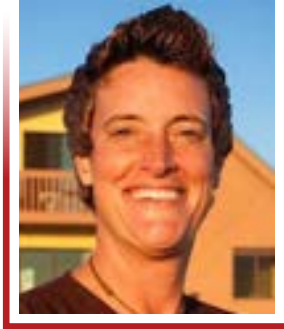


DENTISTRY AND DENTAL MATERIALS

Keynote Forum | Day 1

December 11-12, 2019 | Dubai, UAE

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



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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.



Note: