

CURRICULUM VITAE
RICK B. DELAMARTER, M.D.

BIRTHDATE

July 14, 1954

BIRTHPLACE

Redmond, Oregon

MARITAL STATUS

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

CHILDREN

Bri-Anne, born February 7, 1983
Lisa Anna, born April 11, 1986
Brian, born April 28, 1989

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 1985-1987	Chief Resident, Orthopaedic Surgery, 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

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 Diplomate, 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.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.
67. **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.
68. 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.
69. Patel, V.V., Zhao, L., MC, PhD, Pamela Wong, BS, Linda Kanim, MA, 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, Volume 31, Number 11, pp 1201-1206

BOOK REVIEWS

1. **Delamarter, R.B.**: Principles and Techniques of Spine Surgery, Edited by Howard An, 1998. Reviewed in The Journal of Bone and Joint Surgery, Vol. 80-A, No. 12, December 1998.

PUBLISHED ABSTRACTS AND PROCEEDINGS

1. **Delamarter, R.B.** and Moreland, J. R.: Acute Femoral Neck Fractures Treated With Total Hip Replacement. Orthopaedic Transactions, Vol. 8, Number 3:502, Fall 1984.

2. **Delamarter, R.B.**, Hohl, M., and Hopp, E., Jr.: Ligament Injuries in Tibial Plateau Fractures. Orthopaedic Transactions, Vol. 9, Number 3:571, Fall 1985.
3. **Delamarter, R.B.**, and Hohl, M.: The Cast-Brace in Tibial Plateau Fractures. Orthopaedic Transactions, Vol. 9, Number 3:557, Fall 1985.
4. **Delamarter, R.B.**, Bohlman, H.H., and Martin, J.E.: Salvage Operations For The Patient With Failed Lumbar Spine Surgery. Orthopaedic Transactions, Vol. 11, Number 3:474, Fall 1987.
5. **Delamarter, R.B.**, Dodge, L., Bohlman, H.H., and Gambetti, P.L.: Postmortem Neuropathologic Analysis of Eleven Patients with Paralysis Secondary to Rheumatoid Arthritis of the Cervical Spine. Orthopaedic Transactions, Vol 12, Number 1:54, Spring, 1988
6. **Delamarter, R.B.**, Ross, J.S., Modic, M.T., Masaryk, T.J., and Bohlman, H.H.: Diagnosis of Lumbar Arachnoiditis by Magnetic Resonance Imaging. Orthopaedic Transactions, Vol 12, Number 1:64, Spring, 1988
7. Hueftle, M.G., Modic, M.T., Ross, J.S., Masaryk, T.J., Carter, 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 Enhanced MR. Society of Magnetic Resonance in Medicine Book of Abstracts, page 7, 1988.
8. Hueftle, M.G., Modic, M.T., Ross, J.S., Masaryk, T.J., Bohlman, H.H., **Delamarter, R.B.**, Carter, J., and Steinberg, P.M.: Post-operative Epidural Fibrosis Versus Recurrent Disc Herniation in the Lumbar Spine: Assessment with Gd-DTPA Enhanced MR Imaging. Radiologic Society of North America Book of Abstracts, page 251, 1988.
9. Ross, J.S., **Delamarter, R.B.**, Van Dyke, C., Masaryk, T.J., Hueftle, M.G., Bohlman, H.H., and Modic, M.T.: MR Enhancement of Epidural Fibrosis by Gd-DTPA: Biodistribution and Mechanism. Radiologic Society of North America Book of Abstracts, page 142, 1988.
10. **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 Imaging. Orthopaedic Transactions, Vol. 12, No. 3:554-555, Fall,
11. **Delamarter, R.B.**, Hueftle, M.G., Modic, M.T., Ross, J.S., Masaryk, T.J., and Bohlman, H.H.: Recurrent Lumbar Disc Herniation Versus Postoperative Scar: Diagnosis by Gadolinium-DTPA Enhanced Magnetic Resonance Imaging. Orthopaedic Transactions, Vol. 12, No. 3:604, Fall, 1988.
12. **Delamarter, R.B.**, Bohlman, H.H. and Dodge, L.: Experimental Lumbar Spinal Stenosis: Cortical Evoked Potentials, Vasculature, and Histo-Pathologic Analysis Following Chronic Compression of the Dog Cauda Equina. Orthopaedic Transactions, Vol. 12, No. 3:684-685, Fall, 1988.

