

**CURRICULUM VITAE**  
**RICK B. DELAMARTER, M.D.**

BIRTHPLACE

Redmond, Oregon

MARITAL STATUS

Married: December 29, 1979  
Wife's name: Janna Delamarter

CHILDREN

Bri-Anne  
Lisa Anna  
Brian

UNDERGRADUATE EDUCATION

Pendleton High School, graduated June 1973. GPA: 4.00  
Seattle Pacific University, graduated June 1977. GPA: 4.00  
B.S. Chemistry and Biology, Seattle Pacific University

UNDERGRADUATE HONORS

High School, graduated June 1973. GPA: 4.00  
Earned All-Conference honors in football, 1973

Seattle Pacific University: Summa cum laude, graduated as No. 1 student in a class of 600

Received President's Citation as the University's outstanding student 1977 graduating class

MEDICAL SCHOOL

University of Oregon Health Sciences Center, Portland, Oregon  
Graduated June 1981, degree: M.D.

POSTGRADUATE TRAINING

1981-1982            Surgical Internship, UCLA Medical Center

1982-1985            Orthopaedic Residency, UCLA Medical Center

1985-1986            Chief Resident, Orthopaedic Surgery,  
1985-1987            UCLA Medical Center

1986-1987            Spine Fellowship, Case Western Reserve University and Acute Spinal Cord  
Injury Unit, Cleveland Veterans Hospital, Cleveland, Ohio, Dr. Henry Bohlman

Apr-May 1987        Visiting Fellowship, Groupe Hospitalier Pitie-Salpetriere,  
Paris, France. Prof. Raymond Roy-Camille

HOSPITAL APPOINTMENTS

1986-1987            Fellow Attending Staff, Case Western Reserve University Hospital,  
Cleveland, Ohio

1986-1987            Instructor, Case Western Reserve Medical School, Cleveland, Ohio

1986-1987            Staff Orthopaedic Surgeon, Cleveland Veterans Administration Hospital,  
Cleveland, Ohio

PRESENT APPOINTMENTS

Jul 1987            Associate Clinical Professor, Department of Surgery, UCLA School of Medicine,  
Los Angeles, California

Jul 1987            Staff Orthopaedic Surgeon, UCLA Medical Center, Los Angeles, California

Jul 1987            Staff Orthopaedic Surgeon, Chief of Spine Surgery Service, West Los Angeles  
Veterans Hospital, Los Angeles, California

Oct 1987            Consulting Orthopaedic Surgeon, Shriners Hospital, Los Angeles, California

Sep 1988            Staff Orthopaedic Surgeon, Cedars-Sinai Medical Center, Los Angeles, California

PRESENT APPOINTMENTS (CONT'D)

Sep 1988            Staff Orthopaedic Surgeon, Century City Hospital, Los Angeles, California

- Jul 1989 – Jul 1991 Chief Orthopaedic Surgery, West Los Angeles Veterans Hospital,  
Los Angeles, CA
- Mar 1991 Staff Orthopaedic Surgeon, Saint John's Health Center,  
Santa Monica, CA
- Jan 1991 – Feb 1994 Co-Director and Founder, West Coast Spine Institute
- Mar 1994 Co-Director, UCLA Comprehensive Spine Center  
Associate Clinical Professor, Department of Orthopaedic Surgery  
UCLA School of Medicine, Los Angeles, California
- Jun 2000 Medical Director, The Spine Institute at Saint John's Health Center
- Oct 2005 Medical Director, Spine Surgery Program, Century City Doctors Hospital  
Los Angeles, CA
- Jan 2006-Present Medical Director, The Spine Institute, Santa Monica, CA
- Jan 2009-Present Co-Medical Director, The Spine Center, Cedars-Sinai Medical Center, L.A., CA  
Vice Chairman for Spine Services, Department of Surgery, Cedars-Sinai Medical  
Center, Los Angeles, CA

#### COMMITTEES

- 1989 UCLA Medical Center Physical Therapy and Rehabilitation
- 1993 UCLA Medical Center Operating Room Task Force  
Subcommittees: Start and Turnover Time - Chair  
- Task Force Implementation
- 1993 UCLA Medical Practice Group Business Development  
Subcommittees: International Business Development
- 1994 Department of Orthopaedic Surgery - Operating Room Utilization
- 1995 - 1998 American Academy of Orthopaedic Surgeons  
Subcommittee Adult Spine Evaluation
- 1994 - 1996 American Academy of Orthopaedic Surgeons  
Subcommittee RBRVS/CPT Review /Evaluation

#### PROFESSIONAL CERTIFICATIONS AND LICENSURES

1981 Diplomat, National Board of Medical Examiners  
1982 State of California Board of Medical Examiners  
1986 State of Ohio Board of Medical Examiners  
1989 American Board of Orthopaedic Surgeons  
1991 Fellow American Academy of Orthopaedic Surgeons

COMMUNITY SERVICES

1993 Board of Trustees, Seattle Pacific University  
Committees - Academic Affairs  
- Presidential Search

BUSINESS

1991 Chairman - Board of Directors, Prestige Care, Inc., Portland, Oregon

PROFESSIONAL SOCIETIES

1988 Los Angeles County Medical Society  
1988 California Medical Association  
1989 North American Spine Society  
1992-95 Western United States Regional Representative  
1991-94 Site Committee  
1996-98 Chairman Site Committee  
1989 Orthopaedic Research Society  
1989 Cervical Spine Research Society  
1991-92 Nominating Committee  
1994-96 Research and Grant Review Committee  
1990 International Society for the Study of the Lumbar Spine  
1991 American Spinal Injury Association  
1992-96 Spine Committee

1993-1997            Orthopaedic Research and Education Foundation  
                         - Peer Review Committee  
1995                    Wilson-Bost Interurban Orthopaedic Club

PROFESSIONAL HONORS

North American Traveling Fellow, American Orthopaedic Association.  
October - November, 1988.

Outstanding Research Paper "Russell Hibbs Basic Science Award"  
Awarded by the Scoliosis Research Society and the European Spinal  
Deformities Society, September 22, 1989, Amsterdam, The Netherlands.

1991 Volvo Award - Experimental Studies, Awarded by International Society for Study of the  
Lumbar Spine, May 15, 1991, Heidelberg, Germany

Acromed Award - Outstanding Research Manuscript, Awarded by the North American Spine Society,  
August 1, 1991, Keystone, Colorado.

New Investigator Recognition Award - given by the Orthopaedic Research Society, February 1992.

Acromed Award - Outstanding Research Manuscript, Awarded by the North American Spine Society,  
October 14, 1993, San Diego, California.

Wang, J., Hatch, J., Sandhu, H., **Delamarter, R.B.**: Outstanding Poster Award, "The Financial Cost of  
Obtaining Flexion/Extension Radiographs in the Acutely Injured Trauma Patient", Awarded by North  
American Spine Society, October 26, 1996.

EDITORIAL SERVICE

1987                    Consultant Reviewer, Clinical Orthopaedics and Related Research  
1992                    Associate Editor, SPINE  
2005                    Consultant Reviewer, European Spine Journal  
2006                    Consultant Reviewer, European Spine Journal

PUBLICATIONS

1. **Delamarter, R.B.** and Moreland, J.W.: Treatment of Acute Femoral Neck Fractures with Total Hip Arthroplasty. Clinical Orthopaedics and Related Research, 218:68-74, May 1987.
2. Ross, J.S., Masaryk, T.J., Modic, M.T., **Delamarter, R.B.**, Bohlman, H., Wilber, G., and Kaufman, B.: Magnetic Resonance of Lumbar Arachnoiditis. AJNR, 8:885-892, Sept-Oct. 1987.
3. Ross J.S., Masaryk, T.J., Modic, M.T., Bohlman, H., **Delamarter, R.B.**, and Wilber, G.: Lumbar Spine: Postoperative Assessment with Surface-Coil MR Imaging. Radiology, 164(3):851-860, September 1987.
4. Ross, J.S., Masaryk, T.J., Modic, M.T., **Delamarter, R.B.**, Bohlman, H., Wilber, G., and Kaufman, B.: Magnetic Resonance of Lumbar Arachnoiditis. American Journal of Roentgenology, 149:1025-1032, November 1987.
5. Hueftle, M., Modic, M.T., Ross, J.S., Masaryk, T.J., Carter, J.R., Wilber, G., Bohlman, H., Steinberg, P.M. and **Delamarter, R.B.**: Lumbar Spine: Post-operative MR Imaging with Gd-DTPA. Radiology, 167(3):817-824, June 1988.
6. Ross, J.S., **Delamarter, R.B.**, Hueftle, M.G., Masaryk, T.J., Aikawa, M., Carter, J., Van Dyke, C. and Modic, M.T.: Gadolinium-DTPA -- Enhanced MR Imaging of the Postoperative Lumbar Spine: Time Course and Mechanism of Enhancement. AJNR, 10:37-46, January/February 1989.
7. **Delamarter, R.B.** and Hohl, M.: The Cast Brace and Tibial Plateau Fractures. Clinical Orthopaedics and Related Research, 242:26-31, May 1989.
8. Saxton, E.H., Lee, H., Swanson, P., Chen, I.S.Y., Ruland, C., Chin, E., Aboulafia, D., **Delamarter, R.B.**, and Rosenblatt, J.D.: Detection of Human T-cell Leukemia/Lymphoma Virus Type I In A Transfusion Recipient With Chronic Myelopathy. Neurology, 39(6):841-844, June 1989.
9. Hales, D., Dawson, E. and **Delamarter, R.B.**: Late Neurologic Complications of Harrington-Rod Instrumentation. J. Bone and Joint Surgery, 71A(7):1053-1057, August 1989.
10. **Delamarter, R.B.**, Heller, J., and Bohlman, H.H.: Cervical Pneumomyelogram Secondary to a Closed Fracture--Dislocation of the Thoracic Spine. A Case Report. Spine, 14(12):1421-1422, December 1989.
11. **Delamarter, R.B.**, Hohl, M. and Hopp, E., Jr.: Ligament Injuries Associated with Tibial Plateau Fractures. Clinical Orthopaedics and Related Research, 250:226-233, January 1990.
12. Bodner, D.R., **Delamarter, R.B.**, Bohlman, H.H., Witcher, M., Biro, C. and Resnick, M.I.: Urologic Changes After Cauda Equina Compression in Dogs. The Journal of Urology, 143:186-190, January 1990.

13. **Delamarter, R.B.**, Bohlman, H.H., Dodge, L. and Biro, C.: Experimental Lumbar Spinal Stenosis: Analysis of the Cortical Evoked Potential, Microvasculature, and Histopathology. J. Bone and Joint Surgery, 72A(1):110-120, January 1990.
14. **Delamarter, R.B.**, and Ross, J.S., Masaryk, T.J., Modic, M.T., and Bohlman, H.H.: Diagnosis of Lumbar Arachnoiditis By Magnetic Resonance Imaging. Spine, 15(4):304-310, April 1990.
15. **Delamarter, R.B.**, Sachs, B.L., Thompson, G.H., Bohlman, H.H., Makley, J.T., and Carter, J.R.: Primary Neoplasms of the Thoracic and Lumbar Spine - An Analysis of 29 Consecutive Cases. Clinical Orthopaedics and Related Research, 256:87-100, July 1990.
16. **Delamarter, R.B.**, Bohlman, H.H., Bodner, D. and Biro, C.: Urologic Function After Experimental Cauda Equina Compression: Cystometrograms Versus Cortical-Evoked Potentials, Spine, 15(9):864-870, September 1990.
17. **Delamarter, R.B.**, Carr, J. and Saxton, E.: HTLV-1 Viral-Associated Myelopathy After Blood Transfusion in a Multiple Trauma Patient. Clin. Ortho. and Rel. Res., 260:191-194, November 1990.
18. **Delamarter, R.B.**, Bohlman, H.H. and Biro, C.: Experimentelle lumbale Rückenmarksstenose. Extracta Orthopaedica, Band 13:208-210, Heft 5, 1990.
19. Hales, D.D., Duffy, K., Dawson, E.G., and **Delamarter, R.B.**: Lumbar Osteomyelitis, Epidural and Paraspinal Abscesses: An Unusual Source of Contamination From a Gunshot Wound to the Abdomen. Spine, 16(3):380-383, March 1991.
20. **Delamarter, R.B.**, Sherman, J., Carr, J.: 1991 Volvo Award in Experimental Studies, Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early, or Late Decompression. Spine, 16(9):1022-1029, September 1991.
21. Gillespie, L., Bray, R., Levin, N., and **Delamarter, R.B.**: Lumbar Nerve Root Compression and Interstitial Cystitis Response to Decompressive Surgery. British Journal of Urology, Vol. 68:361-364, October 1991.
22. **Delamarter, R.B.**, Sherman, J.E., Carr, J., M.S.: Lumbar Spinal Stenosis Secondary to Calcium Pyrophosphate Crystal Deposition (Pseudogout). Clinical Ortho. and Rel. Research, 289: 127-130, April 1993.
23. Deutsch, A.L., Howard, M., Dawson, E.G., Goldstein, T.B., Mink, J.H., Zeegen, E.H., **Delamarter, R.B.**: Lumbar Spine Following Successful Surgical Discectomy; Magnetic Resonance Imaging Features and Implications. Spine, Vol. 18, No. 8: 1054-1060, July 1993.
24. Bohlman, H.H., Kirkpatrick, J.S., **Delamarter, R.B.**, Leventhal, M.: Anterior Decompression for Late Pain and Paralysis after Fractures of the Thoracolumbar Spine. Clinical Ortho. and Rel. Research, 300: 24-29, March 1994.

25. Callewart, C.C., Minchew, J.T., L.E.A., Kanim, M.A., Salehmoghaddam, S., Dawson, E.G., **Delamarter, R.B.**: Hyponatremia/Syndrome of Inappropriate Antidiuretic Hormone Secretion in Adult Spinal Surgery, Spine, Vol 19, No. 15: 1674-1679, August 1994.
26. **Delamarter, R.B.**, Bohlman, H.H., Dodge, L., and Gambetti, P.L.: Postmortem Osseous and Neuropathologic Analysis of the Rheumatoid Cervical Spine, Spine, Vol. 19, No. 20.: 2267-2274, October 1994.
27. **Delamarter, R.B.**: Wire Fixation of the Lower Cervical Spine. Techniques in Orthopaedic Surgery, 9, (1): 68-74, 1994.
28. **Delamarter, R.B.**, Howard, M., Goldstein, T.B., Deutsch, A.L., Mink, J.H., Dawson, E.G.: Percutaneous Lumbar Discectomy: Pre- and Post-Operative Assessment with Surface Coil MR Imaging, Journal of Bone & Joint Surgery, Vol. 77-A, No. 4: 578-584. April 1995.
29. **Delamarter, R.B.**, Sherman, J.E., Carr, J.: Pathophysiology of Spinal Cord Injury: Recovery Following Immediate or Delayed Decompression, Journal of Bone & Joint Surgery, Vol. 77-A, No. 7: 1042-1049, July 1995.
30. Ozuna, R.M., **Delamarter, R.B.**: Pyogenic Vertebral Osteomyelitic and Post Surgical Disc Space Infection. The Orthopaedic Clinics of North America, Vol. 27, No. 1, page 87-94, January 1996.
31. Ozuna, R.M., **Delamarter, R.B.**: Cervical Laminoplasty for Cervical Myeloradiculopathy. Operative Techniques in Orthopaedics, Vol. 6, No. 1, page 38-45, January 1996.
32. Sandhu, H.S., Turner, S., Kabo, M.J., Kanim, L.E.A., Liu, D., Nourparvar, A., **Delamarter, R.B.**, Dawson, E.G.: Distractive Properties of a Threaded Interbody Fusion Device: An In Vivo Model. Spine, Vol. 21, No. 10, page 1201-1210, 1996.
33. Sandhu, H.S., Kanim, L.E.A., Kabo, J.M., Toth, J.M., Zeegen, E.N., Liu, D., **Delamarter, R.B.**, Dawson, E.G., Effective Doses of Recombinant Human Bone Morphogenic Protein-2 in Experimental Spinal Fusion, Spine 21 (8):2115-2122, 1996
34. Markolf, K., **Delamarter, R.B.**, Fyodorov, I., Cable, B.: Variables Affecting Pedicle Screw Plate Fixation of an Unstable L3-L4 Defect. Clinical Orthopaedics and Related Research, No. 327, pp 283-290, 1996.
35. Wang, J.C., Sandhu, H.S., Yu, Warren D., Minchew, J.T., **Delamarter, R.B.**: MR Parameters for Imaging Titanium Spinal Instrumentation. Journal of Spinal Disorders, Vol. 10, No. 1, pp 27-32. 1997
36. Kumar, A., Leventhal, M.R., Freedman, E.L., Coburn, J., **Delamarter, R.B.**: Destructive Spondyloarthropathy of the Cervical Spine in Patients with Chronic Renal Failure. Spine, 22, Number 5, pp 573-578. 1997



37. Raskas, D., **Delamarter, R.B.**: Thrombotic Occlusion of the Iliac Artery Following Retroperitoneal Approach for Lumbar Fusion, Clinical Orthopaedics and Related Research, No. 338 pp 86-89, 1997.
38. Sandhu, H.S., Kanim, L.E.A., Toth, J.M., Kabo, J.M., Liu, D., **Delamarter, R.B.**, Dawson, E.G.: Experimental Spinal Fusion with Recombinant Human Bone Morphogenetic Protein-2 Without Decortication of Osseous Elements. Spine, Vol. 22, No. 11, pp 1171-1180, June 1997.
39. Tsai, R.Y., Yang, R.S., Nuwer, M.R., Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Intraoperative Dermatome Evoked Potential Monitoring Fails to Predict Outcome from Lumbar Decompression Surgery. Spine. Vol. 22, No. 17, pp.1970-1975, 1997.
40. Sandhu, H.S., Cammisa, F.P., Heim, S.E., Dawson, E.G., **Delamarter, R.B.**, Luque, E.F.: Update on Spinal Applications for Recombinant Bone Morphogenetic Protein-2. Spinal Frontiers, Spring 1998.
41. Wang, J.C., Yu, W.D., Sandhu, H.S., Tam, V., **Delamarter, R.B.**: A Comparison of MRI and CT Image Quality After the Implantation of Tantalum and Titanium Spinal Instrumentation. Spine, Vol. 23, #15, August 1998, pp. 1684-1688.
42. Wang, J.C., Yoo, S., **Delamarter, R.B.**: The Publication Rates of Presentations at Major Spine Specialty Society Meetings (NASS, SRS, ISSLS). Spine, Vol.24, Number 5, March 1, 1999, pp 425-427.
43. Wang, J.C., Shapiro, M.S., Hatch, J.D., Knight, J., Dorey, F., **Delamarter, R.B.**: The Outcome of Lumbar Discectomy in Elite Athletes. Spine, Vol. 24, Number 6, March 15, 1999, pp 570-573.
44. **Delamarter, R.B.**: Point of View for Article: Regression of Psoriatic Periodontoid Pannus. Spine, Vol. 24, Number 6, March 15, 1999, page 581.
45. **Delamarter, R.B.**, Coyle, J.: Acute Management of Spinal Cord Injury. Journal of the American Academy of Orthopaedic Surgeons: A Comprehensive Review, Vol. 7, No. 3, May/June 1999.
46. Wang, J.C., Yu, W.D., Sandhu, H.S., Bhuta, S., Betts, F., **Delamarter, R.B.**: Metal Debris from Titanium Spinal Instrumentation. Spine, Vol.24, Number 9, 1999, pp 899-903.
47. Wang, J.C., Hatch, J.D., **Delamarter, R.B.**, Sandhu, H.S.: The Diagnostic Value of Cervical Flexion and Extension Radiographs in Acutely Injured Patients. Clinical Orthopaedics and Related Research, No. 365, August 1999, pp 111-116.
48. Wang, J.C., McDonough, P.W., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.**: The Effect of Cervical Plating on Single-Level Anterior Cervical Discectomy and Fusion. Journal of Spinal Disorders, Vol. 12, No. 6, 1999, pp 467-471.

49. Wang, J.C., McDonough, P.W., Endow, K.K., **Delamarter, R.B.**: Increased Fusion Rates with Cervical Plating for Two-Level Anterior Cervical Discectomy and Fusion. SPINE, Vol. 25, Number 1, pp 41-45, 2000.
50. Le, A.X., Rogers, D.E., Dawson, E.G., Kropf, M.A., DeGrange, D.A., **Delamarter, R.B.**: Unrecognized Durotomy After Lumbar Discectomy: A Report of Four Cases Associated with the Use of ADCON-L. SPINE, Vol. 26, Number 1, pp 115-118, January 2001.
51. Wang, J.C., McDonough, P.W., Kanim, L.E.A., Endow, K.K., **Delamarter, R.B.**: Increased Fusion Rates with Cervical Plating for Three-Level Anterior Cervical Discectomy and Fusion. SPINE, Vol. 26, Number 6, pp 643-647. 2001.
52. Wang, J.C., McDonough, P.W., Endow, K.K., **Delamarter, R.B.**: A Comparison of Fusion Rates Between Single-Level Cervical Corpectomy and Two-Level Discectomy and Fusion. SPINE, Vol. 14, No. 3, pp 222-225. 2001.
53. Bae H., **Delamarter, R.B.**: Neurologic Recovery after Thoracolumbar Burst Fractures, Orthopaedic Clinics of America, June, 2002.
54. Dawson, E.G., Kanim, L.E.A., Sra, P., **Delamarter, R.B.**, Sandhu, H.S.: Low back pain recollection versus concurrent accounts: An outcomes analysis. SPINE, Vol 27, No 9, pp984-994, 2002.
55. Pradhan, B.B., Nassar, J.A., **Delamarter, R.B.**, Wang, J.C.: Single-Level Lumbar Spine Fusion: A Comparison of Anterior and Posterior Approaches. Journal of Spinal Disorders, Vol 15, No 5, pp355-361, 2002.
56. Davis, T., **Delamarter, R.B.**: The Intradiscal Electrothermal Therapy procedure for chronic discogenic low back pain. The Spine Journal, Vol 2, No 2S, pp9-10, 2002.
57. Sandhu, H.S., **Delamarter, R.B.**, Kanim, L.E.A., Cammisa Jr., F.P., Curcin, A., Hanley Jr., E.N., Fischgrund, J.S., Valentin-Opran, A., Lang, T.: Improved bone formation in smokers with recombinant human bone morphogenetic protein-2. The Spine Journal, Vol 2, No 2S, pp17-18, 2002.
58. **Delamarter, R.B.**: Lumbar microdiscectomy: microsurgical technique for treatment of lumbar herniated nucleus pulposus. Instr Course Lect. 2002; 51:229-32. Review.
59. Scaduto, A.A., Gamradt, S.C., Yu, W.D., Huang, J., **Delamarter, R.B.**, Wang, J.C.: Perioperative Complications of Threaded Cylindrical Lumbar Interbody Fusion Devices: Anterior Versus Posterior Approach. Journal of Spinal Disorders & Techniques, Vol 16, No 6, pp502-507, 2003.
60. **Delamarter RB**, Fribourg DM, Kanim LE, Bae H.: ProDisc artificial total lumbar disc replacement: introduction and early results from the United States clinical trial. Spine. 2003 28 (20): S167-75.

