Call to ban non-medics performing cosmetic surgery

Royal College of Surgeons calls for new professional standards

Only surgeons should provide cosmetic surgery and only doctors, dentists and nurses who have undertaken appropriate training should provide non-surgical cosmetic treatments such as Botox, recommends new professional standards for cosmetic practice. Currently certain cosmetic treatments can be administered by anyone, anywhere with no medical training.

The guidelines state that as standard practice, practitioners should discuss relevant psychological issues (including any psychiatric history) with the patient to establish the nature of their body image concerns and their reasons for seeking treatment. They should not at any point imply that treatment will improve a patient’s psychological wellbeing.

Aimed at all doctors, dentists and nurses involved in cosmetic practice, the document entitled Professional Standards for Cosmetic Practice focuses on the behaviour and competencies medical professionals should be expected to demonstrate when providing cosmetic procedures.

The standards, issued by the Royal College of Surgeons (RCS), state that financial deals such as time limited discounts should be banned and stringent psychological assessment promoted. They lay out the professional duty practitioners have to their patients, including the need to ensure they have a clear understanding of the risks of the procedure, outlining consequent aftercare and being transparent about costs from the outset.

Developed by a working group of key professionals including surgeons, psychiatrists, psychologists and dermatologists, key points in the professional standards include:

• Practitioners should not imply that patients will feel ‘better’ or ‘look nicer’, and should instead use unambiguous language like ‘bigger’ or ‘smaller’ to describe what that patient is trying to change.
• All practitioners should consider whether they should refer a patient to a clinical psychologist before proceeding with further consultations or treatments. Pre-procedure discussions should include the disclosure of relevant psychiatric history such as eating disorders and the practitioner should document any signs or symptoms of Body Dysmorphic Disorder. Psychological factors contributing to the motivation to undergo the procedure and expectations of outcome should also be assessed.
• Marketing and advertising must be honest and responsible, using only real patient photographs that have not been air brushed or digitally enhanced.
• The RCS recommends that only licensed doctors, registered dentists and registered nurses who have undertaken appropriate training should provide any cosmetic treatment.
• Only those who have qualified as a medical doctor and undertaken post-graduate surgical training should carry out invasive procedures such as breast surgery or liposuction.
First Green Dentistry Conference™ held

The Eco-Dentistry Association® has announced that it will hold the industry’s first dental conference devoted exclusively to high-tech, environmentally sound dental practices. The event will take place May 5 and 4, 2015, at the eco-friendly Robert Redford Conference Center in Sundance, Utah, part of the Sundance Resort. Attendance is limited to the first 100 registrants.

The 2015 Green Dentistry Conference™ will showcase the information and products dental professionals need to create and maintain state-of-the-art green practices. “A” List dental speakers include Gary Takacs of Takacs Learning Center, who will share the essentials of branding and marketing a green dental practice. Among dental technology luminaries is Marty Jablouw, DMD, Paul Feuerstein, DMD, and John Flucke, DDS who will talk about how dental technologies reduce waste and save energy, and boost the practice bottom line. Bill Roth, noted sustainability author and speaker, will lead a break out group called “Green Builds Business.”

The conference will offer panel discussions on everything from building and financing a high-tech, green dental practice to creating a successful green hygiene program. Unique, small group, hands-on opportunities with dental technology such as lasers and CAD/CAM systems will also be available.

The 2015 Green Dentistry Conference™ will offer attendees something rarely found at dental conferences: promoting the overall health and wellbeing of the dental practice. Activities will include yoga and meditation will be available for all attendees and there will be presentations focusing on the importance of work-life balance to support personal and professional success.

On Sunday, May 5, attendees will have the option of hiking in the 6000 acres of pristine wilderness adjacent to the Sundance Resort, enjoying fly-fishing, golf or the spa.

