

Robert B. Kerstein, DMD

BIOGRAPHY

Robert B. Kerstein received his DMD degree in 1983, and his Prosthodontic Certificate in 1985, both from Tufts University School of Dental Medicine. From 1985 - 1998, he maintained an active appointment at Tufts as a clinical professor teaching fixed and removable Prosthodontics in the department of Restorative Dentistry. During those years Dr. Kerstein intensively studied computerized occlusal analysis where his research focused on the role that Occlusion and lengthy Disclusion Time plays in the etiology of Chronic Occluso-Muscle Disorder.

Dr Kerstein's, now 31 years of research with the *T-Scan* I, II, III, 8 and 9, Computerized Occlusal Analysis System(s), has led to his becoming the leading author and clinician in the field of Computerized Occlusal analysis. His findings have been published in the *Journal of Prosthetic Dentistry*, *Practical Periodontics and Aesthetic Dentistry*, *Compendium for Continuing Education*, *Journal of Craniomandibular Practice*, *Quintessence International*, *General Dentistry*, and *Contemporary Esthetics*. Additionally, he has lectured nationally and internationally regarding Prosthetic Dentistry, Anterior Guidance, Computerized Occlusal Analysis, and Disclusion Time Reduction.

Dr. Kerstein maintains a successful private practice that is limited to Prosthodontics, and Computerized Occlusal Analysis in Boston, Massachusetts.

He has lectured nationally and internationally on:

- Prosthetic Dentistry
- Anterior Guidance
- Computerized Occlusal Management of Dental Implants
- Disclusion Time Reduction Therapy for TMD

EDUCATION

1983 - 1985 Tufts University School of Dental Medicine
Division of Advanced Education
Postgraduate program in Fixed and Removable Prosthodontics
Certificate in Prosthodontics awarded July, 1985

1980 - 1983 Tufts University School of Dental Medicine
Degree program in general dentistry
Degree awarded - D.M.D. May, 1983

1976 - 1980 Tufts University
Major in Chemistry
Degree awarded - Bachelor of Science (B.Sc.), May, 1980

PROFESSIONAL EXPERIENCE

2014 - Practice limited to Prosthodontics and Myofascial Pain

21 Bay State Rd., Suite 3
Boston, Mass. 02215

1987 – 2014 Practice limited to Prosthodontics and Myofascial Pain
665 Beacon St., Suite 204
Boston, Mass. 02215

1985 - Practice limited to Prosthodontics and Myofascial Pain
64 East Haverhill St.
Lawrence, Mass. 01841

1981 - Dental Laboratory Technician
Cast Gold
Metal Ceramics
Complete Dentures
Removable Partial Dentures

1985 - 1987 Practice limited to Prosthodontics
1087 Beacon St.
Newton, Mass. 02159

17 Fairfield Plaza
Boston, Mass. 02115
1985 - 1986 Practice limited to Prosthodontics

Gentle Dental Center
Staff Prosthodontist
West Roxbury, Mass

1983 - 1985 General Dental Practice
509 Moody St.
Waltham, Mass.

1981 - 1983 Dental Hygienist
509 Moody St.
Waltham, Mass.

TEACHING EXPERIENCE

1985 - 1998 Tufts University School of Dental Medicine
Assistant Clinical Professor
Crown and Bridge Faculty
Department of Restorative Dentistry

PUBLICATIONS

1. Kerstein, R.B., Wright, N., An electromyographic and computer analysis of patients suffering from chronic myofascial pain dysfunction syndrome; pre and post - treatment with immediate complete anterior guidance development. *Journal of Prosthetic Dentistry* 1991; 66(5):677 - 686.
2. Kerstein, R.B., and Farrel, S., Treatment of myofascial pain dysfunction syndrome with

occlusal equilibration. *Journal of Prosthetic Dentistry* 1990; 63:695 - 700.