61. Sun EC, Wang JC, Endow K, **Delamarter RB.**: Adjacent two-level lumbar discectomy: outcome and SF-36 functional assessment. Spine. 2004 Jan 15;29(2):E22-7.
62. Brau S.A., **Delamarter, R.B.**, Schiffman M.L., Williams L.A., Watkins R.G.: Left Iliac Artery Thrombosis during Anterior Lumbar Surgery. Annals of Vascular Surgery, Vol 18, No 1, pp 48-51, 2004.
63. Davis TT, **Delamarter RB**, Sra P, Goldstein TB.: The IDET procedure for chronic discogenic low back pain. Spine. 2004 Apr 16;29 (7):752-6.
64. Brau SA, **Delamarter RB**, Schiffman ML, Williams LA, Watkins RG.: Vascular injury during anterior lumbar surgery. Spine J. 2004 Jul-Aug;4 (4):409-12.
65. Fribourg D, Tang C, Sra P, **Delamarter R**, Bae H.: Incidence of subsequent vertebral fracture after kyphoplasty. Spine. 2004 Oct 15;29(20):2270-6.
66. **Delamarter R**, Pradhan BB: Indications for cervical spine prostheses – Early experiences with prodisc-C in the USA. Spine Art. 2004 (1):7-9.
67. **Delamarter, R.B.**, Bae H.W., Pradhan, B.B.: Clinical Results of ProDisc-II Lumbar Total Disc Replacement: Report from the United States Clinical Trial. Orthopaedic Clinics of America. 2005 Jul;36 (3):301-13.
68. Kuhns, C.A, Geck, M.J., Wang, J.C., **Delamarter, R.B.**: An Outcome Analysis of the Treatment of Cervical Pseudarthrosis with Posterior Fusion. Spine 2005, Volume 30, Number 21, pp 2424-2429.
69. **Delamarter R.B.**, Pradhan, B.B, Patel, V.V.: Cervical Pseudarthrosis. Complications of Spine Surgery: Treatment and Prevention. 2005 July, pp. 47-53.
70. Pradhan, B., Bae, H., Kropf, M., Patel, V., **Delamarter R.B.**: Kyphoplasty Reduction of Osteoporotic Vertebral Compression Fractures: Correction of local Kyphosis Versus overall Sagittal Alignment. Spine 2006 February 15; 31 (4): 435-41.
71. Patel, V., Andrews C., Pradhan, B., Bae, H., Kanim, L., Kropf M., **Delamarter R.B.**: Computer Tomography Assessment of the Accuracy of in vivo Placement of artificial Discs in the Lumbar Spine including Radiographic and Clinical Consequences. Spine 2006 April 15: 31 (8): 948-53.
72. Bae, H.W., Zhao, L., Kanim, L.E., Wong, P., **Delamarter R.B.**, Dawson, E.G. Intervariability and intravariability of bone morphogenetic proteins in commercially available demineralized bone matrix products. Spine. 2006 May 20;31(12):1299-306; discussion 1307-8.
73. Patel, V.V., Zhao, L., MC, Pamela W., Kanim, L. Bae,H.W., Pradhan,B.B., **Delamarter, R.B.** Controlling Bone Morphogenetic Protein Diffusion and Bone Morphogenetic Protein-Stimulated Bone Growth Using Fibrin Glue. Spine 2006 May, Volume 31, Number 11, pp 1201-1206.

74. Pradhan, B.B., Bae, H.W., Kropf, M.A., Patel, V.V., **Delamarter, R.B.**: Kyphoplasty Reduction of Osteoporotic Vertebral Compression Fractures: Correction of Local Kyphosis versus Overall Sagittal Alignment. Spine 2006, Volume 31, Number 4, pp.435-441.
75. Pradham, B. Bae, H., Dawson, E., Patal V., **Delamarter R.B.**: Graft Resorption with the use of Bone Morphogenetic Protein: Lessons from Anterior Lumbar Interbody Fusion using Femoral Ring Allografts and Recombinant Human Bone Morphogenetic Protein-2. Spine 2006 May 1; 31 (10): E277-84.
76. Patel, V. Zhao, L., Wong, P., Pradham, B., Bae, H., Kanim, L. **Delamarter R.B.**: An in Vitro and in Vivo Analysis of Fibrin Glue use to Control Bone Morphogenetic Protein Diffusion and Bone Morphogenetic Protein-stimulated Bone Growth. Spine 2006 July-August; 6 (4): 397-403.
77. Zigler, J., **Delamarter R.B.**, Spivak, J.M., Linovitz, R.J., Danielson, G.O., Haider, T.T., Cammisa, F., Zuchermann, J., Balderston, R., Kitchel, S., Foley, K., Watkins, R., Bradford, D., Yue, J., Yuan, H., Herkowitz, H., Geiger, D., Bendo, J., Peppers, T., Sachs, B., Girardi, F., Kropf, M., Goldstein, J.: 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 2007, Volume 32, Number 11 pp1155-1162.
78. Welch, WC, Cheng BC, Awad TE, Davis R, Maxwell JH, **Delamarter R. B.**, Wingate JK, Sherman J, Macenski MM. Clinical outcomes of the Dynesys dynamic neutralization system: 1-year preliminary results. Neurosurg Focus. 2007 Dec 15;22(1):E8
79. Brau, S., **Delamarter, R.B.**, Kropf, M., Watkins III, R.G., Williams, L., Schiffman, M., Bae, H.W. Access Strategies for Revision in Anterior Lumbar Surgery. Spine. 2008 July, Volume 33, Number 15, pp1662-1667.
80. Murrey, D., Janssen, M., **Delamarter R.B.**, Goldstein, J., Zigler, J., Tay, B., Darden, B.: Results of the Prosepective, Randomized, Controlled Multicenter Food and Drug Administration Investigational Device Exemption Study of the ProDic-C Total Disc Replacement Versus Anterior Discectomy and Fusion for the Treatemnt of 1-level Symptomatic Cervical Disc Disease. The Spine Journal. April 2009, Volume 9, Number 4, pp275-286.
81. Bae, H., Zhao, L., Zhu, D., Kanim, L., Wang, J., **Delamarter, R.B.**: Variability Across Ten Production Lots of a Single Demiralized Bone Matrix Product. The Journal of Bone and Joint Surgery. 2010 Februaury, Volume 92-A, Number 2, pp 427-435.
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3. The Diagnosis of Recurrent Lumbar Disc Herniation versus Post-operative Scar by Gadolinium - DPTA Enhanced Magnetic Resonance Imaging. **Delamarter, R.B.**, Ross, J.S., Masaryk, T.J., Modic, M.T., Bohlman, H., and Wilber, G. Presented at the American Academy of Orthopaedic Surgeons, February, 1988, Atlanta, Georgia.
4. Biodistribution and Mechanism of Magnetic Resonance Enhancement of Epidural Fibrosis By Gadolinium-DTPA. **Delamarter, R.B.**, Ross, J.S., Van Dyke, C., Masaryk, T.J., Hueftle, M., Bohlman, H.H., and Modic, M.T. Presented at the Orthopaedic Research Society, February, 1989, Las Vegas, Nevada.
5. Surgical Anatomy of the Sacrum: Correlation of Cadaver Specimens with CT Scan and MRI. Bernstein, A., Dawson, E., Seeger, L. and **Delamarter, R.B.** Presented at the American Academy of Orthopaedic Surgeons. February 1990, New Orleans, Louisiana.
6. A New Microsurgical Approach for Herniated Lumbar Disc Excision The Lateral Recess (Ligamentum Flavum Sparing) Approach. **Delamarter, R.B.** and Bray, R. Presented at the American Academy of Orthopaedic Surgeons. March, 1991, Anaheim, California.
7. Pedicle Screw-Plate Fixation of Spinal Defects: A Cadaveric Study. Markolf, K., **Delamarter, R.B.**, Fyodorov, I., Cable B. Presented at Orthopaedic Research Society, February 1992, Washington, D.C.
8. Syndrome of Inappropriate Anti-diuretic Hormone in Spinal Surgery Patients: Minchew, J.T., Callewart, C.C., L.E.A., Kanim, M.A., Salehmoghaddam, S., Dawson, E.G., **Delamarter, R.B.** Presented Orthopaedic Research Society, February 15-18, 1993, San Francisco, California.
9. A New Technique for Rapid Lumbar Fusion: **Delamarter, R.B.**, Minchew, J.T., Kushwaha, V. Presented at International Society for the Study of the Lumbar Spine. June 22-25, 1994, Seattle, Washington; Scoliosis Research Society, September 1994, Portland, Oregon; American Academy of Orthopaedic Surgery, February, 1995, Orlando, Florida.
10. MRI and CT Imaging of Tantalum Spinal Instrumentation: Wang, J.C., Yu, W.D., Sandhu, H.S., **Delamarter, R.B.**, Dawson, E.G. International Society for the Study of the Lumbar Spine, June 1996.
11. Tsai, R. Yen-Chun, Yang, R.S., Nuwer, M.R., Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Intraoperative Dermatomal Evoked Potential Monitoring in Lumbar

- Decompression Surgery: International Society for the Study of the Lumbar Spine, June 1996.
12. Wang, J., Hatch, J., Sandhu, H., **Delamarter, R.B.**: The Financial Cost of Obtaining Flexion/Extension Radiographs in the Acutely Injured Trauma Patient. North American Spine Society, Vancouver, B.C.; October 26, 1996.
  13. Smith, J.S., Kanim, L.E.A., Sra, P., **Delamarter, R.B.**: Cost Effectiveness of Tracing Patients in Long-Term Outcome Studies. American Academy of Orthopaedic Surgeons, Annual Meeting, New Orleans, LA, March 1998.
  14. Wang, J.C., Yu, W.D., Sandhu, H., Betts, F., Bhuta, S., **Delamarter, R.B.**: The Quantification of Metal Debris and the Histological Response from Microscopic Metal Particles Generated from Spinal Instrumentation and Deposited in the Paraspinal Soft Tissues. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, LA. March 1998.
  15. Dawson, E.G., Kanim, L.E.A., Sra, P., **Delamarter, R.B.**, Sandhu, H.: Low Back Pain Recollection Versus Concurrent Accounts: An Outcome Analysis. North American Spine Society, San Francisco, California, October 31, 1998.
  16. McDonough, P.W., Wang, J.C., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.**: Single-Level Anterior Cervical Discectomy: Plate vs. No Plate. North American Spine Society, San Francisco, California, October 31, 1998.
  17. Blechner, M., Kanim, L., Patel, M., Grewal, R., **Delamarter, R.B.**, Dawson, E.G.: Clinical Evaluation of the Distractive Properties of Interbody Cages for Anterior Spinal Fusion. International Society for the Study of the Lumbar Spine. Brussels, Belgium, June 1998.
  18. Bernbeck, J.A., Aldrich, E.A., Kanim, L.E.A., Bobkin, B.H., Edgerton, V.R., **Delamarter, R.B.**: Intrathecal Neurotrophic Factors after Experimental Cauda Equina Compression in the Rat. Scoliosis Research Society. New York, NY, 1998.
  19. Blechner, M., Kanim, L., Patel, M., Grewal, R., **Delamarter, R.B.**, Dawson, E.G.: Clinical Evaluation of the Distractive Properties of Interbody Cages for Anterior Spinal Fusion. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 1999.
  20. Wang, J.C., McDonough, P., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.**: Increased Fusion Rates with Cervical Plating for Two-Level ACDF. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 1999.
  21. Wang, J.C., McDonough, P., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.**: Increased Fusion Rates with Cervical Plating for Single-level Anterior Cervical Discectomy. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 1999.

22. Sra, P., Aldrich, E., Bernbeck, J., **Delamarter, R.B.**: Evaluation of Locomotor Rating Scales Following Spinal Cord Injury in Rats. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 1999.
23. Bernbeck, J.A., Aldrich, E.M., Kanim, L.E.A., Sra, P., Nagakawa, S., Dobkin, B.H., Edgerton, R., **Delamarter, R.B.**: Recovery of Function in a Rat Cauda Equina Injury Model. International Society for the Study of the Lumbar Spine Annual Meeting, Hawaii, June 1999.
24. Scaduto, A., Wang, J., Yu, W., Huang, J., **Delamarter, R.B.**: Perioperative Complications of Lumbar Interbody Cage Fusion: Anterior vs. Posterior Approach. International Society for the Study of the Lumbar Spine Annual Meeting, Hawaii, June 1999.
25. Dawson, E.G., Kanim, L.E.A., Sra, P., **Delamarter, R.B.**, Sandhu, H.S.: Low Back Pain Recollection Versus Concurrent Accounts: An Outcome Analysis. International Society for the Study of the Lumbar Spine Annual Meeting, Hawaii, June 1999. (Best Poster Award)
26. Rogers, D.E., McDonough, P., Cortes, Z., **Delamarter, R.B.**: Combined Anterior and Posterior Fusions in Patients Requiring 3 or More Cervical Vertebrectomies. Cervical Spine Research Society Annual Meeting, Seattle, WA, December 1999.
27. Geck, M.J., Wang, J.C., **Delamarter, R.B.**: Pseudoarthrosis after ACDF: Treatment by Posterior Fusion and Selective Nerve Root Decompression. Cervical Spine Research Society Annual Meeting, Seattle, WA, December 1999.
28. Alexander, G.J., Wang, J.C., McDonough, P., **Delamarter, R.B.**: Anterior Cervical Spine Fusion Adjacent to a Prior Fusion. Cervical Spine Research Society Annual Meeting, Seattle, WA, December 1999.
29. Davies, M., Geck, M.J., **Delamarter, R.B.**: Comparison of Fusion Rates Between BAK and BAK Proximity Cages”, North American Spine Society Annual Meeting, New Orleans, LA October 25-28, 2000.
30. Sun, E., Wang, J.C., Endow, K.K., Dorey, F., **Delamarter, R.B.**: An Outcome Study of Two-Level Lumbar Discectomy with SF-36 Functional Assessment; North American Spine Society Annual Meeting, New Orleans, LA October 25-28, 2000.
31. Geck, M.J., Wang, J.C., **Delamarter, R.B.**: ACDF with and without Plates in 205 Patients: Clinical Results and Adjacent Segment Disease”; Cervical Spine Research Society Annual Meeting, December 2-3, 2000.
32. Geck, M.J., Wang, J.C., **Delamarter, R.B.**: ACDF with and without Plates in 205 Patients: Clinical Results and Adjacent Segment Disease; American Academy of Orthopaedic Surgeons, San Francisco, CA, March 2001.



33. Bernbeck, J.A., Aldrich, E.M., Sra, P., Nagakawa, I.S., Kanim, L.E.A, **Delamarter, R.B.:** Locomotor recovery following treatment with neurotrophic factors in a rat model of spinal cord injury. International Society for the Study of the Lumbar Spine Annual Meeting, Cleveland, OH, May 15-19, 2002.
34. **Delamarter R.B.,** Sandhu H.S. Kanim L.E.A., Cammissa F.P, Curcin A., Hanley E.N., Fischgrund J.S., Valentin-Opran A., Lang T.F.: Improved bone formation in smokers with rhBMP-2. Orthopaedic Research Society 2002; International Society for the Study of the Lumbar Spine, Cleveland, OH 2002.
35. Kanim L.E.A., Lee Y.P., Davies M., Wang J.C., **Delamarter R.B.,** Dawson E.G. Comparison of human local bone (cortical) versus human iliac crest bone (cancellous) for spinal fusion in an athymic rat model. International Society for the Study of the Lumbar Spine, Cleveland, OH 2002.
36. Bernbeck, J.A., Aldrich E.M., Sra P., Nagakawa I.S., Kanim L.E.A., **Delamarter R.B.:** Locomotor Recovery Following treatment with Neurotrophic Factors in a rat model of spinal cord injury. International Society for the Study of the Lumbar Spine, Cleveland, OH 2002.
37. Bernbeck J.A., Aldrich E.A., Sra P., Nagakawa I.S., Kanim L.E.A., **Delamarter R.B.:** Locomotor Recovery Following Treatment with Neurotrophic Factors in a Rat Model of Spinal Cord Injury. North American Spine Society, Montreal, PQ, CA 2002.
38. Bernbeck Y.A., Bae H.W., Kanim L.E.A., Nagakawa I.S., Wang J.W., **Delamarter R.B.,** Dawson E.G.: Histologic Comparison of Fat, ADCON-L, Preclude, Absorbable Collagen Sponge in Postlaminectomy Scar Tissue Inhibition. North American Spine Society, Montreal, PQ, CA 2002.
39. Tang C., Fribourg D., Bae H.W., **Delamarter R.B.:** Adjacent Fracture after Kyphoplasty. Fellows Conference , New Orleans, LA 2002.
40. Bae H.W., Zhao L., Kanim L.E.A., Wong P., Dawson E., **Delamarter R.B.:** Transfected fibroblasts producing BMP-2 induce posterolateral fusion in a rat. International Society for the Study of the Lumbar Spine, Vancouver, BC, CA 2003.
41. Tang C., Fribourg D., Bae H.W., **Delamarter R.B.:** Adjacent Fracture after Kyphoplasty. International Society for the Study of the Lumbar Spine, Vancouver, BC, CA 2003.
42. Bae H.W., Zhao L., Kanim L.E.A., Wong P., Dawson E.G., **Delamarter R.B.:** Inter and intravariability of BMPS in commercially available demineralized bone matrices. International Society for the Study of the Lumbar Spine, Vancouver, BC, CA 2003.
43. Bae H.W., Zhao L., Kanim L.E.A., Wong P., Dawson E.G., **Delamarter R.B.:** Transfected fibroblasts producing BMP-2 induce posterolateral fusion in a rat. International Society for the Study of the Lumbar Spine, Vancouver, BC, CA 2003.

44. **Delamarter R.B.**, Bae, H.: Dynamic Anterior Cervical Plates and Why They Fail. North American Spine Society, San Diego, CA, 2003.
45. Bae, H., Kanim, L.E.A., Sra, P., **Delamarter R.B.**, Kropf, M.: Disc Replacement vs. Fusion: Comparison of Patient Self-assessments. North American Spine Society, San Diego, CA, 2003.

## PRESENTATIONS

2. **Delamarter, R.B.**, and Moreland, J.W.: Total Hip Replacement in Acute Femoral Neck Fractures. Presented at the AOA Residents Conference, Ann Arbor, Michigan, May 1984.
3. **Delamarter, R.B.**, and Hohl, M.: The Cast-Brace in Tibial Plateau Fractures. Presented to American Academy of Orthopaedic Surgeons, Las Vegas, Nevada, January 1985.
4. **Delamarter, R.B.** and Hohl, M.: Tibial Plateau Fractures Treated with Cast-Bracing. Presented to the AOA Residents Conference, New Orleans, Louisiana, May 1985.
5. **Delamarter, R.B.**, and Hohl, M.: Ligament Injuries in Tibial Plateau Fractures. Presented to the American Orthopaedic Association, San Diego, California, June 1985.
6. **Delamarter, R.B.**, Bohlman, H.H., and Martin, J.E.: Revision Surgery for the Failed Lumbar Spine. Presented at the Peter Mack Memorial Lecture, Johns Hopkins University, November 1986.
7. **Delamarter, R.B.**, Bohlman, H.H., Martin, J.E.: Indications and Results in Revision Lumbar Spine Surgery. Presented at the American Academy of Orthopaedic Surgeons, San Francisco, California, January 1987.
8. **Delamarter, R.B.**, Ross, J.S., Masaryk, T.J., Modic, M.T., Bohlman, H.H.: Diagnosis of Lumbar Arachnoiditis by Magnetic Resonance Imaging. Presented at The International Society for the Study of the Lumbar Spine Annual Meeting, Rome, Italy, May 24-28, 1987.
9. Ross, J.S., Modic, M.T., Masaryk, T.J., **Delamarter, R.B.**, Bohlman, H., Kaufman, B.: MR of Arachnoiditis. Presented at the American Roentgen Ray Society, 1987 Annual Meeting, Miami Beach, Florida, April 26-May 1, 1987.
10. Hueftle, M.G., Modic, M.T., Ross, J.S., Masaryk, T.J., Easter, J., Bohlman, H.H., **Delamarter, R.B.**, and Steinberg, P.M.: Post-Operative Epidural Fibrosis vs. Recurrent Disc Herniation in the Lumbar Spine: Assessment by Gd-DTPA Enhancement MR. Presented at Society of Magnetic Resonance in Medicine, New York, August 17-21, 1987.
11. Ross, J.S., **Delamarter, R.B.**, VanDyke, C., Masaryk, T.J., Hueftle, M., Bohlman, H., Modic, M.T.: MR Enhancement of Epidural Fibrosis by Gd-DTPA: Biodistribution and

- Mechanism. Presented at the Radiologic Society of North America, Chicago, Illinois, Nov. 30-Dec. 4, 1987.
12. **Delamarter, R.B.**, Bohlman, H.H., Dodge, L., Gambetti, P.L.: Postmortem Neuropathologic Analysis of Eleven Patients with Paralysis Secondary to Rheumatoid Arthritis of the Cervical Spine. Presented at the Cervical Spine Research Society, 1987 Annual Meeting, Washington, D.C., December 2-5, 1987.
  13. Hueftle, M., Modic, M.T., Ross, J.S., Masaryk, J.J., Bohlman, H., **Delamarter, R.B.**, and Carter, J.: Lumbar Spine: Post-operative MR Imaging with Gd-DPTA. Presented at the Radiologic Society of North America, Chicago, Illinois, Nov. 30 - Dec. 4, 1987.
  14. **Delamarter, R.B.**, Bohlman, H.H., Dodge, L., Biro, C.: Experimental Lumbar Spinal Stenosis: Analysis of the Vasculature and Histopathology. Presented at the American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 1988.
  15. **Delamarter, R.B.**: Degenerative Disease of the Cervical Spine. Harbor-UCLA Medical Center, Department of Orthopaedic Surgery: Los Angeles, California, April 1988.
  16. **Delamarter, R.B.**, Hueftle, M.G., Modic, M.T., Ross, J.S., Masaryk, T.J., and Bohlman, H.H.: Diagnosis of Recurrent Lumbar Disc Herniation vs. Post-Operative Scar by Gadolinium-DTPA Enhanced Magnetic Resonance Imaging. Presented at International Society for the Study of the Lumbar Spine, Miami, Florida, April 13-17, 1988.
  17. Hueftle, M., Modic, M.T., Ross, J.S., Masaryk, J.J., Bohlman, H., **Delamarter, R.B.**, and Carter, J.: Post-operative Lumbar Spine Magnetic Resonance Imaging with Gadolinium-DTPA to Gadolinium-DTPA in the Failed Back Surgery Syndrome. Presented at American Association of Neurologic Surgeons, Toronto, Canada, April 26-30, 1988.
  18. **Delamarter, R.B.**, Hueftle, M., Modic, M., Ross, J., and Bohlman, H.H.: Post-operative Epidural Fibrosis vs. Recurrent Lumbar Disc Herniation: Diagnosis by Gadolinium-DTPA Enhanced Magnetic Resonance Imaging. Presented at American Orthopaedic Association, Hot Springs, Virginia, June 20-23, 1988.
  19. Hales, D., Dawson, E. and **Delamarter, R.B.**: Late Neurologic Complications of Harrington Instrumentation. Presented at the Scoliosis Research Society, Baltimore, Maryland, Sept. 29 - Oct. 2, 1988.
  20. **Delamarter, R.B.**, Bohlman, H.H., Dodge, L. and Biro, C.: Correlation of Cortical Evoked Potentials, Vasculature and Histopathology in Chronic Cauda Equina Compression: "An Animal Model." Presented at the Scoliosis Research Society, Baltimore, Maryland, Sept. 29 - Oct. 2, 1988.
  21. **Delamarter, R.B.**: Correlation of Cortical Evoked Potentials, Vasculature and Histopathology in Chronic Cauda Equina Compression: "An Animal Model." Department of Surgery, Stanford University, Palo Alto, California. (North American Traveling Fellow), October 10, 1988.

