

Raymond J. Linovitz, M.D., F.A.C.S.
Medical Director of Education and Research

Curriculum Vitae

Business Address: CORE Orthopaedic Medical Center, P.C.
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Date of Birth: August 30, 1942
Detroit, MI

Education: Berkley High School
Berkley, MI
Graduated, 1960

Wayne State University
Detroit, MI
Degree B.S., 1964

Wayne State University
Detroit, MI
Degree M.D., 1968

Internship: Mt. Sinai Hospital
Detroit, MI
Surgical Internship, 1968-1969

Residency: Los Angeles Harbor General Hospital
Los Angeles, CA
Surgical Residency, 1969-1971

University of California
San Diego, CA
Orthopaedic Surgery Residency, 1973-1976

Fellowship: Robert Jones and Agnes Hunt Orthopaedic Hospital
Fellowship
Department of Spinal Disorders
Oswestry, England
January 1, 1982 - March 31, 1982

- Military Service:** U.S. Army Hospital
Seoul, Korea
Orthopaedic and General Surgery, 1971-1972
- Fort MacArthur
San Pedro, CA
Orthopaedic and General Surgery, 1972-1973
- Board Certification:** American Board of Orthopaedic Surgery, 1977
- Licensure:** California
- Societies:** American Academy of Orthopaedic Surgeons
San Diego County Medical Society
North American Spine Society
California Medical Association
Western Orthopedic Association
Scripps Ximed Medical Group
American College of Surgeons
- Practice Experience:** Private Practice Orthopaedics, 1976-1982
Valley Orthopaedic Medical Group, Inc.
Canoga Park, CA
- Chief of Orthopaedics, 1977-1981
Director of Spinal Injury Service
Northridge Hospital
Northridge, CA
- Private Practice Orthopaedics, 1982-2002
Limited to Spine Surgery
San Dieguito Orthopaedic Medical Group, Inc.
Encinitas and La Jolla, CA
- Private Practice Orthopaedics, 2002-Present
Limited to Spine Surgery
San Dieguito Orthopedic Medical Center, P.C.
Encinitas, CA
- Practice Experience:** Chief of Orthopaedics, 1988-1989
Scripps Memorial Hospital
Encinitas, CA

Academic Appointments: Assistant Clinical Professor
Orthopaedic Surgery
University of California San Diego

Hospital Affiliations: Scripps Memorial Hospitals-Encinitas, La Jolla
Thornton Hospital, UCSD

Abstracts/Presentations:

1. Scripps Memorial Hospital, Encinitas-Orthopaedic Update and Nursing Classes
Topics: Spinal Disorders, Scoliosis, Neurological Assessment, CD Rods and Spinal Instrumentation, Spinal Fusion, Herniated Disks. May, 1984; May, 1985; May, 1987; May, 1988; May, 1989; May, 1990.
2. Office Orthopaedics for the Primary Care Physician San Diego, CA and Orlando, FL
"Back Pain: Pearls for the Primary Care Physician," "Whiplash and Other Pains in the Neck."
October 21, 1988 October 19, 1990
April 14, 1989 April 12, 1991
October 22, 1989 April 26, 1991
April 20, 1990 October 18, 1991
3. The Shoulder 1991, La Jolla, CA
"Referred Shoulder Pain," June 15, 1991; July 9, 1994.
4. San Diego Spine Symposium and Workshop
"Surgical Indication and Management of Cervical Radiculopathy and Myelopathy," November 18-20, 1993 .
San Diego Spine Symposium and Workshop
"Diagnosis and Treatment of Neck Pain," "Building an Orthopaedic Practice in Managed Care Environment," November 18, 1994.
5. San Diego Orthopaedic 1994 Seminars
"The Spine," Chairman, December 10, 1994.
6. Low Back Pain, Workers Compensation Forum
April 20, 1995.
7. Rehabilitation Nurse Coordinators' Network
Effective Applications of Neurodiagnostic Testing, September 14, 1995.
8. XIII Congreso Nacional de Ortopedia y Traumatología
Practical Methods of Differential Diagnosis of Spinal Stenosis, Tijuana, Mexico, October 28, 1995.

