



BEN B. PRADHAN, M.D., M.S.E.

Orthopaedic Spine Surgeon

Ben B. Pradhan, M.D., M.S.E. is an orthopaedic surgeon Board Certified in spine surgery for the treatment of cervical, thoracic, and lumbar spinal disease.

Dr. Pradhan began his studies at Princeton University, where he graduated with honors from the Department of Aerospace Engineering and the Department of Applied Mathematics. He went on to earn a Master of Science degree in Engineering with honors from the UCLA Graduate School of Engineering and Applied Sciences. Later he earned a Medical Degree, with a Dean's Scholar recognition, at the UCLA School of Medicine. Dr. Pradhan completed both his surgical internship and orthopaedic surgical residency at the UCLA Medical Center in Los Angeles. He completed his spine surgery fellowship at THE SPINE INSTITUTE in Santa Monica, California.

Dr. Pradhan, as Director of Clinical Research at THE SPINE INSTITUTE, is extensively involved in research within the field of spine surgery. He has authored multiple articles based on his research and presented his work at numerous national and international meetings. He is especially interested in the biomechanical analysis of spinal prostheses (artificial discs, dynamic stabilization, etc) and other spinal constructs. He is an active member of the American Academy of Orthopaedic Surgeons and the North American Spine Society.

Ben B. Pradhan, M.D., M.S.E.
Curriculum Vitae

Wife: Dimple Bhasin, MD

Children: None

TRAINING

American Board of Orthopaedic Surgeons

Board Certified in Orthopaedic Spine Surgery

THE SPINE INSTITUTE, Santa Monica, Spine Surgery Fellowship

Santa Monica, CA

UCLA Medical Center, Orthopaedic Surgery Residency

Los Angeles, CA

UCLA Medical Center, Surgical Internship

Los Angeles, CA

EDUCATION

UCLA Geffen School of Medicine, Doctor of Medicine

Los Angeles, CA

Deans Scholar – AOA, Biomechanics Research

Honors Research Thesis in Biomechanical Modeling of the Spine

UCLA School of Aerospace Engineering, Master of Science in Engineering

Los Angeles, CA

Minor in Biomedical Systems Modeling

Most Outstanding Graduate Engineering Student Nominee

Princeton University, Bachelor of Science in Aerospace Engineering

Princeton, NJ

Minor in Applied Mathematics

Graduated with high honors, Tau Beta Pi, Sigma Chi, McDonnell Douglas Aerospace Scholar

Washington International School, International Baccalaureate Diploma

Washington, DC

Class Valedictorian, Best Science Student, Mayor's Award Washington DC

HONORS AND AWARDS

1. AOA Emerging Leaders Program

American Orthopaedic Association, 2006

Rosemont, IL

2. New Investigator Recognition Award Finalist, Orthopaedic Research Society

“3 And 4-Level Anterior Cervical Discectomy and Fusion With rhBMP-2, Allograft, And Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation, And Complications.”

Ben B Pradhan, Michael S Shen, Hyun W Bae, Michael A Kropf, Rick B Delamarter

53rd Annual Meeting in San Diego, CA, Feb 2007.

3. Russell Hibbs Award for Best Basic Science Presentation Finalist, Scoliosis Research Society

“Worst Case Scenario For BMP-2 Mediated Gene Therapy In Posterolateral Fusion.”

Hyun W Bae, Li Zhao, **Ben B Pradhan**, Pamela Wong, Linda Kanim, Jeffrey C Wang, Rick B Delamarter
41st Annual Meeting in Monterey, CA, Sept 2006.

4. Leon Wiltse Best Clinical Paper Award, Spinal Arthroplasty Society

“Lumbar Total Disc Replacement: A 2 to 3 Year Report from 2 Centers in the United States Clinical Trial for the ProDisc-L Prosthesis.”

RB Delamarter, JE Zigler, HW Bae, BL Sachs, RF Rashbaum, DD Ohnmeiss, LEA Kanim, **BB Pradhan**
5th Annual Meeting in New York, NY, May 2005.