22. **Delamarter, R.B.:** Experimental Spinal Stenosis: Cortical Evoked Potential Vasculature and Histopathology Analysis. San Francisco General Hospital. San Francisco, California. (North American Traveling Fellow), October 14, 1988.
23. **Delamarter, R.B.:** Gadolinium-DTPA Enhanced Magnetic Resonance Imaging: Diagnosis of Post-Operative Epidural Fibrosis vs. Recurrent Lumbar Disc Herniation. Department of Orthopaedic Surgery, University of Utah, Salt Lake City, Utah. (North American Traveling Fellow), October 18, 1988.
24. **Delamarter, R.B.:** Experimental Spinal Stenosis: Cortical Evoked Potential Vasculature and Histopathology Analysis. Department of Orthopaedic Surgery, Oregon Health Sciences University, Portland, Oregon. (North American Traveling Fellow), October 19, 1988.
25. **Delamarter, R.B.:** Diagnosis of Post-Operative Epidural Fibrosis vs. Recurrent Lumbar Disc Herniation: Gadolinium-DTPA Enhanced MRI. University of Oregon, Eugene, Oregon. (North American Traveling Fellow), October 21, 1988.
26. **Delamarter, R.B.:** Cervical Spine Disease with Rheumatoid Arthritis. Department of Orthopaedic Surgery, University of British Columbia, Vancouver, British Columbia, Canada. (North American Traveling Fellow), October 27, 1988.
27. **Delamarter, R.B.:** An Animal Model of Experimental Lumbar Spinal Stenosis. University of Alberta, Calgary, Alberta, Canada. (North American Traveling Fellow), October 29, 1988.
28. **Delamarter, R.B.:** The First Animal Model of Chronic Cauda Equina Compression: Cortical Evoked Potential, Vasculature and Histopathologic Analysis. University of Alberta, Edmonton, Alberta, Canada. (North American Traveling Fellow), November 1, 1988.
29. **Delamarter, R.B.:** Current Concepts in Spine Surgery. Department of Physical and Occupational Therapy, University of California, Los Angeles, November 16, 1988.
30. Bodner, D.R., **Delamarter, R.B.** and Bohlman, H.H.: Experimental Urologic Function Following Spinal Cord Compression. Presented at American Urologic Association, (Winner Honorable Mention Outstanding Research Paper), November 1988.
31. Lang, P., Rhodes, M., Knobloch, B., Chafetz, N., Sanny, J., Rothman, S., **Delamarter, R.B.**, Kilgus, D., and Burnett, K.: Avascular Necrosis of the Hip: Three-Dimensional Reconstruction From Spin Echo and Gradient Echo MR Images. Presented at The Radiologic Society of North America, Chicago, Illinois, November 27 - December 2, 1988.
32. **Delamarter, R.B.**, Chafetz, N., Lang, P., Rothman, S.L., Sanny, J., and Rhodes, M.L.: Cine-MR of the Cervical Spine. Presented at The Radiologic Society of North America, Chicago, Illinois, November 27 - December 2, 1988.

33. **Delamarter, R.B.**, Batzdorf, U., and Bohlman, H.H.: The C7-T1 Junction: Problems with Diagnosis, Visualization, Instability and Decompression. Presented at the Cervical Spine Research Society 1988 Annual Meeting, Key Biscayne, Florida, December 2, 1988.
34. **Delamarter, R.B.**, Chafetz, N., Lang, P., Rothman, S.L., Sanny, J., and Rhodes, M.L.: Dynamic Cine-MRI of the Cervical Spine. Presented at the Cervical Spine Research Society 1988 Annual Meeting, Key Biscayne, Florida, December 3, 1988.
35. **Delamarter, R.B.**, Bohlman, H.H. and Biro, C.: Decompression of Experimental Spinal Stenosis: Cortical Evoked Potential, Vasculature and Histopathology Analysis. Presented at the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 4, 1989.
36. Hales, D., Dawson, E. and **Delamarter, R.B.**: Late Neurologic Complications of Harrington Instrumentation. Presented at the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 4, 1989.
37. **Delamarter, R.B.**, Bohlman, H.H., and Biro, C.: Decompression of Experimental Spinal Stenosis: Cortical Evoked Potential, Vasculature and Histopathology Analysis. Presented at the Orthopaedic Research Society Meeting, Las Vegas, NV, February 1989.
38. **Delamarter, R.B.**: Experimental Cauda Equina Compression: Etiology of Pain and Paralysis. UCLA, Department of Surgery Grand Rounds, March 8, 1989.
39. **Delamarter, R.B.**: Spinal Stenosis - Back Surgery for the Elderly. Presented at UCLA, Department of Geriatrics Grand Rounds, May 9, 1989.
40. **Delamarter, R.B.**, Bohlman, H.H., and Biro, C.: Decompression of Experimental Spinal Stenosis: Analysis of Cortical Evoked Potentials, Vasculature and Histopathology, Presented at the International Society for the Study of Lumbar Spine, Kyoto, Japan, May 15-19, 1989.
41. **Delamarter, R.B.**, Bohlman, H.H., and Biro, C.: Decompression of Experimental Spinal Stenosis: Analysis of Cortical Evoked Potentials, Vasculature and Histopathology, Presented at the American Orthopaedic Association, Colorado Springs, CO, June 12-15, 1989.
42. **Delamarter, R.B.**, Bohlman, H.H., and Biro, C.: Decompression of Experimental Spinal Stenosis: Analysis of Cortical Evoked Potentials, Vasculature and Histopathology, Presented at the North American Spine Society, Quebec City, Canada, July 1, 1989.
43. **Delamarter, R.B.**, Ross, J.S., Van Dyke, C., Masaryk, T.J., Hueftle, M., Bohlman, H.H. and Modic, M.T.: Bio-Distribution Analysis of Gadolinium - DTPA Enhanced MRI Post-Laminectomy Scar - Why Does it Enhance? Presented at the North American Spine Society, Quebec City, Canada, July 1, 1989.
44. **Delamarter, R.B.**, Bohlman, H.H., Bodner, D. and Biro, C.: Urologic Function Following Experimental Cauda Equina Compression: Cystometrograms vs. Cortical

- Evoked Potentials. Presented at the Scoliosis Research Society, Amsterdam, The Netherlands (Russell Hibbs Basic Science Award) September 18, 1989.
45. **Delamarter, R.B.**, Bohlman, H.H. and Bodner, D.: Experimental Cauda Equina Syndrome: The Etiology of Bladder Dysfunction and Paralysis. Presented at the Western Orthopaedic Association, Anaheim, California, October 26, 1989.
  46. **Delamarter, R.B.**: Surgery of the Rheumatoid Cervical Spine. Presented at Rheumatology Grand Rounds, UCLA Dept. of Medicine, October 30, 1989.
  47. **Delamarter, R.B.**: Instructional Course Lecture - Management of Cervical Spine Trauma. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 12, 1990.
  48. **Delamarter, R.B.**, Batzdorf, U. and Bohlman, H.H.: The C7-T1 Junction: Problems with Diagnosis, Instability and Decompression. Presented at the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 13, 1990.
  49. **Delamarter, R.B.** and Bohlman, H.H.: Failed Lumbar Microdiscectomies. Presented at the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 13, 1990.
  50. **Delamarter, R.B.**, Deutsch, A., Goldstein, T., Mink, J. and Dawson, E.: Magnetic Resonance Imaging Pre-and Post-Operative Percutaneous Lumbar Discectomy. Presented at the International Society for the Study of the Lumbar Spine, Boston, Massachusetts, June 14, 1990.
  51. **Delamarter, R.B.**, Bohlman, H.H., Bodner, D. and Biro, C.: The Pathophysiology of Bladder Dysfunction and Subsequent Recovery Following Decompression of Experimental Cauda Equina. Presented at the International Society for the Study of the Lumbar Spine, Boston, Massachusetts, June 16, 1990.
  52. **Delamarter, R.B.**: Adult Spinal Diseases. Curriculum Lecture at Childrens Hospital, Physical Therapy Department, Los Angeles, CA, June 21, 1990.
  53. **Delamarter, R.B.**, Bohlman, H.H., Bodner, D. and Biro, C.: The Pathophysiology of Bladder Dysfunction and Subsequent Recovery Following Decompression of Experimental Cauda Equina Syndrome. Presented at the North American Spine Society, Monterey, California, August 11, 1990.
  54. **Delamarter, R.B.**, Deutsch, A., Goldstein, T., Mink, J. and Dawson, E.: Magnetic Resonance Imaging Pre-and Post-Operative Percutaneous Lumbar Discectomy. Presented at the American Academy of Orthopaedic Surgeons, March 7, 1991.
  55. **Delamarter, R.B.**, Bodner, D. and Bohlman, H.H.: Bladder Recovery Following Late Decompression of Experimental Cauda Equina Compression. Presented at the American Academy of Orthopaedic Surgeons, Anaheim, California, March 8, 1991.

56. **Delamarter, R.B.**, Instructional Course Lecture - Management of Cervical Spine Trauma. American Academy of Orthopaedic Surgeons, Anaheim, California, March 9, 1991.
57. **Delamarter, R.B.**, Bodner, D. and Bohlman, H.H.: Bladder Recovery Following Late Decompression of Experimental Cauda Equina Compression. Presented at the Federation of Spine Associations, American Spinal Injury Association, Anaheim, California, March 10, 1991.
58. **Delamarter, R.B.**: Instructional Course Lecture - Anterior Techniques For Decompression In Spinal Cord Trauma. American Academy of Orthopaedic Surgeons, Anaheim, California, March 10, 1991.
59. **Delamarter, R.B.**, Bodner, D. and Bohlman, H.H.: Cauda Equina Syndrome. American Spinal Injury Association, Seattle, Washington, April 1991.
60. **Delamarter, R.B.**: Spinal Instrumentation In-Service Lecture, UCLA Operating Room Nursing Staff, April 17, 1991.
61. **Delamarter, R.B.**, Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early or Late Decompression. Presented at the International Society for Study of the Lumbar Spine, Heidelberg, Germany, May 1991 (Volvo Award in Experimental Studies).
62. **Delamarter, R.B.**, Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early or Late Decompression, Presented at North American Spine Society. Keystone, Colorado, August 2, 1991.
63. **Delamarter, R.B.**: Cervical Spine Injury. UCLA Department of Neurology Grand Rounds, September 6, 1991.
64. **Delamarter, R.B.**: Stabilization of Metastatic Spinal Disease. UCLA Department of Neurosurgery Symposium, September 18, 1991.
65. **Delamarter, R.B.**, Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early, or Late Decompression. Scoliosis Research Society, Minneapolis, Minnesota, September 25, 1991.
66. Howard, M.W., **Delamarter, R.B.**, Dawson, E.G., Holmes, C.C.: Muscle-sparing Posterolateral Thoracotomy Approach for Anterior Thoracic Spinal Surgery. Western Orthopaedic Association. Tucson, Arizona, October 21, 1991.
67. **Delamarter, R.B.**, Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early or Late Decompression. Western Orthopaedic Association, Tucson, Arizona, October 21, 1991.
68. **Delamarter, R.B.**: Cervical Spine Tumors - Session Moderator. Cervical Spine Research Society, Philadelphia, Pennsylvania, December 6, 1991.

69. **Delamarter, R.B.:** Spine Surgery in Patients with Rheumatoid Arthritis. UCLA Division of Rheumatology Grand Rounds, December 18, 1991.
70. **Delamarter, R.B.,** Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome. Orthopaedic Research Society, Washington, D.C., February 17, 1992.
71. **Delamarter, R.B.,** Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome. American Academy of Orthopaedic Surgery, Washington, D.C., February 17, 1992.
72. **Delamarter, R.B.:** Cervical Spine Trauma - Evaluation and Treatment Instructional Course Lecture, American Academy of Orthopaedic Surgery, Washington, D.C., February 22, 1992.
73. **Delamarter, R.B.:** Lumbar Fusion with Internal Fixation. AAOS Course "Lumbar Spinal Fusion, Atlanta, Georgia. May 2, 1992.
74. **Delamarter, R.B.:** Diagnosing Lumbar Pseudoarthrosis. AAOS CME Course, "Lumbar Spinal Fusion", Atlanta, Georgia, May 2, 1992.
75. **Delamarter, R.B.,** Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome: Neurologic Recovery Following Immediate, Early or Late Decompression. American Spinal Injury Association, Toronto, Canada, May 8, 1991.
76. **Delamarter, R.B.:** (1) Cervical Microsurgery - Complications of Anterior and Posterior Approach; (2) Cervical Microsurgery - Laminoplasty Techniques; (3) Lumbar Microsurgery - Surgical entries into the spinal canal; (4) Lumbar microsurgery - Lateral zone stenosis. Lectures given at the Advanced Microsurgery of the Lumbar and Cervical Spine. St. Louis University, May 15-19, 1992.
77. Howard, M., **Delamarter, R.B.,** Dawson, E., Deutch, A., Mink, J.: MRI Following Successful Lumbar Discectomy. North American Spine Society. Boston, Massachusetts, July 1992.
78. **Delamarter, R.B.:** (1) Current Treatment of Scoliosis, (2) Cervical Degenerative Disc Disease. Family Practice Symposium. Anaheim, California, August 2, 1992.
79. **Delamarter, R.B.:** (1) Lumbar Fusion with Instrumentation, (2) Salvaging Failed Fusions. Course Moderator and Chairman, American Academy of Orthopaedic Surgeons, CME Course. Los Angeles, California, September 12, 1992.
80. **Delamarter, R.B.:** Percutaneous Lumbar Laser Discectomies, Update Symposium. AAOS Summer Institute. Seattle, Washington, September 21, 1992.
81. **Delamarter, R.B.:** Cervical Spine Injuries in Football. UCLA Division of Orthopaedic Surgery, Grand Rounds. October 3, 1992.



82. **Delamarter, R.B.:** Spondylolisthesis, Spondylosis, Lumbar Disc Disease. Family Medicine #257, An Interdisciplinary Approach to Sports Medicine. UCLA, October 21, 1992.
83. **Delamarter, R.B.:** Discrepancies in the Orthopaedic Literature. Why? Instructional Course Lecture #209. American Academy of Orthopaedic Surgery, San Francisco, California. February 19, 1993.
84. **Delamarter, R.B.:** Cervical Spine Trauma - Evaluation and Treatment, Instructional Course Lecture #129. American Academy of Orthopaedic Surgery, San Francisco, California. February 20, 1993.
85. Howard, M., **Delamarter, R.B.**, Dawson, E., Deutsch, A., Mink, J.: MRI Following Successful Lumbar Discectomy. (1) American Academy of Orthopaedic Surgery, February 22, 1993; (2) Federation of Spinal Association, February 21, 1993, San Francisco, California.
86. **Delamarter, R.B.**, Sherman, J., Carr, J.: Cauda Equina Syndrome. Federation of Spine Association, San Francisco, California, February 21, 1993.
87. **Delamarter, R.B.:** Lumbar Disc Injuries in Athletes. Managing Low Back Pain 1993, New Orleans, Louisiana, April 25, 1993.
88. **Delamarter, R.B.:** (1) Cervical Discectomy - To Fuse or Not to Fuse. (2) Cervical Microsurgery - Autograft vs. Allograft. (3) Lumbar Microdiscectomy - How to Handle Dural Tears. (4) Failed Lumbar Microdiscectomy. Advanced Microsurgery Course, St. Louis University, St. Louis, Missouri, April 22-24, 1993.
89. **Delamarter, R.B.**, Sherman, J.E., Carr, J.: Spinal Cord Injury: The Pathophysiology of Spinal Cord Damage and Subsequent Recovery Following Immediate or Delayed Decompression. International Society for Study of the Lumbar Spine, Marseilles, France, June 15, 1993.
90. Callewart, C., Minchew, J., **Delamarter, R.B.:** Hyponatremia and the Syndrome of Inappropriate Antidiuretic Hormone Secretion in Adult Spinal Surgery. International Society for the Study of the Lumbar Spine, Marseilles, France, June 15, 1993.
91. **Delamarter, R.B.:** (1) The Athletes Back - Spondylolysis and Spondylolisthesis. (2) Lumbar Discogenic Disease. Primary Care Sports Medicine Symposium, Newport Beach, California, June 24, 1993.
92. **Delamarter, R.B.:** (1) Cervical Spine Trauma, (2) Alternatives to Lumbar Laminectomy, American Academy of Orthopaedic Surgeons Summer Institute, New York, New York, September 8-9, 1993.
93. **Delamarter, R.B.:** (1) Lumbar Disc Disease: Alternatives to Lumbar Laminectomy, (2) Lumbar Spinal Stenosis. The Homer C. Pheasant Memorial Lecture, Orthopaedic Hospital, October 28, 1993.

94. **Delamarter, R.B.:** Lumbar Degenerative Disc Disease - Posterior Fusion and Instrumentation: Techniques and Results. State of the Art Spine, Los Croabaz, Puerto Rico, November 1993.
95. **Delamarter, R.B.:** Lumbar Fusion with Instrumentation. State of the Art Spine, Los Croabaz, Puerto Rico, November 1993.
96. Kumar, A., Leventhal, M., Freedman, E., Coburn, J., **Delamarter, R.B.:** Destructive Spondyloarthropathy of the Cervical Spine in Patients with Chronic Renal Disease, Cervical Spine Research Society, New York, New York, December 2, 1993.
97. Hartleben, P., Freedman, E., Blinderman, E., **Delamarter, R.B.:** Cervical Laminoplasty: Clinical and Radiographic Follow-up. Cervical Spine Research Society, New York, New York, December 2, 1993.
98. **Delamarter, R.B.,** Sherman, J., Carr, J.: Spinal Cord Injury: The Pathophysiology of Spinal Cord Damage Following Immediate or Delayed Decompression. Cervical Spine Research Society, New York, New York, December 2, 1993.
99. **Delamarter, R.B.:** Cervical Disease. American Academy of Orthopaedic Surgeons Comprehensive Review Course, San Francisco, California, December 5, 1993.
100. **Delamarter, R.B.:** (1) Lumbar Disc Disease - New Treatment Alternatives, (2) Spinal Instrumentation - State of Art. Campbell Clinic Symposium, Scottsdale, Arizona, January 30, 1994
101. **Delamarter, R.B.:** Cervical Spine Trauma - Initial Diagnosis and Management. American Academy of Orthopaedic Surgeons Instructional Course Lecture Series, New Orleans, Louisiana, February 27, 1994.
102. **Delamarter, R.B.:** Lumbar Spondyloysis and Spondylolisthesis. Family Practice - Sports Medicine Course #230, UCLA School of Medicine, April 1994.
103. **Delamarter, R.B.:** 1) Lumbar Microdiscectomy - Ligamentum Flavum Sparring Approach, 2) Intradiscal Techniques During Microsurgery, 3) Microdiscectomy Infections, 4) Patient Positioning in Microsurgery, 5) Cervical Microsurgery: Anterior or Posterior? 6) Cervical Dural Tears, 7) Microsurgery for Thoracic Disc Herniations. Advanced Microsurgery of the Lumbar and Cervical Spine, St. Louis, Missouri, April 20-23, 1994.
104. **Delamarter, R.B.,** Sherman, J., Carr, J.: Spinal Cord Injury. American Spinal Injury Association, Philadelphia, Pennsylvania, April 25, 1994.
105. **Delamarter, R.B.:** Lumbar Microsurgery: Spine Surgery Update. American Academy of Orthopaedic Surgeons, Chicago, Illinois, May 5-7, 1994.
106. **Delamarter, R.B.,** Freedman, E., Kanim, L., Dawson, E.G.: Variability in Lumbar Spine Bone Mineral Densitometry by Dual-Energy X-ray Absorptiometry in Normal

- Volunteers. International Society for the Study of the Lumbar Spine, Seattle, Washington, June 22-25, 1994.
107. Minchew, J.T., Kushwaha, V.P., **Delamarter, R.B.**: Rapid Posterolateral Spinal Fusion Utilizing an Alternative Graft Harvesting Technique. Scoliosis Research Society, Portland, Oregon, September 21-24, 1994.
  108. **Delamarter, R.B.**: Football Injuries of the Cervical Spine. Sports Medicine Conference Series. UCLA Division of Family Medicine, September 1994.
  109. **Delamarter, R.B.**, Wang, J.C., Minchew, J.T., Hartleben, P., Lopata, S.: MRI Parameters for Imaging Titanium Spinal Instrumentation. North American Spine Society Annual Meeting, Minneapolis, Minnesota, October 21, 1994.
  110. **Delamarter, R.B.**, Kushwaha, V., Minchew, J.: A New Technique for Rapid Lumbar Fusion. North American Spine Society, Minneapolis, Minnesota, November 1994.
  111. **Delamarter, R.B.**: Cervical Trauma - Initial Management. Instructional Course Lecture Series. American Academy of Orthopaedic Surgery, Orlando, Florida, February 1995.
  112. **Delamarter, R.B.**, Sherman, J., Carr, J.: Spinal Cord Injury: The Pathophysiology of Spinal Cord Damage Following Immediate or Delayed Decompression. Federation of Spine Associations, Orlando, Florida, February 1995.
  113. Kumar, A., Leventhal, M., Freedman, E., **Delamarter, R.B.**: Destructive Spondyloarthropathy of the Cervical Spine in Renal Dialysis Patients. Federation of Spine Associations, Orlando, Florida, February 1995.
  114. Kushwaha, V.P., Minchew, J.T., Kanim, L.E.A., **Delamarter, R.B.**: Rapid Lumbar Spinal Fusion Utilizing an Alternative Graft Harvesting Technique. American Academy of Orthopaedic Surgeons, Orlando, Florida, February 16-21, 1995.
  115. **Delamarter, R.B.**: Moderator - Thoracolumbar Trauma, American Spinal Injury Association. Federation of Spine Association, Orlando, Florida, February 1995.
  116. Kanim, L.E.A., Freedman, E.L., Becker, H.W., Seeger, L.L., Tipton, J.S., Dawson, E.G., **Delamarter, R.B.**, Kilgus, D.J.: Variability in Lumbar Spine Bone Mineral Densitometry by Dual Energy X-Ray Absorptiometry in Normal Volunteers. Poster, American Academy of Orthopaedic Surgeons, Orlando, Florida, February 20, 1995.
  117. Wang, J.C., Minchew, J.T., Hartleben, P., Lopata, S., **Delamarter, R.B.**: Magnetic Resonance Imaging Parameters for Imaging Titanium Spinal Instrumentation. Poster, American Academy of Orthopaedic Surgeons, Orlando, Florida, February 17, 1995.
  118. **Delamarter, R.B.**: (1) Complications of Anterior and Posterior Cervical Surgery, (2) Adult Lumbar Spondylolisthesis, (3) Spinal Cord Monitoring - Sensory & Motor: Indications and Accuracy. American Academy of Orthopaedic Surgeons: Debating Complex Issues in Spine Surgery, San Francisco, California, May 1-3, 1995.

