

ICOI Summer Prosthetic Implant Symposium – Implant Failures

Chicago, Illinois ~ August 20-23, 2014

Hyatt Regency McCormick Place

Main Podium Speakers Scientific References/Citations

Dr. Charles Goodacre: Determining When To Extract A Tooth And Place An Implant OR Retain A Tooth Through Root Canal Treatment / Periodontal Treatment OR Place A Conventional Fixed Partial Denture

- Torabinejad M, Anderson PA, Bader J, Brown LJ, Chen LH, Goodacre CJ, Kattadiyil MT, Kutsenko D, Lozada J, Patel R, Petersen F, Puterman I, White SN. Outcomes of root canal treatment and restoration, implant-supported single crowns, fixed partial dentures, and extraction without replacement: A systematic review. *J Prosthet Dent* 2007;98(4):285-311.
- Torabinejad M, Goodacre CJ. Endodontic or dental implant therapy. The factors affecting treatment planning. *J Am Dent Assoc* 2006;137:973-977.
- Adell R, Lekholm U, Rockler B, Brånemark PI. A 15-year study of osseointegrated implants in the treatment of the edentulous jaw. *Int J Oral Surg* 1981;10:387-416.
- Libman WJ, Nicholls JI: Load fatigue of teeth restored with cast posts and cores and complete crowns. *Int J Prosthodont* 1995;8:155-161.
- Tan PL, Aquilino SA, Gratton DG, Stanford CM, Tan SC, Johnson WT, Dawson D. In vitro fracture resistance of endodontically treated central incisors with varying ferrule heights and configurations. *J Prosthet Dent* 2005;93:331-336.
- Creugers NH, Kreulen CM, Snoek PA, de Kanter RJ. A systematic review of single-tooth restorations supported by implants. *J Dent* 2000;28:209-17.
- Scurria M, Bader J, Shugars DA. Meta-analysis of fixed partial denture survival: Prostheses and abutments. *J Prosthet Dent* 1998;79:459-64.

Dr. Kenneth Hebel: Implant: Treatment Planning – Chaos or Clarity?

- Anatomic Basis for implant Selection and Positioning: Dental Implants, The Art and Science Hebel KS, Gajjar RC. Saunders, 1991
- Clinical risk factors related to failures with zirconia-based restorations: an up to 9-year retrospective study Koenig V, Vanheusden AJ, Le Goff SO, Mainjot AK. J Dent 2013 Dec; 41(12):1164-74. Doi:10.1016/j.dent.2013.10.009.Epub 2013 Oct 14
- CAD/CAM- based implant abutments Kurbad A, Kurbad S. Int J Comput Dent. 2013;16(2): 125-41. English, German

Mr. Lee Culp: ZEN: Zirconia Esthetics Naturally

- Journal of Dentistry!Volume 35, Issue 11, November 2007, Pages 819–826An overview of zirconia ceramics: Basic properties and clinical applications!Paolo Francesco Manicone, Pierfrancesco Rossi IommettiCorresponding author contact information, E-mail the corresponding author, Luca Raffaelli
- Clinical Oral Investigations!December 2009, Volume 13, Issue 4, pp 445-451 Three-year clinical prospective evaluation of zirconia-based posterior fixed dental prostheses !Florian Beuer, Daniel Edelhoff, Wolfgang Gernet, John A. Sorensen
- Clinical Oral Investigations!September 2009, Volume 13, Issue 3, pp 343-349!Precision of fit: zirconia three-unit fixed dental prostheses!Florian Beuer, Michael Naumann, Wolfgang Gernet, John A. Sorensen

Dr. Ady Palti: Surgical and Prosthetical Complications in Oral Implantology - How We Can Avoid and/or Solve Them