5. John H Moe Award for Best Scientific Exhibit, Scoliosis Research Society

“Controlling Bone Morphogenetic Protein-Stimulated Bone Growth using Fibrin Glue.”

VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
39th Annual Meeting in Buenos Aires, Argentina, Sept 2004.

6. Basic Science Paper Award Winner, Cervical Spine Research Society

“Worst Case Scenario for BMP-2 Mediated Gene Therapy in Posterolateral Fusion.”

HW Bae, L Zhao, P Wong, **BB Pradhan**, LEA Kanim, JC Wang, RB Delamarter
33rd Annual Meeting in San Diego, CA, Dec 2005.

7. Clinical Paper Award Winner, Cervical Spine Research Society

“Cervical Disc Replacement: Longer-Term (2-year) Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.”

RB Delamarter, MD, HW Bae, MD, MA Kropf, MD, LEA Kanim, MS, **BB Pradhan**, MD, MSE
33rd Annual Meeting in San Diego, CA, Dec 2005.

8. Top Poster – Best Scientific Poster Award

International Meeting for Advanced Spinal Techniques, Athens, Greece Jul 2006.

“Dynamic Posterior Lumbar Stabilization with the Dynesys Device.”

Ben B Pradhan, MD MSE; Hyun W. Bae, MD; Linda EA Kanim, MA; Rick B. Delamarter, MD

9. Thomas Whitecloud Basic Science Research Award Finalist

International Meeting for Advanced Spinal Techniques, Athens, Greece Jul 2006.

“Bone Marrow Enhances the Performance of rhBMP-2.”

HW Bae, **BB Pradhan**, LEA Kanim, L Zhao, P Wong, JC Wang, RB Delamarter

10. Thomas Whitecloud Basic Science Research Award Finalist

International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.

“Cellular Environments can alter Performance of rhBMP-2 and Induce Pseudarthrosis.”

HW Bae, LEA Kanim, L Zhao, P Wong, **BB Pradhan**, RB Delamarter

11. Thomas Whitecloud Basic Science Research Award Finalist

International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.

“Recovery of Function Following Experimental Lumbar Spinal Cord Injury in Rats.”

HW Bae, LEA Kanim, L Zhao, P Wong, **BB Pradhan**, RB Delamarter

12. American Board of Orthopaedic Surgeons, Board Certified

In top 20 among national board examinees, 2003

13. UCLA Geffen School of Medicine, Los Angeles, CA

Honors Thesis Program, 1998

Recognized as Dean’s Scholar, 1998

Nominated for Alpha Omega Alpha, Biomechanics Research Award, 1997

UCLA Short Term Training Program Research Award, Orthopaedic Biomechanics, 1995

14. UCLA Graduate School of Mechanical and Aerospace Engineering

Most Outstanding Graduate Student Nominee, 1994
University of California Chancellor's Fellowship Recipient, 1992
UC Departmental CAMP Fellowship for Engineering, 1993
Hortense Fishbaugh Memorial Fellowship, 1993

15. Princeton University School of Engineering and Applied Science, Princeton, NJ

Graduated with honors, 1992
Thesis Honors – Sigma Chi National Research Honor Society, 1992
Nominated to Tau Beta Pi National Engineering Honor Society, 1991
Dean's List, Department of Aerospace Engineering
McDonnell Douglas Aerospace Scholar, 1991
US Air Force ROTC Scholarship, 1990
Princeton University Scholarship, 1988 - 1992

16. Washington International School, Washington, DC

Class Valedictorian, 1988
International Baccalaureate Diploma
District of Columbia Mayor's Award for Academic Distinction
Headmaster's Award and Best Science Student Award
National Merit Scholar Finalist

WORK AND RESEARCH EXPERIENCE

Spine Research Foundation, 2003 – now
Director of Clinical Research
Spine Surgery Fellowship Application Coordinator
The Spine Institute, Santa Monica
Los Angeles, CA

UCLA Department of Orthopaedic Surgery, 1994 – 2003
Medical Student Thesis and Resident research projects
Biomechanics Division
Los Angeles, CA