Discounted early bird registration opens on Tuesday, January 22nd, 2015 at www.ecodontistry.org/conference. Contact info@ecodentistry.org

Soft drinks should have tooth decay warning

Researchers from the University of Adelaide say any health warnings about soft drinks should include the risk of tooth decay, following a new study that looks at the consumption of sweet drinks and fluoridated water by Australian children.

“There is growing scrutiny on sweet drinks, especially soft drinks, because of a range of detrimental health effects on adults and children,” says Dr Jason Armfield from the Australian Research Centre for Population Oral Health at the University of Adelaide’s School of Dentistry.

“ Tooth decay carries with it significant physical, social and health implications, and we believe the risk of tooth decay should be included in any warnings relating to sweet drinks,” he says.

Dr Armfield is the lead author of a new study published this month in the American Journal of Public Health, which looks at the consumption of sweet drinks and fluoridated water by more than 16,800 Australian children.

The study found that the number of decayed, missing and filled deciduous (or baby) teeth was 46 per cent higher among children who consumed three or more sweet drinks per day, compared with children who did not consume sweet drinks.

“Consistent evidence has shown that the high activity of many sweetened drinks, particularly soft drinks and sports drinks, can be a factor in dental erosion, as well as the sugar itself contributing to tooth decay,” Dr Armfield says.

“Our study also showed that greater exposure to fluoridated water significantly reduces the association between children’s sweet drink consumption and tooth decay. This reconfirms the benefits of community water fluoridation for oral health.

“Essentially, we need to ensure that children are exposed less to sweet drinks, and have greater access to drink fluoridated water, which will result in significantly improved dental outcomes for children,” he says.

“If health authorities decide that warnings are needed for sweet drinks, the risk to dental health should be included.”

Charity raises £40k

The Mouth Cancer Foundation raised £40k from its 7th annual Mouth Cancer 10K Awareness Walk, which took place in London’s Hyde Park on Saturday 22nd September 2012.

The Mouth Cancer 10K Awareness Walk has been designed to increase awareness and generate much needed funds to allow the charity to provide support for mouth cancer patients and carers.

Last September almost 800 people travelled to the capital to walk 15,000 steps it took to complete a 10 K distance. Together they celebrated survivorship, remembered lost dear ones and had fun. There were medals, T-shirts and goodie bags for everyone who took part.

Are berries beneficial to our health?

Research has suggested that compounds that give colourful fruits their rich hues, especially berries, promote health and might even prevent cancer. But for the first time, scientists have exposed extracts from numerous berries high in those pigments to human saliva to see just what kinds of health-promoting substances are likely to survive and be produced in the mouth.

The researchers have discovered that two families of pigments in the mouth are responsible for sweet drinks, the risk to dental health should be included.”

Researcher Dr Vinod Joshi says “The Mouth Cancer Foundation organised the event and it was a great success. The participants were very enthusiastic and we are looking forward to next year’s event.”

The researchers exposed extracts of anthocyanin pigments from blueberries, chokecherries, black raspberries, red grapes and strawberries to the saliva collected from 14 people. The five fruits selected for study allowed the scientists to test the six distinct families of the anthocyanin pigments. Researchers purified the anthocyanins from each berry type and added the extracts to saliva.

“Our observations suggest that the bacteria within one’s oral cavity are not only responsible for the degradation of pigments, but also capable of producing metabolites that are beneficial to health,” Failla said. “For example, the bacteria from blueberries can convert anthocyanins to metabolites that have anti-oxidant properties, and might even prevent cancer.”

“The metabolism of anthocyanins is a complex process that involves both bacterial metabolism and breakdown of the pigments in the gastrointestinal tract,” Failla said. “If health authorities decide that warnings are needed for sweet drinks, the risk to dental health should be included.”