3. Kerstein, R. Disclusion time reduction therapy with immediate complete anterior guidance development: the technique. *Quintessence International*. 1992;23:735 - 747.
4. Kerstein, R.B., New occlusal parameter improves treatment success. *Dentistry Today*. 1992;11(6):52 - 59.
5. Kerstein, R.B., A comparison of traditional occlusal equilibration and immediate complete anterior guidance development. *Cranio*. 1993;11(2):126 - 140.
6. Kerstein, R.B., The hows and whys of disclusion time reduction therapy. *Dentistry Today*. 1993;12(3):34 - 37.
7. Kerstein, R.B., Anterior guidance enhancement before disclusion time reduction. *Dentistry Today*, 1993;12(6):57 - 59.
8. Kerstein, R.B., Letter to the editor. *Journal of Prosthetic Dentistry*. 1993;70(1):99 - 100.
9. Kerstein, R.B., Alternative splint design to reduce Disclusion Time in severe open occlusion patients. *Dentistry Today*, 1994;13(3):68 - 73.
10. Kerstein, R.B., Disclusion Time Measurement Studies: Stability of disclusion time. a 1 year follow - up study. *Journal of Prosthetic Dentistry*. 1994;72(2):164 - 168
11. Kerstein, R.B., Disclusion time measurement studies; Part 2: A comparison of disclusion time length of 49 chronic myofascial pain dysfunction syndrome patients to 40 non - patients. A population analysis. *Journal of Prosthetic Dentistry*, 1994; Vol. 72(5), 473-480.
12. Kerstein, R.B., Treating Myofascial Pain dysfunction Syndrome., *Dentistry Today*, 1995;14 (3):52-57.
13. Kerstein, R.B., Treatment of myofascial pain dysfunction syndrome with occlusal therapy to reduce lengthy disclusion time - a recall study, *Cranio*, 1995; 13(2):105-115.
14. Kerstein, R.B., Chapman R., and Klein, M., A comparison of ICAGD (Immediate complete Anterior Guidance Development) to "mock ICAGD" for symptom reductions in chronic myofascial pain dysfunction patients. *Cranio*, 1997: 15(1):21-37
15. Abstract of Kerstein, R.B., Chapman R., and Klein, M., A comparison of ICAGD (Immediate complete Anterior Guidance Development) to "mock ICAGD" for symptom reductions in chronic myofascial pain dysfunction patients. (*Cranio*, 15(1):21-37,1997), *TMJ Update*. Vol. 15, No.2, Mar/Apr 1997
16. Kerstein, R.B., Is patient confirmation an adequate indicator of occlusal adjustment completion? *Dentistry Today* 1997;16(10):72-75
17. Kerstein, R, B. Computerized Occlusal Management of a fixed /detachable implant prosthesis. *Practical Periodontics and Aesthetic Dentistry* November 1999, vol. 11(9):1093-1102

18. Kerstein, R, B. Employing a Non-Simultaneous Occlusal Scheme to Compensate for Tooth Movement In Mixed Implant – Natural Tooth Combination Occlusal Schemes. Accepted for publication by *Practical Periodontics and Aesthetic Dentistry*
19. Kerstein, R, B., Wilkerson, D., Locating the centric relation prematurity with the aid of a computerized occlusal analysis system. *Compendium* 2001;22(6);525-536.
20. Kerstein, R, B. Montgomery, M. Mapping occlusal forces on rebuilt anterior guidance. *Cont. Esthetics*; April, 2000 Vol. 14 no. 4, pg. 68-73
21. Kerstein, R.B., Grundset, K., Obtaining Bilateral Simultaneous Occlusal Contacts With Computer Analyzed and Guided Occlusal Adjustments. *Quintessence Int.* 2001;32:7-18
22. Kerstein, R.B., Castellucci, F., Osorio, J. Utilizing Computer Generated Titanium Permanent Healing Abutments To Promote Ideal Gingival Form and Anatomic Restorations On Implants. *Compendium* 2000;21(10);793-802.
23. Kerstein, R.B., Time measurement capacity and occlusal indicators. *Submitted to the Texas State Dental Journal* 4/2001
24. Kerstein, R.B., Current Applications of Computerized Occlusal Analysis in Dental Medicine. *General Dentistry* 2001;49(5);521-530.
25. Kerstein, R.B., Grundset, Ken: Obtencion de contactos oclusales bilaterales simultaneous cuantificables mediante ajustes oclusales analizados y guiados por ordenador, *Quintessence International* (edicion Espanola), Vol. 15, No. 5, 2002, pp. 289-301.
26. Kerstein, R.B., Nonsimultaneous Tooth Contact in Combined Implant and Natural Tooth Occlusal Schemes, *PPAD*, 2002 Vol. 13, No. 9, pp. 751-756.
27. Kerstein, R.B., Using the T-Scan II Occlusal Analysis System During Intraoral Occlusal Case-finiting, *Dental Products Report*, 2002 Vol. 36, No. 1, pp. 102-103.
28. Kerstein, R.B., RB Readers Roundtable *Journal of Prosthetic Dentistry*, September 2003” 90(3) 310-311
29. Kerstein RB. Osorio J. Utilizing computer generated duplicate titanium custom abutments to facilitate intraoral and laboratory implant prostheses fabrication. *PPAD* 2003; 15; 311
30. Kerstein, R.B.; DuPont, Glenn: Anterior Guidance and Muscle Function, *Contemporary Esthetics*, April 2001, Vol. 8, No. 2, pp. 96-109.
31. Kerstein, R.B.; Combining Technologies: A Computerized Occlusal Analysis System Synchronized with a Computerized Electromyography System, *Journal of Craniomandibular Practice*, April 2004, Vol. 22, No. 2, pp. 96-109.
31. Kerstein RB. Simplified protocol for immediate implant placement and restoration. *Pract Proced Aesthet Dent* 2005;18(10Suppl):S16
32. Kerstein RB, M Lowe, M Harty, Radke, J A Force reproduction analysis of two recording