13. **Delamarter, R.B.**, Bohlman, H.H. and Dodge, L.: Correlation of Cortical Evoked Potentials, Vasculature and Histo-Pathology in Chronic Cauda Equina Comparison: An Animal Model. Orthopaedic Transactions, Vol. 13, No. 1:101-102, Spring, 1989.
14. Hales, D.D., Dawson, E.G., and **Delamarter, R.B.**: Late Neurologic Complications of Harrington Rod Instrumentation. Orthopaedic Transactions, Vol. 13, No. 1:117, Spring, 1989.
15. 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 Receptient with Chronic Myelopathy. Neurology, March, 1989.
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SCIENTIFIC EXHIBITS

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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

1. **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.
2. **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.
3. **Delamarter, R.B.** and Hohl, M.: Tibial Plateau Fractures Treated with Cast-Bracing. Presented to the AOA Residents Conference, New Orleans, Louisiana, May 1985.
4. **Delamarter, R.B.**, and Hohl, M.: Ligament Injuries in Tibial Plateau Fractures. Presented to the American Orthopaedic Association, San Diego, California, June 1985.
5. **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.
6. **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.

7. **Delamarter, R.B.**, Ross, J.S., Massaryk, 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.
8. 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.
9. 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.
10. 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.
11. **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.
12. 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.
13. **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.
14. **Delamarter, R.B.**: Degenerative Disease of the Cervical Spine. Harbor-UCLA Medical Center, Department of Orthopaedic Surgery: Los Angeles, California, April 1988.
15. **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.
16. 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.

17. **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.
18. 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.
19. **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.
20. **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.
21. **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.
22. **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.
23. **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.
24. **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.
25. **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.
26. **Delamarter, R.B.**: An Animal Model of Experimental Lumbar Spinal Stenosis. University of Alberta, Calgary, Alberta, Canada. (North American Traveling Fellow), October 29, 1988.

27. **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.
28. **Delamarter, R.B.:** Current Concepts in Spine Surgery. Department of Physical and Occupational Therapy, University of California, Los Angeles, November 16, 1988.
29. 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.
30. 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.
31. **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.
32. **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.
33. **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.
34. **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.
35. 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.
36. **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.
37. **Delamarter, R.B.:** Experimental Cauda Equina Compression: Etiology of Pain and Paralysis. UCLA, Department of Surgery Grand Rounds, March 8, 1989.
38. **Delamarter, R.B.:** Spinal Stenosis - Back Surgery for the Elderly. Presented at UCLA, Department of Geriatrics Grand Rounds, May 9, 1989.

39. **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.
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 American Orthopaedic Association, Colorado Springs, CO, June 12-15, 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 North American Spine Society, Quebec City, Canada, July 1, 1989.
42. **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.
43. **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.
44. **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.
45. **Delamarter, R.B.**: Surgery of the Rheumatoid Cervical Spine. Presented at Rheumatology Grand Rounds, UCLA Dept. of Medicine, October 30, 1989.
46. **Delamarter, R.B.**: Instructional Course Lecture - Management of Cervical Spine Trauma. American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 12, 1990.
47. **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.
48. **Delamarter, R.B.** and Bohlman, H.H.: Failed Lumbar Microdiscectomies. Presented at the American Academy of Orthopaedic Surgeons, New Orleans, Louisiana, February 13, 1990.
49. **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.

50. **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.
51. **Delamarter, R.B.**: Adult Spinal Diseases. Curriculum Lecture at Childrens Hospital, Physical Therapy Department, Los Angeles, CA, June 21, 1990.
52. **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.
53. **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.
54. **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.
55. **Delamarter, R.B.**, Instructional Course Lecture - Management of Cervical Spine Trauma. American Academy of Orthopaedic Surgeons, Anaheim, California, March 9, 1991.
56. **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.
57. **Delamarter, R.B.**: Instructional Course Lecture - Anterior Techniques For Decompression In Spinal Cord Trauma. American Academy of Orthopaedic Surgeons, Anaheim, California, March 10, 1991.
58. **Delamarter, R.B.**, Bodner, D. and Bohlman, H.H.: Cauda Equina Syndrome. American Spinal Injury Association, Seattle, Washington, April 1991.
59. **Delamarter, R.B.**: Spinal Instrumentation In-Service Lecture, UCLA Operating Room Nursing Staff, April 17, 1991.
60. **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).
61. **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.