UCLA School of Engineering and Applied Science, 1992 – 1994
Graduate Researcher and Teaching Assistant
Department of Aerospace Engineering
Los Angeles, CA

McDonnell Douglas Corporation, 1991
Research Intern, F-18 Project, Computational Fluid Dynamics
Military Aircraft Division
St Louis, MO

Princeton University School of Engineering and Applied Sciences
Thesis and Fluid Mechanics research projects
Department of Aerospace Engineering
Princeton, NJ

UCLA Department of Prosthetics and Orthotics, 1993
Assistant technician
Los Angeles, CA

Quidel Pharmaceuticals Company, 1989
Assistant technician
San Diego, CA

PUBLICATIONS

1. The Basis for Nucleus Replacement Surgery: Current Techniques, 2007.
Nucleus Arthroplasty in Spinal Care, Book III: Surgical Techniques and Technologies
Edward H Chung MD, **Ben B Pradhan MD MSE**, Hyun W Bae MD
2. Cervical Total Disc Arthroplasty – PRODISC-C
BB Pradhan MD MSE, RB Delamarter MD
Motion Preservation Surgery Of The Spine: Advanced Techniques And Controversies
Eds: James J. Yue, Rudolf Bertagnoli, Paul McAfee, & Howard An, 2006.
3. Lumbar Total Disc Arthroplasty – PRODISC-L
BB Pradhan MD MSE, RB Delamarter MD
Motion Preservation Surgery Of The Spine: Advanced Techniques And Controversies
Eds: James J. Yue, Rudolf Bertagnoli, Paul McAfee, & Howard An, 2006.
4. Conventional Fluoroscopic Techniques in Spine Surgery
BB Pradhan, MD MSE
Seminars in Spine Surgery. Eds: Vaccaro and Whang, 2006
5. Imaging Techniques for the Osteoporotic Spine.
BB Pradhan, MD MSE
Seminars in Spine Surgery. Eds: Balderston and Auerbach, 2006
6. Noninterventional Management (Watchful Waiting) for Low Back Pain.
BB Pradhan, MD MSE
The Spine Journal – Special Supplement on Nonsurgical Care of Chronic Low Back Pain, 2007.
7. Osteoporosis of the spine and compression fractures.
BB Pradhan, MD
Textbook: American Academy of Orthopaedic Surgeons: Orthopaedic Board Review. Ed:JR Lieberman, 2006.
8. Does Autologous Bone Marrow Aspirate Enhance Graft Effectiveness for Spinal Fusion?
HW Bae MD, LEA Kanim MA, **BB Pradhan MD MSE**, E Spayde MD, P Wong BS, L Zhao MD PhD, RB Delamarter MD
Scientific Journal: *Seminars in Spine Surgery*, Spring 2006
9. Management of Cervical Pseudarthrosis.
RB Delamarter MD, **BB Pradhan MD MSE**, VV Patel MA MD
Textbook: *Complications in Spine Surgery*. L Jenis, et al, eds, 2006.
10. The Anterior Approach to the Lumbar Spine.
RB Delamarter MD, **BB Pradhan MD MSE**
Textbook: *Spine Surgery: Tricks of the Trade*. Eds: AR Vaccaro and T Albert. 2nd Edition, Elsevier, 2006.
11. Artificial Discs and their Clinical Track Record.

