FDA: Migraine drug ups risk for oral birth defects

Johnson & Johnson’s Topamax, are about 20 times more likely to have their infants develop cleft palate deformities than those who are not treated.

An epilepsy drug also used to help prevent migraines can increase the risk for oral birth defects in babies born to women taking the medication. The Food and Drug Administration said new data shows expecting mothers taking the drug, sold generically and as Johnson & Johnson’s Topamax, are about 20 times more likely to have their infants develop cleft lips or cleft palate deformities than those who are not treated.

Officials called on doctors to warn their female patients of childbearing age who are taking the medicine about its risks since the defects occur in the first three months of pregnancy, before women may know they are expecting. FDA’s Russell Katz, who heads the agency’s Division of Neurology Products, said doctors should think carefully before prescribing the drug to women of childbearing age and “alternative medications that have a lower risk of birth defects should be considered.” The conditions can lead to multiple development issues because they can make it nearly impossible for babies to get adequate nutrition. They can be corrected with surgery, although sometimes several operations are needed.

The data showed cleft lips or palates occurred in 1.4 percent of babies exposed to Topamax or generic rivals compared to between 0.38 percent and 0.55 percent in infants whose mothers took other drugs for epilepsy, FDA said. The defect occurs in about 0.07 percent of infants whose mothers are not on any such medication.

In a statement, J&J said Topamax’s label already notes the risks with pregnancy and “recommended cautious use in pregnant patients.” It said it would work with the FDA to clarify the drug’s use during pregnancy.

Topamax is expected to bring $569 million in worldwide revenue for the diversified drug maker in 2010, according to Thomson Reuters data. At its peak, the drug took in more than $2.7 billion in 2008, before rivals arrived in 2009.

FDA issued the warning based on data collected from the North American Antiepileptic Drug Pregnancy Registry.

Dentists at risk for hearing loss

Everyone knows there are certain jobs that carry a risk for loss of hearing. Rock musicians come immediately to mind. So do construction workers who use jackhammers. And don’t forget the people who use those yellow flashlights to direct planes at airports. According to a recent study, dentists can also consider themselves among those at risk for ear trouble.

□ Most individuals would not consider a dental office to be a place where noise is a problem, but the federal Occupational Safety and Health Administration (OSHA) warns that any workers exposed to noise levels in excess of 85 decibels are at risk.

□ The exposure to continuous high frequencies from a dental drill can degrade one’s hearing. According to the experts, dental

Promedica Dental Material GmbH
Tel: +49 4321 / 54173 · Fax: +49 4321 / 55518
Internet: http://www.promedica.de · eMail: info@promedica.de

Promedica Dental Material GmbH
Tel: +49 4321 / 54173 · Fax: +49 4321 / 55518
Internet: http://www.promedica.de · eMail: info@promedica.de

Promedica Dental Material GmbH
Tel: +49 4321 / 54173 · Fax: +49 4321 / 55518
Internet: http://www.promedica.de · eMail: info@promedica.de
The main cause of oral and facial trauma in the UAE is road traffic accidents. Contrary to many parts of the world where the incidence of injury from road traffic accidents has decreased, statistics show that road traffic accidents are still the main cause of facial trauma. While seat belt use is increasingly prevalent in the UAE, the increase in facial trauma caused by road accidents may be attributed to the size of the car or the speed of the vehicles.

Incidentally, recent improvement in initial resuscitation procedures at the accident site has resulted in more trauma victims being rescued and brought to the hospital for treatment rather than perishing in the accident. Oral and facial trauma, as well as updates in maxillofacial reconstruction, oral cancer, microvascular surgery, facial cosmetic and orthognathic surgery will be reviewed at the 2nd Oral and Maxillofacial Surgery Congress to be held at the Westin Dubai Mina Seyahi hotel in Dubai from 1 – 5 May 2011. Organised by Imedex in association with Arab Health, this year’s meeting will provide a number of new features that explore the rapidly reshaping field of oral and maxillofacial surgery.

“A unique type of facial trauma is fall from heights” says Dr Khaleed Ghandour, Head of Oral and Maxillofacial Surgery Department, Dubai Health Authority and speaker at the Oral and Maxillofacial Surgery Congress to be held at the Westin Dubai Mina Seyahi hotel in Dubai from 1 – 5 May 2011. Organised by Imedex in association with Arab Health, this year’s meeting will provide a number of new features that explore the rapidly reshaping field of oral and maxillofacial surgery.

