

27th Euro Dentistry Congress
&
27th Global Summit Expo on
Dental Science and Dental Practice
July 15-16, 2019 | London, UK

Keynote Forum



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Pirkko-Liisa Tarvonen

University of Eastern Finland, Finland

Use of CAD/CAM milling technique and attitudes towards 3D printing technique for dental restorations among Finnish dentist

Statement of the Problem: Dental caries remains as one of the main health problems globally. Direct filling technique with composite has several shortcomings. Especially large fillings in lower posterior teeth are challenging. Accuracy of the additive CAD/CAM (computer-aided design and computer-aided manufacturing) technique called 3D printing makes it suitable for manufacturing of several dental applications, like surgical guides, aligners as well as dental and facial implants. The Rayo 3D Tooth Fill is a novel technique developed by Finnish professors and experts for dental restorations by digital imaging and 3D printing on a single visit to a clinic. Based on an in vitro study carried out in University of Eastern Finland, Kuopio, Finland, the accuracy of 3D printing technique overcomes that of milling technique in the fabrication of dental inlay and onlay fillings. Other major advantages compared to current solutions include lower cost, possibility to layering and tailoring properties, suitability for existing filling materials and material use efficiency. Additional clinical investigations are planned to carry out during 2019 to confirm the findings. Methodology & Theoretical Orientation: A questionnaire was sent to 3,777 Finnish dentists in 2018 to study the use of chairside dental CAD/CAM milling technology and to evaluate the attitudes towards 3D printing-based applications for fabrication of dental restorations among Finnish dentists. Findings: More than a third of the respondents reported using dental chairside CAD/CAM milling technique, most of them on a weekly basis. The respondents with former experience of chairside CAD/CAM technique reported that they would consider using 3D printing for filling manufacture if a better survival rate could be achieved, even though the price of the filling would be higher than traditional direct filling. Conclusion & Significance: The results indicate that 3D printing-based applications for fabrication of dental restorations attract interest among Finnish dentists.



Fig. Dental filling fabricated by digital scanning and 3D printing

Biography

Pirkko Liisa Tarvonen has a specialist degree in Dental Public Health from the University of Turku, Finland, and a PhD degree from the University of Eastern Finland. She acts as Dental Marketing Director at Rayo 3D-Toothfill Ltd and as University Lecturer at the University of Helsinki and at the University of Eastern Finland. As a voluntary project coordinator for ten years she has had a remarkable contribution in the support of primary dental care and dental education in the Democratic People's Republic Korea.

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Amy Dayries-Ling

Whole Healing Dental, USA

Whole body health conversations to have with patients during their next dental appointment

Statement of the Problem: Many dental patients exhibit oral signs that are telling of systemic health problems. A review of how closely mouth inflammation is related to cardiovascular disease, diabetes, kidney disease and sleep apnea will be reviewed. Current protocols from the United States on efficiently screening patients for systemic diseases and recognizing sleep issues during a dental appointment will be reviewed. This approach to dentistry can empower a patient to better understand how their life choices can lead them down a road to chronic disease and help them to develop strategies that can create better overall health and wellness. With much of the public struggling to finance preventative health care and having an education on what supports health, this lecture will strategize how the dental professional can positively create a significant impact on the overall health of their patient, which leads to longevity of dental health. Here is an example of one graphic to be used in the power point presentation.

Biography

Amy Dayries practices general dentistry near Atlanta, Georgia, U.S.A., where she has been in private practice for 23 years. Dr. Dayries also hosts The Whole Healing Radio Show through the United Intentions Media Network. In the past, she has written articles on health topics for a periodical called Country Club Living. Dayries is the first dentist to graduate from the 2-year Inter-professional Fellowship Program in Integrative Medicine offered at the Academy of Integrative Health and Medicine, and she previously attended the Medical College of Georgia School of Dentistry and Emory University. While upholding western dental school teachings and what ongoing medical research proves effective, Dr. Dayries supports integrative and functional medicine approaches to health.

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Rachel Dilley

Town Hall Dental, UK

Dentists on the streets – How we're making a difference

At our practice, Town Hall Dental in West Yorkshire, we're committed to giving back to the community who have helped us reach the level we are at today. This community work led to our creating the Town Hall Foundation, the non-profit run by our practice that promotes oral health education in schools, supports the work of other charities and provides emergency dental care for the homeless and isolated.

For those on the streets, accessing a dentist and maintaining dental hygiene are massive issues, compounded by the fact that they are unable to access painkillers or finance any treatment. This creates a vicious cycle of issues requiring treatment, going untreated and then requiring further treatment. Most homeless on the street have less than £25 to their name, meaning they cannot even visit an NHS emergency dental practice.

At Town Hall Dental, our team work on the streets of West Yorkshire operating a mobile dental clinic for the homeless. Our dentists have seen hundreds of homeless individuals and treated a huge variety of problems. The work has been so successful we recently took our mobile clinic to Calais to help with the refugee crisis in North France.

As a team, we want to make a difference with our dentistry, but also with our compassion. Living on the streets can be a lonely and isolated environment, and without people to help and talk to it's impossible to get your needs met. Building human connections through our dentistry and being able to put people on the right path to getting off the streets has been the difference between life and death in more than one case.

Biography

Rachel has been a dental nurse for 25 years. She has a BTEC Diploma Level 3, NVQ Level 3 and advanced level apprenticeship in management. Rachel's role is to make sure the efficient running of the practice on a day to day basis. She is also the business development manager and CQC lead. She enjoys her job very much and is always happy to help. Her ethos is to provide a patient centred dental practice creating a unique patient journey at Town Hall Dental. Rachel's caring nature and outstanding excellence in patient care has recently gained her Practice Manager of the Year 2016 in the Towergate Care Awards.

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Maria Concepcion Parrenas

University of the East, Philippines

Third molar - optional tooth

There is always a nagging question which heightens my curiosity on the appropriate removal of an impacted third molar in this specific situation:

What if you have a carious or beyond-repair second molar or second bicuspid? Will you try to heroically upright the mesially or horizontally impacted third molars?

Orthodontic up righting technique for effective treatment of impacted third molars, exposed or unexposed, is described. When used with TADS along with Australian wire,.020 is the other technique that I used. The other one is with several wire mechanics without using TADS but with the utilization of some up-righting techniques that are simple and effective in positioning impacted third molars.

Up righting of mesially tilted molars is the recommended treatment and should be done as soon as possible. If not properly corrected, mesially impacted molars may lead complications such as elongation of opposing teeth, periodontal problems on the mesial side of the affected teeth, caries in the unerupted molars, temporomandibular disorders and poor oral hygiene. Some clinical procedures have been used to upright third molar are mentioned above. Is it really worth working to leave the third molar be uprighted or have it surgically removed?.

Biography

Maria Concepcion Parrenas is a Doctor of Dental Medicine with post-graduate studies in Orthodontics at the University of the East, Manila. She is currently a professor in the Graduate Department in Dentistry at the same university. She has been in the practice of Dental Medicine since 1987 and is continually advancing in her specialized field to give excellent quality service to her patients. With extensive training in cosmetic dentistry, orthodontics and implants, Dr. Maria established dental clinics in Quezon City and Pasig City.

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Shawqi Al-Hashemi

Surgipact Ltd., UK

The art of immediate loading – from single units to full arches

Immediate loading and restoration post-extraction is a coherent technique showing high rate of success and significant advantages. Implant primary stability remains a challenge and key factor. In this presentation we will demonstrate how can this be achieved and that immediate implant osseointegration can be as, or more, successful than nonimmediate implantation during the same healing period.

Biography

Al-Hashemi holds two degrees, dental and medical. He has delivered many lectures to general dental and medical practitioners nationally and internationally. He actively contributes to teaching and publications. After qualifying in 1998, Al-Hashemi completed his dental training in general practice and implant placement before entering the NHS hospital service. He has worked in Oral and Maxillofacial Surgery units across Ireland and the UK and currently works part-time at Mid Essex NHS trust. He was awarded the prestigious memberships from the Royal College of Surgeons of England and Ireland, followed by a Fellowship in Oral Surgery and Oral Medicine from the Royal College of Surgeons of Ireland in 2005. He also holds a Diploma in Dental implant from the Royal College of Surgeons of Edinburgh. In 2009 he was awarded a medical degree from Barts and the London University to pursue a career in Maxillofacial Surgery. He is the founder of INB Association and holds regular meetings, seminars and is a key speaker at conferences. He is the owner of Mulberry Clinics, provider and performer of complex oral Surgery service in Essex. He accepts referrals from dental and medical practitioners, as well as mentoring professionals. He is a clinical mentor for the Diploma in Minor Oral Surgery for the Royal College of Surgeons of England where he teaches dentists surgical and dental implant procedures. His area of expertise is to carry out complex oral surgery and dental implant procedures, in particular, immediate loading from single units to full arches.

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