

## Daniele Cardaropoli, DDS

University of Maryland

**Implant Periodontal Prosthodontics/AGD Guest Speaker**

June 10th, 2015

### **Title: "New perspectives in the concept of ridge preservation and augmentation"**

Abstract: "After tooth extraction, bone resorption of varying amounts always occurs as the edentulous site of the alveolar process undergoes both qualitative and quantitative changes. This is supported by scientific evidence. Histologically and anatomically, the alveolar bone is a tooth dependent structure that develops in conjunction with eruption, and the topography is determined by the form of the teeth and their axis of eruption. In the first phase of remodeling of the buccal/lingual walls of the extraction site, the bundle bone is resorbed due to the lack of nutritive support from the periodontal ligament, and replaced with woven bone. Consequently, the socket's walls will be reduced in both vertical and horizontal dimensions. This resorption may lead to aesthetic and functional disadvantages that can compromise future implant placement. In order to have a correct implant positioning, an adequate width of the bone ridge is essential. Based on this report, it becomes mandatory to preserve the dimension of the postextraction socket, if an osseointegrated implant will be inserted. Different approaches have been presented in literature in order to preserve the post-extraction site, confirming that ridge preservation maintains the bone volume with more predictability than the spontaneous healing and implants inserted in preserved bone present positive results. During the presentation, protocols developed to achieve predictable and stable results using the ridge preservation concept will be presented. The integration of deproteinized bovine bone mineral into bone host and the integration of xenogeneic collagen matrix into the soft tissue during socket healing will be discussed together with clinical findings."

### **Curriculum Vitae**



Doctor in Dentistry and Certificate in Periodontology at the University of Turin Dental School, Italy. Active Member of the Italian Society of Periodontology (SIdP), of the European Federation of Periodontology (EFP), of the Italian Society of Osseointegrated Implantology (SIO). International Member of the American Academy of Periodontology (AAP). Scientific Director of PROED - Institute for Professional Education in Dentistry, Turin (Italy). Director of the Oral Implantology Department at the "Sedes Sapientiae" Clinic in Turin. Fellow in the "Harvard Longitudinal Course in Periodontology and Implantology" at the Harvard Dental School and in the Post-graduate course "Excellence in Biomechanics" at the University of Siena. Winner of the "Henry M. Goldman" Award for the Clinical Research at the 11<sup>th</sup> National SIdP Congress and of the National Award in Clinical Orthodontics at the 18<sup>th</sup> International SIDO

Congress. Member of the Editorial Review Board of *American Journal of Orthodontics & Dentofacial Orthopedics*, of the Editorial Advisory Board of *The Journal of Implant & Advanced Clinical Dentistry*, reviewer ad hoc for *Journal of Periodontology*, *Angle Orthodontists* and *Indian Journal of Dental Research*.

Invited speaker in National and International Scientific Meetings, he presented during the research sessions at the 11<sup>th</sup> SIdP International Congress in Florence, at Europerio4 in Berlin, Europerio5 in Madrid and Europerio7 in Vienna, at the 89<sup>th</sup> AAP Annual Meeting in San Francisco and at the 90<sup>th</sup> AAP Annual Meeting in Orlando, at Osteology 2007 in Monaco and at Osteology 2011 in Cannes. Author of several papers published on peer-reviewed international journals, he has focused his interest on Periodontology, Implantology, Regenerative Therapy and Ortho-Perio Interdisciplinary treatment. Private practice in Turin, Italy.