If anthocyanins are the actual health-promoting compound, you would want to design food products, confectionaries and gels containing mixtures of anthocyanins that are stable in the mouth. If, on the other hand, the metabolites produced by the metabolism of anthocyanins are the actual health-promoting compounds, there will be greater interest in fruits that contain anthocyanins that are less stable in the oral cavity, he added.
Acupuncture can relieve dry mouth

A study published in *Annals of Oncology* has revealed that acupuncture can relieve symptoms of xerostomia.

Dry mouth is a common side effect of radiotherapy, and as many as 41 per cent can still be suffering from it five years after treatment.

Doctors at seven cancer centres in the UK recruited 145 people suffering from radiation-induced xerostomia.

The researchers found there were no significant changes in saliva production; however individual symptoms were significantly improved among the group receiving acupuncture.

Dr Richard Simcock, one of the authors of the study, said: “The amount of saliva produced does not necessarily influence the experience of a dry mouth. Xerostomia is therefore an entirely subjective symptom – it is what the patient says it is, regardless of salivary measurement.”

The researchers say that further studies are needed to refine the acupuncture technique, but they believe that it could be easily incorporated into the care of patients with xerostomia.
Antibacterial agent found in freshwater lakes

A new study conducted by researchers at the University of Minnesota, has shown that the common antibacterial agent triclosan, used in soaps and many other products is found in increasing amounts in several Minnesota freshwater lakes.

In addition, the researchers found an increasing amount of other chemicals called chlorinated triclosan derivatives that form when triclosan is exposed to sunlight, triclosan and its chlorinated derivatives form dioxins that have potential toxic effects in the environment. These dioxins were also found in the lakes.

Triclosan was patented in 1964 and introduced into the market in the early 1970s. Since then it has been added to many consumer products including soaps and body washes, toothpastes, cosmetics, clothing, washing up liquid, and kitchenware. Beyond its use in toothpaste to prevent gingivitis, the U.S. Food and Drug Administration has found no evidence that triclosan in antibacterial soaps and body washes provide any benefit over washing with regular soap and water.

The researchers studied the presence of triclosan in antibacterial soaps and other products is found in increasing amounts in several Minnesota freshwater lakes with varying amounts of treated wastewater input. Sediment collected from large lakes with many wastewater sources had increased concentrations of triclosan, chlorinated triclosan derivatives, and triclosan-derived dioxins since the patent of triclosan in 1964. In small-scale lakes with a single wastewater source, the trends were directly attributed to increased triclosan use, local improvements in sewage treatment, and changes in wastewater disinfection since the 1960s. When UV disinfection technology replaced chlorine in one of the wastewater treatment plants, the presence of chlorinated triclosan derivatives in the sediments decreased.

In the lake with no wastewater input, no triclosan or chlorinated triclosan derivatives were detected. Overall, concentrations of triclosan, chlorinated triclosan derivatives, and the triclosan-derived dioxins since the patent of triclosan in 1964. In small-scale lakes with a single wastewater source, the trends were directly attributed to increased triclosan use, local improvements in sewage treatment, and changes in wastewater disinfection since the 1960s. When UV disinfection technology replaced chlorine in one of the wastewater treatment plants, the presence of chlorinated triclosan derivatives in the sediments decreased.

Denplan Launch NHS Viewpoint Seminars

Denplan has launched the UK’s biggest debate to discuss the new NHS contract with both UK-wide seminars and a discussion forum to encourage dental professionals to have their say.

Denplan’s Viewpoint Seminars have been arranged around the country so that dental professionals can receive some much needed clarity on how the new contract may effect practice and get involved with the debate. Not only this, but for those who cannot attend the Seminars, Denplan has also set up an NHS Viewpoint discussion forum at www.denplanviewpoint.co.uk, with the latest expert updates and dates and information from the Seminars. Roger Matthews, Denplan’s Chief Dental Officer, said: “Many dentists have been left in the dark, when it comes to the new NHS contract. These Viewpoint Seminars have been designed so that dental professionals can find out exactly what the proposed changes to the contract will mean for them and their practices and have their say in the matter, so I would urge everyone to get involved”.

