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All ceramic implantology with Zirconia dental implants: Rationale, case selection, treatment planning and clinical outcomes

Following in the footsteps of medical orthopedics, the last decade has seen zirconia the tetragonal crystal phase of zirconium become an acceptable and proven material of choice in dentistry. Zirconia abutments on metal implants have been widely used especially when aesthetics are of concern mainly because of the exceptional soft tissue response. Research is increasingly proving that not all patients are physiologically able to accept or tolerate metal implants as such the search for an alternative to titanium and titanium alloy implants has been active for over twenty years. Bioceramics such as Y-TZP Zirconia have emerged as the alternative of choice in dental implantology. Zirconia is an inert bioceramic which has excellent biomechanical properties, does not conduct heat, retains no plaque and it is not susceptible to galvanic activity or corrosion in the oral environment. Most ceramic implants today are one-piece therefore case planning, surgical technique, post-surgical monitoring, restorative options and materials are critical for long term case success. This presentation will first cover zirconia as an implant material and the reasons why and instances when it should be the material of choice for implantation. Second through clinical case presentations decision trees on case selection, treatment planning and surgical protocol will be presented.

Biography

Sammy Noubissi obtained his Doctorate in Dental Surgery from Howard University in Washington DC. He then attended Loma Linda University where he received three years of formal training in Implant Dentistry which culminated with a certificate and a Master of Science degree in Implant Dentistry. He has published abstracts and articles in peer reviewed dental journals namely the Journal of Dental Research, the Journal of Oral Implantology and the Journal of Implant and Clinical Dentistry. He is a member of the editorial board of the Journal of Implant and Advanced Clinical Dentistry, the Dentistry and Medical Online Journal, a reviewer for the Journal of Oral Implantology and the current president for the International Academy of Ceramic Implantology. Dr. Noubissi is the founder, current owner and president of Miles of Smiles Institute for Implant Dentistry LLC, a holistic dental implantology practice that delivers advanced education and patient care in state of the art metal-free dental implantology. He practices in Silver Spring, Maryland USA.

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