62. **Delamarter, R.B.:** Cervical Spine Injury. UCLA Department of Neurology Grand Rounds, September 6, 1991.
63. **Delamarter, R.B.:** Stabilization of Metastatic Spinal Disease. UCLA Department of Neurosurgery Symposium, September 18, 1991.
64. **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.
65. 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.
66. **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.
67. **Delamarter, R.B.:** Cervical Spine Tumors - Session Moderator. Cervical Spine Research Society, Philadelphia, Pennsylvania, December 6, 1991.
68. **Delamarter, R.B.:** Spine Surgery in Patients with Rheumatoid Arthritis. UCLA Division of Rheumatology Grand Rounds, December 18, 1991.
69. **Delamarter, R.B.,** Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome. Orthopaedic Research Society, Washington, D.C., February 17, 1992.
70. **Delamarter, R.B.,** Sherman, J.E., Carr, J.B.: Cauda Equina Syndrome. American Academy of Orthopaedic Surgery, Washington, D.C., February 17, 1992.
71. **Delamarter, R.B.:** Cervical Spine Trauma - Evaluation and Treatment Instructional Course Lecture, American Academy of Orthopaedic Surgery, Washington, D.C., February 22, 1992.
72. **Delamarter, R.B.:** Lumbar Fusion with Internal Fixation. AAOS Course "Lumbar Spinal Fusion, Atlanta, Georgia. May 2, 1992.
73. **Delamarter, R.B.:** Diagnosing Lumbar Pseudoarthrosis. AAOS CME Course, "Lumbar Spinal Fusion", Atlanta, Georgia, May 2, 1992.
74. **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.

75. **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.
76. Howard, M., **Delamarter, R.B.**, Dawson, E., Deutch, A., Mink, J.: MRI Following Successful Lumbar Discectomy. North American Spine Society. Boston, Massachusetts, July 1992.
77. **Delamarter, R.B.:** (1) Current Treatment of Scoliosis, (2) Cervical Degenerative Disc Disease. Family Practice Symposium. Anaheim, California, August 2, 1992.
78. **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.
79. **Delamarter, R.B.:** Percutaneous Lumbar Laser Discectomies, Update Symposium. AAOS Summer Institute. Seattle, Washington, September 21, 1992.
80. **Delamarter, R.B.:** Cervical Spine Injuries in Football. UCLA Division of Orthopaedic Surgery, Grand Rounds. October 3, 1992.
81. **Delamarter, R.B.:** Spondylolisthesis, Spondylosis, Lumbar Disc Disease. Family Medicine #257, An Interdisciplinary Approach to Sports Medicine. UCLA, October 21, 1992.
82. **Delamarter, R.B.:** Discrepancies in the Orthopaedic Literature. Why? Instructional Course Lecture #209. American Academy of Orthopaedic Surgery, San Francisco, California. February 19, 1993.
83. **Delamarter, R.B.:** Cervical Spine Trauma - Evaluation and Treatment, Instructional Course Lecture #129. American Academy of Orthopaedic Surgery, San Francisco, California. February 20, 1993.
84. 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.
85. **Delamarter, R.B.**, Sherman, J., Carr, J.: Cauda Equina Syndrome. Federation of Spine Association, San Francisco, California, February 21, 1993.
86. **Delamarter, R.B.:** Lumbar Disc Injuries in Athletes. Managing Low Back Pain 1993, New Orleans, Louisiana, April 25, 1993.

87. **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.
88. **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.
89. 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.
90. **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.
91. **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.
92. **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.
93. **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.
94. **Delamarter, R.B.:** Lumbar Fusion with Instrumentation. State of the Art Spine, Los Croabaz, Puerto Rico, November 1993.
95. 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.
96. 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.
97. **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.
98. **Delamarter, R.B.:** Cervical Disease. American Academy of Orthopaedic Surgeons Comprehensive Review Course, San Francisco, California, December 5, 1993.