- RB Delamarter MD, **BB Pradhan** MD MSE
Textbook: *Innovations in Spinal Reconstruction: Clinical Examples of Basic Science, Biomechanics, and Engineering*. Eds: KU Lewandrowski, P Park, RF McLain, IH Kalfas, MJ Yaszemski, and DJ Trantolo. Taylor & Francis Group, New York, NY, 2006.
12. Cervical Arthroplasty: ProDisc-C.
RB Delamarter MD, **BB Pradhan** MD MSE
Textbook: *Spinal Arthroplasty: Preservation of Motion*. Ed: AR Vaccaro MD. Elsevier, 2005.
 13. Microscopic Lumbar Discectomy and Rehabilitation.
RB Delamarter MD, **BB Pradhan** MD MSE
Textbook: *Rehabilitation for the Post-Surgical Orthopedic Patient*. Eds: L Maxey and J Magnuson. Elsevier, Philadelphia, PA, 2006.
 14. Anterior Cervical Discectomy and Fusion and Rehabilitation.
RB Delamarter MD, **BB Pradhan** MD MSE, JT Huffman MD
Textbook: *Rehabilitation for the Post-Surgical Patient*. Eds: L Maxey and J Magnuson. Elsevier, Philadelphia, PA, 2006.
 15. Clinical Outcomes, Range of Motion, and Cervical Alignment after Cervical Disc Replacement with ProDisc-C.
RB Delamarter MD, HW Bae MD, MA Kropf MD, LEA Kanim MD, **BB Pradhan** MD MSE
Accepted for publication in *The Journal of Neurosurgery: Spine*.
 16. Cervical Disc Replacement – Intermediate (18-Month) Follow-Up of Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis.
RB Delamarter, MD; HW Bae, MD; MA Kropf, MD; LEA Kanim, MA; **BB Pradhan**, MD MSE
Accepted for publication in *The Journal of Spinal Disorders and Techniques*.
 17. Kyphoplasty Reduction of Osteoporotic Vertebral Compression Fractures: Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
Scientific Journal: *SPINE*. 2006 Feb;31(4):435-41.
 18. Computed tomography assessment of the accuracy of in vivo placement of artificial discs in the lumbar spine including radiographic and clinical consequences.
VV Patel, C Andrews, LEA Kanim, **BB Pradhan**, MA Kropf, HW Bae, RB Delamarter
Scientific Journal: *SPINE*. 2006 Apr 15;31(8):948-53.
 19. Controlling bone morphogenetic protein diffusion and bone morphogenetic protein-stimulated bone growth using fibrin glue.
VV Patel MA MD, L Zhao MD PhD, P Wong BS, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
Scientific Journal: *SPINE*. 2006 May 15;31(11):1201-6.
 20. An in vitro and in vivo analysis of fibrin glue use to control bone morphogenetic protein diffusion and bone morphogenetic protein-stimulated bone growth.
VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
Scientific Journal: *The Spine Journal*. 2006 Jul-Aug;6(4):397-403.
 21. A Metatarsal Equivalent to the Metacarpal Index in Marfan's Syndrome?
BB Pradhan, MD MSE; NY Otsuka, MD
Scientific Journal: *Foot and Ankle International*. 2005 Oct;26(10):881-5.
 22. Clinical Results after Lumbar Total Disc Replacement: an Interim Report from the United States Clinical Trial for the ProDisc-II Prosthesis