“Treatment for facial trauma in the UAE is very advanced and with the high number of surgery cases treated annually, UAE is one of the leading treatment centres in the world,” Dr Ghandour explains.

“Dubai’s Rashid Hospital, which is one of four specialist trauma treatment centres in the UAE, will treat up to 400 facial trauma patients a year requiring surgery or less invasive emergency treatment.”

Other conditions requiring oral and maxillofacial surgery are congenital and birth deformities such as a cleft palate or cleft lip. This requires secondary and tertiary surgery and many years of intensive treatment to correct the condition. Tumors and oral facial pathology also make up a number of oral surgery cases in the UAE.
New option for missing teeth

For many years, people with chronic dental problems or missing teeth had limited options. They could continue with the endless cycle and expense of root canals, crowns and other restorations; live with the chewing, speaking and comfort problems often associated with dentures; or pay the extremely high costs of dental implants.

Now Drs. Andrew Spector and Michael Migdal, practitioners in Haworth, N.J., have long been at the forefront of dental implant technology, as one of a relative handful of dentists throughout the country (and the only ones in the New York metropolitan area) to offer patients the benefits of “permanent teeth” at about half to one-third the cost of implants, and in a fraction of the time.

Hybridge™ — a hybrid bridge system — is a mix between a conventional fixed bridge and a denture. Unlike a conventional bridge made of metal and porcelain, the system uses a resin and monomer base restoration that replaces up to 12 teeth and is supported on five or six dental implants. It is not intended for people requiring single tooth implants, but rather sectional or complete mouth restorations.

The teeth look, feel and function just like healthy, natural teeth and last a lifetime.

As with conventional implants and unlike dentures, they sit on implants rather than the gum line for greater comfort, allowing people to eat and chew as they would with their own teeth, and stimulate the jawbone (thereby preventing the “caved in” look found in people with years of denture wearing).

While a fixed bridge or removable dentures works for cosmetic reasons, and allows the individual to eat and speak clearly, they also pose restrictions — fixed bridges require the filing down of healthy teeth, can weaken adjacent teeth and inhibit maintenance (e.g., you can’t floss between them). Meanwhile, removable dentures can slip, cause embarrassing clicking sounds and lead to bone loss around teeth they are hooked onto.

“The efficiency and precision of the fabrication with the Hybridge system allows us to keep the fee far lower than traditional implant treatment for those patients who need to replace an entire upper or lower archway,” said Spector, who has been at the forefront of dental implants for many years and taught implantology at NYU Dental School.

“While dental implants remain the ‘gold standard’ for patients replacing single teeth, the cost makes them prohibitive for many who require full mouth or arch restoration, as many older people do.”

Patients for the Hybridge system tend to be older, according to the American Association of Oral and Maxillofacial Surgeons, and by age 74 more than one in four American adults have lost all their permanent teeth.

Yet, Spector said that he has also recommended Hybridge for patients who have lost their teeth as a result of early periodontal disease, traumatic injuries and eating disorders, such as bulimia, which cause tooth decay.

Qatar set for new oral health strategy

Qatar’s Supreme Council of Health (SCH) is creating a national oral health strategy.

The strategy is expected to be formulated after completing a nationwide survey on oral health among children and teenagers. Dental caries and periodontal diseases are the most prevalent among schoolchildren and teenagers in the Gulf State.

The study, which will begin in the last quarter of this year, will help improve the existing oral health services and programmes in the country as well as assist to monitor the trends of oral and dental diseases in the country, SCH said.

Two hospitals shut down in Riyadh

Two hospitals in the Saudi capital have been temporarily shut down by the Directorate General of Health Affairs due to violations related to equipment and professional staff, Saudi Gazette has reported.

Dental professionals should use protective hearing devices.

Other professions that carry risk for hearing impairment are aviation, construction and anything that involves the use of firing guns, such as military and law enforcement careers.

According to the National Institute of Deafness, 56 million Americans suffer from hearing loss, and those exposed to loud and high-frequency noises are most at risk.