119. Sandhu, H.S., Kanim, L.E.A., Kabo, J.M., Liu, D., **Delamarter, R.B.**, Dawson, E.G.: Comparison of Various Doses of rhBMP-2 and OPLA Carrier in a Canine Spinal Fusion Model. International Society for the Study of the Lumbar Spine, Helsinki, Finland, June 1995.
120. Sandhu, H.S., Kanim, L.E.A., Kabo, J.M., Liu, D., **Delamater, R.B.**, Dawson, E.G.: Effective Doses of Recombinant Bone Morphogenetic Protein in Experimental Spinal Fusion. Scoliosis Research Society, Asheville, North Carolina, September 13-16, 1995.
121. Sandhu, H.S., Ozuna, R.M., Kanim, L.E.A., Liu, D., Kabo, J.M., **Delamarter, R.B.**, Dawson, E.G.: Carriers for Bone Morphogenetic Protein for Posterolateral Spinal Fusion. Scoliosis Research Society, Asheville, North Carolina, September 1995.
122. Sandhu, H.S., Ozuna, R.M., Kanim, L.E.A., Liu, D., Kabo, J.M., **Delamarter, R.B.**, Dawson, E.G.: Experimental Spinal Fusions with Recombinant BMP: Is Decortication Necessary? Scoliosis Research Society, Asheville, North Carolina, September 1995.
123. Sandhu, H.S., Turner, S., Boyd, L., Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Distractive Properties of Interbody Cages: An In Vivo Model, Scoliosis Research Society, Asheville, North Carolina, September 1995.
124. Sandhu, H.S., Kanim, L.E.A., Kabo, J.M., Liu, D., **Delamater, R.B.**, Dawson, E.G.: Effective Doses of Recombinant Bone Morphogenetic Protein in Experimental Spinal Fusion. North American Spine Society, Washington, D.C., October 1995.
125. Sandhu, H.S., Ozuna, R.M., Kanim, L.E.A., Liu, D., Kabo, J.M., **Delamarter, R.B.**, Dawson, E.G.: Carriers for Bone Morphogenetic Protein for Posterolateral Spinal Fusion. North American Spine Society, Washington, D.C., October 1995.
126. Sandhu, H.S., Ozuna, R.M., Kanim, L.E.A., Liu, D., Kabo, J.M., **Delamarter, R.B.**, Dawson, E.G.: Experimental Spinal Fusions with Recombinant BMP: Is Decortication Necessary? North American Spine Society, Washington, D.C., October 1995.
127. Tsai, R.Y., Yang, R.S. Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Intraoperative Dermatomal Evoked Potential Monitoring in Lumbar Decompression Surgery, North American Spine Society, Washington, D.C., October 1995.
128. Raskas, D.S., **Delamarter, R.B.**, Kanim, L.E.A., Berry, M.A.: Salvage Surgery for Patients with Failed Cervical Surgery: A Patient Oriented Outcome Study. North American Spine Society, Washington, D.C., October 1995.
129. Minchew, J.T., Kono, M., Berry, M.A., Kanim, L.E.A., **Delamarter, R.B.**: Outcome Based Results of Lumbar Microdiscectomy. North American Spine Society, Washington, D.C., October 1995.
130. Sandhu, H.S., Kanim, L.E.A., Kabo, J. Liu, D., **Delamarter, R.B.**, Dawson, E.G.: Comparison of Various Doses of rhBMP-2 and OPLA Carrier in a Canine Spinal Fusion

- Model. 2nd Combined Meeting of the Orthopaedic Research Societies of U.S.A., Japan, Canada and Europe. Poster. San Diego, California, November 5-8, 1995.
131. **Delamarter, R.B.:** (1) Posterior Cervical Micro-Laminoforaminotomy, (2) Anterior Cervical Discectomy/Vertebrectomy and Fusion. American Academy of Orthopaedic Surgery Contemporary Issues in Advanced Spine Surgery, Chicago, Illinois, November 17-19, 1995.
  132. Sandhu, H.S., Turner, S. Boyd, L., Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Distractive Properties of a Threaded Interbody Fusion Device: An In Vivo Model. American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 26, 1996.
  133. Sandhu, H.S., Kanim, L.E.A., Kabo, J.M., Toth, J.M., Zeegen, E.N., Liu, D., **Delamarter, R.B.**, Dawson, E.G.: Effective Doses of Recombinant Human Bone Morphogenetic Protein-2 in Experimental Spinal Fusion. Orthopaedic Research Society, Atlanta, Georgia, February 20, 1996.
  134. Tsai, R.C., Yang, R.S., Nuwer, M.R., Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Intraoperative Dermatome Evoked Potential Monitoring in Lumbar Decompression Surgery. American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 24, 1996.
  135. **Delamarter, R.B.:** "Complications of Anterior and Posterior Cervical Spine Surgery", USC University Hospital, Department of Orthopaedic Surgery, March 21, 1996.
  136. **Delamarter, R.B.:** 1) Complications of Anterior and Posterior Cervical Surgery, 2) Adult Lumbar Spondylolisthesis, 3) Spinal Cord Monitoring - Sensory & Motor: Indications and Accuracy. American Academy of Orthopaedic Surgeons, Debating Complex Issues in Spine Surgery, Washington, D.C., April 25-27, 1996.
  137. **Delamarter, R.B.:** Lumbar Microsurgery. Co-Chairman, American Academy of Orthopaedic Surgeons Course: "Less Invasive Spine Surgery". St. Louis, Missouri, May 17-19, 1996.
  138. Sandhu, H.S., Ozuna, R., Kanim, L., **Delamarter, R.B.**, Dawson, E.G.: "Undecorticated Spinal Fusions with Recombinant BMP". International Society for the Study of the Lumbar Spine, Burlington, Vermont, June 25-29, 1996.
  139. Sandhu, H.S., Ozuna, R., Kanim, L., **Delamarter, R.B.**, Dawson, E.G.: "Carriers for Bone Morphogenetic Protein for Posterolateral Spinal Fusion". International Society for the Study of the Lumbar Spine, Burlington, Vermont, June 25-29, 1996.
  140. Wang, J.C., Yu, W.D., **Delamarter, R.B.**, Sandhu, H.S.: Comparison of the MRI and CT Imaging of Titanium and Tantalum Spinal Instrumentation. Western Orthopaedic Association, Maui, Hawaii, August 4, 1996.

141. Wang, J.C., Hatch, J.D., **Delamarter, R.B.**, Sandhu, H.S.: The Diagnostic Value of Obtaining Flexion/Extension Radiographs in the Acutely Injured Trauma Patient. Western Orthopaedic Association, Maui, Hawaii, August 4, 1996.
142. Wang, J.C., Hatch, J.D., **Delamarter, R.B.**, Sandhu, H.S.: The Financial Cost of Obtaining Flexion/Extension Radiographs in the Acutely Injured Trauma Patient. North American Spine Society, Vancouver, B.C., October 24, 1996.
143. **Delamarter, R.B.**: "Diagnosis and Management of Cervical Myelopathy." American Academy of Orthopaedic Surgeons Course: "Spinal Decompression and Stabilization: Advanced Surgical Skills," Rosemont, Illinois, November 15-17, 1996.
144. **Delamarter, R.B.**: "Cervical Surgical Failures." Cervical Spine Research Society Annual Meeting, Palm Beach, Florida, December 7-9, 1996.
145. **Delamarter, R.B.**: "Cervical Spine Injury: Backboards, Tongs & Emergency Surgery; How Do You Decide?" The California Trauma Conference, Los Angeles, California, January 9-11, 1997.
146. **Delamarter, R.B.**, Kambin, P., Schaffer, J.L.: "Microdiscectomy or Video Assisted Arthroscopic Discectomy for the Lumbar Disc Herniation". American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lecture Series, San Francisco, California, February 13-17, 1997.
147. **Delamarter, R.B.**, Ducker, T.: Cervical Spine: Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, Instructional Course Lecture Series, San Francisco, California, February 13-17, 1997.
148. **Delamarter, R.B.**: 1) Lumbar Spinal Stenosis, 2) Lumbar Spondylolisthesis. Visiting Professor, San Paolo University, San Paolo, Brazil, March 5-7, 1997.
149. **Delamarter, R.B.**: 1) Adult Lumbar Spondylolisthesis, 2) Spinal Cord Monitoring. American Academy of Orthopaedic Surgeons, "Debating Complex Issues in Spine Surgery", Tucson, Arizona, March 12-15, 1997.
150. **Delamarter, R.B.**, Course Chairman: Least Invasive Spine Surgery: Lumbar Microdiscectomy. American Academy of Orthopaedic Surgeons, St. Louis, Missouri, April 4-6, 1997.
151. **Delamarter, R.B.**, Smith, S.J.: Anterior/Posterior Lumbar Fusion for Failed Pedicle Screw Surgery. International Society for the Study of the Lumbar Spine, Singapore, June 6, 1997.
152. **Delamarter, R.B.**: Neck Pain - Basic Orthopaedics for the Primary Care Physician. UCLA Extension Course, Los Angeles, California, June 6-7, 1997.
153. **Delamarter, R.B.**: Rheumatoid Arthritis of the Cervical Spine. UCLA Department of Rheumatology Grand Rounds, Los Angeles, California, June 9, 1997.

154. Wang, J.C., Yu, W.D., Sandhu, H.S., Betts, F., Bhuta, S., **Delamarter, R.B.**: The Quantification of Metal Debris and the Histological Response from Microscopic Metal Particles Generated from Spinal Instrumentation and Deposited in the Paraspinal Soft Tissues. Scoliosis Research Society, St. Louis, Missouri, September 26, 1997.
155. **Delamarter, R.B.**: Surgical Treatment of Cervical Spondylotic Myelopathy: Anterior vs. Posterior. Cervical Spine Research Society Annual Meeting, Palm Desert, California, December 5-7, 1997.
156. Wang, J.C., Hatch, J.D., **Delamarter, R.B.**, Sandhu, H.S.: The Diagnostic Value of Cervical Flexion and Extension Radiographs in Acutely Injured Patients. Cervical Spine Research Society Annual Meeting, Palm Beach, Florida, December 6, 1997.
157. **Delamarter, R.B.**: Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, Louisiana, March 19-23, 1998.
158. Wang, J.C., Yu, W.D., Sandhu, H.S., Betts, F., Bhuta, S., **Delamarter, R.B.**: The Quantification of Metal Debris and the Histological Response from Microscopic Metal Particles Generated from Spinal Instrumentation and Deposited in the Paraspinal Soft Tissues. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, Louisiana, March 19, 1998.
159. **Delamarter, R.B.**: Surgical Treatment of Cervical Spondylotic Myelopathy: Anterior vs. Posterior. Federation of Spine Association Annual Meeting, New Orleans, Louisiana, March 19-23, 1998.
160. Wang, J.C., Yu, W.D., Sandhu, H.S., Betts, F., Bhuta, S., **Delamarter, R.B.**: The Quantification of Metal Debris and the Histological Response from Microscopic Metal Particles Generated from Spinal Instrumentation and Deposited in the Paraspinal Soft Tissues. International Society for the Study of the Lumbar Spine Annual Meeting, Brussels, Belgium, June 12, 1998.
161. Wang, J.C., Yu, W.D., **Delamarter, R.B.**, Sandhu, H.S.: Comparison of the MRI and CT Imaging of Titanium and Tantalum Spinal Instrumentation. International Society for the Study of the Lumbar Spine annual Meeting, Burlington, Vermont, June 27, 1998.
162. **Delamarter, R.B.**: Minimally Invasive Fusion Techniques. Challenges to Spine Surgery EBI Program, Las Vegas, Nevada, October 9, 1998.
163. Wang, J.C., McDonough, P.W., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.**: Increased Fusion Rates with Cervical Plating for Two-Level ACDF. North American Spine Society Annual Meeting, San Francisco, California, October 31, 1998.
164. **Delamarter, R.B.**: Cervical Burst Fractures. Cervical Spine Research Society Annual Meeting, Atlanta, GA, December 6, 1998.

165. Wang, J.C., McConough, P.W., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.:** Increased Fusion Rates with Cervical Plating for Two-Level ACDF, Cervical Spine Research Society Annual Meeting, Atlanta, Georgia, December 4, 1998.
166. Wang, J.C., McDonough, P., Endow, K.K., Kanim, L.E.A., **Delamarter, R.B.:** Increased Fusion Rates with Cervical Plating for Single-level Anterior Cervical Discectomy. Cervical Spine Research Society Annual Meeting, Atlanta, Georgia, December 4, 1998.
167. **Delamarter, R.B.:** Instructional Course Lecture: Least Invasive Spine Surgery Options for the Degenerative Lumbar Spine. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 8, 1999.
168. **Delamarter, R.B.:** Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 5, 1999.
169. **Delamarter, R.B.:** Instability: A Surgeon's Perspective. American Society of Neuroradiology Annual Meeting, San Diego, California, May 27, 1999.
170. **Delamarter, R.B.:** The Treatment of Instability. American Society of Neuroradiology Annual Meeting, San Diego, California, May 27, 1999.
171. McDonough, P.W., Wang, J.C., Endow, K., **Delamarter, R.B.:** Increased Fusion Rates with Cervical Plating for Three-Level ACDF. North American Spine Society Annual Meeting, Chicago, Illinois, October 23, 1999.
172. **Delamarter, R.B.:** "State of the Art in Spine Surgery 2000", Course Chairman; Techniques and Avoiding Complications in O-C1-2 Fusion Surgery; Cervial Interbody Cages, Whistler, Canada, February 17-18, 2000.
173. **Delamarter, R.B.:** Instructional Course Lecture: Microsurgery for Degenerative Conditions of the Lumbar Spine. American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, Florida, March 17, 2000.
174. **Delamarter, R.B.:** Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, Florida, March 19, 2000.
175. Davies, M., Geck, M., **Delamarter, R.B.:** Prospective Comparison of Fusion Rates and Subsidence Between the BAK and BAK Proximity Cages. International Society for the Study of the Lumbar Spine Annual Meeting, Adelaide, Australia, April 9-13, 2000.
176. **Delamarter, R.B.:** Strategic Advisory Spine Meeting: Anterior Lumbar Interbody Fusion; Posterior Oblique Lumbar Interbody Fusion; Cabo San Lucas, Mexico, July 13-14, 2000.
177. **Delamarter, R.B.:** 6th Annual Spine Surgeons International Symposium; "Degenerative Lumbar Disease", Moderator; Napa, California, September 21-23, 2000.



178. Geck, M.J., Wang, J.C., **Delamarter, R.B.**: ACDF with and without Plates in 205 Patients: Clinical Results and Adjacent Segment Disease”; North American Spine Society Annual Meeting, New Orleans, LA, October 25-28, 2000.
179. **Delamarter, R.B.**: Kyphoplasty – State of the Art. Los Robles Hospital, Westlake Village, CA, November 3, 2000.
180. **Delamarter, R.B.**: First Annual Spinal Horizons Symposium: Avoiding Complications in Cervical Spine Surgery; Kyphoplasty - Advanced and Basic Strategies, Harrington, South Dakota, November 10-11, 2000.
181. **Delamarter, R.B.**: How Do You Fix a Non-Union? Cervical Spine Research Society, Charleston, South Carolina, December 2-3, 2000.
182. Rogers, D.E., Le, A.X, Harris, D., Eclarino, J.E., McDonough, P., **Delamarter, R.B.**: Posterior Cervical Fusions Using Unicortical Lateral Mass Screws; Cervical Spine Research Society, Charleston, South Carolina, December 2-3, 2000.
183. **Delamarter, R.B.**: Grand Rounds at UC Irvine: “Avoiding Complications in Cervical Spine Surgery”, Irvine, California, December 14, 2000.
184. **Delamarter, R.B.**: Posterior Lumbar Interbody Fusions – Options. San Diego City Spine Conference, San Diego, California, February 21, 2001.
185. **Delamarter, R.B.**: AAOS Instructional Course Lecture: Microsurgery for Degenerative Conditions of the Cervical Spine. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, February 28, 2001.
186. **Delamarter, R.B.**: AAOS Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 1, 2001.
187. **Delamarter, R.B.**: AAOS Instructional Course Lecture: Microsurgery for Degenerative Conditions of the Lumbar Spine. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 2, 2001.
188. **Delamarter, R.B.**: AAOS Symposium: Head & Neck Injuries in Athletes. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 4, 2001.
189. **Delamarter, R.B.**: “State of the Art in Spine Surgery 2001”, 1) Anterior Cervical Discectomy and Fusion: Are Cages an Option? 2) Cervical Decompression: Laminectomy vs. Laminoplasty; Whistler, Canada, March 22-23, 2001.
190. Pradhan, B.B., Nassar, J.A., **Delamarter, R.B.**, Wang, J.C.: Instrumented Single Level Lumbar Intervertebral Fusion: A Comparison of Anterior and Posterior Approaches. Scoliosis Research Society Annual Meeting, Cleveland, Ohio, September 2001.

191. Davis, T., **Delamarter, R.B.**: The Intradiscal Electrothermal Therapy procedure for chronic discogenic low back pain. North American Spine Society, Seattle, Washington, November 2001.
192. Sandhu, H.S., **Delamarter, R.B.**, Kanim, L.E.A., Cammisa Jr., F.P., Curcin, A., Hanley Jr., E.N., Fischgrund, J.S., Valentin-Opran, A., Lang, T.: Improved bone formation in smokers with recombinant human bone morphogenetic protein-2. North American Spine Society, pp17S, Seattle, Washington, November 2001.
193. **Delamarter, R.B.**: Spine Problems in Elite Soccer Players. International Football and Sports Medicine Conference, Beverly Hills, California, March 2002.
194. **Delamarter, R.B.**: Posterior Lumbar Oblique Anthrodesis. Advanced Education Symposium, Grand Bahamas Island, April 2002.
195. **Delamarter, R.B.**: 1) Laminoplasty: Indications, Techniques and Outcomes; 2) Kyphoplasty and Vertebralplasty. Clinical Challenges and Advancements in Spine Surgery, Carlsbad, California, July 2002.
196. **Delamarter, R.B.**: 1) Artificial Intervertebral Disc; 2) Posterior Lumbar Interbody Fusion—Cages. Surgical Management of Degenerative Lumbar Disorders, Boston, Massachusetts, September 2002.
197. **Delamarter, R.B.**: Athletic Head and Neck Injuries Symposium. Cervical Spine Research Society, Miami Beach, Florida, December 2002.
198. **Delamarter, R.B.**: Microsurgery of the Cervical Spine. Instructional Course Lecture Series, American Academy of Orthopaedic Surgeon Annual Meeting, New Orleans, Louisiana, February 2003.
199. **Delamarter, R.B.**: Microsurgery for Degenerative Conditions of the Lumbar Spine. Instructional Course Lecture Series, American Academy of Orthopaedic Surgeon Annual Meeting, New Orleans, Louisiana, February 2003.
200. **Delamarter, R.B.**: Lumbar Disc Degenerations – Treatment Options. Instructional Course Lecture Series, American Academy of Orthopaedic Surgeon Annual Meeting, New Orleans, Louisiana, February 2003.
201. **Delamarter, R.B.**: Cervical Spine Injury – Treatment and Timing. Federation of Spine Associations, New Orleans, Louisiana, February 2003.
202. **Delamarter, R.B.**: Results of Prodisc Artificial Disc Replacement. Second Annual Symposium on Current Concepts in Spinal Disorders, La Quinta, California, March 2003.
203. Tang, C., Fribourg, D., Bae, H., **Delamarter, R.B.**: Evaluation of Fracture Recurrence after Kyphoplasty with PMMA Augmentation in Vertebral Insufficiencies Fractures. International Society for the Study of the Lumbar Spine, Vancouver, British Columbia, May 2003.

204. Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., **Delamarter, R.B.**: Transfected Fibroblasts Producing BMP-@ Induce Posterolateral Fusion in a Rat. International Society for the Study of the Lumbar Spine, Vancouver, British Columbia, May 2003.
205. Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., **Delamarter, R.B.**: Inter and Intravariability of BMPs in Commercially Available Demineralized Bone Matrices. International Society for the Study of the Lumbar Spine, Vancouver, British Columbia, May 2003.
206. **Delamarter, R.B.**: Honored Guest. Spinal Arthroplasty: Where Are We? Controversies and New Techniques in the Cervical Spine. University of Washington. Seattle, Washington, June 2003.
207. **Delamarter, R.B.**, Bae, H.: Dynamic Anterior Cervical Plates and Why They Fail. North American Spine Society Annual Meeting, Spine Across the Sea, Maui, Hawaii, July 2003.
208. Fribourg, D., Tang, C., Bae, H., **Delamarter, R.B.**: Incidence of Subsequent Vertebral Fracture After Kyphoplasty. North American Spine Society Annual Meeting, Spine Across the Sea, Maui, Hawaii, July 2003.
209. Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., Dawson, E. G., **Delamarter, R.B.**: Inter and Intravariability of BMPs in Commercially Available Demineralized Bone Matrices. North American Spine Society Annual Meeting, Spine Across the Sea, Maui, Hawaii, July 2003.
210. Bae, H., Zhao, L., Kanim, L.E.A., **Delamarter, R.B.**: Transfected Fibroblasts Producing BMP-@ Induce Posterolateral Fusion in a Rat. North American Spine Society Annual Meeting, Spine Across the Sea, Maui, Hawaii, July 2003.
211. **Delamarter, R.B.**, Bae, H.: Dynamic Anterior Cervical Plates: Why They Fail? World Spine II, Chicago, Illinois, August 2003.
212. Kanim, L.E.A., Bae, H., Zhao, L., Wong, P. Dawson, E., **Delamarter, R.B.**: Transfected Fibroblasts Producing BMP-2 Induce Posterolateral Fusion in a Rat. World Spine II, Chicago, Illinois, August 2003.
213. Bernbeck, J., Kanim, L.E.A., Bae, H., Nagakawa, S., **Delamarter, R.B.**, Dawson, E.: Histologic Comparison of Far, Adcon-L, Preclude, Absorbable Collagen Sponge in Postlaminectomy Scar Tissue Inhibition. World Spine II, Chicago, Illinois, August 2003.
214. Bernbeck, J., Aldrich, E., Sra, P., Nagakawa, S., Kanim, L.E.A., **Delamarter, R.B.**: Locomotor Recovery Following Treatment With Neurotrophic Factors in a Rat Model of Spinal Cord Injury. World Spine II, Chicago, Illinois, August 2003.
215. Bae, H., Kanim, L.E.A., Kropf, M., **Delamarter, R.B.**: Prodisc Total Disc Replacement vs. Circumferential Fusion: Comparative Lumbar Motion at the Treated and Adjacent Levels. World Spine II, Chicago, Illinois, August 2003.

216. Pradhan, B.B., Fribourg, D., **Delamarter, R.B.**, Bae, H.: Subsequent Adjacent Level Fractures After Kyphoplasty for Osteoporotic Compression Fractures. Western Orthopaedic Association Annual Meeting, San Antonio, Texas, October 2003.
217. **Delamarter, R.B.**: Symposium: Degenerative Spndylolisthesis/Scoliosis... Instrumentation Necessary. North American Spine Society, San Diego, California, October 2003.
218. **Delamarter, R.B.**: Cervical Artificial Disc Replacement. North American Spine Society, San Diego, California, October 2003.
219. **Delamarter, R.B.**: Symposium: Controversies in Lumbar Spine Surgery. North American Spine Society, San Diego, California, October 2003.
220. **Delamarter, R.B.**: Total Disc Replacement. North American Spine Society Instructional Course Lecture, San Diego, California, October 21, 2003.
221. Kanim, L.E.A., Bae, H., **Delamarter, R.B.**, Dawson, E.: Inter and Intravariability of BMPs in Commercially Available Demineralized Bone Matrices. North American Spine Society, San Diego, California, October 2003.
222. Tang, C., Fribourg, D., Sra, P., Bae, H., **Delamarter, R.B.**: Spine Range of Motion After Disc Replacement: Preliminary Report. North American Spine Society, San Diego, California, October 2003.
223. Brau, S., **Delamarter, R.B.**, Schiffman, M., Williams, L., Watkins, R.: Vascular Injury Anterior Lumbar Surgery. North American Spine Society, San Diego, California, October 2003.
224. Fribourg, D., Tang, C., **Delamarter, R.B.**, Bae, H.: Incidence of Subsequent Vertebral Fracture After Kyphoplasty. North American Spine Society, San Diego, October California, 2003.
225. **Delamarter, R.B.**, Kanim, L.E.A., Bae, H., Hannani, K., Zhao, L., Gilbert, T., Jensen, L., Springer, S., Dawson, J., Griffith, S.: Successful Fusion with Posterior Fixation Systems of Differing Biomechanical Rigidity Demonstrated in an In Vivo Animal Model. North American Spine Society, San Diego, California, October 2003.
226. Riew KD, McCulloch JA, **Delamarter, R.B.**, An HS, Ahn NU.: Microsurgery for degenerative conditions of the cervical spine. Instr Course Lect. 2003;52:497-508. Review.
227. Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., Sra, P., **Delamarter, R.B.**: Effectiveness of Treatment with Bone Morphogenetic Proteins (BMP) in Recovery of Function following Experimental Spinal Cord Injury in Rats. Cervical Spine Research Society, Scottsdale, Arizona, December 2003.

228. **Delamarter, R.B.:** Artificial Disc – Prodisc Results. Third Annual Symposium on Current Concepts in Spinal Disorders, La Quinta, California, February 2004.
229. **Delamarter, R.B.:** Guest Lecturer. Artificial Disc Replacement – Lumbar and Cervical. AO Advanced Concepts in the Management of Spinal Disorders, Sun Valley, Idaho, February 2004.
230. **Delamarter, R.B.:** Current Status of Lumbar Disc Replacement. American Association of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves, San Diego, California, March 2004.
231. Patel, V., Welcher, J., Bae, H., **Delamarter, R.B.**, Pradhan, B.B.: Floating and Fixed Center of Rotation Intervertebral Prostheses – Biomechanical Comparison. Spine Arthroplasty Society, Vienna, Austria, May 2004.
232. Patel, V., Andrews, C., Kanim, L.E.A., Pradhan, B.B., Kropf, M., Bae, H., **Delamarter, R.B.:** Intervertebral Disc Replacement Prosthesis Position Evaluation by Computed Tomography – Relevance to Clinical Outcome. Spine Arthroplasty Society, Vienna, Austria, May 2004.
233. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H. Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? International Meeting for Advanced Spinal Techniques, Bermuda, June 2004.
234. Patel, V., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** Cervical Spine Motion after Disc Replacement. International Meeting for Advanced Spinal Techniques, Bermuda, June 2004.
235. Patel, V., Zhao, L., Wong, P., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** Controlling BMP-Stimulated Bone Growth using Fibrin Glue. International Meeting for Advanced Spinal Techniques, Bermuda, June 2004.
236. Patel, V., Andrews, C., Kanim, L.E.A., Pradhan, B.B., Kropf, M., Bae, H., **Delamarter, R.B.:** Computed Tomography Evaluation of Intervertebral Prosthesis. International Meeting for Advanced Spinal Techniques, Bermuda, June 2004.
237. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. International Society for Surgery of the Lumbar Spine, Porto, Portugal, June 2004.
238. Pradhan, B.B., Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., **Delamarter, R.B.:** Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudoarthrosis. International Society for Surgery of the Lumbar Spine, Porto, Portugal, June 2004.
239. **Delamarter, R.B.:** Guest Lecturer. Total Disc Replacement. University of California Davis Grand Rounds, Sacramento, California, September 2004.

240. **Delamarter, R.B.:** Non Fusion Technologies. Sanderson Memorial Lectureship University of California Davis, St. Josephs Medical Center, Stockton, California, September 2004.
241. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
242. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
243. Pradhan, B.B., Bae, H., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.:** Artificial Disc Replacement in the Lumbar Spine – 18 to 24 Month Follow-up. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
244. Patel, V., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** Cervical Spine Motion and Results after Disc Replacement. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
245. Patel, V., Zhao, L., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** Controlling BMP-Stimulated Bone Growth using Fibrin Glue. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
246. Patel, V., Andrews, C., Kanim, L.E.A., Pradhan, B.B., Kropf, M., Bae, H., **Delamarter, R.B.:** Computed Tomography Evaluation of Intervertebral Prosthesis. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
247. Patel, V., Zhao L., Wong, P., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** BMP Modulation using Fibrin Glue in Spinal Fusion. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.
248. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H. Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.
249. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.
250. Pradhan, B.B., Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., **Delamarter, R.B.:** Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudoarthrosis. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.

251. Pradhan, B.B., Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., Sra, P., **Delamarter, R.B.:** Treatment Efficacy of BMP-2 and BMP-7 in Functional Recovery after Spinal Cord Injury in Rats. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.
252. **Delamarter, R.B.:** Guest Lecturer. 1) Cervical Artificial Disc; 2) Lumbar Artificial Discs. 5<sup>th</sup> Annual Spinal Horizons Symposium, Chamberlain, South Dakota, October 8-9, 2004.
253. **Delamarter, R.B.:** Guest Lecturer. Spinal Arthroplasty. 54<sup>th</sup> Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 16-21, 2004.
254. Bae, H., Kanim, L.E.A., Sra, P., **Delamarter, R.B.:**, Kropf, M.: Prodisc Lumbar Disc Replacement vs. Fusion—Preservation of Motion and Patient Self Assessment at one to two Year Follow-up. North American Spine Society, Chicago, Illinois, October 2004.
255. Pradhan, B.B., Dawson, E., Patel, V., **Delamarter, R.B.:**, Kropf, M., Bae, H.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion using Stand-Alone Femoral Ring Allografts? North American Spine Society, Chicago, Illinois, October 2004.
256. **Delamarter, R.B.:** Guest Lecturer. Total Disc Replacement. Northwestern University Grand Rounds, Chicago, Illinois, October 29, 2004.
257. Patel, V., Zhao L., Wong, P., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** Modulation of BMP Stimulated Bone Growth using Fibrin Glue. North American Spine Society, Chicago, Illinois, October 2004.
258. Pradhan, B.B., Bae, H., Kanim, L.E.A., Zhao L., Wong, P., **Delamarter, R.B.:** Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudoarthrosis. North American Spine Society, Chicago, Illinois, October 2004.
259. Pradhan, B.B., Bae, H., Patel, V., Kropf, M., Zhao, L., Wong, P., **Delamarter, R.B.:** Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up. Cervical Spine Research Society Annual Meeting, Boston, Massachusetts, December 2004.
260. Patel, V., Zhou, L., Wong, P., Pradhan, B.B., Bae, H., **Delamarter, R.B.:** BMP Modulation using Fibrin Glue in Spinal Fusion. Cervical Spine Research Society Annual Meeting, Boston, Massachusetts, December 2004.
261. Bae, H., Zhao L., Kanim, L.E.A., Wong, P., Pradhan, B.B., **Delamarter, R.B.:** Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudoarthrosis. Cervical Spine Research Society Annual Meeting, Boston, Massachusetts, December 2004.
262. **Delamarter, R.B.:** Guest Lecturer. Prodisc for Cervical Spine. 4<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders, Henderson, Nevada, February 11-12, 2005.

263. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
264. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H.: Kyphoplasty Reduction of Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
265. Pradhan, B.B., Bae, H., Patel, V., Kropf, M., Zhao, L., Wong, P., **Delamarter, R.B.**: Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
266. Pradhan, B.B., Bae, H., Patel, V., Kropf, M., Zhao, L., Wong, P., **Delamarter, R.B.**: Characterization of Anterior Cervical Discectomy and Fusion Using Fibular Allograft and rhBMP-2. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
267. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, February 2005.
268. Pradhan, B.B., **Delamarter, R.B.**, Patel, V., Kropf, M., Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, February 2005.
269. Pradhan, B.B., Rudin, B., Bae, H., Kanim, L.E.A., Kamrava, E., Patel, V., **Delamarter, R.B.**: Total Disc Arthroplasty as a Salvage Treatment for Failed Back Syndrome. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, February 2005.
270. **Delamarter, R.B.**: Artificial Cervical Disc Technology. American Association of Neurological Surgeons, New Orleans, Louisiana, April 16, 2005.
271. **Delamarter, R.B.**: Multi-level Lumbar Artificial Disc Replacement: The U.S. Experience. Swiss Spine Institute's 9<sup>th</sup> International Symposium, New York, New York, May 3, 2005.
272. Pradhan, B.B., Bae, H., Patel, V., Kropf, M., Zhao, L., **Delamarter, R.B.**: Graft Resorption with rhBMP-2: Lessons from Anterior Cervical Discectomy and Fusion. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
273. **Delamarter, R.B.**, Bae, H., Kamrava, E., Lam, L., Kanim, L.E.A., Pradhan, B.B.: Cervical Disc Replacement – Longer-Term Range of Motion and Clinical Outcomes with



- the Prodisc-C Prosthesis. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
274. Bae, H., Zhao, L., Kanim, L.E.A., Wong, P., Pradhan, B.B., **Delamarter, R.B.:** Recovery of Function Following Experimental Lumbar Spinal Cord Injury in Rats: Effectiveness of Treatment with rhBMP-2, rhBMP-7, and rhBDNF. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
275. Bae, H., Kanim, L.E.A., Zhao, L., Wong, P., Pradhan, B.B., **Delamarter, R.B.:** Cellular Environments Can Alter Performance of rhBMP-2 and Induce Pseudarthrosis. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
276. **Delamarter, R.B.,** Lam, L., Pradhan, B.B., Bae, H.: Comparison of Outcomes in Workers Compensation Versus Non-Compensation Patients After Lumbar Artificial Disc Replacement Surgery. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
277. Huffman, J., Bae, H., Pradhan, B.B., Lam, L., Rudin, B., **Delamarter, R.B.:** Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
278. Pradhan, B.B., Rudin, B., Bae, H., Kanim, L.E.A., Kamrava, E., **Delamarter, R.B.:** Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
279. Pradhan, B.B., Bae, H., Kropf, M., Patel, V., Zhao, L., **Delamarter, R.B.:** Leakage of BMP from Absorbable Collagen Sponges During ACDF: Quantification and CT Analysis for Ectopic Bone Formation in Canal. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
280. Pradhan, B.B., Bae, H., Patel, V.V., **Delamarter, R.B.:** Graft Resorption with Recombinant Human Bone Morphogenetic Protein-2: Lessons from Anterior Lumbar Interbody Fusion Using Stand-Alone Femoral Ring Allografts. World Spine III, Rio De Janeiro, Brazil, August 2005.
281. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.:** Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A radiograph Characterization of the Effect of rhBMP-2 on structural allografts. World Spine III, Rio De Janeiro, Brazil, August 2005.
282. Pradham, B.B., Bae, H., Kanim, L.E.A., MS, Lam, L., MPH, Kamrava, E., **Delamarter, R.B.:** Restoration and Maintenance of Coronal and Sagittal Lumbar Spine Alignment with a Semi-constrained Multi-level Lumbar Total Disc Arthroplasty (Pro-Disc.II). World Spine III, Rio De Janeiro, Brazil, August 2005.
283. Pradhan, B.B., Bae, H., Kropf, M.A., Patel V.V., Zhao, L., Wong, P., B.S., **Delamarter, R.B.:** Leakage of rhBMP-2 from Absorbable Collagen Sponges During ACDF:

- Quantification and Follow-up with Radiographic Analysis. World Spine III, Rio De Janeiro, Brazil, August 2005.
284. Huffman, J., Bae, H., Pradhan, B.B., Kanim, L.E.A., MS, Lam, L., MPH, Rudin, B., **Delamarter, R.B.**: Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System. World Spine III, Rio De Janeiro, Brazil, August 2005.
285. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, Lam, L., MPH, Kropf, M.A., Kamrava, E., MS, **Delamarter, R.B.**: Disc Height Restoration and its Effect on Range of Motion and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (Pro-Disc II). World Spine III, Rio De Janeiro, Brazil, August 2005.
286. Pradhan, B.B., Bae, H., Patel, V.V., Kanim, L.E.A., MA, Kropf, M.A., **Delamarter, R.B.**: ProDisc-C Artificial Total Cervical Disc Replacement: Twelve to Eighteen Month Results from the United States Clinical Trial. World Spine III, Rio De Janeiro, Brazil, August 2005.
287. Bae, H., Lam, L., MPH, Wong, P. BS, Pradhan, B.B, Kropf, M.A., **Delamarter, R.B.**: Comparison of Outcomes in Workers Compensation Versus Non-compensation Patients After Artificial Disc Replacement Surgery. World Spine III, Rio De Janeiro, Brazil, August 2005.
288. Patel, V.V., Hsu, S., Bae, H., Pradhan, B.B., Hedman, T., PhD, **Delamarter, R.B.**: Biochemical Evaluation of Floating and Fixed Center of Rotation Total Disc Replacements. World Spine III, Rio De Janeiro, Brazil, August 2005
289. Bae, H., Zhao, L., Kanim, L.E.A., MS, Wong, P., BS, Sra, P., MPH, Pradhan, B.B., **Delamarter, R.B.**: Recovery of Function Following Experimental Lumbar Spinal Cord Injury in Rats: Effectiveness of Treatment with rhBMP-2, rhBMP-7, and rhBDNF. World Spine III, Rio De Janeiro, Brazil, August 2005.
290. Patel, V.V., Xao, L., Wong, P., BS, Pradhan, B.B., Bae, H., **Delamarter, R.B.**: Controlling Bone Morphogenetic Protein Stimulated Bone Growth with Fibrin Glue( a Biologic Sealant). World Spine III, Rio De Janeiro, Brazil, August 2005.
291. Patel, V.V., Andrews, C., Bae, H., Kanim, L.E.A., MS, Pradhan, B.B., **Delamarter, R.B.**: Computed Tomography Evaluation of Positioning of Artificial Discs, Along with its Radiographic and Clinical Relevance. World Spine III, Rio De Janeiro, Brazil, August 2005.
292. Pradhan, B.B., Rudin, B., Bae, H., Kanim, L.E.A., MS, Kamrava, E., MS, Patel, V.V., **Delamarter, R.B.**: Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome. World Spine III, Rio De Janeiro, Brazil, August 2005.
293. Bae, H., Pradhan, B.B., Kanim, L.E.A., MS, Lam, L., MPH, Kamrava, E., MS, **Delamarter, R.B.**: Lumbar Total Disc Replacement: A 2 to 3 Year Report from The

- United States Clinical Trial for Pro-Disc II Prosthesis. World Spine III, Rio De Janeiro, Brazil, August 2005.
294. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A.,MS, **Delamarter, R.B.**: Disc Height Restoration and its Effect on Range of Motion and Clinical Outcome after Semi-constrained Lumbar Total Disc Replacement (Pro-Disc-II). North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  295. Pradhan, B.B., Bae, H., Kanim, L.E.A.,MS, Kamrava, E.,MS, **Delamarter, R.B.**: Restoration and Maintenance of Coronal and Sagittal Lumbar Spine Alignment with a Semi-constrained Multi-level Lumbar Total Disc Arthroplasty (Pro-Disc-II). North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  296. **Delamarter, R.B.**, Bae, H., Kanim, L.E.A.,MS, Lam, L.,MPH, Pradhan, B.B.: Cervical Disc Replacement-Intermediate-Term Follow-up (1 to 2 years) of range of Motion and Clinical Outcomes with the Pro-Disc-C Prosthesis. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  297. **Delamarter, R.B.**, Rudin, B., Bae, H., Pradhan, B.B.: Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  298. **Delamarter R.B.**, Zigler, J., Ohnmeiss, D., PhD, Kanim, L.E.A., Pradhan, B.B.: Lumbar Total Disc Replacement: A 2 to 3 Year Report from 2 Centers in The United States Clinical Trail for the Pro-Disc-II Prosthesis. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  299. Pradhan, B.B., Bae, H., Kropf, M.A., Patel, V.V., **Delamarter, R.B.**: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  300. **Delamarter, R.B.**, Lam, L.,MPH, Bae, H., Pradhan, B.B.: Comparison of Outcomes After Lumbar Artificial Disc Replacement Surgery in Worker's Compensation Versus Non-Compensation Patients. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  301. Pradhan, B.B, Bae, H., Kropf, M.A., Patel, V.V., Zhao, L., Wong, P.,BS, **Delamarter, R.B.**: Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantifications and follow-up of clinical and Radiographic Consequences. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
  302. Patel, V.V, Pradhan, B.B., Andrews, C., Bae, H., Kanim, L.E.A., **Delamarter, R.B.**: Assessment of the Accuracy of In-Vivo Placement of Artificial Discs in the Lumbar Intervertebral Space using Computed Tomography, Along with its Radiographic and Clinical Consequences. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.

303. Pradhan, B.B., Bae, H., Kropf, M.A., Patel, V.V., Zhao, L., Wong, P.,BS, **Delamarter, R.B.**: Leakage of rhBMP-2 from Absorbable Collagen Sponges During Use in Anterior Cervical Discectomy and Fusion: Quantification and Follow-up of Clinical And Radiographic Consequences. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
304. Pradhan, B.B., Huffman, J., Bae, H., Lam, L.,MPH, Rudin, B., **Delamarter, R.B.**: Motion-Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with The Dynesys System. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
305. Pradhan, B.B., Bae, H., Kanim, L.E.A, MS, Lam, L., MPH, Kamrava, E., **Delamarter, R.B.**: Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (Pro-Disc-L). Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
306. **Delamarter, R.B.**, Zigler, J.E., Ohnmeiss, D.D, Kanim, L.E.A, Pradhan, B.B.: Lumbar Total Disc Replacement: A 2 to 3 Year Report from 2 Centers in The United States Clinical Trial for the Pro-Disc-II Prosthesis. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
307. Pradhan, B.B., Bae, H., Kropf, M.A., Patel, V.V., **Delamarter, R.B.**: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
308. Pradhan, B.B., Bae. H., Lam, L.MPH, Kropf, M.A., Kamrava, E., **Delamarter, R.B.**: Disc Height Restoration and its Effect on Range of Motion and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (ProDisc-L). Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
309. Bae, H., **Delamarter, R.B.**, Zhao, L, Wong, P,BS, Kanim, L.E.A., MS, Pradhan, B.B.: Analysis of rhBmp-2 Retention in Absorbable Collagen Sponges and Diffusion Patterns in a Simulated in Vivo Environment. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec. 2005.
310. Pradhan, B.B., Bae, H., Zhao, L., Wong, P., Wang, J.C., **Delamarter, R.B.**: Bone Marrow Enhances the Performance of rhBMP-2. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec. 2005.
311. Bae, H., Zhao, L., Pradhan, B.B., Wong, P.,BS, Kanim, L.E.A.,MA, Wang, J.C., **Delamarter, R.B.**: Worst Case Scenario for BMP-2 Mediated Gene Therapy in Posterolateral Fusion. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec. 2005.
312. **Delamarter, R.B.**, Bae, H., Kropf, M.A., Kanim, L.E.A.,MS, Pradhan, B.B.: Cervical Disc Replacement: Longer-Term (2 year) Range of Motion and Clinical Outcomes

Follow-up with the Pro-Disc-C Prosthesis. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec. 2005.

313. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.**: 2-3 Year Lumbar Disc Replacement Results (Pro-Disc-L) from The U.S. IDE Clinical Trials. American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
314. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., MA, **Delamarter, R.B.**: The Effect of Workman's Compensation Status on Outcomes after Lumbar Total Disc Replacement. American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
315. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., MA, **Delamarter, R.B.**: Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-level Disc Replacement Versus Fusion in the Cervical Spine. American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
316. **Delamarter, R.B.**, Bae, H., Kanim, L.E.A., MS, Pradhan, B.B.: Cervical Disc Replacement –Longer Term (2-year) Range of motion and Clinical Outcomes Follow-up with the Pro-Disc-C Prosthesis. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
317. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., MA, **Delamarter, R.B.**: Comparison of Sagittal and Coronal Alignment of the Cervical Spine After One to Three-level artificial Disc Replacements (Pro-Disc-C) Versus Fusion. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
318. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, Lam, L., Kamrava, E, **Delamarter, R.B.**: Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-constrained Multi-level Lumbar Disc Arthroplasty (Pro-Disc-L). Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
319. **Delamarter, R.B.**, Lam, L., Bae, H., Pradhan, B.B.: Comparison of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-compensation Patients. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
320. Pradhan, B.B., Huffman, J., Bae, H., Lam, L., MPH, Rudin, B., **Delamarter, R.B.**: Motion Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early results

from the U.S. Clinical Trail with The Dynesys System. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.

321. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., MA, **Delamarter, R.B.:** Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-level Disc Replacement Versus Fusion in the Cervical Spine. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
322. Pradhan, B.B., Rudin, B., Bae, H., Kanim, L.E.A., MS, Kamrava, E.,MS, Patel, V.V., **Delamarter, R.B.:** Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
323. **Delamarter, R.B.,** Bae, H., Kropf, M.A., Kanim, L.E.A.,MS, Pradhan, B.B.: Cervical Disc Replacement: Longer-term (2-year) Range of Motion and Clinical Outcomes Follow-up with the Pro-Disc-C Prosthesis. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
324. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A.,MA, **Delamarter, R.B.:** Comparison of Sagittal and Coronal Alignment of the Cervical Spine After One to Three-level Artificial Disc Replacement (Proc-Disc-C) Versus Fusion. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
325. Pradhan, B.B., Bae, H., Kanim, L.E.A.,MS, Lam, L.,MPH, Kamrava, E., **Delamarter, R.B.:** Restoration and Maintenance of Control and Sagittal Lumbar Spine Alignment with a Semi-constrained Multi-Level Total Disc Arthroplasty (Pro-Disc-L). Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
326. Pradhan, B.B., Bae, H., Kropf, M.A., Patel, V.V., **Delamarter, R.B.:** Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
327. **Delamarter, R.B.,** Lam. L.,MPH, Bae, H., Pradhan, B.B.: Comparison of Outcomes After Lumbar Artificial Disc Replacement Surgery in Worker's Compensation Versus Non-compensation Patients. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
328. Pradhan, B.B., Spayde, E., Bae, H., Kropf, M.A., Shen, M., **Delamarter, R.B.:**Return to Work Outcomes after Lumbar Artificial Disc Replacement. Spine Arthroplasty Society, Annual Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
329. Pradhan, B.B., Bae, H., Kropf, M.A, Kanim, L.E.A.,MA, **Delamarter, R.B.:** Is the Motion "Normal" after Cervical Disc Replacement? Analysis of Motion at Each Treated and Adjacent Level after Single and Multi-level Disc Replacement Versus Fusion. Spine Arthroplasty Society, Annual Symposium on Motion Preservation Technology, Montreal, CN, May 2006.

330. Bae, H., Zhao, L., Wong, P., Pradhan, B.B., Kanim, L.E.A., **Delamarter, R.B.**: Bone Morphogenetic Protein-2 Retention in a Vertebral Body Fracture Stabilization Device (OptiMesh). International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
331. Spayde, E., Pradhan, B.B., Bae, H., Kropf, M.A., Shen, M., **Delamarter, R.B.**: Charite-III Versus Pro-Disc-L: Early Head-to Head Results at One Institute. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
332. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Charite-III Versus Pro-Disc-L: Comparison of Intraoperative Intervertebral Distraction between a Non-constrained Versus a Semi-constrained Lumbar Total Disc Replacement. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
333. Pradhan, B.B., Bae, H., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.**: Is the Motion “Normal” After Lumbar Disc Replacement? Analysis of Motion at each Treated and Adjacent Levels after Single and Multi-level Disc Replacement Versus Fusion. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
334. Pradhan, B.B., Bae, H., Kanim, L.A.E., Kropf, M.A., **Delamarter, R.B.**: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement-A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
335. Pradhan, B.B., Bae, H., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.**: Total Disc Replacement Versus Fusion as a Salvage Treatment for failed Back Surgery Syndrome. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
336. Pradhan, B.B., Spayde, E., Bae, H., Kropf, M.A, Shen, M., **Delamarter, R.B.**: Return to Work Outcomes after Lumbar Artificial Disc Replacement. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
337. Bae, H., Zhao, L., Wong, P., Pradhan, B.B., Wang, J.C., **Delamarter, R.B.**: Gene Therapy for Posterolateral Fusion: Worst Case Scenario. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
338. Pradhan, B.B., Bae, H., Kanim, L., **Delamarter, R.B.**: Dynamic Posterior Stabilization of the Lumbar Spine: Results from the US Clinical Trial with the Dynesys System. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
339. Bae, H., **Delamarter, R.B.**, Zhao, L., Wong, P.,BS, Kanim, L.E.A., MS, Pradhan, B.B.: Analysis of rhBMP-2 Retention in Absorbable Collagen Sponges and Diffusion Patterns in a Simulated in Vivo Environment. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
340. Spayde, E., Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Charite III Versus Pro-Disc-L Early Head to Head Results in a Single Institute. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.

341. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, Kropf, M.A., **Delamarter, R.B.**: Is the Motion “Normal” after Multi-level Lumbar Disc Replacement? Analysis of Motion at Each Treated and Adjacent Level after 1 to 3 Level Disc Replacement Versus Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
342. Pradhan, B.B., Spayde, E., Bae, H., Shah, T., Hussein, T., **Delamarter, R.B.**: Return to Work Outcomes after Lumbar Artificial Disc Replacement-Using a Standardized Evaluation Questionnaire. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
343. Bae, H., Pradhan, B.B., Kropf, M.A., Kanim, L.E.A.,MS, **Delamarter, R.B.**: Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes Follow-up with the Pro-Disc-C Prosthesis. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
344. Bae, H., Zhao, L., Pradhan, B.B., Wong, P.,MPH, Kanim, L.E.A., MS, Wang, J.C., **Delamarter, R.B.**: Bone Marrow Enhances the Performance of rhBMP-2. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
345. Shen, M., Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Single Level Artificial Disc Replacement at L4-5 Versus L5-S1: Is There any Difference in Technique, Morbidity or Result? International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
346. Bae, H., Zhao, L., Wong, P.,MPH, Wang, J.C., Kanim, L.E.A., MS, Pradhan, B.B., **Delamarter, R.B.**: Worst Case Scenario for Cell-Mediated BMP-2 Gene Therapy in Posterolateral Fusion. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
347. Bae, H., Pradhan, B.B., Kropf, M.A., Kanim, L.E.A., MS, **Delamarter, R.B.**: Is the Motion “Normal” after Multi-level Cervical Disc Replacement? Analysis of Motion at each Treated and Adjacent Levels 1 to 3-Level Disc Replacement Versus Fusion. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
348. Pradhan, B.B., Bae, H., Kropf, M.A. Kanim, L.E.A.,MS, **Delamarter, R.B.**: Is the Motion “Normal” after Multi-level Lumbar Disc Replacement?- Analysis of Motion at each Treated and adjacent Levels after 1 to 3-Level Disc Replacement Versus Fusion. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
349. Bae, H., Zhao, L., Wong, P., MPH, Kanim, L.E.A., MS, Wang, J.C., Pradhan, B.B., **Delamarter, R.B.**: The effect of Bmp’s on the Expression of GAP-43 and Caspase-3 during Spinal Cord Injury. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
350. Shen, M.S., Bae, H., Pradhan, B.B., Kropf, M.A., **Delamarter, R.B.**: Clinical Experience Using a Novel Bio-Ceramic for Treating Vertebral Compression Fractures, with 1 to 2 Year Follow-up. American Spine Society, Annual Meeting, Seattle, WA, September 2006.



351. **Delamarter, R.B.**, Bae, H., Kropf, M.A., Kanim, L.E.A., Pradhan, B.B.: Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes with the Pro-Disc-C Prosthesis. American Spine Society, Annual Meeting, Seattle, WA, September 2006.
352. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Pro-Disc-L Lumbar Disc Replacement-Results from the US FDA Clinical Trial. Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006.
353. Bae, H., Zhao, L., Pradhan, B.B., Wong, P., BS, Kanim, L.E.A., MS, **Delamarter, R.B.**: Characteristics of BMP adsorption by Absorbable Collagen Sponge in Vivo and in Vitro. Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006.
354. Bae, H., Zhao, L., Wong, P., BS, Kanim, L.E.A., MS, Pradhan, B.B., **Delamarter, R.B.**: Worst Case Scenario for Cell-Mediated BMP-2 Gene Therapy in Posterolateral Fusion. Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006.
355. **Delamarter, R.B.**, Bae, H., Kropf, M., Kanim L.E.A, Pradhan, B.B.: Cervical Disc Replacement: 2 to 3 Year Range of Motion and Clinical Outcome with the ProDisc-C Prosthesis. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
356. Bae, H., Pradhan, B.B., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.**: Does bone marrow enhance rhBMP-2 effectiveness for spinal fusion? Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
357. Pradhan, B.B., Bae, H., **Delamarter, R.B.** Clinical results after 1,2, and 3-level ProDisc-C artificial disc replacements. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006
358. Spayde, E., Bae, H., Pradhan, B.B, Schiffman, M., **Delamarter, R.B.** ALIF with BAK cages and BMP – radiographic fusion rates and reliability of fusion grading. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006
359. Bae, H., Zhao, L., Pradhan, B.B, Wong, P., Kanim , L.E.A., MA; Wang, J. C., **Delamarter, R.B.** Worst Case Scenario for BMP-2 Mediated Gene Therapy In Posterolateral Fusion. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006
360. Pradhan, B.B., Kropf, M.A., Bae, H., Kanim, L.E.A., MA, **Delamarter, R.B.** Is the motion “normal” after lumbar disc replacement? Analysis of motion at each treated and adjacent levels after single and multi-level disc replacement versus fusion. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006
361. Zigler, J., **Delamarter, R.**, Spivak, J., Linovitz, R., Danielson, G., Haider, T., Cammisa, F., Zucherman, J., Balderston, R., Kitchel, S., Foley, K., Watkins, R., Bradford, D., Yue, J., Yuan, H., Herkowitz, H., Geiger, D. IDE Clinical Results of the ProDisc-L: Comparison of Training Cases to Randomized Trial. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.

362. Bae, H., Prahan, B.B., Kamrava, E., MS, Kanim, L.E.A, MS, **Delamarter, R.B.** Cervical Disc Replacement – 2-3 Year Range of Motion and Clinical Outcomes Follow- Up with the ProDisc-C Prosthesis. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
363. **Delamarter, R.B.**, Pradhan, B.B., Kropf, M.A., Kanim, L.E.A., Ms, Bae, H.: Podium- Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes and Range of Motion Follow-up with the (Pro-Disc-C) Artificial Disc. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec. 2006.
364. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A, MS, **Delamarter, R.B.:** Podium- 1 Versus 2 Versus 3-Level Cervical Artificial Disc Replacement s: A Prospective Report of Clinical Outcomes with the (Pro-Disc-C) Device. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec. 2006.
365. Pradhan, B.B., Bae, H., Zhao, L., Wong, P., BS, Kanim, L.E.A., MS, Wang, J.C., **Delamarter, R.B.:** Podium- The Effect of BMPs on the Expression of GAP-43 and Caaspase-3 During Spinal Cord Injury. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec. 2006.
366. **Delamarter, R.B.**, Pradhan, B.B., Bae, H., Kropf, M.A.: Overall Results of the Prospective, Randomized Multi-center IDE Trial of (Pro-Disc-L) vs Lumbar Fusion. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007.
367. **Delamarter, R.B.**, Bae, H.W., Kropf, M.A., Kanim, L.E.A.,MS, Pradhan, B.B.: 3 to 4 Year Prospective Results of 1,2 and 3 Level Cervical Arthroplasty with the ProDisc-C. The Spine Arthroplasty Society 7<sup>th</sup> Annual Meeting, Berlin, Germany, May 2007.
368. **Delamarter, R.B.**, Kropf, M.A., Bae, H.W., Kanim, L.E.A.,MS, Pradhan, B.B.: Up to 5 Year Prospective Results of 1,2 and 3 Level Lumbar Arthroplasty with the ProDisc-L. The Spine Arthroplasty Society 7<sup>th</sup> Annual Meeting, Berlin, Germany, May 2007.
369. Bae, H.W, Kropf, M.A., **Delamarter, R.B.**, Pradhan, B.B.: L4-5 Vs.LD-S1: Is one more suited than the other for lumbar Disc Arthroplasty or Fusion Controlled Comparision. The Spine Arthroplasty Society 7<sup>th</sup> Annual Meeting, Berlin, Germany, May 2007.
370. Bae, H.W., Zhao, L., Kanim, L.E.A., **Delamarter, R.B.**, Pradhan, B.B.: Mass Effect Versus Inhibition of rhBMP-2 by Environment (Inorganic Beads vs. Fibroblas Pseudarthrosis or Failed Devices. Spine Arthroplasty Society 7<sup>th</sup> Annual Meeting, Berlin, Germany, May 2007.
371. Pradhan, B.B., Kropf, M.A., Bae, H.W., Kanim, L.E.A., **Delamarter, R.B.:** Up to 5-Year Prospective Results of 1,2 and 3-Level Lumbar Arthroplasty with the ProDisc –L Device at a Single Institute. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
372. Bae, H.W., Zhao, L., Pradhan, B.B., Wong, P., Kroft, M.A., **Delamarter, R.B.:** Variability Due to Lot of a Commercially Available Demineralized Bone Matrix for

Spinal Fusion. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.

373. Bae, H.W., Zhao, L., Pradhan, B.B., Wong, P., Kanim, L.E.A., Wang, J., **Delamarter, R.B.**: The Effect of BMP's on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
374. Pradhan, B.B., Bae, H.W., Kropf, M.A., **Delamarter, R.B.**: L4-5 Versus L5-S1: Is One More Suited than the Other for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
375. Pradhan, B.B., Bae, H.W., Shen, M.S., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.**: L4-5 Versus L5-S1: Is One Level More Suited Than the Other for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison. International Meeting For Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
376. Bae, H.W., Pradhan, B.B., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.**: Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes and Range of Motion Follow-up with the ProDisc-C Prosthesis. International Meeting For Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
377. Pradhan, B.B., Bae, H.W., Shen, M.S., Kropf, M.A., **Delamarter, R.B.**: 3 and 4 Level Anterior Cervical Fusion with rhBMP-2, Allograft, and Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation, and Complications. International Meeting For Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
378. Pradhan BB, Kropf MA, Bae HW, Kanim LEA, **Delamarter RB**: Up to 5-year prospective results of 1, 2, and 3-level lumbar arthroplasty with the Prodisc-L device at a single institute. SRS 39<sup>th</sup> Annual Meeting, Buenos Aires, Argentina 2007.
379. Bae H, Pradhan BB, Zhao L, Kanim LE, **Delamarter RB**: The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury 42nd Annual Meeting, Edinburgh, Scotland, September 5-8, 2007.
380. Murrey, D., Janssen, T., **Delamarter, R.B.**, Goldstein, J., Spivak, J., Zigler, J., Tay, B.K., Chapman, J., Yue, J., Gill, K., Balderston, R.A., Cammisa, F., Anderson, G., Linovitz, R.: Twenty-four Month Results from the Prospective Randomized Multi-center IDE of ProDisc-C Vs. ACDF. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.
381. **Delamarter, R.B.**, Pradhan, B.B., Kanim, L.E.A., Kropf, M.A., Bae, H.W.: Cervical Disc Replacement: Over 3-4 Year Prospective Randomized Clinical Outcomes and Range of Motion Follow-up with the ProDisc-C Prosthesis. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.

382. Bae, H.W., Zhao, L., Kanim, L.E.A., MS, Thai, L., Zhu, D., Pradhan, B.B., Wang, J., **Delamarter, R.B.**: Variability Among 10 Production Lots of a Single Demineralized Bone Matrix Product. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.
383. Janssen M.E., Goldstein, J.A., Murrey D., **Delamarter, R.B.**: Heterotopic Ossification at the Index Level After Pro-Disc-c: What is the Clinical Significance? North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.
384. Sherman, J., Maxwell, J., **Delamarter, R.B.**, Davis, R., Wingate, J., Welch, W.: Preliminary Clinical Outcomes from the US FDA IDE Study of a Dynamic Posterior Stabilization System. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.
385. **Delamarter, R.B.**: Symposium: New Technology-Cervical ADR, Moderator-Alexander Vaccaro, MD, For-Rick Delamarter, MD, Against- Todd J. Albert, MD. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, TX, October 2007.
386. Albert, T.J., **Delamarter, R.B.**, Heller, J.G., Zdeblick, T.A. Panel Discussion Moderator: K. Daniel Riew, MD: Controversies in Cervical Disc Arthroplasty: Indications and contraindications for cervical disc arthroplasty. American Academy of Orthopaedic Surgeons 75<sup>th</sup> Annual Meeting, Austin, TX, October 2007.
387. Albert T.J, **Delamarter, R.B.**, Heller, J.G., Zdeblick T.A., Moderator: Riew K.D.: Controversies in Cervical Disc Arthroplasty: Indications and contraindications for cervical disc Arthroplasty. American Academy of Orthopaedic Surgeons (AAOS) 75<sup>th</sup> Annual Meeting, San Francisco, CA, March 2008.
388. Jansen, M., Murrey, D., **Delamarter, R.B.**, Goldstein, J., Zigler, J., Tay, B., Darden, B.,: Best Overall Paper Award: Results of the Prospective, Randomized, Multi-Center Food and Drug Administration Investigational Device Exemption Study of the Pro-Disc C Total Disc Replacement vs. Anterior Discectomy and Fusion for the Treatment of 1-Level Symptomatic Cervical Disc Disease. Spine Arthroplasty Society (SAS8) 8<sup>th</sup> Annual Meeting, Miami Beach, Florida, May 2008.
389. **Delamarter, R.B.**, Zigler, J., Balderston, Spivak, J., Linovitz, R., Zucherman J., Yue, J., Haider, T., Kitchel, S., Cammisa, F., Danileson, G.O., Geiger, D., Sherman, J.E., Watkins, R., Yuan, H., Herkowitz, H.,: Results of the Prospective, Randomized, Multi-Center Food and Drug Administration Investigational Device Exemption Study of the Pro-Disc-L Total Disc Replacement vs. Circumferential Fusion for the Treatment of 2-Level Degenerative Disc Disease. Spine Arthroplasty Society (SAS8) 8<sup>th</sup> Annual Meeting, Miami Beach, Florida, May 2008.
390. **Delamarter, R.B.**, Zigler, J., Spivak, J., Linovitz, R., Danileson, G.O., Haider, T., Cammisa, F., Zucherman, R., Balderston, R., Kitchel, S., Foley, K., Watkins, R., Yue, J., Yuan H., Herkowitz, H., Geiger, D., Goldstein, J.,: 5-year Results of the Prospective Randomized, Multicenter FDA IDE ProDisc-L Trial. Spine Arthroplasty Society (SAS8) 8<sup>th</sup> Annual Meeting, Miami Beach, Florida, May 2008.

391. Bae, H., Zhao, L., Dagny, Z., Kanim, L., Thai, L., Mehta, G., Wang, J., Pradhan, B., **Delamarter, R.B.**: Variability among 10 Production Lots of a Single Demineralized Bone Matrix (DBM) Product. Spine Arthroplasty Society (SAS8), May 6-9, 2008
392. Davis, R., Sherman, J., **Delamarter, R.B.**, Maxwell, J., Welch, W., Wingate, J.: Twenty-Month Results from a Prospective Randomized IDE Study of the Dynesys Dynamic Stabilization System. Spine Arthroplasty Society (SAS8) 8th Annual Meeting, Miami Beach, Florida, May 2008.
393. Welch, W., Davis, R., Sherman, J., **Delamarter, R.B.**, Wingate, J., Cheng, B., Maxwell, J.: A Quantitative Radiographic Analysis of Posterior Dynamic Stabilization System: Dynamic Parameters and Maintenance of Segmental Disc Height and Lordosis. Spine Arthroplasty Society (SAS8) 8th Annual Meeting, Miami Beach, Florida, May 2008.
394. Davis, R., **Delamarter, R.B.**, Wingate, J., Sherman, J., Maxwell, J., Welch, W.: Twenty-Four Month Results from a Prospective, Randomized, Controlled IDE Study of the Dynesys Dynamic Stabilization System. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
395. Bae, H., Zhao, L., Kanim, L., Zhu, D., Mehta, G., Wang, J., **Delamarter, R.B.**: Concentration of BMP-2 and BMP-7 Predicts in Vivo Fusion Performance of 30 Lots Amongst Three Different Demineralized Bone Matrix Based Products (DBMS). North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
396. Tatsumi, R., Gallina, J., Kanim, L., Bae, H., Kropf, M., **Delamarter, R.B.**: Clinical and Radiologic Evaluation of Cervical Disc Replacement in Compassionate Use Patients: 2-4 Year Follow-up. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
397. **Delamarter, R.B.**, Zigler, J., Spivak, J., Linovitz, R., Danileson, G.O., Haider, T., Cammisa, F., Zucherman, R., Balderston, R., Kitchel, S., Foley, K., Watkins, R., Yue, J., Yuan H., Herkowitz, H., Geiger, D., Goldstein, J.: 5-year Results of the Prospective Randomized, Multicenter FDA IDE ProDisc-L Trial. Year Follow-up. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
398. Goldstein, J., **Delamarter, R.B.**, Zigler, Z., Balderston, R.: 2-Level ProDisc-L IDE Clinical Trial Vs. 1-Level ProDisc-L IDE Clinical Trial. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
399. **Delamarter R.B.**, Zigler, J., Murrey, D., Janssen, M: Evidence of Adjacent Level Changes after ProDisc-C Compared to ACDF. . North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
400. Bae, H., Kanim, L., Zhao, L., **Delamarter, R.B.**: Human Fetal Chondrocyte Transplants for Damages Intervertebral Disc. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.

