

# 4<sup>th</sup> International Conference on Prosthodontics

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## Treatment planning dental implants in partially edentulous implants. Impact of optimal soft tissue and bone dimensions on dental implant success

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Treatment planning dental implants for partially edentulous patients can present with challenges for dentists due to having to replace multiple teeth that have been missing for a long period of time and have potential for severe loss of bone and soft tissue coinciding with the prolonged time without replacement. For partially edentulous patients, dental implants offer major advantages over removable and conventional fixed bridges in ability to preserve bone in the edentulous site, as well as ability to offer implant supported restorations which are superior in occlusion, support, and overall function and are not subject to potential for caries or tooth fracture from long span restorations long term. Dental Implants typically have higher overall longevity in the mouth than conventional fixed or removable prosthesis. Due to the amount of time that the teeth have been missing, there is often a significant loss of bone and soft tissue, and bone quality and quantity in the edentulous site plays a major role on implant success. We will ways of correcting deficiency in tissue dimension and volume prior to implant placement. Often, as a result of prolonged tooth loss, changes can also occur in mesiodistal span and there is also a potential for extrusion of opposing teeth. These factors in addition to inadequate tissue volume can translate to implant restorations that are subjected to lateral forces or dental implant overload. To prevent potential complications, meticulous attention is required during the treatment planning phase to ensure success of dental implant placement and restoration for partially edentulous patients. The goal of this seminar is to review potential risk factors that can occur in the maxilla and mandible when replacing partially edentulous sites with dental implants and ways of mitigating them for implant success. It also reviews surgical aspects of planning implants in the partially edentulous maxilla and mandible and impact of adequate volume of bone and soft tissue on implant success.

### Recent Publication

1. Nkem Obiechina, Osteotome Technique: A Minimally Invasive Way to Increase Bone for Dental Implant Placement in The Posterior Maxilla and Prevent Sinus Membrane Perforation for Single and Multiple Teeth Replacements, *J Med - Clin Res & Rev.* 2019; 3(3): 1-6.
2. Nkem Obiechina, Treatment Planning Dental Implants in the Anterior Maxilla. Risk Assessment for Successful Esthetic and Functional Clinical Outcomes. *Oral Health Dental Sci.* 2019; 3(2): 1-9.
3. Nkem Obiechina, Periodontal microbiota and clinical periodontal status in a rural sample in southern Thailand, *European Journal of Oral Sciences:* 110(5), 2002, Pg 345-352.

### Biography

Nkem Obiechina completed her training in periodontics and implant dentistry from Columbia University. She received her doctorate from University of Pittsburgh in 1998. She is the recipient of the Melvin Morris Award for clinical excellence in 2001 from Columbia University, and Northeast regional board award for excellence in periodontics. She is published in *Dentistry Today*, *Oral Health and Dental Science*, *Oral health and Dental Management*, *Journal of Medical Clinical Research and Reviews*, as well as *European Journal of Oral Sciences*. She works in Periodontics private practice in Washington DC area San Francisco and is also a continuing education provider that continues to offer seminars and courses to dentists.

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