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Join the AOG for 2013 Trip to Chitrakoot

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Fraudulent dentist struck off

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VLA Healthcare withdraws Sharps Terminator®

VLA Healthcare has announced that is has removed the Sharps Terminator® from sale in both the UK and Germany. The decision to remove the product from sale and to cease all promotional activity, was taken due to concerns over reliability and performance issues pertaining to the product, which were uncovered during NHS testing and evaluation.

The company is committed to supplying high quality products and services and is working with other manufacturers to develop alternative solutions to Sharps Terminator®. “Feedback from customers we spoke to about Sharps Terminator has been extremely positive, but it could only destroy a certain type of needles. Dentists were particularly disappointed that needles they routinely used could not be destroyed,” explains Daniel Hughes, Director at VLA Healthcare. “This coupled with the issues regarding reliability and performance led us to the decision to withdraw Sharps Terminator from the market and look for an alternative solution, which we hope to have available later in the year.”

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Hosted by Raj Rattan with presentations from Nilesh Parmar & Prem-Pal Sehmi, Kevin Lewis, Elaine Halley and Daz Singh
Drill-less technique a hit in New Zealand

A New Zealand dentist has found the ‘Hall technique’. Dr Lyndie Foster Page, head of preventive and restorative dentistry at the University of Otago Dental School, and colleague Ms Dorothy Boyd, a specialist paediatric dentist, trained 10 Hawke’s Bay dental therapists to use the new Hall technique as part of a feasibility study funded by the Health Research Council of New Zealand.

The Hall technique, developed by Scottish dentist Dr Nor Hall, involves placing a stainless-steel crown over a baby molar tooth to stop decay in, rather than the conventional method of removing the decay with a drill and then placing a filling. Starved of nutrients, the decay then stops or slows down.

The technology gives organisations greater control of their banking as two or three users can now authorise payments. This means that internet banking is now a viable option for businesses that require two or three signatories to sign a cheque, to set up and make payments online, or set individual payment limits for each transaction.

The facility is available through a simple online registration process once internet banking has been established for the company, and is ideally suited to GPs, dentists and pharmacists.

Businesses can apply payment limits to delegated users and the system provides easier management of their finances. The reduction of paper-based transactions also makes it easier to keep track of a payments’ status.

The function supports the ‘Go On UK’ campaign, championed by Lloyds Banking Group, which encourages companies to move some of its services online and harness the potential of the internet to expand and help to them to expand.

Dr Charles Harris, director at Barbourne Health Centre and a customer of Lloyds TSB Commercial, said: “Our payment structure requires two authorised people to sign off, and normal online banking facilities don’t allow for this. The accessibility of this technology will offer us greater control over our finances and it is a much welcomed move.”

Banking group launches online banking technology

Lloyds Banking Group has launched a new internet banking facility for business customers. The service allows companies such as healthcare practices that were previously unable to bank online because they needed two signatories, to process payments using internet banking.

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Research shows promise for Parkinson’s disease

New research from Mayo Clinic in Arizona and Banner Sun Health Research Institute suggests that testing a portion of a person’s saliva gland may be a way to diagnose Parkinson’s disease.

“There is currently no diagnostic test for Parkinson’s disease,” says study author Charles Adler, M.D., Ph.D., a neurologist with Mayo Clinic in Arizona. “We have previously shown in autopsies of Parkinson’s patients that the abnormal proteins associated with Parkinson’s are consistently found in the submandibular saliva glands, found under the lower jaw. This is the first study demonstrating the value of testing a portion of the saliva gland to diagnose a living person with Parkinson’s disease. Making a diagnosis in living patients is a big step forward in our effort to understand and better treat patients.”

The study involved 15 people with an average age of 68 who had Parkinson’s disease for an average of 12 years, responded to Parkinson’s medication and did not have known saliva gland disorders. Biopsies were taken of two different saliva glands: the submandibular gland and the minor saliva glands in the lower lip.

