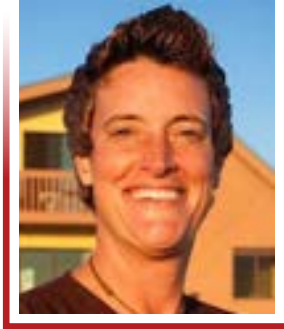


DENTISTRY AND DENTAL MATERIALS

Keynote Forum | Day 1

December 11-12, 2019 | Dubai, UAE

Lori Cardellino, J Clin Dentistry Oral Health 2019, Volume 3



Lori Cardellino

Private Practice, USA

BIOGRAPHY

Lori Cardellino was graduated in 1992 from Temple University School of Dentistry. She is a Board Certified Naturopathic Physician through The American Naturopathic Medical Board. She achieved the distinction of Board Certification of Integrative Biologic Dental Medicine through The American Board of Integrative Medicine and Dentistry. She has lectured extensively on bio-compatible restorative dentistry for over 15 years.

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Note:

BIOMEDICAL OPTIMAL PERFORMANCE ESTHETIC RESTORATIVE DENTISTRY: A BIO-MIMETIC APPROACH

The advent of esthetic dental restorative materials provided alternative treatment modalities and materials to traditional metal/alloy-based restorations and crown/bridge materials. The progression of research and development lead to a spectrum of restorative and prosthodontic materials, ranging from acrylics, silicates, ionomers/composers, reinforced porcelains, reinforced ceramics and composites: Macrofilled, microfilled, small-particles, hybrids, micro-hybrids and nano-filled. These composites all share amorphous/vitreous-glassy-polymer matrices that due to their brittle nature are fit and limited to conservative anterior and limited posterior fillings at 1/3 cuspal-incline. Hence, the progressive development of a Biomimetic engineered poly crystalline nano ceram dental restorative (PEX), metal-free prosthodontic and implant superstructures (Diamond Crown/Lite/Flow/Link/Bond). This PEX matrix, provides a dense microelastic/macrorigid micro-morphology lamellar structure, that manifests high-performance physico-mechanical properties: Biaxial-flexural-strength, diametral-tensile-compressive-strength, fracture toughness, wear resistance, maintenance of anatomical form/function/texture, color stability, marginal integrity. These physico-mechanical and esthetic attributes most similar to natural tooth structure (Bio-Mimetic Engineered) are coupled with tissue-compatibility, biocompatibility, non-cytotoxic properties: US-Pharmacopeia Class VI (L929-fibroblast cell cultures cytotoxicity, etc. all rated scale 0-5: Zero(0) Reactivity. These favorable hi-tech/performance functional-esthetic-biocompatible properties of the

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PEX-Nano Ceram allow surpassing the limited conservative dental esthetic fillings approach, into a realm of Bio-Mimetic full-coverage restorative superstructures. The long-term (25 + yrs) clinical evaluation attests to the Alpha ratings of form/function/esthetic-performance and tissue compatibility of the Diamond Crown/Lite/Flow/Link/Bond as an optimum solution to restorative, prosthodontic and implant dentistry. This presentation will illustrate the step-by-step clinical protocol and techniques inherent to this BioMedical approach of bio-mimetic tissue-compatible esthetic-restorative dentistry.



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Maninder Hundal, J Clin Dentistry Oral Health 2019, Volume 3



Maninder Hundal

Naval Institute of Dental Sciences, India

BIOGRAPHY

Maninder Hundal, a Prosthodontist of established reputation is currently serving as the Executive Officer in the Indian Naval Dental Centre at Mumbai which is a prestigious institute of the Indian Armed Forces. She is an officer of the rank of a Surg Capt in the Indian Navy and has served the forces for 19 years now. She has been awarded numerous awards by the Indian Army as well as the Indian Navy for her meritorious work in serving the organization in both field as well as peace establishments. She did her Bachelors in Dental Surgery from Government Dental College, Amritsar, Punjab in 1997 with a gold medal and her Masters in Prosthodontia from Armed Forces Medical College, Mumbai University, India during the year 2001-2004. She is an avid national and international speaker with numerous scientific papers and publications to her credit. She is also an affiliate faculty for the post graduate residents of Prosthodontics at the Army Dental Centre; Referral and research, New Delhi as well as the Armed Forces Medical College, Mumbai, India.

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Note:

CLINICAL RESEARCH STUDY ON POST AND CORE MATERIALS FOR PROSTHETIC RESTORATION OF ENDODONTICALLY TREATED MAXILLARY ANTERIOR TEETH

Achieving esthetically pleasing, structurally sound reconstructions on endodontically treated, devitalized and dis-colored teeth in maxillary anterior region often presents a challenge. Customized cast metal post and core has remained the standard for restoring such teeth for many years and are still used by clinicians. However they do not perform as well as other types of posts and core during various *in vitro* and *in vivo* studies. Some important factors to be considered while planning a post and core are retention and resistance form, preservation of tooth structure, mode of failure, retrievability, esthetics and clinical/laboratory time taken for the procedure. The FRC posts are more flexible than metal and are approximately of the same modulus of elasticity as dentin. When bonded with resin cement they distribute forces evenly in the root resulting in fewer root fractures. They are more biocompatible and are not subject to corrosion/galvanism like the cast metal post and core. The FRC posts have undergone numerous modifications in their composition, design, shape and size since their introduction. Against such a background this research study evaluated the clinical efficacy of two recently introduced FRC post and core systems to the customized cast metal post and core which meets the requirements of an ideal post and core and thus restores endodontically treated, compromised maxillary anterior teeth for use as individual units or as abutments for fixed or removable prosthesis in a predictable long term manner.

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Shivanjali Grover, J Clin Dentistry Oral Health 2019, Volume 3



Shivanjali Grover

Swami Vivekanand Subharti University, India

BIOGRAPHY

Shivanjali Grover is MDS in Public Health Dentistry from Babu Banarasi Das College of Dental Sciences, Lucknow and a graduate from Subharti Dental College and Hospital, Meerut. She has done more than 200 outreach programmes to promote oral health. She has also served in projects of Lifeline Express "The first hospital on train" in world that was started in India by Impact India Foundation. She has various publications to her credit. She has also won awards in National and International Platforms. She is a Life Member of Indian Association of Public Health Dentistry.

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RURAL ORAL HEALTH: CHALLENGES AND PIT FALLS-TIME TO RECOVER AND REBUILD THE PATHWAY

Oral Health is one of the major indicators of life that is affecting quality of life. Population residing in urban areas are benefited but population living in rural areas face issues. As health professionals it gets a challenging to motivate and educate the population regarding maintenance of oral hygiene as it is a major part of general hygiene as well. Lifestyle, literacy rate, socio-economic status and also commuting are some factors that make oral health promotion a challenge. But building a pathway towards healthy oral health is important as common oral health diseases like dental caries, periodontal diseases, oral cancer and dental fluorosis play major role is affecting quality of life. Meerut, a city of Uttar Pradesh, India, is a city located in the western part of the state. The city is neighbouring to the capital of India, but the major population is semi-urban and rural. Promoting oral health is a challenge in this field as myths and quacks still ruin the population in name of oral health. The present presentation aims to highlights the challenges author face and the pathway they have developed to serve the population and promote oral health in the district of Meerut.



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