401. **Delamarter, R.B.**, Zigler, J., Balderston, Spivak, J., Linovitz, R., Zucherman J., Yue, J., Haider, T., Kitchel, S., Cammisa, F., Danileson, G.O., Kropf, M., Goldstein, M: Results of the Prospective, Randomized, Multi-Center FDA IDE Study of the ProDisc-L Total Disc Replacement vs. Circumferential Fusion for the Treatment of 2-Level Degenerative Disc Disease. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
402. **Delamarter, R.B.**, Murrey, D., Janssen, M., Goldstein J., Zigler, J., Tay, B., Darden, B: Results from the Prospective, Randomized Multi-Center IDE Trial of ProDisc-C Vs. ACDF with 4 year Follow-up and Continued Access Patients. Cervical Spine Research Society (CSRS) 36<sup>th</sup> Annual Meeting, Austin, TX, December 2008.
403. **Delamarter, R.B.**: Podium Presentation: 5-Year Results: Prospective, Randomized, Multicenter FDA IDE ProDisc-L Vs. Fusion. American Academy of Orthopaedic Surgeons (AAOS) 76<sup>th</sup> Annual Meeting, Las Vegas, Nevada, February 2009.
404. **Delamarter, R.B.**: Symposium: Case Debate: Lumbar Degenerative Scoliosis: Moderator: Stephen Hochschuler, MD: Open Decompression and Fusion-Rick Delamarter, MD. The Spine Arthroplasty Society (SAS) 9<sup>th</sup> Annual Meeting, London, England, April 2009.
405. **Delamarter, R.B.**, Murrey, D, Janssen, J., Goldstein, J., Zigler, J., Tay, B., Darden B.: Results from the Prospective, Randomized Multi-Center IDE Trail of ProDisc-C Vs. ACDF with 4-year follow up and continued Access Patients. The Spine Arthroplasty Society (SAS) 9<sup>th</sup> Annual Meeting, London, England, April 2009.
406. Bae, H., **Delamarter, R.B.**, Kanim, L., Kropf, M.: Radiologic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with minimum 2 year follow up, USA FDA IDE Study. The Spine Arthroplasty Society (SAS) 9<sup>th</sup> Annual Meeting, London, England, April 2009.
407. Rasouli, A, **Delamarter, R.B.**, Ashraf, N., Strenge, B., Kanim, L., Bae, H.W., Kropf, M.: Multiple Level Lumbar Artificial Disk Replacement Adjacent to Concurrent Anterior Lumbar Interbody Fusion: A Clinical And Radiographic Analysis of Sagittal Motion Preservation at 2-6 years. The Spine Arthroplasty Society (SAS) 9<sup>th</sup> Annual Meeting, London, England, April 2009.
408. Rasouli, A., **Delamarter, R.B.**, Ashraf, N., Kanim, L., Strenge, B., Bae, H.W., Kropf, M.: Multiple Level Cervical ADR: A Clinical and Radiographic Analysis of Sagittal Motion Preservation at 2-5 years. The Spine Arthroplasty Society (SAS) 9<sup>th</sup> Annual Meeting, London, England, April 2009.
409. **Delamarter, R.B.**, Kanim, L., Bae, H., Kropf, M: Radiographic Range of Motion is related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with a minimum 2 Year Follow up, USA FDA IDE Study. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.

410. Davis, T., Bae, H., Rasouli, A., **Delamarter, R.B.**: The lumbosacral Plexus and the Transpoas Approach to the Intervetebral Disc Space: Is There a Safe Zone? A Cadevaric Study. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
411. Davis, T., Bae, H., Rasouli, A., **Delamarter, R.B.**: A Novel Approach to Predict the Femoral Nerve Course Prior to Transport Spinal Access at L4-5 Intervertebral Disc Space. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
412. **Delamarter, R.B.**: Symposium- Spine and Sports: Implications for the Senior Athlete: Postsurgical Restrictions in Golf and Tennis Following Lumbar Surgery. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
413. Murrey, D., Janssen, M., **Delamarter, R.B.**, Goldstein, J., Ziegler, J., Tay, B., Darden, B.: Five Year Results of the Prospective Randomized, Multicenter FDA Investigational Device Exemption (IDE) ProDisc-C TDR Clinical Trial. . North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
414. Rasouli, A., **Delamarter, R.B.**, Kanim, L., Ashraf, N., Streng, B.: Multiple Level Lumbar ADR Adjacent to Concurrent Anterior lumbar Interbody Fusion: A Clinical and Radiographic Analysis of Sagittal Motion Preservation at Two-Five Years. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
415. Rasouli, A., **Delamarter, R.B.**, Kanim, L., Ashraf, N., Brandon, S.: The Hybrid ADR: Long-term Analysis of Sagittal Motion and Clinical Outcome after Concurrent ADR + ALIF (minimum Two-Year Follow-up). North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
416. Davis, R., **Delamarter, R.B.**, Maxwell, J., Welch, W., Wingate, J., Sherman, J.: Preliminary Three-Year Results from a Prospective, Randomized, Controlled IDE Study of the Dynesys Dynamic Stabilization System. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
417. Bae, H., Kanim, L., Kropf, M., **Delamarter, R.B.**: Radiographic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with minimum Two-Year Follow-up, USA, FDA IDE Study. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
418. Murrey, D., Janssen, M., **Delamarter R.B.**, Goldstein, J., Ziegler, J., Tay, B., Darden, B.: 5-Year Results of the Prospective, Randomized, Multicenter FDA Investigational Device Exemption (IDE) Pro-Disc-C TDR Clinical Trial. Cervical Spine Research Society 37<sup>th</sup> Annual Meeting, Salt Lake City, Utah, December 2009.
419. **Delamarter, R.B.**: Cedars-Sinai 9<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, February 4-6, 2010.

420. Davis, T.T., Bae, H.W., Rasouli, A., King, B., **Delamarter, R.B.**: Femoral Neurogram to Access the Anatomic Course Prior to a Transpoas Spinal Access to the L4-L5 Intervertebral Disc Space. International Society For The Study of Lumbar Spine Annual Meeting (ISSLS), Auckland, New Zealand, April 2010.
421. Davis, T.T., Bae, H.W., **Delamarter, R.B.**: The Lumbosacral Plexus and the Transpoas Approach to The Intervertebral Disc Space: A Cadaveric Study. Is There a Safe Zone? International Society For The Study of Lumbar Spine Annual Meeting (ISSLS), Auckland, New Zealand, April 2010.
422. Bae, H.W., Kanim, L.E.A., Gupta, N., Kropf, M., **Delamarter R.B.**: Marked Improvement in Patients Treated with Vertebroplasty after Painful Osteoporotic Compression Fractures. International Society For The Study of Lumbar Spine Annual Meeting (ISSLS), Auckland, New Zealand, April 2010.
423. Janssen, M.E, **Delamarter R.B.**: Prospective, Controlled Results of Patients Treated with Expanded Indications for Pro-Disc-C. The Spine Arthroplasty Society (SAS) 10<sup>th</sup> Annual Meeting, New Orleans, Louisiana, April 2010.
424. Janssen, M.E., Zigler, J.E., **Delamarter, R.B.**, Kropf, M., Balderstrom R., Spivak, JU., Goldstein, R.: Results from the Prospective, Randomized, MultiCenter IDE Study of 2-level ProDisc-C: Randomized Patients versus Continued Access Patients at 2 Years. The Spine Arthroplasty Society (SAS) 10<sup>th</sup> Annual Meeting, New Orleans, Louisiana, April 2010.
425. Bea, H., Kanim, LEA, Gupta, N., Kropf, M., **Delamater, R.B.**: Marked Improvement in Patients with Verteroplasty after Painful Osteoporotic Compression Fractures. The Spine Arthroplasty Society (SAS) 10<sup>th</sup> Annual Meeting, New Orleans, Louisiana, April 2010.
426. **Delamarter, R.B.**, Zigler, J., Balderston, Spivak, J., Linovitz, R., Zucherman J., Yue, J., Haider, T., Kitchel, S., Cammisa, F., Danileson, G.O., Kropf, M., Goldstein, M: Results from the Propesctive, Randomized, Multi-Center IDE Study of Two-Level ProDisc-L Randomized Patients Vs. Continued Access Patients at Two Years: North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
427. Maxwell, J., Davis, R., Welch, W., Sherman J., **Delamarter,R.B.**, Wingte, J.: Month Clinical & Radiographic Outcomes of Instrumental, Posterolateral Spinal Fusion from A Prospective, Randomized Clinical Study. : North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
428. Dryer, R., Regan, J., Hartjen D., Rodgers, B., DiRisio, D., Pettine, K., Youssef, J., Rhyne, A., Laxer, E., Lorio, M., Marzluff, J., Hihsmith, J., Rahn, K., Shugart, R., Tahernia, Da., Morgan, C., Ceola, W., Anand, N., **Delamarter R.B.**, Hodges, S.: Prospective US IDE Trial: Intern Results for the Treatment of Symptomatic Lumbar Spinal Stenosis with Facet Replacement in 100 patients enrolled at 15 Centers. North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.



429. Arunakul, R., Metzger, M., Kanim, L, Bae, H., Kropf, M., **Delamarter, R.B.:** Radiographic Analysis of the Lumbosacral Spine: Is there a Critical Sacral Angle for Total Disc Replacement? North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
430. **Delamarter, R.B.:** Artificial Disc: Extreme Cases. Cedars-Sinai 10<sup>th</sup> Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, February 3-5, 2011.
431. Bae, H., Thang, C., Houman, J., Zhao, L., Kanim, L., **Delamarter, R.B.:** Monitoring Adipose-Derived Human Mesenchymal Stem Cells in Vivo: Urine Gaussia Luciferase Expression. American Academy of Orthopedic Surgeons (AAOS) 78<sup>th</sup> Annual Meeting, San Diego, California, February 15-19, 2011.
432. X.Zhao, L. Kanim, X. Zhang, Y. Safai, J. Houman, H. Bae, M. Kropf, **R.B., Delamarter.:** Reduced Dose of rhBMP-2 with Demineralized Bone Matrix-based Product for Spinal Fusion. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
433. X. Zhang, L. Zhao, L. Kanim, Y. Safai, H. Bae, **R.B. Delamarter:** Immunomodulatory Actions of Adipose-derived Stem Cells. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
434. H. Bae, M.A. Kropf, L.E.A. Kanim, J. Kim, **R.B. Delamarter:** Mobi-C Cervical Disc Replacement for the Treatment of One and Two Level Cervical Degenerative Disc Disease: One Site Analysis Participating in the US FDA Trial. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
435. J.A. Youssef, J.J. Regan, C.A. Hartjen, R.F. Dryer, W.B. Rodgers, K. Pettine, D.J. DiRisio, A.L. Rhyne, E.B. Laxer, L.B. Spector, M.P. Lorio, J.M. Marzluff, J.M. Highsmith, K.A. Rahn, R.M. Shugart, A.D. Tahernia, C.J. Morgan, T.B. Briggs, J.F. Ferguson, W.M. Ceola, N. Anand, **R.B. Delamarter, S.C. Humphreys, S. Hodges, P. Connolly:** Prospective Randomized FDA IDE Pivotal Study of Symptomatic Lumbar Spinal Stenosis Patients Treated with ACADIA™: Interim Perioperative and Clinical Outcomes for the Investigational Device. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
436. L. Zhao, L.E.A. Kanim, J. Houman, Y. Safai, C. Thang, H.W. Bae, **R.B. Delamarter:** Monitoring Adipose-Derived Human Mesenchymal Stem Cells in vivo: Urine Gaussia Luciferase Expression. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
437. **R.B. Delamarter.** J. Zigler, M. Janssen: Total Disc Replacement in the Failed Back Surgery Patient: Analysis of Prosepctive, Randomized and Continued Access Cohorts. North American Spine Society (NASS) 26<sup>th</sup> Annual Meeting, Chicago, IL, November 2-5, 2011.

438. S. Kearns, M. Janssen, D. Murrey, **R.B. Delamarter**. Five-Year Results of the ProDisc-C Multicenter Randomized Clinical Trial. North American Spine Society (NASS) 26<sup>th</sup> Annual Meeting, Chicago, IL, November 2-5, 2011.
439. J. Zigler, **R.B. Delamarter**, D. Ohnmeiss: Five-Year Follow-Up of the ProDisc-L versus Fusion IDE Patient Cohorts. North American Spine Society (NASS) 26<sup>th</sup> Annual Meeting, Chicago, IL, November 2-5, 2011.
440. D. Murrey, J. Zigler, J. Goldstein, B. Darde, **R.B. Delamarter**: Five-Year Results of the ProDisc-C Multi-Center Randomized Clinical Trial. Cervical spine Research Society (CSRS) 39<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 7-10, 2011.
441. **R.B. Delamarter**, D. Murrey, J. Zigler, M. Janssen: Five-Year Reoperation Rates: Cervical total Disc Replacement vs. Fusion. Results of a Prospective, Randomized Clinical Trial. Cervical spine Research Society (CSRS) 39<sup>th</sup> Annual Meeting, Scottsdale, AZ, December 7-10, 2011.

POSTERS

1. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:** 1 versus 2 versus 3-level lumbar artificial disc replacement – a prospective report of clinical outcomes with the ProDisc-L device.
2. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim L.E.A., **Delamarter, R.B.:** Effect of motion preserving reconstruction on spinal alignment: cervical segmental and overall coronal and Sagittal alignment after 1 to 3-level disc replacement (ProDisc-C) versus fusion.
3. Pradhan, B.B., Bae, H., Kanim, L.E.A., **Delamarter, R.B.:** Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-Level Lumbar Total Disc Arthroplasty (ProDisc-L).
4. Bae, H., Pradhan, B.B., Kanim, L.E.A., **Delamarter, R.B.:** Dynamic Posterior Stabilization of the Lumbar Spine: Results from the US Clinical Trial with the Dynesys System.
5. Bae, H., Pradhan, B.B., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:** Spinal Alignment after 1 to 3 level cervical disc replacement (ProDisc-C) versus fusion – segmental and overall coronal and sagittal alignment.
6. **Delamarter, R.B.,** Bae, H., Kropf, M.A., Kanim, L.E.A., Pradhan, B.B.: 1 versus 2 versus 3 level lumbar artificial disc replacement – a prospective report of Clinical outcomes with the ProDisc-L device.
7. Pradhan, B.B., Bae, H., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.:** Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome.
8. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.:** Charite III versus ProDisc-L: Comparison of intraoperative intervertebral distraction Between a non-constrained versus a semi-constrained lumbar total disc replacement.
9. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:** Is the motion normal after cervical disc replacement? Analysis of motion at each treated and adjacent levels after single and multi-level disc replacement versus fusion:
10. Pradhan, B.B., Bae, H., Kropf, M.A., Shen, M., **Delamarter, R.B.:** Return to work outcomes after lumbar artificial disc replacement: Spayde, E.,
11. Pradhan, B.B., **Delamarter, R.B.,** Bae, H.: Is The Motion “Normal” After Multi-Level Cervical Disc Replacement? Analysis Of Motion at Each Treated And Adjacent Levels After 1 to 3-Level Disc Replacement Versus Fusion.
12. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:** Motion Analysis at Treated and Untreated Levels after Single and Multi-level Cervical Disc

- Replacement. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
13. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:** Sagittal and Coronal Cervical Spine Alignment after 1 to 3 level Disc Replacement: 2 Year Follow-up. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
  14. Bae, H., Pradhan, B.B., Kanim, L.E.A., **Delamarter, R.B.:** Lumbar Total Disc Replacement: A 2 to 3 Year Report from The United States Clinical Trial for the Pro-Disc-L Prosthesis. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
  15. **Delamarter, R.B.,** Bae, H., Kanim, L.E.A., Pradhan, B.B.: Cervical Disc Replacement- 2 to 3- year range of Motion and Clinical Outcome with the Pro-Disc-C Prosthesis. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
  16. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.:** Disc Height Restoration and its Effect on Range of Motion and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (Pro-Disc-L). . American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
  17. Bae, H., Pradhan, B.B., Zhao, L., Wong, P., Kanim, L.E.A., **Delamarter, R.B.:** Bone Morphogenetic Protein-2 Retention in a Vertebral Body Fracture Stabilization Device. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
  18. **Delamarter, R.B.,** Rudin, B., Bae, H., Kanim, L.E.A., Kamrava, E., MS, Patel, V.V., Pradhan, B.B.: Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
  19. Bae, H., Pradhan, B.B., Kanim, L.E.A., **Delamarter, R.B.:** Motion-Preserving Dynamic Stabilization of the Lumbar Spine: Early Results from the U.S. Clinical Trial with The Dynesys System. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
  20. Pradhan B.B., Bae. H., Kropf, M.A., **Delamarter, R.B.:** Charite III Versus Pro-Disc-L: Comparison of intraoperative intervertebral distraction between a Non-constrained Versus a Semi-constrained Lumbar Total Disc Replacement. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
  21. Pradhan, B.B., Bae, H., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.:** Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome.

Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.

22. **Delamarter, R.B.**, Bae, H., Kropf, M.A., Kanim, L.E.A., Pradhan, B.B.: 1 Versus 2 Versus 3-level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
23. Pradhan, B.B., Bae, H., Kropf, M.A, Kanim, L.E.A, **Delamarter, R.B.:** Spinal Alignment after 1 to 3 Level Cervical Disc Replacement (Pro-Disc-C) Versus Fusion Segmental and overall Coronal and Sagittal Alignment. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
24. Bae, H., Pradhan, B.B. Kanim, L.E.A., **Delamarter, R.B.:** Dynamic Posterior Stabilization of the Lumbar Spine: Results from the U.S. Clinical Trail with the Dynesys System. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
25. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.:**Effect of Motion Preserving Reconstruction on Spinal Alignment: Cervical Segmental and Overall Coronal and Sagittal Alignment after 1 to 3 Level Disc Replacement (Pro-Disc-C) Versus Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
26. Bae, H., Pradhan, B.B., Kanim, L.E.A., Kropf, M.A., **Delamarter R.B.:** 1 Versus 2 Versus 3-Level Cervical Artificial Disc Replacements –A Prospective Report of Clinical Outcomes with the Pro-Disc-C Device. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
27. Bae, H., Pradhan, B.B., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.:** 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacements: A Prospective Report of Clinical Outcomes with the Pro-Disc-C Device. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
28. Bae, H., Zhao, L., Pradhan, B.B., Wong. P.,BS, Kropf, M.A., **Delamarter R.B.:** Bone Morphogenetic Protein- 2 Retention in a Vertebral Body Fracture Stabilization Device (OptiMesh). International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
29. **Delamarter, R.B.**, Bae, H., Pradhan, B.B.: Is The Motion “Normal” after Multi-level Cervical Disc Replacement? Analysis of Motion at each Treated and Adjacent Levels after 1 to 3 Level Disc Replacement Versus Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
30. Pradhan, B.B., Bae, H., Spayde, E., **Delamarter, R.B.:** Charite-III Versus Pro-Disc-L: Comparison of Intraoperative Intervertebral Distraction between a Non-constrained Versus a Semi-constrained Lumbar Total Disc Replacement. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.

31. Bae, H., Zhao, L, Pradhan, B.B., Wong, P., BS, Kanim, L.E.A., Wang, J., **Delamarter, R.B.**: Worst Case Scenario For BMP-2 Mediated Gene Therapy in Posterolateral Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
32. Pradhan, B.B., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Charite III Versus Pro-Disc-L: Comparison of Intraoperative Intervertebral Distraction between a Non-constrained Versus a A Semi-constrained Lumbar Total Disc Replacement. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
33. **Delamarter, R.B.**, Bae, H., Kropf, M.A., Kanim, L.E.A., Shen, M., Pradhan, B.B.: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
34. Shen, M., Pradhan, B.B., Bae, H., Kropf, M.A., Spayde, E., **Delamarter, R.B.**: Single Level Artificial Disc Replacement at L-4-5 Versus L5-S1-Is there any Difference in technique, Morbidity, or result? North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
35. Spayde, E., Pradhan, B.B., Bae, H., Shen, M., **Delamarter, R.B.**: Charite III Versus Pro-Disc-L Early Head to Head Results at a Single Institute. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
36. Shen, M., Bae, H., Kropf, M.A., **Delamarter, R.B.**, Pradhan, B.B.: Single Level Artificial Disc Replacement at L4-5 Versus L5-S1: Is there any Difference in Technique, Morbidity or Result? Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006.
37. Pradhan, B.B., Bae, H., Kanim, L.E.A., **Delamarter, R.B.**: Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-constrained Multi-level Lumbar Total Disc Arthroplasty (Pro-Disc-L). Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct. 2006.
38. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.**: Effect of Motion Preserving Reconstruction on Spinal Alignment: Cervical Segmental and Overall Coronal and Sagittal Alignment after 1 to 3-level Disc Replacement (Proc-Disc-C) Versus Fusion. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct. 2006.
39. Pradhan, B.B., Bae, H., Kropf, M.A., Kanim, L.E.A., **Delamarter, R.B.**: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the (Pro-Disc-L) Device. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct. 2006.
40. Pradhan, B.B., Bae, H., Zhao, L., Kanim, L.E.A., **Delamarter, R.B.**: Mass Effect Versus Biologic Inhibition of rhBmp-2 Activity by Cellular Environment (Inorganic Polyethylene Beads Versus Fibroblasts): Implications on use of BMP for Salvage of

Pseudarthrosis or Failed Devices. Cervical Spine Research Society Annual Meeting, Palm Beach, FL., Dec. 2006.

