

ICOI Winter Implant Symposium

Phoenix, Arizona ~ February 14-16, 2019

JW Marriott Desert Ridge

Scientific References/Citations

Dr. Bach Le - Vertical Hard Tissue Augmentation in the Esthetic Zone

- Ole T Jensen, Lee Kuhlke, Jean-Francois Bedard, Dawn White. Alveolar Segmental Sandwich Osteotomy for Anterior Maxillary Vertical Augmentation Prior to Implant Placement. *J Oral Maxillofacial Surg* 2006 Mar;64(2):290-6
- Isabella Rocchietta, Filippo Fontana, Massimo Simion. Clinical outcomes of vertical bone augmentation to enable dental implant placement: A systematic review. *Journal Of Clinical Periodontology* 2008 Oct; 35(8 Suppl):203-15
- Le BT et al. Screw Tent-pole Technique for Vertical Augmentation of the Alveolar Ridge for Implant Placement. *J Oral Maxillofac Surg* 2010 Feb; 68 (2):428-435.

Dr. Ady Palti – Update Sinus Elevation 2019 – Success Criteria, Complications and Solutions

- The Effect of Piezoelectric Use on Open Sinus Lift Perforation: A Retrospective Evaluation of 56 Consecutively Treated Cases from Private Practices January 2010 *Journal of Periodontology* 81(1):167-71
- Crestal Sinus Lift With Sequential Drills and Simultaneous Implant Placement in Sites With December 2011 *Implant Dentistry* 20(6):439-44
- Crestal sinus lift by using a mini-invasive procedure: a case series April 2016 *Minerva stomatologica* 65(4)

Dr. Zeev Ormianer - The Power of Implants Micro and Macro Structure and Surgical Protocols on Bone Deficiency Cases

- J. Block, S. Matalon G. Tanase, Z. Ormianer. Effect of Restorative Configurations and Occlusal Schemes on Strain Levels in Bone Surrounding Implants. *Implant Dentistry*. Vol:26(4)pp:574-580.2017
- Z. Ormianer, S. Matalon, J. Block, J. Kohen. Dental implant thread design and the consequences on long-term marginal bone Loss. *Implant Dentistry*, Vol.25, pp 471-477,2016.
- .Kohen, S. Matalon, J. BlockC, Z. Ormianer Effect of Implant Insertion and Loading Protocols on Long-Term Stability and Crestal Bone Loss: A Comparative Study. *Journal of Prosthetic Dentistry*, Vol.115, pp 109-113 ,2016

Prof. Fernando Guerra - The Importance of Biomaterials in Oral Rehabilitation

- Milinkovic I, Cordaro L. Are there specific indications for the different alveolar bone augmentation procedures for implant placement? A systematic review. *Int J Oral*

Maxillofac Surg. 2014 May;43(5):606-25. doi: 10.1016/j.ijom.2013.12.004

- Pereira E., Messias A., Dias R., Judas F., Salvoni A. & Guerra F. (2015) Horizontal Resorption of Fresh-Frozen Corticocancellous Bone Blocks in the Reconstruction of the Atrophic Maxilla at 5 Months. Clinical Implant Dentistry and Related Research 17 Suppl 2, pp. e444-458. doi:10.1111/cid.12268.
- Figueiredo A., Coimbra P., Cabrita A., Guerra F. & Figueiredo M. (2013) Comparison of a xenogeneic and an alloplastic material used in dental implants in terms of physicochemical characteristics and in vivo inflammatory response. Materials Science and Engineering C: Materials for Biological Applications 33 (6), pp. 3506-3513. doi:10.1016/j.msec.2013.04.047.
- Figueiredo M., Henriques J., Martins G., Guerra F., Judas F. & Figueiredo H. (2010) Physicochemical characterization of biomaterials commonly used in dentistry as bone substitutes - comparison with human bone. Journal of Biomedical Materials Research Part B: Applied Biomaterials 92 (2), pp. 409-419. doi:10.1002/jbm.b.31529.