In most instances, individuals in the workplace do not test their hearing until after damage occurs. Hearing aid technology can help after damage has already occurred, but professionals recommend hearing protection if working in an environment with exposure to loud sounds.

There are many businesses, such as The Tactical Hearing Co., that offer high-performance digital hearing enhancement and protection.

Tactical Hearing Co. uses the latest advanced technologies and offers affordable hearing devices that can be used in the industries of dentistry as well as construction, aviation, military and law enforcement, target shooting and hunting.

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Good news for women who like to start the day with a cup of coffee; scientists say it may significantly reduce your chances of having a stroke.

In a study published in the Journal of the American Heart Association (JAMA), Swedish researchers found that women who drank more than a cup of coffee a day cut their risk of stroke by 22 to 25 per cent.

Stroke is a major cause of early death in the UK, along with heart disease and cancer.

The researchers looked at data from more than 54,000 women aged between 40 to 85 whose health had been tracked for around 10 years. After taking into account other risk factors, such as smoking status, body mass index, history of diabetes, high blood pressure and alcohol, coffee consumption was linked to a statistically significant reduced risk of different types of stroke.

The benefit of drinking coffee was the same whether the women drank one to two or several cups of coffee each day.

The researchers said people should not change their coffee-drinking habits, but the study should ease the concerns of women.

"Some women have avoided consuming coffee because they have thought it is unhealthy," said study leader Dr Susanna Larson from the Karolinska Institute.

"In fact, increasing evidence indicates that moderate coffee consumption may decrease the risk of some diseases such as diabetes, liver cancer and possibly stroke."

She also said that drinking coffee may cut the risk of stroke by reducing inflammation and oxidative stress and improving insulin sensitivity.

Dr Sharlin Ahmed, research liaison officer at The Stroke Association, said, "We have known for some time that antioxidants found in certain foods and drink, including coffee, could help to reduce a person’s stroke risk. This research provides further support to this theory.

"However, it’s important to note that caffeine intake can also contribute to high blood pressure, the single biggest risk factor for stroke. We therefore recommend moderate to low-level consumption of coffee as part of a healthy balanced diet combined with regular exercise to help reduce your overall stroke risk."

Device lets patients rest from dental drill

Noise-cancelling technology could soon be available in dental practices. Clinicians from the Kings College in London in the UK said to have invented a device that blocks out the shrill sound generated by air turbines in modern dental handpieces, a main cause for anxiety among patients.
Protein Could Improve Dental Implants

Using a bone-creating protein to augment the maxillary sinus could improve dental implant success, according to Georgia Health Sciences University researchers.

Dental implants, screws that anchor permanent prosthetic teeth, won’t work if the bone in which they are anchored is too thin. Bone-thinning is a common cause and consequence following tooth loss. The current favored solution is to supplement the area with bone grafts to stabilize the implant base. But that technique is problematic: “primarily because it involves additional surgeries to harvest the bone,” said Dr. Ulf M. E. Wikesjö, Interim Associate Dean for Research and Enterprise in the GHSU College of Dental Medicine.

In animal studies, he and his team at the GHSU Laboratory for Craniofacial Regeneration found that implanting bone morphogenetic protein in the sinus more new bone will form within four weeks than using conventional bone grafting at the same site.

“We found that BMP induced superior bone quality over that following bone grafts, which improves the chances for successful implants,” Wikesjö said. “BMP is phenomenal, because it’s a true, off-the-shelf product with ease of use that can produce real results, and it could be the new gold standard for this procedure.”

According to the American Association of Oral and Maxillofacial Surgeons, 69 percent of adults ages 35-44 have lost at least one tooth due to decay, disease or trauma, and 26 percent of adults have lost all permanent teeth by age 74. Before dental implants were available, the only options for replacing these missing teeth were dentures and dental bridges, both of which could lead to further bone loss. Implants provide patients with numerous benefits, including improved oral health, appearance, speech, convenience, durability and ability to eat.

GSK and DENTSPLY cooperate in oral health

Daniel Zimmermann
DFT

LONDON, UK / NEW YORK, USA / LEIPZIG, Germany: DENTSPLY has entered into a co-branding agreement with GlaxoSmithKline, a global health-care manufacturer based in the UK. According to a press note released in January, the deal will allow the US company to combine its NU PRO in-office prophylaxis range with Sensodyne, GSK’s specialist toothpaste brand for patients suffering from dentine hypersensitivity. According to the companies, no exchange of cash or equity by either party is involved in the agreement.