41. Pradhan, B.B., Shen, M., Bae, H., **Delamarter, R.B.**: 3 and 4-Level Anterior Cervical Fusion with rhBMP-2, Allograft and Dynamic Plate: Fusion rates, Subsidence, Radiographic Incorporation and Complication. Cervical Spine Research Society Annual Meeting, Palm Beach, FL., Dec. 2006.
42. **Delamarter, R.B.**, Pradhan, B.B., Kropf, MS., Bae, H.: Spinal Alignment after 1 to 3 Level Cervical Disc Replacement: (Pro-Disc-C) Versus Fusion: Segmental and Overall Coronal and Sagittal Alignment. Cervical Spine Research Society Annual Meeting, Palm Beach, FL., Dec. 2006.
43. Pradhan, B.B., Kanim, L.E.A., Bae, H., Kropf, M.A., **Delamarter, R.B.**: Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes with (Pro-Discs-C.) American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007.
44. Pradhan, B.B., Kanim, L.E.A.,MS, Bae, H., Kropf, M.A., **Delamarter, R.B.**: 1 to 3 Level Cervical Disc Replacements Prospective Clinical Outcomes with (Pro-Disc-C). American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007.
45. Pradhan B.B, Bae, H.W., Zhao, L. Kanim, L.E., **Delamarter R.B.**: Mass effect versus biologic inhibition of rhBMP-2 activity by cellular environment (inorganic polyethylene beads versus fibroblasts)-Implications on use of BMP for salvage of pseudarthrosis or failed devices. Orthopaedic Research Society 53<sup>rd</sup> Annual meeting, San Diego, California, February 2007
46. Pradhan B.B., Shen M.S., Bae, H.W., **Delamarter RB.**: 3 and 4-Level anterior cervical fusion with rhBMP-2, allograft, and dynamic plate: fusion rates, subsidence, radiographic incorporation and complications. Orthopaedic Research Society 53<sup>rd</sup> Annual meeting, San Diego, California, February 2007
47. Vishnubhotla S., **Delamarter R.B.**, Pradhan B.B., Bae, H.W., Jensen L.M., Dawson J.M.: Effect of hydroxyapatite (HA) coating on the screw-bone interface in the dynesys® system. Orthopaedic Research Society 53<sup>rd</sup> Annual meeting, San Diego, California, February 2007
48. Welch W, **Delamarter RB**, Maxwell JH, Wingate JK, Davis R, Sherman J: Maintenance of Disc Height and Lordosis Following Dynamic Stabilization with the Dynesys Spinal System. American Association of Neurological Surgeons, 75th Annual Meeting, Washington, DC, April 14-19, 2007.
49. Welch W, Sherman J, Wingate JK, Maxwell JH, **Delamarter RB**, Davis R, Cheng B,: Dynamic Stabilization: A Preliminary In Situ Quantitative Dynamic Analysis of Flexion Extension Radiographs from the US IDE trial. American Association of Neurological Surgeons, 75th Annual Meeting, Washington, DC, April 14-19, 2007.

50. Delamarter R. B., Bae H. W., Kropf M. A., Kanim L. E., Pradhan B. B.: 3 to 4-Year Prospective Results of 1, 2, and 3-Level Cervical Arthroplasty With the Prodisc-C Device at a Single Institute. Spine Arthroplasty Society Global Symposium on Motion Preservation Technology 7th Annual Meeting, 2007, May 5 – 7, 2007, Berlin, Germany
51. Pradhan, B.B., Bae, H.W., Zhao, L., Kropf, M.A., Kanim, L.E.A.,MS, **Delamarter, R.B.:** Mass Effect Versus Biologic Inhibition of rhBMP-2 Activity by Cellular Environment (Inorganic Polyethylene Beads versus Fibroblasts)- Implications on use of BMP for Salvage or Pseudarthrosis or Failed Devices. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
52. Pradhan, B.B., Bae. H.W., Vishnubhotla, S., Jensen, L., Dawson, J., **Delamarter, R.B.:** Effect of Hydroxyapatite (HA) Coating on the Screw-Bone Interface in the Dynesys System. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
53. Pradhan, B.B., Bae, H.W., Kropf, M.A., **Delamarter, R.B.:** L4-5 Versus L5-S1: Is One More Suited than the Pther for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
54. Pradhan, B.B., Kropf, M.A., Bae, H.W., Kanim, L.E.A., **Delamarter, R.B.:** Up to 5-Year Prospective Results of 1, 2, and 3 Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Level. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
55. Bae, H.W., Zhao, L., Kamin, L.E.A., Pradhan, B.B., Wong, P., Kropf, M.A., **Delamarter, R.B.:** Variability Due to Lot of a Commercially Available Demineralized Bone Matrix for Spinal Fusion. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
56. Bae, H.W., Pradhan, B.B., Wong, P., Kanim, L.E.A., Wang, J.C., **Delamarter, R.B.:** The effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
57. Bae, H.W., Kanim, L.E.A., Pradhan, B.B., Kropf, M.A., **Delamarter, R.B.:** The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury. International Meeting for Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
58. Pradhan, B.B., Shen, M.S., Bae, H.W., Kropf, M.A., **Delamarter, R.B.:** 3 and 4 Level Anterior Cervical Discectomy and Fusion with rhBmp-2, Allograft, and Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation and Complications. International Meeting for Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
59. Pradhan, B.B., Bae, H.W., Vishnubhotla, S., Jensen, L., Dawson, J., **Delamarter, R.B.:** Effect of HydroxyApatite (Ha) Coating on the Screw-Bone Interface in the DYNESYS®.



International Meeting for Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.

60. Pradhan, B.B., Bae, H.W., Kanim, L.E.A, Kropf, M.A., **Delamarter, R.B.**: Up to 5-Year Prospective Results of 1,2, and 3-Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Institute. International Meeting for Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
61. Pradhan, B.B., Bae, H.W., Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.**: Mass Effect versus Inhibition of rhBMP-2 by Environment (Inorganic Beads versus Fibroblasts) Implications on BMP for Salvage of Pseudarthrosis or Failed Devices. International Meeting for Advanced Spinal Techniques, Paradise Island, Bahamas, July 2007.
62. **Bae HW, Pradhan BB, Zhao L, Kanim LE, Delamarter RB**: The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury Paper #26, Scoliosis Research Society 42<sup>nd</sup> Annual Meeting, Edinburg Scotland, Sept 5-8, 2007.
63. Pradhan, B.B., Bae, H.W., Kanim, L.E.A., MS, Kropf, M.A., **Delamarter, R.B.**: L4-Vs. L5-S1: Is one level more suited than the Other for Lumbar Disc Arthroplasty or Fusion? A Multi-center, Prospective, Randomized and controlled comparison. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas, October 2007.
64. Pradhan, B.B., Shen, M., Kropf, M.A., Bae, H.W., **Delamarter, R.B.**: 3 and 4 Level Anterior Cervical Fusion with rhBMP-2, allograft and Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation and Complications. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas, October 2007.
65. Pradhan, B.B., Bae, H.W., Zhao, L, Kanim, L.E.A., Kropf, M.A., **Delamarter, R.B.**: Mass Effect Vs. Biologic Inhibition of rhBMP-2 Activity by Cellular Environment (Inorganic Polyethylene Beads Vs. Fibroblasts) Implications on use of BMP for salvage of fusion or devices. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas, October 2007.
66. **Delamarter, R.B.**, Bae, H.W., Kanim, L.E.A., Kropf, M.A., Pradhan, B.B.: Up to 5-year Prospective Results of 1,2 and 3 Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Institute. . North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas, October 2007.
67. **Delamarter, R.B.**: Comparison of Reoperation Rates and Adjacent Level Effects after Total Disc Replacement (ProDisc-C) and ACDF. North American Spine Society 22<sup>nd</sup> Annual Meeting, Austin, Texas, October 2007.
68. Bae HW, Zhao L., Zhu D., Kanim, L.E.A., Thai L., Mehta G., Wang J.C., Pradhan B., **Delamarter, R.B.**: Variability Among 10 Production Lots of a Single Demineralized Bone Matrix (DBM) Product. American Academy of Orthopaedic Surgeons (AAOS) 75<sup>th</sup> Annual Meeting, San Francisco, California, March 2008.

69. Goldstein, J., **Delamarter, R.B.**, Zigler, J., Balderston, R., Spivak, J.,: Two-Level IDE ProDisc-L Clinical Trial vs On Level IDE ProDisc-L Clinical Trial. Spine Arthroplasty Society (SAS8) 8th Annual Meeting, Miami Beach, Florida, May 2008.
70. Zigler, J., **Delamarter, R.B.**, Janssen, M., Murrey, D.: Evidence of Lower Adjacent Level Changes after ProDisc-C Compared to ACDF. Spine Arthroplasty Society (SAS8) 8th Annual Meeting, Miami Beach, Florida, May 2008.
71. Babbitz, J., Bae, H., Kim, K., Kanim, L., **Delamarter, R.B.**: Preliminary Results with Mobi-C Cervical Disc Replacement for One or Two-level Disc Disease from the US FDA Trial. Spine Arthroplasty Society (SAS8) 8th Annual Meeting, Miami Beach, Florida, May 2008.
72. Tatsumi, R., Gallina, J., Kanim, L., Bae, H., Kropf, M., **Delamarter, R.B.**: Results and Analysis of Compassionate Use of Lumbar Disc Replacements: Up to Four Year Follow-up. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
73. Bae, H., Pradhan, B., **Delamarter, R.B.**: A Multi-Center, Randomized Controlled Prospective Clinical Study on the Safety and Efficacy of a New Bone Augmentation Material Compared to PMMA in Treating Vertebral Compression Fractures. North American Spine Society (NASS) 23<sup>rd</sup> Annual Meeting, Toronto, Ontario, Canada, October 2008.
74. Pradhan, B., Lotuaco, R., Kanim, L., **Delamarter, R.B.**, Bae, H.: Results From One Site Using Mobi-C Cervical Disc Replacement for One and Two Level Disc Disease. American Academy of Orthopaedic Surgeons (AAOS) 76<sup>th</sup> Annual Meeting, Las Vegas, Nevada, February 2009.
75. Bae, H., Zhao, L., Kanim, L., Walia, R., Tannous, B., Rasouli, A., **Delamarter R.B.**: An Ex-vivo Measurement of Secreted Gaussia Luciferase Accurately Predicts in vivo BMP Induced Stem Cell Survival and Spinal Tissue Formation. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
76. Bae, H., Zhao, L., Kanim, L., Zhu, D., Wang, J., Kropf, M., **Delamarter R.B.**: Concentration of BMP2 and BMP7 Predicts in vivo Fusion Performance of 30 lots Amongst 3 Different Demineralized Bone Matrix ( CBM) Based Products. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
77. Bae, H., Zhao, L., Kanim, L. **Delamarter R.B.**: Human Chondrocyte Transplants for Damaged Intervertebral Disc. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
78. Marcus, M., Feldman, L., Kim, J., Lotuaco R., Bae, H., **Delamarter, R.B.**: Characterization of Reasons for Failure to Return for Follow up Accross 3 randomized Clinica Trials. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.

79. **Delamarter, R.B.**, Rasouli, A., Ashraf, N., Strenge, B., Kanim, L.: The Stacked ADR: A Clinical and Radiologic Analysis of Sagittal Motion Preservation of Multilevel ADR at 2-6 Years. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
80. Rasouli, A., **Delamarter, R.B.**, Ashraf, N., Strenge, B., Kanim, L.: Multiple Level Lumbar ADR Adjacent to Concurrent Anterior Lumbar Interbody Fusion: A Clinical and Radiologic Analysis of Sagittal Motion Preservation at 5 Years. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
81. Rasouli, A., **Delamarter R.B.**, Ashraf, N., Strenge, B., Kanim, L.: The Hybrid ADR: A Radiologic Analysis of Sagittal Motion after Concurrent ADR + ALIF with 2-5 Year Follow up: International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009.
82. Bae, H., Zhao, L., Kanim, L., Walia, R., Tannouse, B., Rasouli, A., **Delamarter, R.B.**: An Ex Vivo Measurement of Secreted Gaussia Luciferase Accurately Predicts In Vivo BMP Induced Stem Cell Survival and Spinal Tissue Formation. ). North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
83. Marcus, M., Feldman, L., Kim, J., Lotuaco, R., Bae, H., **Delamarter R.B.**: Characterization of Reasons for Failure to Return for Follow-up Across Three Randomized Clinical Trials. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
84. **Delamarter, R.B.**, Rasouli, A., Kanim, L., Ashraf, N., Strenge, B., Kropf, M., Bae, H.: Three-Level ADR: A Clinical and radiographic Analysis of Sagittal Motion Preservation at Two-Six Years. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
85. **Delamarter, R.B.**, Rasouli, A., Strenge B., Ashraf, N., Kanim, L., Bae, H., Kropf, M.: Three Level Cervical ADR: Long term Clinical and Radiographic Outcomes. North American Spine Society (NASS) 24<sup>rd</sup> Annual Meeting, San Francisco, California, November 2009.
86. Murrey, D., Janssen, M., **Delamarter R.B.**, Goldstein, J., Zigler, J., Tay, B., Darden, B.: 5-Year Results of the Prospective, Randomized, Multicenter FDA Investigational Device Exemption (IDE) Pro-Disc-C TDR Clinical Trial. Cervical Spine Research Society 37<sup>th</sup> Annual Meeting, Salt Lake City, Utah, December 2009.
87. Bae, H., Zhao, L., Kanim, L., Houman, J., Thang, C., Tannous, B., Walia, R., **Delamarter, R.** Gaussia Luciferase (Gluc) Urine Assay in Monitoring Implanted Adipose-Derived Stem Cells in vivo. 56th Annual Meeting of the Orthopaedic Research Society. New Orleans, Louisiana. March 6-9, 2010.
88. Davis, D., Bae, H., Rasouli, A., **Delamarter, R.B.**: The Lumbosacral Plexus and the the TransPsoas Approach to the Intervertebral Disc Space: A Cadaveric Study. Is there a

“Safe Zone”? Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010.

89. **Delamarter, R.B.**, Murrey, D., Darde, B., Janssen, M., Goldstein, J.A., Zigler, J., Tay, K.B.: 5-Year Results of the Prospective, Randomized Multi Center Food and Drug Administration Investigational Device Exemption Pro-Disc-C Clinical Trial. Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010.
90. Davis, R.J., **Delamarter, R.B.**, Maxwell, J., John, S., William, W., Wingate, J.: 3-Year Results From a Prospective, Randomized IDE Study of the Dynesys Dynamic Stabilization System. Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010.
91. Youssef, J.A., Regan, J., Dryer R.F., Hartijen, C., **Delamarter R.B.**, Anand, N.: Clinical Outcomes for worldwide Cohort Of 106 Lumbar Spinal Stenosis Patients Treated with Acadia. Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010.
92. Bae, H., Lotuaco, R., Kanim, Lea., Kropf, M., **Delamarter, R.B.:** Mobi-C Cervical Disc Replacement for the Treatment of One-and-Two Level Cervical Degenerative Disc Disease: One-Site Analysis Participating in the US FDA Trial. North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
93. Mok, J., Bae, H., Kropf, M., Kanim, LEA, **Delamarter, R.B.:** Multiple Cervical Disc Arthroplasty: Cervical and Radiographic Outcomes with minimum Two-Year Follow-up. North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
94. L. Zhao, L.E.A. Kanim, J. Houman, Y. Safai, C. Thang, H.W. Bae, **R.B. Delamarter:** Monitoring Adipose-Derived Human Mesenchymal Stem Cells in vivo: Urine Gaussia Luciferase Expression. The Spine Arthroplasty Society (SAS) 11<sup>th</sup> Annual Meeting, Las Vegas, NV, April 26-29, 2011.
95. **Delamarter R.B.**, Zhang X., Zhao L., Kanim L.E.A., Safai Y, Bae HW,,: Immunomodulatory Actions of Adipose-derived Stem Cells.The Spine Arthroplasty Society (SAS) 11th Annual Meeting, Las Vegas, NV, April 26-29, 2011.
96. **R.B. Delamarter.** J. Zigler, M. Janssen: Total Disc Replacement in the Failed Back Surgery Patient: Analysis of Prosepctive, Randomized and Continued Access Cohorts. North American Spine Society (NASS) 26<sup>th</sup> Annual Meeting, Chicago, IL, November 2-5, 2011.
97. Yalda S., Kropf M., Bae H., Zhao L., Kanim L.E.A., Thang C., Houman J., **Delamarter R.B.:** Reduced Dose of rhBMP-2 with Demineralized Bone Matrix-Based Product for Spinal Fusion. North American Spine Society (NASS) 26th Annual Meeting, Chicago, IL, November 2-5, 2011.

## HONORARIUMS

1. Guest Lecturer, Combined Orthopaedic/Neurosurgical Orlando Spine Trauma Symposium: "The Role of Anterior Decompression in Lower Cervical Injuries," Session Moderator: "Cervical Spine Trauma", Lucerne Spinal Center. Orlando, Florida, June, 1988.
2. Guest Lecturer, Oregon Spine Trauma Update Course, "Thoracic-Lumbar Spine Fractures/Biomechanics and Mechanism," Eugene, OR, April 14, 1989.
3. Guest Lecturer, Cybex National Seminar, "Functional Anatomy of the Lumbar Spine and Surgical Procedures Update," San Diego, CA, August 4, 1989.
4. Visiting Professor, Brazilian Congress of Pathology of the Vertebral Column. 1) Fractures of the Cervical Spine, 2) Fractures of the Thoracic-Lumbar Spine, 3) Cervical Disc Herniations, and 4) Lumbar Stenosis...Brasilia, Brazil, November 22-24, 1989.
5. Guest Lecturer, Los Roblos Medical Center, "Cervical Disc Disease," Thousand Oaks, CA, March 9, 1990.
6. Guest Lecturer, CIGNA Health Plan, "Low Back Pain: Diagnosis and Treatment," Los Angeles, CA, March 31, 1990.
7. Visiting Distinguished Professor, Louisiana State University Medical Center... 1)"Degenerative Disease of the Cervical Spine" and 2)"Lumbar Spinal Stenosis", Shreveport, Louisiana, June 8 & 9, 1990.
8. Guest Lecturer, Community Care Network, Western Medical Review, "Current Concepts Low Back Pain," San Diego, California, October 15, 1990.
9. Guest Lecturer, Saint John's Hospital and Health Center, "How To Keep Your Back Healthy," Santa Monica, California, January 16, 1991.
10. Guest Lecturer, Japanese Sports Medicine Society & American Sports Medicine Society, Symposium - Lumbar Spine - Spondylolysis and Spondylolisthesis, Diagnosis and Treatment, Kauai, Hawaii, January 24, 1991.
11. Volvo Award - Basic Science Research, International Society for the Study of the Lumbar Spine, May 15, 1991, Heidelberg, Germany, \$9000.
12. Acromed Award - Outstanding Research, North American Spine Society, August 1, 1991, Keystone, Colorado, \$3,000.
13. Guest Lecturer - Children Hospital School of Physical Therapy: Lumbar Degenerative Disease, Cervical Degenerative Disease, Los Angeles, California, May 24, 1991.

14. Guest Lecturer - University of Southern California Medical School: "Low Back Pain - Evaluation and Treatment", June 11, 1991.
15. Guest Lecturer - Westlake Medical Center: "Lumbar Degenerative Disc Disease", April 24, 1992.
16. Homer C. Pheasant Memorial Lecture, Orthopaedic Hospital, October 28, 1993: 1) Lumbar Disc Disease: Alternatives to Lumbar Laminectomy, 2) Lumbar Spinal Stenosis.
17. Visiting Professor, San Paolo University, San Paolo, Brazil. 1) Lumbar Spinal Stenosis; 2) Lumbar Spondylolisthesis, March 5-7, 1997.
18. Guest Lecturer. Prodisc Cervical. 2<sup>nd</sup> Trans Atlantic Spine Congress, Dallas, Texas, November 12-13, 2004.
19. Guest Lecturer: Artificial Disc Replacement-My Experience. Simmons Surgical Society-27<sup>th</sup> Annual Meeting, Santa Monica, CA, April 2007.
20. Guest Lecturer: Multi-Level Cases Treated With ProDisc-C. The Spine Arthroplasty Society 7<sup>th</sup> Annual Meeting, Berlin, Germany, May 2007.
21. Guest Lecturer: Total Disc Arthroplasty ( ProDisc-C and ProDisc-L). Loma Linda University, Spine Ground Rounds and Journal Club, Riverside, Ca, November 7, 2007.
22. Guest Lecturer: Management of Multi-Center Cervical Spine Disorders. Royal College of Orthopaedic Surgeons of Thailand 30<sup>th</sup> Annual Meeting, Pattaya, Thailand, October 2008.
23. Moderator: Occipito Cervical Junction. Cervical Spine Research Society 37<sup>th</sup> Annual Meeting, Salt Lake City, Utah, December 2009.
24. Guest Lecturer: Oh, My Aching Back: The Latest Surgical Solutions. 12<sup>th</sup> Annual Board of Governors Healthcare College, Cedars-Sinai, Los Angeles, CA, May 4, 2010.
25. Guest Lecturer: Spine Surgery: Why Motion Preservation. Orthopaedic Surgery Grand Rounds, Cedars-Sinai, Los Angeles, May 26, 2010.
26. Guest Lecturer: Lumbar Surgery Motion Preservation Options and Cervical Spine Surgery-Does Artificial Disc Replacement Work? Orthopaedic Surgery Grand Rounds, Oregon Health & Science University, Portland, OR, September 10, 2010.
27. Guest Lecturer: Lumbar Degenerative Disc Disease- Decompression, Fusion or Artificial Disc Replacement. Orthopaedic Surgery Grand Rounds, Columbia University, New York, NY, May 12, 2011.

RESEARCH

- 1977 Honors Thesis - 1 year laboratory experience studying Cryopreservation of Feline Hemoglobins, Dept. of Biochemistry, Seattle Pacific University, Dr. Grayson Capp.
- 1986-1987 Experimental Lumbar Spinal Stenosis, Principle Investigator **Rick B. Delamarter, M.D.**, Co-Investigator Henry H. Bohlman, M.D. Spinal Stenosis created in dogs by constriction of the cauda equina involved cortical evoked potential monitoring, vascular studies and histopathological analysis, Department of Health and Human Services, No. AM-20618-08 Funded \$62,700 1986-1987.
- 1987-1988 Biomechanical Analysis of the Raymond Roy-Camille Spinal Plate and Transpedicular Screw System on a Human Cadaver Model of Lumbar-Sacral Instability. Principle Investigator **Rick B. Delamarter, M.D.** Funded by Howmedica International Inc. and Acromed Corporation. \$45,000, 1987-1988.
- 1987-1990 National Low Back Pain Study, UCLA Site, Co-Investigator **Rick B. Delamarter, M.D.**, Principle Investigator E. G. Dawson, M.D (PI)., Department of Health and Human Services, NINCDS, Funded \$52,343/per year 1987-1988, 1988-89, 1989-90.
- 1989 - 1991 Experimental Spinal Stenosis: Analysis of Early and Delayed Decompression, Principle Investigator **Rick B. Delamarter, M.D.** Funded by Orthopaedic Research and Educational Foundation, Funded \$100,000. 1989-1991.
- 1992 - 1996 Evaluation of rhBMP in a Canine Lumbar Fusion Model. Co-Investigator, **Rick B. Delamarter, M.D.** Funded by Genetics Institute and Sofamor-Danek; \$250,000, 1992-1996.

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