The abnormal Parkinson’s protein was detected in nine of the 11 patients who had enough tissue to study. While still being analysed, the rate of positive findings in the biopsies of the lower lip glands appears much lower than for the lower jaw gland.

“This study provides the first direct evidence for the use of submandibular gland biopsies as a diagnostic test for living patients with Parkinson’s disease,” Dr. Adler. “This finding may be of great use when needing definitive proof of Parkinson’s disease, especially when considering performing invasive procedures such as deep brain stimulation surgery or gene therapy.”

Currently, diagnosis is made based on medical history, a review of signs and symptoms, a neurological and psychiatric evaluation, and ruling out other conditions. Up to 50 per cent of patients may be misdiagnosed early in the disease.

Study identifies vital protein

ß-catenin is required for root formation, a new study has found. The paper, titled “ß-catenin is Required in Odontoblasts for Tooth Root Formation”, was written by lead authors Tak-Heun Kim and Cheol-Hyun Bae, Chonbuk National University Korea School of Dentistry, Laboratory for Craniofacial Biology, is published in the IADWAADR Journal of Dental Research.

The tooth root, together with the surrounding periodontium, maintains the tooth in the jaw. The root develops after the crown forms, a process called morphogenesis. While the molecular and cellular mechanisms of early tooth development and crown morphogenesis have been extensively studied, little is known about the molecular mechanisms controlling tooth root formation.

In this study, Kim and Bae et al show that a protein called ß-catenin is strongly expressed in odontoblasts – the cells that develop the tooth dentin, and is required for root formation. Tissue-specific inactivation of ß-catenin in developing odonto- blasts produced molars lacking roots and aberrantly thin incisors.

At the beginning of root formation in the mutant molars, the cervical loop epithelium extended apically to form Hertwig’s epithelial root sheath (HERS), but root odontoblast differentiation was disrupted and followed by the loss of a subset of HERS inner layer cells. However, outer layer of HERS extended without the root, and the mutant molars finally erupted. The periodontal tissues invaded extensively into the dental pulp. These results indicate that there is a cell-autonomous requirement for Wnt/ß-catenin signaling in the dental mesenchyme for root formation.

“The striking tooth phenotypes in this study shed light on how Wnt signaling regulates odontoblast fate and root development,” said JDR Associate Editor Joy Richman.
The lasting impact of eating disorders
DT's Angharad Jones looks at eating disorders and how dental professionals can help

Figures from the National Institute of Health and Clinical Excellence suggest that 1.6 million people are affected by an eating disorder in the UK. With Eating Disorders Awareness Week taking place this week (11-17 February), charity Beat are encouraging people to ‘sock it to eating disorders’, by organising ‘silly socks’ events and fundraising to help support those with these illnesses.

One of the biggest impacts eating disorders can have is on the teeth. Eating disorders cause tooth wear, which occurs when the outer tooth surface is lost as a result of chemical or mechanical activity in the mouth. All sorts of dental problems can arise as a result, such as teeth becoming short and unattractive as well as rough or sensitive. Speaking or chewing can become a problem and some people will end up with numerous restorations or having teeth removed.

Results from the Adult Psychiatric Morbidity Survey show that bulimia is the most prevalent eating disorder, making up 40 per cent of those with an eating disorder, compared to 10 per cent of sufferers having anorexia. Bulimia causes tooth erosion due to repeated acid regurgitation, and diet choices among those who are bulimic may be acidic, with sugar free and carbonated soft drinks, sports drinks and alcohol being frequently consumed, adding to erosion.

Stress
Stress is a common aspect in all eating disorders, which can also lead to other types of tooth wear. Emma Pacey, Clinical Coordinator at the London Tooth Wear Centre® says: “The associated psychologi- cal complications of an eating disorder mean the patient may be susceptible to other types of tooth wear caused by grinding or clenching habits, whilst obsessive behaviour can translate to tooth brushing, resulting in abrasion.”