9. Orthologic
Spinal Fusion, January 30, 1996.
10. Sharp Mission Park
Low Back Pain, February 7, 1996.
11. San Diego Spinal Conference
Evaluation and Treatment of Low Back Pain, February 8, 1997.
12. Scripps Sports Injury Symposia
Prevention of Sports Related Head and Neck Injuries, September 30, 1999.
13. Second Annual Pain Medicine Exposition
Back Pain Pearls, Evaluation and Diagnosis of Spinal Disorders,
November 13, 1999.
14. Fourth Annual Pain Medicine Exposition
Evaluation and Diagnosis of Spinal Disorders, November 27, 2001.
15. AORN
Bone Grafts and Bone Graft Substitutes, January 24, 2002.
16. Spine Education Summit
Increase of Growth Factors with Combined Magnetic Fields, March 10, 2002.
17. ISIS 10th Annual Scientific Meeting
September 6, 8, 2002.
18. Orthovita Biomaterials School
September 20, 2002.
19. Versant Ventures
Vertebral Compression Fractures/ Osteoporosis, Carlsbad, CA,
October 17, 2002.
20. Seton Healthcare
Bone Grafting Options, Austin, TX, November 5, 2002.
21. Orthopaedic Grand Rounds
Clinical Experience with Vitoss, University of Texas, Southwestern,
November 6, 2002.
22. Texas Spine Study Group
Spine Fusion with Vitoss, November 7, 2002.
23. Fifth Annual Pain Medicine Exposition
April 26, 2003.

24. Global Symposium on Intervertebral Disc Replacement and Non-Fusion Technology
Spine Arthroplasty, Scottsdale, AZ, May 1-3, 2003.
25. Scripps Health Education, Advances in Treatment for Spinal Disorders
September 23, 2003.
26. Orthopaedic Grand Rounds
Total Disc Replacement, UCSD, April 14, 2004.
27. New Technologies for Vertebral Body Replacement
Instructional Course Lecture, IMAST, Bermuda, July 1-3, 2004.
28. A Prospective Multi-Center Pilot IDE Study on the Use of Cortoss in Vertebroplasty; Report on the First 20 Cases.
Poster: AAOS 2005.
29. First Year Follow-up of a Prospective Multi-Center IDE Study on the Use of Cortoss in Vertebroplasty.
Poster: AANS 2005
30. Clinical Experience Using a Novel Bio-Ceramic for Treating Vertebral Compression Fractures in Vertebroplasty and Kyphoplasty; Report on the First 40 Patients.
Poster: WOA 2005, Eurospine 2005, NASS 2005
31. Use of a Cellular Bone Matrix in Spine Fusion
Stem Cell Summit, Chicago, Illinois, March 21, 2006.
32. Two-Year Follow-Up of 2-Level ProDisc-L Patients from 4 Centers as Part of the IDE Trial.
North American Spine Society 6th Annual Meeting, Montreal, Canada, May 9-13, 2006.
33. The Results of the Prospective, Randomized Multi-Center IDE Trial of ProDisc-L vs. Circumferential Fusion
North American Spine Society 6th Annual Meeting, Montreal, Canada, May 9-13, 2006.
34. Two-year follow-up of 2-level ProDisc-L patients from 4 Centers as part of the IDE trial
North American Spine Society 6th Annual Meeting, Montreal, Canada, May 9-13, 2006.
35. IDE Clinical Results of the ProDisc-L: Comparison of Training Cases to Randomized Trial
North American Spine Society 6th Annual Meeting, Montreal, Canada, May 9-13, 2006.