99. **Delamarter, R.B.:** (1) Lumbar Disc Disease - New Treatment Alternatives, (2) Spinal Instrumentation - State of Art. Campbell Clinic Symposium, Scottsdale, Arizona, January 30, 1994
100. **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.
101. **Delamarter, R.B.:** Lumbar Spondyloysis and Spondylolisthesis. Family Practice - Sports Medicine Course #230, UCLA School of Medicine, April 1994.
102. **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.
103. **Delamarter, R.B.,** Sherman, J., Carr, J.: Spinal Cord Injury. American Spinal Injury Association, Philadelphia, Pennsylvania, April 25, 1994.
104. **Delamarter, R.B.:** Lumbar Microsurgery: Spine Surgery Update. American Academy of Orthopaedic Surgeons, Chicago, Illinois, May 5-7, 1994.
105. **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.
106. 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.
107. **Delamarter, R.B.:** Football Injuries of the Cervical Spine. Sports Medicine Conference Series. UCLA Division of Family Medicine, September 1994.
108. **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.
109. **Delamarter, R.B.,** Kushwaha, V., Minchew, J.: A New Technique for Rapid Lumbar Fusion. North American Spine Society, Minneapolis, Minnesota, November 1994.
110. **Delamarter, R.B.:** Cervical Trauma - Initial Management. Instructional Course Lecture Series. American Academy of Orthopaedic Surgery, Orlando, Florida, February 1995.

111. **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.
112. 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.
113. 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.
114. **Delamarter, R.B.**: Moderator - Thoracolumbar Trauma, American Spinal Injury Association. Federation of Spine Association, Orlando, Florida, February 1995.
115. 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.
116. 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.
117. **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.
118. 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.
119. 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.
120. 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.
121. 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.

122. 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.
123. 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.
124. 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.
125. 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.
126. Tsai, R.Y., Yang, R.S. Kanim, L.E.A., **Delamarter, R.B.**, Dawson, E.G.: Intraoperative Dermatome Evoked Potential Monitoring in Lumbar Decompression Surgery, North American Spine Society, Washington, D.C., October 1995.
127. 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.
128. 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.
129. 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.
130. **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.
131. 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.
132. 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.

133. Tsai, R.C., 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. American Academy of Orthopaedic Surgeons, Atlanta, Georgia, February 24, 1996.
134. **Delamarter, R.B.**: “Complications of Anterior and Posterior Cervical Spine Surgery”, USC University Hospital, Department of Orthopaedic Surgery, March 21, 1996.
135. **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.
136. **Delamarter, R.B.**: Lumbar Microsurgery. Co-Chairman, American Academy of Orthopaedic Surgeons Course: “Least Invasive Spine Surgery”. St. Louis, Missouri, May 17-19, 1996.
137. 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.
138. 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.
139. 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.
140. 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.
141. 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.
142. **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.
143. **Delamarter, R.B.**: “Cervical Surgical Failures.” Cervical Spine Research Society Annual Meeting, Palm Beach, Florida, December 7-9, 1996.
144. **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.

145. **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.
146. **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.
147. **Delamarter, R.B.**: 1) Lumbar Spinal Stenosis, 2) Lumbar Spondylolisthesis. Visiting Professor, San Paolo University, San Paolo, Brazil, March 5-7, 1997.
148. **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.
149. **Delamarter, R.B.**, Course Chairman: Least Invasive Spine Surgery: Lumbar Microdiscectomy. American Academy of Orthopaedic Surgeons, St. Louis, Missouri, April 4-6, 1997.
150. **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.
151. **Delamarter, R.B.**: Neck Pain - Basic Orthopaedics for the Primary Care Physician. UCLA Extension Course, Los Angeles, California, June 6-7, 1997.
152. **Delamarter, R.B.**: Rheumatoid Arthritis of the Cervical Spine. UCLA Department of Rheumatology Grand Rounds, Los Angeles, California, June 9, 1997.
153. 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.
154. **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.
155. 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.
156. **Delamarter, R.B.**: Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, New Orleans, Louisiana, March 19-23, 1998.