Dr. Chandur Wadhwani - *Best Clinical Practices: Restoring Dental Implants in 2019*

- Techniques to optimize color, esthetics, bonding and peri-implant health with titanium implant abutments. 2018 Feb Compend Contin Edu Dent
- Accuracy and reproducibility of radiographic images assessing crestal bone heights of implants. Int J oral Maxillofac implants 2017 July
- In-vitro study of contamination remaining on used healing abutments after cleaning and sterilization in dental practice Clin. Implants Dent and Relat Res 2016 Dec

Dr. Christian Makary - *Minimizing the Risks in Maxillary Sinus Floor Elevations*

- Esposito et al. Effectiveness of sinus lift procedures for dental implant rehabilitation: a Cochrane systematic. Eur J Oral Implantol 2010; 3 (1) : 7-26.
- Changes in Schneiderian membrane thickness following lateral sinus floor elevation: A radiographic study. Makary C, Rebaudi A, Menhall A, Naaman N. IJOMI Mar/Apr2016, Vol. 31 Issue 2, p331-337
- Handschel et al. A histomorphometric meta-analysis of sinus elevation with various grafting materials. Head Face Med 2009; 5: 12.
- Stacchi C. et al Intraoperative Complications During Sinus Floor Elevation with Lateral Approach: A Systematic Review. International Journal of Oral & Maxillofacial Implants. May/Jun2017, Vol. 32 Issue 3, pp107-118.

Dr. Jack Krauser - *A Graftless Solution to the Terminal or Edentulous Maxilla: Historical Development, Surgical Advancements and New Restorative Materials*

- Hopp M, de Araujo Nobre M, Malo P. Comparison of marginal bone loss and implant success between axial and tilted implants in maxillary...*Clin Impl Dent Relat Res* 2017, oct;19[5]: 849-859
- Malo P, de Araujo Nobre M, Lopes A, et al: Axial implants in immediate function...up to ten years. *Implant Dent*2015, Oct, 24[5]: 557-564
- Malo P, de Araujo Nobre M, Lopes A, et al: All-on-4 treatment concept for rehabilitation of the complete edentulous...*Clin Impl Dent Relat Res* 2015, Oct 17 Suppl 2: e531-541
- Malo P, de Araujo Nobre M, Lopes A, Rodriques R. Double full arch versus single full arch, four implanted-supported rehabilitations...*J Prosthodont* 2015 Jun 24[4] 263-270

Dr. Gustavo Avila-Ortiz - *Management of the Extraction Site: An Essential Component of Contemporary Implant Therapy Protocols*

- Avila-Ortiz G, Elangovan S, Kramer KW, Blanchette D, Dawson DV. Effect of alveolar ridge preservation after tooth extraction: a systematic review and meta-analysis. *J Dent Res* 2014;93:950-958.
- Araujo MG, Sukekava F, Wennstrom JL, Lindhe J. Ridge alterations following implant placement in fresh extraction sockets: an experimental study in the dog. *J Clin Periodontol* 2005;32:645-652.
- Spinato S, Galindo-Moreno P, Zaffe D, Bernardello F, Soardi CM. Is socket healing conditioned by buccal plate thickness? A clinical and histologic study 4 months after mineralized human bone allografting. *Clinical oral implants research* 2014;25:e120-126.
- Tomasi C, Donati M, Cecchinato D, Szathvary I, Corra E, Lindhe J. Effect of socket grafting with deproteinized bone mineral: An RCT on dimensional alterations after 6 months. *Clinical oral implants research* 2018

Dr. Yong Hur - *Implants in Regenerated Bone: Is Over-Augmentation Necessary?*

- Bone Resorption During Submerged Healing After Guided Bone Regenerations: A Prospective Case Series Hur Y, Ogata Y, Kim DW, Pham CM, Yoon TH, Ogata H. *Implant Dent.* 2017 Dec;26(6):820-825.
- Crestal bone resorption in augmented bone using mineralized freeze-dried bone allograft or pristine bone during submerged implant healing: a prospective study in humans. Huang HY, Ogata Y, Hanley J, Finkelman M, Hur Y. *Clin Oral Implants Res.* 2016 Feb;27(2):e25-30
- Changes in alveolar bone height and width following ridge augmentation using bone graft and membranes. Simon B, Von Hagen S, Deasy M J *Periodontol.* 2000 Nov;71(11):1774-91.
- Clinical and radiographic comparison of implants in regenerated or native bone: 5-year results Benic G, Jung R, Siegethaler D, Hammerle C *Clin Oral Implants Res.* 2009 May;20(5):507-13.

Dr. Miltiadis Mitsias - *Optimizing Anterior Aesthetics: The Root Membrane Technique*

- Siormpas KD, Mitsias ME, Kontsiotou-Siormpa E, Garber D, Kotsakis GA. Immediate implant placement in the esthetic zone utilizing the "root-membrane" technique: clinical results up to 5 years postloading. *Int J Oral Maxillofac Implants*. 2014; 29 (6): 1397–1405.
- Mitsias ME, Siormpas KD, Kontsiotou-Siormpa E, Prasad H, Garber D, Kotsakis GA. A Step-by-Step Description of PDL-Mediated Ridge Preservation for Immediate Implant Rehabilitation in the Esthetic Region. *Int J Periodontics Restorative Dent*. 2015; 35 (6): 835–841.
- Mitsias ME, Siormpas KD, Kotsakis GA, Ganz SD, Mangano C, Iezzi G. The root membrane technique: human histologic evidence after five years of function. *Biomed Res Inter* 2017; 2017: 7269467.
- Schwimer C, Pette GA, Gluckman H, Salama M, Du Toit J. Human Histologic Evidence of New Bone Formation and Osseointegration Between Root Dentin (Unplanned Socket-Shield) and Dental Implant: Case Report. *Int J Oral Maxillofac Implants*. 2018; 33 (1): e19–e23.

Dr. Robert Miller - *Synergy in Surgery: Enhancing the Implant Site by Combining New Biomaterials and Autologous Growth Factors*

- Ruano R, Jaeger R, Jaeger M; Effect of a Ceramic and a Non-Ceramic Hydroxyapatite on Cell Growth and Procollagen Synthesis of Cultured Human Gingival Fibroblasts, *J Periodontology* 71(4) 540-545, 2000
- Valen M, Ganz S; A Synthetic Bioactive Resorbable Graft (SBRG) for Predictable Implant Reconstruction, *J Oral Implantology*, 28(4):167-177, 2002
- Marcelo M, Wassal T; A 10-Year Longitudinal Study of 160 Implants Simultaneously Installed in Severely Atrophic Posterior Maxillas Grafted With Autogenous Bone and a Synthetic Bioactive Resorbable Graft; *Implant Dentistry* 19(4) 351-356, 2010

Dr. Dennis Smiler - *Minimally Invasive Sinus Bone Graft, and When Sinus Lift Is Not Enough: Zygoma and Pterygoid Implants*

- Sinus Lift Procedure Using Porous Hydroxyapatite Dennis G. Smiler, DDS, MScD, Ralph Holmes, MD *Journal Oral Implantology*, 1987
- Sinus Lift Grafts And Endosseous Implants Dennis G. Smiler, DDS, MScD, Paul Johnson, DDS, Jaime Lozada, DDS, Carl Misch, DDS, Joel Rosenlicht, DMD, Hilt Tatum Jr, DDS, Jon Wagner, DDS *Dental Clinics of North America*, 1992
- The Sinus Lift Graft: Basic Techniques and Variations Dennis G. Smiler, DDS, MScD *Practical Periodontics & Aesthetics* 1997
- ZYGOMATIC DENTAL IMPLANTS VS. SINUS LIFT BONE GRAFT REVIEW DR. RAMSEY AMIN September 20, 2017

Dr. Dwayne Karateew - *Prosthetic Techniques to Enhance Soft Tissue Esthetic Outcomes*

- Abrahamson I, Berglundh T, Lindhe J (1997) The mucosal barrier following abutment dis/reconnection. An experimental study in dogs. *J Clin Periodontal* 24(8):568-572.
- Al-Nsour MM, Chan HL (2012) Effect of the platform-switching technique on preservation of peri-implant marginal bone: a systematic review. *Int J Oral Maxillofac Implants* 27(1):138-145
- Deguigi M, Nardi D, Piattelli A (2011) Once abutment at one time: non-removal of an immediate abutment and its effect on bone healing around subcrestal tapered implants. *Clin Oral Implants Res* 22(11):1303-1307
- Karateew ED (2014) Mac and Zac: clinical protocols for predictable implant aesthetics. *Dentistry Today* 33(9):90-98

Dr. Lyndon Cooper - *A Data Based Approach to Optimizing Dental Implant Esthetics*

- Nisapakultorn K, Suphanantachat S, Silkosessak O, Rattanamongkolgul S. Factors affecting soft tissue level around anterior maxillary single-tooth implants. *Clin Oral Implants Res.* 2010;21:662-670.
- Evans CD, Chen ST. Esthetic outcomes of immediate implant placements. *Clin Oral Implants Res.* 2008;19:73-80
- Jung RE, Zembic A, Pjetursson BE, Zwahlen M, Thoma DS. Systematic review of the survival rate and the incidence of biological, technical, and aesthetic complications of single crowns on implants reported in longitudinal studies with a mean follow-up of 5 years. *Clin Oral Implants Res.* 2012 Oct;23 Suppl 6:2-21
- Cooper LF, Reside G, Stanford C, Barwacz C, Feine J, Abi Nader S, Scheyer ET, McGuire M. A multicenter randomized comparative trial of implants with different abutment interfaces to replace anterior maxillary single teeth. *Int J Oral Maxillofac Implants.* 2015;30:622-632

Dr. Kyle Stanley - *Implant Prosthetics: Understanding Biology from a Restorative Standpoint*

- *Int J Oral Maxillofac Implants.* 2013 May-Jun;28(3):807-14. doi: 10.11607/jomi.3022. The effect of healing abutment reconnection and disconnection on soft and hard peri-implant tissues: a short-term randomized controlled clinical trial. Koutouzis T1, Koutouzis G, Gadalla H, Neiva R.
- *Clin Implant Dent Relat Res.* 2015 Dec;17(6):1228-36. doi: 10.1111/cid.12222. Epub 2014 Mar 28. Influence of Vertical Soft Tissue Thickness on Crestal Bone Changes Around Implants with Platform Switching: A Comparative Clinical Study. Linkevicius T1,2,3, Puisys A2,3, Steigmann M4, Vindasiute E2,3, Linkeviciene L1.
- *Clin Oral Implants Res.* 2015 Sep;26 Suppl 11:139-47. doi: 10.1111/clr.12631. Epub 2015 Jun 13. The effect of zirconia or titanium as abutment material on soft peri-implant tissues: a systematic review and meta-analysis. Linkevicius T1,2,3, Vaitelis J4.

Dr. Preet Desai - *Hacking Peri-implantitis*

- Trolano G et al . Combination of bone graft and resorbable membrane for alveolar ridge preservation: A systematic review, meta-analysis, and trial sequential analysis. *J Periodontol.* 2018;89:46–57.
- Nelson S et al. Bacterial Persistence in dentoalveolar bone following extraction: a microbiological study and implications for dental implant treatment. *Clinical Implant Dentistry and Related Research.* 2010 Dec 12(4):306-14.
- Yamamoto et al Treatment of peri-implantitis around TiUnite-surface implants using Er:YAG laser microexplosions. *Int J Periodontics Restorative Dent.* 2013 Jan-Feb;33(1):21-30
- Froum SJ et al. Successful Surgical Protocols in the Treatment of Peri-Implantitis: A Narrative Review of the Literature. *Implant Dent* 2016;25:416–426

Dr. Ali Afshar - *Validation of a Systematic Protocol for Peri-implant Disease Management*

- Periodontal disease (a biofilm induced modulated diseases) is a chronic inflammation which is characterized by the destruction of support connective tissue and alveolar bone loss with the formation of a periodontal pocket.
Flemmig TF. *Periodontitis.* Ann Periodont 1999; 4: 32"37.
- Reynaud AH, Nygaard-Ostby B, Boygard GK, et al. Yeasts in periodontal pockets. *J Clin Periodontol* 2001; 28: 860"864.
- Patients with chronic periodontitis had a greater percentage of colonization than periodontally healthy patients. Urzúa B, Hermosilla G, Gamonal J, Morales-Bozo I, Canals M, Barahona S, et al. Yeast diversity in the oral microbiota of subjects with periodontitis. *Candida albicans* and *Candida dubliniensis* colonize the periodontal a pockets *Med Mycol.* 2008;46:783-93.
- In vitro adherence of *Candida albicans* isolated from patients with chronic periodontitis. *J Appl Oral Sci.* 2011;19(4):384-7
- Rate of progression depends on: Microflora composition. Host modifying factors. Lopez NJ. Occurrence of *Actinobacillus actinomycetemcomitans*, *Porphyromonas gingivalis*, and *Prevotella intermedia* in progressive adult periodontitis. *J Periodontol* 2000; 71: 948"954.
- Haffajee AD, Bogren A, Hasturk H, et al. Subgingival microbiota of chronic periodontitis subjects from different geographic locations. *J Clin Periodontol* 2004; 31: 996"1002.