- Sang-Hoen Park, DDS and Hom-Lay Wang (Implant Dentistry 2005) Jingjing Li, Hom-Lay Wang (Implant Dentistry 2008)
- AN up to 15 year longitudinal study of 515 Metal-Ceramic FPDS: Art 2: Modes of failure and influence of various clinical characteristics. Walton P.W. IKP 2003
- Complications of Dental Implant reported so widely 1% to 40% (Charles Goodacre, Implant Prosthetic Dentistry 2003)

Dr. Edwin Scher: What Went Wrong (with your single tooth implant) Complications, Errors, and Problem Solving

- Association of Dental Implantology UK online learning programme (ARK) see there website adi.org.uk (Complications module)
- Scher E.L.C: A Gross Error Occurred When Treatment Planning a Guided Surgery Case. Implant Dentistry, 2009;18:297-302
- Post-operative soft tissue shrinkage; Grunder 2002, Cochran et al. 2002, Makigusa 2009.

Dr. Ray Yukna: Saving Failing Implants with Nd:YAG Laser

- Atieh MA, Alsabeeha NH, Faggion CM Jr, Duncan WJ. The frequency of peri-implant diseases: A systematic review and meta-analysis. *J Periodontol* 2012; Dec 13 Epub ahead of print
- Langervall M, Jansson LE. Treatment outcome in patients with peri-implantitis in a periodontal clinic – a retrospective study. *J Periodontol* 2012; Dec 13 Epub ahead of print
- Park CY, Kim SG, Kim MD, Eom TG, Yoon JH, Ahn, SG. Surface properties of endosseous dental implants after Nd:YAG and CO2 laser treatment at various energies. *J Oral Maxillofac Surg* 2005; 63(10): 1522-1527

Dr. Ricardo Mitrani: Redesigning the poorly planned Implant Supported Reconstruction

- Clinical complications of osseointegrated implants. Goodacre CJ, Kan JY, Rungcharassaeng K. *J Prosthet Dent*. 1999 May;81(5):537-52
- Cemented and screw-retained implant reconstructions: a systematic review of the survival and complication rates. Sailer I, Mühlemann S, Zwahlen M, Hämmerle CH, Schneider D. *Clin Oral Implants Res*. 2012 Oct;23 Suppl 6:163-201
- Mechanical and technical risks in implant therapy. Salvi GE, Brägger U. *Int J Oral Maxillofac Implants*. 2009;24 Suppl:69-85. Review

Dr. Thomas Rams: Infectious Dental Implant Complications

- Rams TE, Degener JE, van Winkelhoff AJ. Antibiotic resistance in human peri-implantitis microbiota. *Clinical Oral Implants Research* 25: 82-90, 2014.
- Tabanella G, Nowzari H, Slots J. Clinical and microbiological determinants of ailing dental implants. *Clinical Implant Dentistry and Related Research* 11: 24-36, 2009
- Mouhyi J, Dohan Ehrenfest DM, Albrektsson T. The peri-implantitis: implant surfaces, microstructure, and physicochemical aspects. *Clinical Implant Dentistry and Related Research* 14:170-183, 2012

Dr. Lyndon Cooper: Data: A powerful tool for optimal implant esthetics.

- Cosyn J, Hooghe N, De Bruyn H. A systematic review on the frequency of advanced recession following single immediate implant treatment. *J Clin Periodontol*. 2012;39:582-589
- Cooper LF, Raes F, Reside GJ, Garriga JS, Tarrida LG, Wiltfang J, Kern M, de Bruyn H. Comparison of radiographic and clinical outcomes following immediate provisionalization of single-tooth dental implants placed in healed alveolar ridges and extraction sockets. *Int J Oral Maxillofac Implants*. 2010;25:1222-1232.
- Sanz M, Cecchinato D, Ferrus J, Salvi GE, Ramseier C, Lang NP, Lindhe J. Implants placed in fresh extraction sockets in the maxilla: clinical and radiographic outcomes from a 3-year follow-up examination. *Clin Oral Implants Res*. 2013 Feb 25.