Those with bulimia also become overly concerned with the prospect of bad breath, causing them to excessively brush their teeth. Terence, a bulimia sufferer for 11 years says bad breath took great importance for him during his illness. “After vomiting the first thing I did was clean my teeth, as I thought this would help keep my teeth strong and prevent bad breath. I was more bothered about bad breath [than oral health] and I didn’t realise what I was doing [to my teeth].”

Unfortunately, oral care can often take a back seat when people are going through their illness. As with other psychological disorders, judgement may be affected, and one of the concerns likely to be at the bottom of the list is the impact their lifestyle is taking on their teeth.

Sam, who suffered from anorexia and bulimia for 15 years, has had tooth decay, intensive root canal treatment, numerous fillings and three missing teeth as a result, says: ‘[Oral health] wasn’t high on my list of priorities, being thin was. When you have such a low opinion of yourself your teeth...is just one thing in a long list of things that you hate about yourself.”

Causative factors
Although a difficult and sensitive subject to broach, tooth wear which is deemed to be the result of an eating disorder should be acknowledged. Emma says: “Denial and shame often feature and so discussion must be without judgement, with sympathy and time. Acknowledgment and rectification of the causative factors need to be realised, otherwise treatment will be compromised.”

“It is important to communicate effectively and with consideration, and provide clear explanation in an open and supportive environment.”

Sam agrees: “My dentist acted with what I perceive to be a disgust and a total lack of sympathy. She was very dismissive and offered very little support and advice...it made me feel really bad about myself and like I had no one to turn to. I saw the hygienist and broke down about my problems and told her how I felt about my teeth. She was very supportive and told me there are lots of things that can be done but I would need to be referred to a private clinic.”

Advice
It is also important to note that people with eating disorders may not want to listen to any advice given. Bhian, an eating disorder sufferer for 15 years, says: “I received very little advice [from my dentist]. I didn’t seek any and I wouldn’t have been willing to accept any either.”

Allison, who has suffered from both anorexia and bulimia, reiterates this. “Any advice you give may usually fall on deaf ears.”

Nonetheless, dentists should not be disheartened when it comes to treating patients, and still need to look out for tooth wear as a result of eating disorders. Allison encourages “every dentist not to shy away from talking to their patients who present with high acid erosion on their teeth that could be attributed to an eating disorder.”

Sam’s advice to dentists is: “Don’t be judgemental, eating disorders are not a lifestyle choice, they are serious illnesses. Educate yourself about eating disorders, the effects they can have on teeth and the signs to look out for.”

Signs to look out for include increased levels of sensitiv- ity, and sharp or chipped front teeth. Acid erosion presents on the palatal and occlusal sur- facess of the teeth mostly, where acidic fluid pools in the mouth, and back teeth become rounded and lose some of their surface characteristics, while front teeth may become translucent at the biting edges. If abrasion is also present, grooves may develop in the teeth near to where they meet the gums.

Regret
One of the biggest impacts that come with dental problems attributed to eating disorders is a lack of confidence and regret that oral health was neglected during their illness.

Sara, an anorexia sufferer, says: “Following recovery, the impact my eating disorder had upon my teeth has affected my confidence. I was, and am, aware of the appearance of my dentition, my missing tooth, and am self-conscious at times when speaking.”

Bhian says: “It upsets me that this is the lasting legacy of my eating disorder that I will have to live with for the rest of my life. I get annoyed at the amount I have and will continue to have to pay out because of the damage years of an eating disorder has done to my teeth.”

While dentists may not be able to stop an eating dis- order, they may be able to prevent severe tooth wear which has occurred as a result, and make a big difference to that pa- tient’s life.

Contact information
For more information regarding eating disorders and tooth wear, visit www.bs-eat.co.uk and www.toothwear.co.uk

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