NU PRO, which consists of prophylaxis and polishing pastes, is based on NovaMin, a technology acquired by GSK in a multi-million dollar purchase in 2009. The formula contains calcium sodium phosphosilicate, a synthetic mineral found to seal dental tubules, the main reason for hypersensitive teeth. GSK currently uses the same technology in its heavily marketed Sensodyne toothpaste brand.

Carlton Lawson, Vice-President of Sensodyne, GSK, said that by utilizing both companies’ brands and capabilities, his company aims to build awareness of the benefits of NovaMin and further consolidate its position as the leader in the over-the-counter oral health-care market.

According to the company, 90 per cent of its worldwide revenue is earned through toothpaste sales. The company also claims to have a global market share of almost 50 per cent.

DENTOFLEX

For more than 30 years, Dentoflex has been creating healthy and attractive smiles in Brazil, and is now growing all over the world.

The Dentoflex’ surface treatments include aluminum oxide blasting, followed by acid passivation which combines texture and perfect porosity for an excellent biological effect, and as a result giving conditions for osseointegration and clinical success. The Dentoflex implants offer a more rougher surface of up to 300 times greater than a machined surface, stabilising bone-implant contact by up to six times.

Dentoflex has been operating in the dental market for over three decades and doesn’t stop reinventing itself. The company is moving in the right direction by aiming to develop on a daily basis, invest in the latest technology and expand into new horizons. Dentoflex has an ambition to break down and overcome any barriers and form strong relationships and alliances in countries worldwide.
Papillary squamous cell carcinoma of the hard palate

Report of a rare case affecting the oral cavity

Approximately one in three Americans will develop a malignancy in their lifetime. The chances of developing certain malignancies increase with age and several contributing risk factors such as tobacco and alcohol use. Notwithstanding significant decreases in death rates from heart disease, cerebrovascular disease and infections over the previous 50 years for many forms of cancer, death rates remain essentially unchanged during that same time period.

Squamous cell carcinoma (SCC) is the most common malignant neoplasm affecting the head and neck. Mucosal cases account for more than 90 percent of all malignant neoplasms affecting oropharyngeal structures, with oral squamous cell carcinoma (OSCC) being the most common oral malignancy.

Several variants of OSCC exist and histopathologic classifications for variants of OSCC include papillary, spindle cell, adenosquamous, and basaloid carcinoma; it is also possible to categorize types of OSCC based on clinical descriptors such as ulcerative, flat, polypoid and verrucoid. OSCC variants can have different growth patterns, ranging from small mucosal thickenings to large masses, and can appear endophytic or exophytic.

These tumors are erythematous to white to tan, frequently feeling firm on palpation. Conventional OSCC is composed of variable degrees of squamous differentiation, with well-differentiated cells closely recapitulating normal squamous epithelium but demonstrating some degree of basement membrane violation by nests of tumor cells, to poorly differentiated cells with more anaplastic-like appearances.

As a result of its complex exophytic papillary architecture, the papillary variant of SCC can be a challenge to accurately diagnose and histologic assessment of underlying invasion can be very difficult. Risk factors and pathogenesis for papillary SCC are unclear although human papilloma virus subtypes are thought to play a role in some cases.

The purpose of this paper is to (a) present a rare case of papillary OSCC affecting the hard palate, and (b) describe the clinical and histologic features of this tumor in supporting the dentist’s role in early detection.

Case report
A 65-year-old female presented to the dental clinic at the Herman Ostrow School of Dentistry, University of Southern California with the chief complaint of a growth appearing on the roof of her mouth approximately two months prior to her presentation to our clinic. The patient’s past medical history included type II diabetes mellitus controlled with diet and exercise, and denial of any alcohol or tobacco use.

The remainder of her medical and social history was non-contributory; she was not taking any medications and a review of systems was unremarkable. Intraoral examination revealed a 3.5 cm exophytic mass in the anterior midline region of the hard palate (Fig. 1). The lesion appeared vascularized with ill-defined borders and no evidence of ulceration or erosion.