Dr. Kent Knoernschild: Reducing Complications from Occlusion

- Pjetursson BE, Thoma D, Jung R, Zwahlen M, Zembic A. A systematic review of the survival and complication rates of implant supported fixed dental prostheses (FDPs) after a mean observation period of at least 5 years. *Clin Oral Implants Res.* 2012 Oct;23 Suppl 6:22-38
- Papaspyridakos P, Chen CJ, Chuang SK, Weber HP, Gallucci GO. A systematic review of biologic and technical complications with fixed implant rehabilitations for edentulous patients. *Int J Oral Maxillofac Implants.* 2012 Jan-Feb;27(1):102-10.
- Taylor TD, Wiens J, Carr A. Evidence-based considerations for removable prosthodontic and dental implant occlusion: a literature review. *J Prosthet Dent.* 2005 Dec;94(6):555-60.

Dr. Guido Sarnachiaro: How to Avoid Esthetic Failures in the Management of Extraction Sockets and Immediate Implant Placement

- The Dual Zone Therapeutic concept of managing immediate implant placement and provisional restoration in anterior ext sockets. *Comp Contin Ed Dent.* 2012
- A retrospective study of 1,925 consecutively placed immediate implants from 1988-2004. *Wagenberg- Floam TOMI 2006, Volume 21, November 1.*

Dr. Craig Misch: Vertical Bone Augmentation to Repair Failed Implant Sites

- Misch CM. Autogenous bone: is it still the gold standard? *Implant Dent* 2010;19:361.
- Misch CM. Bone augmentation of the atrophic posterior mandible for dental implants using rhBMP-2 and titanium mesh: clinical technique and early results. *Int J Periodontics Restorative Dent* 2011;31:581-589.
- Rocchietta I, Fontana F, Simion M. Clinical outcomes of vertical bone augmentation to enable dental implant placement: a systematic review. *J Clin Periodontol* 2008;35:203-215.

Dr. Justin Moody: Avoiding Implant Complications With the Use of 3D Imaging

- Connective tissue attachment to laser microgrooved abutments; M Nevins, M Carelo, ML Nevins, P Schupbach, DM Kim, *Int J Periodontics Restorative Dent*, Vol 32. Num 4, 2012
- Histologic evidence of connective tissue integrated on laser microgrooved abutments. NC Geurs, PJ Vassilopoulos, MS Reddy. *Clinical Advances in Periodontics* Vol 1, num 1, May 2011
- Assessment of phantom dosimetry and image quality of the I-CAT FLX cone beam computed tomography. J Ludlow, C Walker. *American journal of Orthodontics and Dentofacial Orthopedics*, Vol 144, Issue 6, Dec 2013

Dr. Les Kalman: Prevention & Management of Compromised Results

- Misch CE & Dietch-Misch F. Diagnostic Casts, Preimplant Prosthodontics, Treatment Prosthesis, and Surgical Templates. In Misch CE. Implant Dentistry (2nd ed.) p135-149, St. Louis, 1999, Mosby.
- Martin WC, Morton D. and Buser D. Pre-operative analysis and prosthetic treatment planning in esthetic implant dentistry. In Buser D, Belser U. and Wismeijer D. eds. Implant Therapy In The Esthetic Zone-Single Tooth Replacements (Volume 1) Berlin: Quintessence; 2007. p. 11-19.
- Chen S. and Buser S. Factors influencing the treatment outcomes of implants in post-extraction sites. In Buser D, Wismeijer D. and Belser U. eds. Implant Placement In Post-Extraction Sites Treatment Options. (Volume 3) Berlin: Quintessence; 2008. p. 18-42.

Dr. Robert Blackwell: How to Avoid and Treat Prosthetic Implant Complications

- “A Comparison of Implant Prosthetic Loading with 4 Variables” Weinberg, LA et al. Intl J Pros. 1995
- “Implant Failures” Rangert, et al. JOMI 1995