36. Two-Year follow-up from 5 centers on the ProDisc-C IDE Trial.
North American Spine Society 6th Annual Meeting, Montreal, Canada, May 9-13, 2006.
37. Stem Cell Therapy
Controversies in Spine Surgery, San Paulo Brazil, August 25, 2006.
38. Cervical Disc Disease
Controversies in Spine Surgery, San Paulo Brazil, August 25, 2006.
39. Posterior Stabilization
Controversies in Spine Surgery, San Paulo Brazil, August 25, 2006.
40. IDE Clinical Results of the ProDisc-L: Comparison of Training Cases to Randomized Trial
North American Spine Society. Seattle, Washington. September 26-30, 2006.
41. Two-Year Follow-Up from 6 Centers on the ProDisc-C IDE Trial
North American Spine Society. Seattle, Washington. September 26-30, 2006.
42. Clinical Experience Using A Novel Bio-Ceramic for Treating Vertebral Compression Fractures with One to Two Year Follow-Up
North American Spine Society. Seattle, Washington. September 26-30, 2006.
43. Lumbar Total Disc Replacement with the ProDisc-L Artificial Disc vs. Fusion: A Prospective Randomized Multi-Center Food and Drug Administration IDE Trial
North American Spine Society. Seattle, Washington. September 26-30, 2006.
44. Two-Year Follow-Up from 6 Centers on the ProDisc-L IDE Trial
North American Spine Society. Seattle, Washington. September 26-30, 2006.
45. PrimeCell Therapeutics LLC (PCT) is a privately held stem cell engineering company dedicated to optimizing the therapeutic potential of adult stem cells.
2nd Annual Stem Cell Summit. San Diego, California. February 12 & 13, 2007.
46. The Role of Evidence-Based Medicine for Lumbar Degenerative Disc Patients
CMSA 17th Annual Conference & Expo. Denver, Colorado. June 19-23, 2007.

Meetings Attended:

1. Der-Congress, Congress Organization. Spine Arthroplasty, Munich, Germany, May 3-5, 2001.
2. 6th Congress Chinese Spine and Spinal Cord Injury Society-Guest Lecturer, Changsha, China, October 13, 2003.
3. Exploring Osteobiological Options. Oteobiologics & Combined Magnetic Field Bone Growth Stimulation, Phoenix, AZ, September 26-27, 2003.

4. 10th Anniversary of Dynesys, “The past, present and the future”. Palais Ferstel, Vienna, Austria, May 3, 2004.
5. Spine Arthroplasty Society 4th Annual Meeting, “Global Symposium on Intervertebral Disc Replacement and Non-Fusion Technology” Hofburg Center, Vienna, Austria, May 4-7, 2004.
6. 11th International Meeting on Advanced Spine Techniques, “New Technologies for Vertebral Body Replacement., Bermuda, July 1-3, 2004.
7. Stem Cell Summit. Chicago, Illinois, March 21, 2006.
8. Spine Arthroplasty Society 6th Annual Meeting, “Global Symposium on Intervertebral Disc Replacement and Non-Fusion Technology.” Montreal, Canada, May 9-13, 2006
9. North American Spine Society 21st Annual Meeting. Seattle, Washington, September 26-30, 2006.
10. Stem Cell Summit. San Diego, CA, February 12 &13, 2007.
11. AAOS 2007 Annual Meeting. San Diego, CA, February 14-18, 2007.

Publications: Journal Articles

1. Reeder DD, Linovitz RJ, Torrance D, Neibling HA, Hirose F, Benfield JR: Cholangiocarcinoma and Operative Cholangiography. Arch Surg. 103(1):25-30. No abstract available. PMID: 4326022 (PubMed – indexed for MEDLINE). July 1971.
2. Linovitz RJ, Resnick D, Keissling P, Kondon JJ, Sehler B, Nejdil RJ, Rowe JH, and Deftos LJ: Tumor-induced Osteomalacia and Rickets, A Surgically Curable Syndrome. Journal of Bone and Joint Surgery, 58-A:419-23, 1976.
3. Resnick D, Linovitz RJ, Feingold ML: Postoperative Heterotopic Ossification in Patients with Ankylosing Hyperostosis on the Spine (Forestier’s Disease). J Rheumatol, (3):313.20, PMIC: 978667 (PubMed - indexed for MEDLINE). September 3, 1976.
4. O’Dell CW Jr, Resnick D, Niwayama G, Goergen TG, Linovitz RJ: Osteoid Osteomas Arising in Adjacent Bones: Report of a Case. J Can Assoc Radiol, (4):298-300. No abstract available. PMID: 993245 (PubMed - indexed for MEDLINE). December 27, 1976.
5. Grant BD, Cannon JH, Rantanen NW and Linovitz, RJ: Medical and Surgical Treatment of Sacral Coccygeal Pathology. American Association of Equine Practitioners Proceedings, 44:213-15, 1998.

