

Abstract

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“The integration of dentistry and medicine as the highest goal in human health: biological medicine and surgery and metal free dentistry.”

In the past few years we have been witnessing a dramatic increase in chronic disease including cancer, rheumatoid conditions, Alzheimer, autism, psychiatric disorders, heart disease and many others. The physical and psychological environment in which most humans live has become highly stressful and toxic. New therapies have been implemented by many healthcare professionals with promising results, however these are usually compartmentalised and focused on only one or few aspects of health obviating other fields. Dentistry and medicine, once together, are now divorced and following contradictory pathways.

The purpose of this presentation is to integrate disciplines and breach frontiers. The surgical and dental processes are also discussed integratively together with other critical aspects of healing which include the interaction with fields of medicine and dentistry such as nutrition, supplementation, advanced testing for metals, toxins and metabolic disorders, detoxification and metal free implantology with zirconia. A relatively important group of patients present intolerance and/or type IV allergy to metals. Metals in implantology including titanium, which is supposedly biocompatible, and other metals and alloys such as chromium and nickel can compromise human health. Furthermore, an exponential increase in radiofrequencies is also known to interact negatively with metals in the human mouth. A valid alternative for these patients is zirconia implantology with metal free crowns and bridges. Strategies and procedures for a selected group of patients are discussed in the presentation

Treatment options in cases of severe orofacial disorders with bone loss and tissue damage are usually limited to bony reconstructions of the alveolar ridge with autografts, allografts, xenografts as well as titanium implants and metallic dentures. Despite the therapies available, the demand for new approaches is realized in cases where current treatments are unable to resume form, function and the restoration of oral and systemic health. Furthermore, current research has conclusively demonstrated the role of heavy metals and chronic infection in the pathogenesis of multiple human derangements and diseases.

The feasibility of alternative approaches based on the biology of wound healing should be enhanced by the application of a new paradigmatic vision of global human health related to the mouth and adjacent structures.

The presentation also describes the principles that guide the regeneration of damaged tissues and the combined application of different resources from the body such as cytokines, platelet rich plasma, bone morphogenetic proteins, autogenous bone in various forms as well as stem cells from cultured bone marrow. These cells yield mixed populations of mesenchymal, hematopoietic, and endothelial lineages at very early stages implemented as part of a novel regenerative procedure that has been extensively studied and published by this group.

Dentistry and medicine together represent the only alternative for future therapies regardless of the condition.