**Trouble for single-handed practices**

**By DTI**

**LONDON, UK:** Profits of single-handed practices in the UK have slumped by almost 12 per cent in the last two years, indicating that the model may be a thing of the past. According to figures released in the latest Benchmarking Report by the National Association of Specialist Dental Accountants and Lawyers (NASDAL), the average profit per principal in a single-handed practice was only slightly above £35,000 in 2016, compared with £19,732 in 2014.

In contrast, practices with associates achieved a net average profit per principal of £138,311 last year.

The problems, according to Ian Simpson, a chartered accountant and a partner in Humphrey & Co, which carries out the statistical analysis on behalf of NASDAL, could be linked to increasing costs in compliance and a general feeling among sole practitioners that they are unable to increase their fees. “As a ‘compliance culture’ continues unabated, the future will be difficult for those going it alone,” he commented regarding the figures.

“Whilst it is good news to see success for the majority of the sector, the increasing cost of compliance is a cause for concern,” added Nick Ledingham of Morris & Co, specialist dental accountants and Chairman of NASDAL. “The arrival of Making Tax Digital will do nothing to allay dentists’ fears that they are victims of a system that doesn’t understand how they do business.”

Reflecting the finances of dental practices and dentists for the most recent tax year, NASDAL’s annual benchmarking statistics are gathered from its accountant members across the UK, who together act for more than a quarter of self-employed dentists. The findings also included an increase of average net profit per principal at NHS practices from £129,285 in 2015 to £154,102 in 2016 and a slight drop of average profits of associates from £68,024 to £67,389 in the same period.

**Negative effects of dental phobia confirmed**

**By DTI**

**LONDON, UK:** One in three adults in the UK are estimated to have a persistent fear of going to the dentist. The fact that the phobia can lead to more active caries and prevent them from smiling and prevent them from making healthy decisions is to be published in the Adult Dental Health Survey, 2009, to be published in the second April issue of the British Dental Journal. It was conducted among 10,900 participants, of whom just over 1,300 were considered to be dentally phobic.

The study, titled “The oral health of individuals with dental phobia,” found that those with dental phobia expressed negative feelings such as sadness, tiredness, discouragement and personal anxiety, less vitality and more exhaustion, explained King’s Dr Ellie Hederan, lead author of the study. “Embarrassment at their poor teeth will prevent them from smiling and showing their teeth.”

By providing phobic patients with a detailed at-home oral healthcare plan, dental practitioners could help reduce acute conditions with preventative care, the researchers recommended. A preventative programme for those with dental phobia, focusing on what can be done to help them avoid acute conditions, is being developed at the institute, they said.

The study, titled “The oral health of individuals with dental phobia,” published in the second April issue of the British Dental Journal. It was conducted among 10,900 participants, of whom just over 1,300 were considered to be dentally phobic.
Prevention One is a comprehensive business model for the modern dental practice. We provide a full 360° approach towards preventive and innovative oral care. Prevention One increases your turnover, patient frequency and satisfaction.
British dentist known as “World’s fittest old-age pensioner” dies at age 97

By DTI

LONDON, UK: Most people of advanced age tend to prefer activities like gardening or watching TV. Not Dr Charles Eugster, just last year, the 97-year-old Brit broke the 200 m world record in the over-95s age group. This week, the “World’s fittest old-age pensioner” and veteran dental surgeon died due to complications after heart failure, according to his publicist.

In addition to the 200 m record he broke at the 2016 British Masters Indoor Championships in London, Eugster holds the 400 m record and several long-jump records for his age group. Recently, he competed at the World Masters Athletics Championships Indoor in Daegu in South Korea.

Born in London just after World War I, he graduated with a dental surgery degree from Guy’s Hospital in 1948. In addition to this, he obtained degrees from universities in Zurich in Switzerland, where he also temporarily worked as a clinical instructor, Heidelberg in Germany and Chicago in the US. Eugster was in private practice until 1975 and continued to publish a newsletter on clinical dentistry in three languages for three decades after his retirement.

Earlier this year, he published his first book, Age is Just a Number. He gave his last interview on ITV’s This Morning programme, during which he criticised the way ageing is treated in today’s society and spoke out in favour of lifelong learning.

“We, along with everyone who knew Charles, are incredibly sad to lose such a truly inspirational figure,” his publicist said on Facebook. “He has shown, by remarkable example, how fantastic life can be in older age. It has been a privilege to work with and learn from Charles.”

Reduced peri-implantitis risk

Plymouth researchers successfully test effectiveness of a dual-layered silver–HA nano-coating on titanium alloy implants

By DTI

PLYMOUTH, UK: Investigating the effect of a new approach using a combination of silver, titanium dioxide and hydroxyapatite (HA) nano-coatings on the surface of titanium alloy implants, researchers from Plymouth have found that the method was successful in inhibiting bacterial growth and reducing the formation of bacterial biofilm. In addition, the coating created a surface with anti-biofilm properties, thus supporting successful integration of the implants into surrounding bone and accelerating bone healing.

One of the main reasons for dental implant failure is peri-implantitis, an inflammatory process affecting the soft and hard tissue surrounding dental implants caused by pathogenic microbes that develop into biofilms. Current approaches to managing the development of biofilms include application of antimicrobial coatings loaded with antibiotics or chlorhexidine. However, these are usually only short-term measures. In addition, chlorhexidine has been reported to be potentially toxic to human cells.

Investigating a new approach to the prevention of biofilm, researchers from the School of Biological Sciences, Peninsula Schools of Medicine and Dentistry, and School of Engineering at the University of Plymouth tested the effectiveness of a dual-layered silver–HA nano-coating on titanium alloy medical implants. The antibacterial performance of the coating was quantitatively assessed by measuring the growth of Streptococcus sanguis, the proportion of live and dead cells, and lactate production by the microbes over 24 hours. The results showed that the combination successfully inhibited bacterial growth and reduced the formation of bacterial biofilm on the surface of the implants by 97.5 per cent. Uncoated controls and titanium dioxide nano-coatings showed no antibacterial effect.

According to the researchers, no dissolution was detected for the HA nano-coatings. Thus, application of a dual-layered silver–HA nano-coating on titanium alloy implants further created a surface with anti-biofilm properties without compromising the HA biocompatibility required for successful osseointegration and accelerated bone healing.

“In this cross-faculty study we have identified the means to protect dental implants against the most common cause of their failure. The potential of our work for increased patient comfort and satisfaction, and reduced costs, is great and we look forward to translating our findings into clinical practice,” commented Prof Christopher Tredwin, Head of the Peninsula Dental School. In the next step, the effectiveness of the approach needs to be tested in vivo, according to the researchers.

The study, titled “Antibacterial activity and biofilm inhibition by surface modified titanium alloy medical implants following application of silver, titanium dioxide and hydroxyapatite nanocoatings”, was published online on 17 March in the Nanotoxicology journal.

Kings College dental researcher receives international honours

By DTI

SAN FRANCISCO, US: One of the world’s most important awards for research in dental medicine has been given to an academic from the UK. Prof. David Bartlett from King’s College London Dental Institute was presented with the Distinguished Scientist Award in Research in Prosthodontics and Implants at the recent General Session and Exhibition of the International Association for Dental Research (IADR) in San Francisco in the US.

With the award, one of the highest honours bestowed by the research association, Bartlett was recognised for outstanding research achievements, including conducting laboratory investigations and developing clinical techniques to measure erosive tooth wear in the prosthodontics field. Over the past 20 years, among other things, he conducted three large prevalence studies and collaborated internationally to publish the only systematic reviews on that particular topic in the literature.

He also published data from a study of 1,000 18- to 30-year-olds, together with an assessment of risk, and undertook a pan-European study of more than 3,500 participants to establish the risk factors of erosion.

Currently Head of Prosthodontics at King’s College London Dental Institute, Bartlett has developed teaching in the specialty to make it more relevant to modern general dental practice. He has also been instrumental in bringing teaching on implants to undergraduates and at a level that is consistent with the expectations of dental students, the institute said.

In addition to research in prosthodontics and implants, IADR honours research in 16 more categories, including periodontology and regenerative dentistry. The awards are sponsored by prominent dental companies, such as Denfply Sirona, DMG and Unilever.

IADR held its recent meeting in conjunction with the 46th annual meeting of the American Association for Dental Research and the 45th annual meeting of the Canadian Association for Dental Research in March in San Francisco.