The patient had mild sensitivity upon palpation of the lesion. No cervical or submandibular lymphadenopathy was observed during the extraoral examination of the head and neck. Panoramic radiography revealed no abnormalities of the palatal area.

The patient was informed that a biopsy must be taken to obtain a definitive diagnosis; informed consent was obtained for incisional biopsy with local anesthesia. During the administration of local anesthesia, the cortical bone under the tumor felt intact with the end of the needle. A representative wedge of tissue was removed and placed in 10 percent formalin for microscopic evaluation.

The biopsy site was cauterized to obtain postoperative hemostasis due to the high degree of vascularity. The biopsy site was closed with four 5.0 chronic gut interrupted sutures. Hemostasis was achieved, postoperative instructions were given and the patient’s postoperative condition was good.

The gross examination of the specimen consisted of a soft, tan papillary and friable mass. The histologic examination revealed a 3.5 cm exophytic mass with a cauliflower-like or papillary surface architecture. (Photos/Provided by Paul Lee)

By Paul C. Lee, BA; Justin Olsen, BS; Joshua Adcox, BS and Parish P. Sedghizadeh, DDS, MS

Fig. 1: Clinical image of the palate of a 63-year-old female showing an erythematous exophytic mass with a cauliflower-like or papillary surface architecture. (Photos/Provided by Paul Lee)
A complete list of references is available from the publisher

The typical presentation for OSCC can be either a symptomatic or asymptomatic mucosal ulcer. These superficial ulcers often progress into symptomatic or asymptomatic exophytic or endophytic nodules with eroded or ulcerated surfaces, and can progress to direct invasion of the deeper structures resulting in a firm, non-moveable mass. However, OSCC often begin as white or red plaques of surface mucosa, making early clinical detection possible. If a leukoplakic or erythraoplakic lesion appears in the oral cavity and does not heal within a few weeks, biopsy is recommended for definitive diagnosis, which may represent levels of histologically normal tissue (e.g., keratosis) to atypia, dysplasia, carcinoma in situ or overt carcinoma. Papillary OSCC, such as the case presented here, is a variant of SCC classified by the World Health Organization and can present as either in situ or invasive lesions. Male predominance exists in OSCC cases, and the sites most commonly affected in order of prevalence are the larynx, nasal cavity and oral cavity. The clinical appearance of papillary OSCC often mimics other variants such as verrucous carcinoma, which is included in a differential diagnosis until confirmation with microscopic examination and diagnosis. Microscopically, OSCC can show invasive and disorganized growth with the following: dyskeratosis, keratin pearls and intercellular bridges, increased nuclear-to-cytoplasmic ratios, nuclear chromatin irregularities, prominent eosinophilic nucleoli and increased mitotic figures with atypical formation. Perineural invasion can be seen in some lesions, presenting a positive correlation to metastatic potential. In this case presentation, many of the aforementioned microscopic features of OSCC were evident without evidence of perineural invasion. Early detection of OSCC, specifically stage I or II, diagnosis, is usually associated with a favorable prognosis. Papillary OSCC in general has a 70 percent, five-year survival rate compared to other variants, such as basosquamous (40 percent, two-year survival), adenosquamous (55 percent, two-year survival), and spindle cell (80 percent, five-year) carcinomas. Most reported cases of papillary SCC exhibit a mean diameter of 1 to 1.5 cm. Our patient presented with a relatively large lesion measuring over 5 cm in diameter.

Dentists have a critical role in early identification of and effective care during OSCC progression from premalignant lesion to malignancy. A study conducted to evaluate the effectiveness of dentists in the early detection, treatment and post-operative care of OSCC in a central European population revealed the following results: Dentists identified 72.5 percent of the tumors in the 608 patients they saw as malignant, while family physicians did so in only 40.11 percent of their 406 patients. This difference was statistically significant (P < .001).

OSCC is a major public health problem that is not just limited to certain risk groups, such as those who smoke and drink as in this case report. Early detection and identification of OSCC is critical to effective patient treatment and survival.

About the authors
Paul C. Lee, BA; Justin Olsen, BS; and Joshua Adcox, BS, are dental students at the Herman Ostrow School of Dentistry of USC, University of Southern California, Los Angeles. Parish P. Sedghizadeh, DDS, MS, is an assistant professor at the Herman Ostrow School of Dentistry of USC, University of Southern California, Los Angeles.

