulu Zoo, Bishop Museum, Dole Pineapple Plantation and the Hawaii Children’s Discovery Center.

Professional lecture recordings
Most of the lectures presented at this conference will be audio recorded and available as a package set on a DVD ROM in MP3 format. Most of these recorded lectures will also include the speaker’s screen presentation as an integrated synchronized file.

On-site orders will be available for $158 (includes shipping).

Giving back
Annual session attendees will have an opportunity to “give back” to the Honolulu community by aiding hungry residents of Oahu. The annual session “Virtual Food Bank” kiosk on Level 2 of the Convention Center will accept contributions and provide receipts for donations. All funds contributed will go to a local food bank.

Camp AAO activity center hours are from 6:30 a.m.–3 p.m. daily. Youth tour hours are 9 a.m.–12:30 p.m. daily.

For more information, visit www.accentregister.com/register/campAAO12 or call (804) 524-0188.

Many adults have poorly aligned teeth and would like orthodontic treatment. The majority of these patients do not want to wear braces.

For over 20 years Myofunctional Research Co., Inc. have developed orthodontic appliances to improve the dental and facial development of children, using myofunctional orthodontic techniques.

Due to increasing demand, the all new MYOBRACE for Adults™ appliance system has been created. This is designed to correct orthodontic problems by assisting the treatment of the myofunctional causes and simultaneously aligning the teeth.

How it Works
• The appliances are made in the ideal arch form to assist in the correction of natural arch development by applying light forces to the anterior teeth.
• The extended lip bumper retainer reestablishes perioral muscular assistance allowing anterior tooth alignment.
• The tongue-tie tag trains the correct position which independently expands the maxillary arch.

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