157. 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.
158. **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.
159. 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.
160. 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.
161. **Delamarter, R.B.:** Minimally Invasive Fusion Techniques. Challenges to Spine Surgery EBI Program, Las Vegas, Nevada, October 9, 1998.
162. 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.
163. **Delamarter, R.B.:** Cervical Burst Fractures. Cervical Spine Research Society Annual Meeting, Atlanta, GA, December 6, 1998.
164. 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.
165. 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.
166. **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.
167. **Delamarter, R.B.:** Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, Anaheim, California, February 5, 1999.
168. **Delamarter, R.B.:** Instability: A Surgeon's Perspective. American Society of Neuroradiology Annual Meeting, San Diego, California, May 27, 1999.

169. **Delamarter, R.B.:** The Treatment of Instability. American Society of Neuroradiology Annual Meeting, San Diego, California, May 27, 1999.
170. 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.
171. **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.
172. **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.
173. **Delamarter, R.B.:** Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, Florida, March 19, 2000.
174. 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.
175. **Delamarter, R.B.:** Strategic Advisory Spine Meeting: Anterior Lumbar Interbody Fusion; Posterior Oblique Lumbar Interbody Fusion; Cabo San Lucas, Mexico, July 13-14, 2000.
176. **Delamarter, R.B.:** 6th Annual Spine Surgeons International Symposium; “Degenerative Lumbar Disease”, Moderator; Napa, California, September 21-23, 2000.
177. 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.
178. **Delamarter, R.B.:** Kyphoplasty – State of the Art. Los Robles Hospital, Westlake Village, CA, November 3, 2000.
179. **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.
180. **Delamarter, R.B.:** How Do You Fix a Non-Union? Cervical Spine Research Society, Charleston, South Carolina, December 2-3, 2000.
181. 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.

182. **Delamarter, R.B.:** Grand Rounds at UC Irvine: “Avoiding Complications in Cervical Spine Surgery”, Irvine, California, December 14, 2000.
183. **Delamarter, R.B.:** Posterior Lumbar Interbody Fusions – Options. San Diego City Spine Conference, San Diego, California, February 21, 2001.
184. **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.
185. **Delamarter, R.B.:** AAOS Instructional Course Lecture: Cervical Spine Trauma. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 1, 2001.
186. **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.
187. **Delamarter, R.B.:** AAOS Symposium: Head & Neck Injuries in Athletes. American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, California, March 4, 2001.
188. **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.
189. 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.
190. Davis, T., **Delamarter, R.B.:** The Intradiscal Electrothermal Therapy procedure for chronic discogenic low back pain. North American Spine Society, Seattle, Washington, November 2001.
191. 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.
192. **Delamarter, R.B.:** Spine Problems in Elite Soccer Players. International Football and Sports Medicine Conference, Beverly Hills, California, March 2002.
193. **Delamarter, R.B.:** Posterior Lumbar Oblique Anthrodesis. Advanced Education Symposium, Grand Bahamas Island, April 2002.
194. **Delamarter, R.B.:** 1) Laminoplasty: Indications, Techniques and Outcomes; 2) Kyphoplasty and Vertebralplasty. Clinical Challenges and Advancements in Spine Surgery, Carlsbad, California, July 2002.

195. **Delamarter, R.B.:** 1) Artificial Intervertebral Disc; 2) Posterior Lumbar Interbody Fusion—Cages. Surgical Management of Degenerative Lumbar Disorders, Boston, Massachusetts, September 2002.
196. **Delamarter, R.B.:** Athletic Head and Neck Injuries Symposium. Cervical Spine Research Society, Miami Beach, Florida, December 2002.
197. **Delamarter, R.B.:** Microsurgery of the Cervical Spine. Instructional Course Lecture Series, American Academy of Orthopaedic Surgeon Annual Meeting, New Orleans, Louisiana, February 2003.
198. **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.
199. **Delamarter, R.B.:** Lumbar Disc Degenerations – Treatment Options. Instructional Course Lecture Series, American Academy of Orthopaedic Surgeon Annual Meeting, New Orleans, Louisiana, February 2003.
200. **Delamarter, R.B.:** Cervical Spine Injury – Treatment and Timing. Federation of Spine Associations, New Orleans, Louisiana, February 2003.
201. **Delamarter, R.B.:** Results of Prodisc Artificial Disc Replacement. Second Annual Symposium on Current Concepts in Spinal Disorders, La Quinta, California, March 2003.
202. 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.
203. 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.
204. 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.
205. **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.
206. **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.