For correspondence:
Paul C. Lee, 925 West 34th Street, DEN 4110 University of Southern California, School of Dentistry Los Angeles, Calif. 90089-0641 E-mail: chong.lee@usc.edu
Cephalometric Norms in an Adult Emirati Population with Class I Malocclusion

By: Tayseer Al Zain, DDS, MSD, and Donald J. Ferguson, DMD, MSD

Lateral cephalometric radiographs are an important tool for orthodontic analysis in diagnosis, treatment planning, and monitoring of craniofacial growth. Cephalometric analysis supports the clinical examination and helps to identify the source of the problems in skeletal and/or dental relationships. Dentofacial problems are identified and the magnitude of lesions in skeletal and/or dental relationships are identified and the magnitude of lesions in skeletal and/or dental relationships. It is also essential to compare patients with different malocclusions to their specific population norms. Knowledge of the normal dentofacial patterns of adults belonging to various ethnic and groups is certainly important for clinical purposes, but also research purposes as well. Many studies related to cephalometric and profile norms have been published for subjects from America, Europe, and Japan. In general, there have also been several cephalometric normative studies focused on subjects from the Middle East including Saudi Arabia, Kuwait, Egypt, Syria, and Jordan. To date, there have been no cephalometric normative studies conducted on subjects from the United Arab Emirates.

Seven cephalometric normative studies that have been conducted based upon Arabian subjects. In general, there is a consensus of literature indicating the Arab cephalometric pattern compared to the Caucasian cephalometric pattern is skeletal bimaxillary retrusive, dentally bimaxillary protrusive, more divergent palatal and mandibular planes, with longer anterior face height.

The aim of this study was to clarify the cephalometric features of Emiratis adults with Class I malocclusion and to evaluate for gender differences. The null hypothesis tested was no differences in lateral cephalometric measurements as a function of gender.

METHODS AND MATERIALS

Sample
The sample was selected, with permission, from Abu Dhabi Dental Center located on Abu Dhabi Island. All individuals selected were from a patient record pool representing Emirati nationals seeking orthodontic treatment. Diagnostic quality cephalometric radiographs of 61 subjects were chosen (50 male and 11 female) for evaluation based upon the following selection criteria:

- age range between 18 and 35 years at the time of the cephalometric radiograph
- permanent dentition only
- no multiple missing teeth

UAE native (male only) (as evidenced by family name).

Procedures
Patient files located at Abu Dhabi Dental Center were randomly selected for the presence of lateral cephalometric radiographs and included in the sample based upon diagnostic quality and the selection criteria. The lateral 7.5 degrees fan beam was scanned into digital format using a 500 DPI scan setting. Commonly used cephalometric hard and soft tissue landmarks and measurements were utilized in the study resulting in 12 angular (Figure 1) and 10 linear (Figure 2) measurements.

Dolphin Imaging System software package version was used to perform the digital cephalometric analysis comprised of 12 angular (Figure 1) and 9 linear (Figure 2) measurements, and one ratio measurement.

Cephalometric analysis was performed on five lateral head films in order to test for reliability. Analysis was repeated on two and the same five cephalograms and the results of the three testing phases were statistically compared using the Dahlberg reliability formula. Intra-operator error ranged from 0.0 to 4.7 degrees for angular measurements and 0.06 to 0.45 millimeters for linear measurements, no differences were determined (p>.05). Intra- and inter-operator reliability was deemed satisfactory.

Statistical Analysis
Data was entered on an Excel spreadsheet then converted to SPSS format for data processing. The Student’s t-test was used to determine significant differences between male and female measurements. Significant differences were determined at the 95% probability level. A difference of 2 degrees or 2 millimeters was considered clinically significant.

RESULTS
The lateral cephalometric radiographs of Emirati nationals with Class I malocclusion were analyzed in order to establish a normative database representing the United Arab Emirates. Lateral cephalometric radiographs of 50 males with age average of 24.52 ±0.99 years and 51 females averaging 23.57 ±0.52 years were analyzed.