- sensors of a computerized occlusal analysis system. *Journal of Craniomandibular Practice*, January 2006: 24 (1); 15-24
33. Kerstein, RB, Radke J. The effect of Disclusion Time Reduction on maximal clench muscle activity level. *Journal of Craniomandibular Practice*, July 2006: 24 (3); 156-165.
 34. Kerstein, RB delayed implant loading in cases with implants and natural teeth. *Aesthetic Dentistry* Fall 2006. pp 16-20.
 35. Carey JP, Craig M, Kerstein RB, Radke J. Determining a relationship between applied occlusal load and articulating paper mark area. *The Open Dentistry Journal*, July 2007:(1);1-7
 36. Watkin A, Kerstein, RB. Improving darkened anterior peri-implant tissue color with zirconia custom implant abutments. *Compendium May 2008* 29(4); 238-242.
 37. Kerstein, RB. Computerized Occlusal Analysis Technology and Cerec Case Finishing. *Int. J Computerized Dentistry* 2008;11:51-63.
 38. Kerstein RB, Radke J. A comparison of fabrication precision and mechanical reliability of 2 zirconia implant abutments. *JOMI* 2008; 23(6):1029-1036.
 39. Kerstein RB. Reducing chronic masseter and temporalis muscular hyperactivity with computer-guided occlusal adjustments. *Compendium of Continuing Education* 2010;31(7):530-543
 40. Kerstein RB. Health and harmonized function with computer guided force management. *Cosmetic Dentistry* 2011;5(2);6-12
 41. Kerstein, RB. The new rules of occlusion to apply during MICD Cosmetic Reconstruction. *MICD Journal* 2011 Dec-Mar; 01(1);6-16
 42. Qadeer S, Kerstein RB, Yung Kim RJ, Huh JB, Shin SW. Relationship between articulation paper mark size and percentage of force measured with computerized occlusal analysis. *J Adv Prosthodont* 2012;4:1-6
 43. Kerstein RB, Radke J. Masseter and temporalis excursive hyperactivity decreased by measured anterior guidance development. *J Craniomandib Pract* 2012; 30(4):243-254
 44. Pietruski J. K., Pietruska M., Kerstein R. B., Osorio J: A Novel Technique of Impression Making of CAD/CAM Custom Abutments When Fabricating Multi-Unit Implant Prostheses. *J Impl Advanc Clin Dent* 2013; 5: 21- 32.
 45. Kerstein, R.B., Radke, J. Clinician accuracy when subjectively interpreting articulating paper markings. *The Journal of Craniomandibular & Sleep Practice* 2013; 32 (1):13-23.
 46. Kerstein, R.B., Radke, J. Average chewing pattern improvements following Disclusion Time reduction. Accepted by *the Journal of Craniomandibular & Sleep Practice*, April 2016

Textbook Chapters

47. In Tarantola, G. *Clinical Cases in Restorative and Reconstructive Dentistry*, September 2010, Wiley-Blackwell, ISBN: 978-0-8138-1564-0. Appendix 1, Kerstein, R.B. Definitive Occlusal Therapy using the T-Scan III, pp. 391-431
48. Kerstein, R.B. Tekscan-Computerized Occlusal Analysis. In *Bruxismo*; Roberto Nascimento Maciel, Editor 2010; Editora Artes Medicas Ltda. Sao Paolo Brazil.
49. Kerstein R.B. Time-sequencing and force-mapping with integrated electromyography to measure occlusal parameters. In *Informatics in Oral Medicine*, Ed. Adriani Daskalaki, 2010 IGI Global, Hershey PA
50. Osorio, J., Kerstein, R.B. Use of CAD/CAM technology in custom abutment manufacturing. In *Clinical and Laboratory Manual of Dental Implant Abutments*. Ed. Hamid Shafie, 2014, Wiley Blackwell, Oxford UK, pp. 65-101.

Textbook

51. Kerstein, R.B. (2015). *Handbook of Research on Computerized Occlusal Analysis Technology Applications in Dental Medicine* (pp. 1-734). Hershey, PA: IGI Global. doi:10.4018/978-1-4666-6587-3

LECTURES AND PRESENTATIONS

Since 1997 Dr Kerstein has lectured throughout the world about his research finding using the T-Scan occlusal analysis system . He has spoken repeatedly in Europe, Asia, the United Kingdom, South America, in the Nordic countries, Australia, Canada, Ukraine, Russia, as well as all over the in the United States.

VIDEO PRODUCTION

1990 *Disclusion Time Reduction Therapy with Immediate Complete Anterior Guidance Development*
A 2-hour teaching videotape utilizing intraoral macro video to illustrate the clinical technique of reducing Disclusion Time with Immediate Complete Anterior Guidance Development

2010 *T-Scan III: Practical and Reliable Occlusal Analysis*

A clinical technique video seminar of how to properly perform 2 visits of computer-guided occlusal therapy on an MPDS Patient. Filmed at Precision Craft Dental Lab, Smithfield, RI.