207. 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.
208. 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.
209. 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.
210. **Delamarter, R.B.**, Bae, H.: Dynamic Anterior Cervical Plates: Why They Fail? World Spine II, Chicago, Illinois, August 2003.
211. 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.
212. 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.
213. 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.
214. 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.
215. 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.
216. **Delamarter, R.B.**: Symposium: Degenerative Spndylolisthesis/Scoliosis... Instrumentation Necessary. North American Spine Society, San Diego, California, October 2003.
217. **Delamarter, R.B.**: Cervical Artificial Disc Replacement. North American Spine Society, San Diego, California, October 2003.
218. **Delamarter, R.B.**: Symposium: Controversies in Lumbar Spine Surgery. North American Spine Society, San Diego, California, October 2003.
219. **Delamarter, R.B.**: Total Disc Replacement. North American Spine Society Instructional Course Lecture, San Diego, California, October 21, 2003.

220. Kanim, L.E.A., Bae, H., **Delamarter, R.B.**, Dawson, E.: Inter and Intra-variability of BMPs in Commercially Available Demineralized Bone Matrices. North American Spine Society, San Diego, California, October 2003.
221. 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.
222. 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.
223. 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.
224. **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.
225. 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.
226. 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.
227. **Delamarter, R.B.**: Artificial Disc – Prodisc Results. Third Annual Symposium on Current Concepts in Spinal Disorders, La Quinta, California, February 2004.
228. **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.
229. **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.
230. 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.

231. 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.
232. 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.
233. 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.
234. 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.
235. 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.
236. 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.
237. 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.
238. **Delamarter, R.B.**: Guest Lecturer. Total Disc Replacement. University of California Davis Grand Rounds, Sacramento, California, September 2004.
239. **Delamarter, R.B.**: Non Fusion Technologies. Sanderson Memorial Lectureship University of California Davis, St. Josephs Medical Center, Stockton, California, September 2004.
240. 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.
241. 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.

242. 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.
243. 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.
244. 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.
245. 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.
246. 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.
247. 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.
248. 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.
249. 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.
250. 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.
251. **Delamarter, R.B.**: Guest Lecturer. 1) Cervical Artificial Disc; 2) Lumbar Artificial Discs. 5th Annual Spinal Horizons Symposium, Chamberlain, South Dakota, October 8-9, 2004.
252. **Delamarter, R.B.**: Guest Lecturer. Spinal Arthroplasty. 54th Congress of Neurological Surgeons Annual Meeting, San Francisco, California, October 16-21, 2004.

253. 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.
254. 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.
255. **Delamarter, R.B.**: Guest Lecturer. Total Disc Replacement. Northwestern University Grand Rounds, Chicago, Illinois, October 29, 2004.
256. 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.
257. 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.
258. **Delamarter, R.B.**: Guest Lecturer. Prodisc Cervical. 2nd Trans Atlantic Spine Congress, Dallas, Texas, November 12-13, 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. 4th 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 9th 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. 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 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., Xiao, 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, MS, 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., MPH, Pradhan, B.B., Kanim, L.E.A., MA, **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., MS, 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., MA, 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., MA, 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., MPH, 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.

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., MA, **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., MA, **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., MA, **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., MS, 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, MPF, Kanim, L.E.A.,MA, **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.,MS, 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.,MS, **Delamarter, R.B.:** Motion-Preserving Dynamic Stabilization of the Lumbar Spine: Early Results from the U.S. Clinical Trail 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.,MA, 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.,MA, 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, MA, **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., MS, **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., MS, **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., MS, 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., MS, 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., MS, 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 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., MS, 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., MS, **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.,MS, **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.,MS, **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., 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 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, M.A., Bae, H.: Spinal Alignment after 1to 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., Zhao, L., Kanim, L.E.A.,MS, Bae, H., **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 Annual Meeting, San Diego, CA Feb. 2007.
46. Pradhan, B.B., Shen, M., Bae, H., 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. Orthopaedic Research Society Annual Meeting, San Diego, CA Feb. 2007.

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.

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., 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 - Present 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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