Twenty-two hard and soft tissue measurements comprised the cephalometric analysis. Only one measurement was determined to be statistically different between genders. The measurement PP was significantly larger in the female group (10.74 ±2.44 degrees) compared to males (8.43 ±2.05 degrees, p<.005) (Table 1).

Table 1. Descriptive normative lateral cephalometric statistics including means and standard deviations (SD) and probability (P) value for male and female subjects with sample size (n) indicated.

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Males (n=30)</th>
<th>Females (n=31)</th>
<th>T value</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SN-PP</td>
<td>49.9 ±6.49</td>
<td>50.8 ±5.97</td>
<td>-1.16</td>
<td>.254</td>
</tr>
<tr>
<td>ANB</td>
<td>24.7 ±3.00</td>
<td>23.5 ±2.95</td>
<td>-1.30</td>
<td>.192</td>
</tr>
<tr>
<td>SNA</td>
<td>80.8 ±6.40</td>
<td>81.2 ±6.44</td>
<td>-0.22</td>
<td>.825</td>
</tr>
<tr>
<td>SNB</td>
<td>77.3 ±4.76</td>
<td>76.4 ±4.63</td>
<td>-0.76</td>
<td>.450</td>
</tr>
<tr>
<td>MP1</td>
<td>2.5 ±0.25</td>
<td>2.6 ±0.24</td>
<td>0.42</td>
<td>.675</td>
</tr>
<tr>
<td>B'-Gn-Go</td>
<td>35.2 ±3.08</td>
<td>34.7 ±3.08</td>
<td>0.37</td>
<td>.714</td>
</tr>
<tr>
<td>B'-SN</td>
<td>81.4 ±6.49</td>
<td>81.5 ±6.44</td>
<td>-0.05</td>
<td>.960</td>
</tr>
<tr>
<td>L1 to PPº</td>
<td>4.0 ±0.30</td>
<td>3.95 ±0.34</td>
<td>0.42</td>
<td>.676</td>
</tr>
<tr>
<td>L1 to anterior teeth</td>
<td>4.9 ±0.32</td>
<td>5.1 ±0.33</td>
<td>1.24</td>
<td>.221</td>
</tr>
<tr>
<td>L1 to AN</td>
<td>4.0 ±0.30</td>
<td>3.7 ±0.29</td>
<td>-1.34</td>
<td>.183</td>
</tr>
<tr>
<td>L1 to SN</td>
<td>2.4 ±0.24</td>
<td>2.6 ±0.24</td>
<td>1.16</td>
<td>.251</td>
</tr>
<tr>
<td>L1 to Na</td>
<td>8.0 ±0.50</td>
<td>7.9 ±0.50</td>
<td>0.18</td>
<td>.859</td>
</tr>
<tr>
<td>L1 to Mt</td>
<td>4.0 ±0.30</td>
<td>4.0 ±0.30</td>
<td>0.00</td>
<td>1.000</td>
</tr>
<tr>
<td>L1 to ANº</td>
<td>5.0 ±0.34</td>
<td>5.0 ±0.34</td>
<td>0.00</td>
<td>1.000</td>
</tr>
</tbody>
</table>

* = p<.05
DISCUSSION

The results revealed no gender differences between adult Emirati males and females in skeletal or dental relationship except for measurement SN-PP; females (10.7) subjects averaged a 2.3 degrees higher SN-PP measurement compared to males (8.4) subjects. The cephalometric values from the Emirati study were compared to published Steiner (1932) and Eastman (MacAllister 1982) normative cephalometric values (Table 2). The comparison demonstrated similarity in antero-posterior cephalometric angular measurements with both normative values; no apparent differences were found in angles S NA, S NB, or ANB.

In contrast, measurements of the position of the denture were dissimilar. Intercanine angle in the Emirati sample averaged 118.6 and was substantially less than the Steiner (127.0) and Eastman (134.0) values. The Emirati sample also had more proclined upper (116.3) incisor position compared to the Eastman value (108.0), and Emirati lower (90.1) incisors was substantially more proclined compared to both the Eastman (91.0) and the Steiner (93.0) values. The dentition was substantially more protrusive in the Emirati sample with UI-NA and LI-APog values more than 2 millimeters more anterior than the Steiner norms; LI-APog value for Emiratis was about 6 millimeters more protrusive that the Eastman value. The findings of the present study are consistent with other published studies comparing Arab subjects with non-Arab samples. In Saudi samples, Sarhan (1988), Hasson (2005), and Al-Jasser (2003 & 2005) also found greater proclination and protrusion of incisors compared to a Caucasian sample. Behbehani (2006) found Kuwaitis had more proclination and protrusion of mandibular incisors. Handan (2001) found Jordanians 4 to 6 millimeters more protruded relative to A-Pog and described his Jordanian sample as more bimaxillary dental protrusion compared with Iowa boys, Egyptian girls had a relatively more convex profile and a tendency toward mandibular dental protrusion.