6. Linovitz, RJ: Fusion Outcome. J. Spinal Disord, 13(3): 273, June 2000.
No abstract available. PMID: 10872769 (PubMed – indexed for MEDLINE).
7. Linovitz RJ, et al: Combined Magnetic Fields Accelerate and Increase Spine Fusion: A Double-Blind Randomized Placebo Controlled Study. Poster Exhibit AAOS, 2000.
8. Linovitz RJ, et al: Combined Magnetic Fields Accelerate and Increase Spine Fusion: A Double-Blind Randomized Placebo Controlled Study. Manuscript Number 00458. Spine, July 1, 2002.
9. Linovitz RJ, Westerlund LE, Peppers TA, Bae Hyun, Maurer Philip: A Prospective Multi-Center Pilot IDE Study of the Use of Cortoss in Vertebroplasty: Report on the First 20 Cases. 11th International Meeting on Advanced Spine Techniques (IMAST), July 1-3, 2004. Bermuda.
10. Zigler J, Delamarter R, Spivak JM, Linovitz RJ: Results of the Prospective, Randomized, Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDisc-L Total Disc Replacement Versus Circumferential Fusion for the Treatment of 1-Level Degenerative Disc Disease. SPINE, Volume 32 (11). May 2007.
11. Zigler J, Tay B, Linovitz RJ, et al: Two-Year Follow-Up From Six Centers on the ProDisc-C IDE Trial. The Spine Journal. Volume 6 (5): 19S-20S.

Research:

1. Principle Investigator IDE G920090. Spinalogic 1000 Bone Growth Stimulator.
2. Principle Investigator Scripps Encinitas Clinical Site Investigator. IDE G010133. "A Multicenter Prospective Randomized Controlled Clinical Trial Comparing the Safety and Effectiveness of PRODISC Total Disk Replacement to Spinal Fusion Surgery in the Treatment of Discogenic Pain Associated with Degenerative Disk Disease (DDD) in the Lumbosacral Spine."
3. Principle Investigator Scripps Encinitas Clinical Site. A Spinal Fusion Study to Evaluate the Clinical Outcome of Vitoss Scaffold in Comparison to Autogenous Bone Grafts. Protocol number 1101-0003.
4. Principle Investigator. A Double-Blind Randomized Phase I/II Study to Evaluate the Safety of Chrysalin™ and the Effect of Chrysalin™ on the Healing of Lumbar Spine Fusions. Protocol number OL-10-01-01.
5. Principle Investigator. A Prospective, Randomized, Controlled Phase ½ Study to Evaluate the Safety and Efficiency of Chrysalin on Bone Healing in Lumbar Spinal Fusions.

6. Sub Investigator. A Prospective, Randomized, Multicenter Study Comparing HEALOS® to Iliac Crest Autograft in a Posterolateral Lumbar Fusion (PLF) Approach.
7. Principle Investigator. A Pilot Study to Obtain Initial Information on the Feasibility of using Cortoss™ Synthetic Cortical Bone Void Filler in Vertebroplasty. (Orhtovita, Inc.).
8. Principle Investigator. A Study to Evaluate the Safety and Effectiveness of Cortoss® Synthetic Cortical Bone void Filler in Vertebral Augmentation.
9. Principle Investigator. A multicenter, prospective, randomized controlled clinical trial comparing the safety and effectiveness of PRODISC-C® to anterior cervical discectomy and fusion (ACDF) surgery in the treatment of symptomatic cervical disc disease (SCDD).

Other:

1. Founder and President, R.J. Surgical Instruments, developing Instruments for Spinal Surgery, patent approved June, 1991.
2. Medical Director, Research and Education, Blackstone Medical Inc.
3. Founder and President, PJ Surgical Instruments. Consultant to:
 - A. Orthologic Corporation
 - B. Orthovita Corporation
 - C. Spine Solutions/Synthes
 - D. Blackstone Medical Incorporated
4. Director, Spinal Disorders Clinic, Sharp Mission Park Medical Group.
5. Spinal Surgical Consultant, San Luis Rey Equine Hospital, Fallbrook, CA.

REV: 08/07