CONCLUSIONS

A sample of 61 adult Emirati nationals with Class I malocclusion were analyzed in order to establish and Emirati cephalometric norm. The sample was comprised of 50 males and 50 females with a mean age of about 24 years who had presented for orthodontic treatment at one of the two Abu Dhabi national dental centers. Ethnicity was validated based upon family name. Dolphin Imaging software was used to perform the cephalometric analyses. Only one gender difference was demonstrated out of the 22 cephalometric analysis measurements used in the study; SN-PP mean for females (10.7) subjects averaged a 2.3 degree higher mean value than the males (8.4). The cephalometric study results were compared to published norms from Steiner and Eastman.
World’s youngest grandmother

A 23-year-old Romanian woman is claiming that she is the world’s youngest grandmother. Rifica Stanescu gave birth when she was just 12 years old and two years ago her daughter Marta had a baby at the age of 11.

Despite urging her daughter not to follow in her footsteps and stay in school, Stanescu told The Sun that Marta left to get married when she was just 10 and gave birth to her first child the following year. “I am happy to be a grandmother but wished more for Maria,” Stanescu told the paper. Stanescu also revealed that she eloped with jewellery salesman Ionel Stanescu when she was 11 and he was 13. She fled with her boyfriend because she was worried her father would force her to marry someone else in the village of Investi in Romania.

Her mother, also named Maria, became a great grandmother at just 40 years old.

Last month, the woman who is set to become Britain’s youngest grandmother at age 29, said that her daughter becoming a teen mum was ‘her worst nightmare’.

Kelly John gave birth to her daughter, Tia, at age 14. Tia is now expecting her own child at the same age.

‘My worst nightmare has always been that Tia would repeat my mistake and get pregnant young. [When I found out] I felt the colour drain from my face and all I could do was cry,’ John told the News of the World.

Sharp rise in ‘man boob’ surgery

There has been a sharp increase in the number of men going under the knife to get rid of their ‘man boobs,’ new figures show. Last year, 741 men underwent breast reduction surgery, up 28 per cent on the previous year, figures released by the British Association of Aesthetic Plastic Surgeons (BAAPS) revealed.

Although nose alterations are still the most popular surgical procedure requested by men, the biggest increase in demand was for male breast reductions. Up to one litre of fat is removed during the procedure, which takes around an hour and a half to perform and usually costs about £2,000. Despite the economic downturn, the number of people opting for cosmetic surgery in the UK continues to rise. In 2010, a total of 58,274 surgical procedures were performed on men and women, a five per cent increase on 2009. Of these, 52,859 were in women.

Breast enhancement surgery remains the most popular procedure carried out on women by BAAPS surgeons, with more than 9,000 operations carried out in 2010, up 10 per cent on the previous year. Surgery for ear corrections and tummy tucks (abdominoplasty) fell in popularity among both sexes. Fazel Fatah, consultant plastic surgeon and BAAPS president, said: “The public’s interest in aesthetic surgery remained strong in spite of the economic downturn. Procedures showing the more considerable rise during this period seem to be, perhaps not surprisingly, concentrated on the most visible areas of the body: facelifts, breasts and nose jobs.

Surgery that decreased in popularity were for the areas which could potentially be ‘hider’ or disguised, such as tummy tucks and pinning back prominent ears.” Rajiv Grover, consultant plastic surgeon and BAAPS president-elect, added: “Every week there are reports in the press of new so-called ‘lunchtime’ procedures.

‘The growth rates for surgical face-lifting, breast augmentation and rhinoplasty show double-digit percentage rises because patients are looking for the real deal, for treatments which deliver a reliable long-lasting result and have a proven safety record.

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