- Rick B. Delamarter, MD, Hyun W. Bae, MD, and **Ben B. Pradhan**, MD, MSE,
Scientific Journal: *Orthopedic Clinics of North America*, 2005 36:301-313.
23. Capitellar Fracture in a Child: The Value of an Oblique Radiograph.
BB Pradhan, MD MSE; D Bhasin, MD; W Krom, MD
Scientific Journal: *Journal of Bone and Joint Surgery Am*, 2005 Mar;87-A(3):635-8.
 24. Surgical Decompression for Herniated Nucleus Pulposus
RB Delamarter MD, **BB Pradhan** MD MSE
Textbook: *Interventional Spine: an algorithmic approach*. Slipman C, Simeone F, Derby, R [Eds] 2004.
 25. Indications for Cervical Spine Prostheses - Early Experiences with Prodisc-C in The USA
RB Delamarter MD, **BB Pradhan** MD MSE
Scientific Journal: *SpineArt*. Vol 1, May 2004.
 26. Surgical Management of Lumbar Disc Degeneration – Total Disc Replacement
RB Delamarter MD, **BB Pradhan** MD MSE
Scientific Journal: *Biomechanics Magazine*. May 2004.
 27. Complications of Lumbar Interbody Fusion Cages.
BB Pradhan, MD MSE, JC Wang, MD
Textbook: *Complications of pediatric and adult spinal surgery*. Vaccaro A, Anderson DG, Crawford A, et al, eds. 2004.
 28. Misrepresentation of Research Publications Among Orthopaedic Surgery Fellowship Applicants.
BB Pradhan, MD MSE; MV Patel, MD; RA Meals, MD
Scientific Journal: *SPINE*. 2003 April;28(7):632-636.
 29. Instrumented Single Level Lumbar Intervertebral Fusion: A Comparison of Anterior and Posterior Approaches.
BB Pradhan, MD MSE; JA Nassar, MD; RB Delamarter, MD; JC Wang, MD
Scientific Journal: *J Spinal Disord Tech*. 2002 Oct;15(5):355-61.
 30. The Chinese-Uighur Calendar in Tusi's Zij-I Ilkhani.
BV Dalen, PhD; ES Kennedy, PhD; MK Saiyid, MA; technical illustrations by **BB Pradhan**, MSE
Department of Mathematics, Princeton University
Textbook: *Zeitschrift fur die Geschichte, Der Arabisch-Islamischen Wissenschaften, Band 11-1997 [German]*.
 31. Evaluation and Report of the NASA VTXCHN Computational Fluid Dynamics Flow-Predicting Code: The F-18 Aircraft Wing Leading Edge Extension.
BB Pradhan, MSE; M Barnett, MSE; W Ely, PhD Eng (*F-18 Project Report to NASA*)
Published Aug 1991, by the Aerotechnology Group, McDonnell Douglas Corp, Military Aircraft Division, St. Louis, MO.
 32. Semi-Constrained Single and Two-Level Lumbar Total Disc Replacements for Degenerative Disc Disease: 2 to 3-Year Results From One Site in the United States Clinical Trials for the ProDisc-L Prosthesis.
RB Delamarter MD, HW Bae MD, MA Kropf MD, LEA Kanim MA, **BB Pradhan** MD MSE
Submitted for publication.
 33. Artificial Disc Replacement as a Salvage Procedure for Failed Back Surgery Syndrome: Results with a Semi-Constrained Prosthesis (ProDisc-L) for One and Two-Level Disease.

- RB Delamarter MD, HW Bae MD, MA Kropf MD, VV Patel MA MD, LEA Kanim MA, **BB Pradhan** MD MSE
Submitted for publication.
34. Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up.
BB Pradhan, MD MSE; HW Bae, MD; VV Patel, MD; MA Kropf, MD; L Zhao, MD PhD; P Wong, BS; RB Delamarter, MD
Submitted for publication.
35. Radiographic Characterization of Anterior Cervical Discectomy and Fusion using Allograft, rhBMP-2, and Plate
BB Pradhan, MD MSE; HW Bae, MD; MA Kropf, MD; VV Patel, MD; RB Delamarter, MD
Submitted for publication.
36. Graft resorption with the use of bone morphogenetic protein: lessons from anterior lumbar interbody fusion using femoral ring allografts and recombinant human bone morphogenetic protein-2.
BB Pradhan MD MSE, RB Delamarter MD, HW Bae MD, VV Patel MD, MA Kropf MD, EG Dawson MD
Scientific Journal: *SPINE*. 2006 May 1;31(10):E277-84.
37. Lumbar Disc Degeneration in Women and Advances in Management – Total Disc Replacement
BB Pradhan MD MSE, VV Patel MD, HW Bae MD, MA Kropf, RB Delamarter MD
Submitted for publication.
38. The Development of Lumbar Spine Arthroplasty
RB Delamarter MD, **BB Pradhan** MD MSE
Submitted for publication.
39. Cervical Spine Motion after Disc Replacement.
VV Patel MD, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
Submitted for publication.
40. Floating and Fixed Center of Rotation Intervertebral Prostheses - Biomechanical Comparison
VV Patel, J Welcher, HW Bae, RB Delamarter, **BB Pradhan**, T Hedman
Submitted for publication
41. Loading Characteristics of Femoral Ring Allografts for Anterior Lumbar Interbody Fusion.
BB Pradhan, MD MSE; JC Wang, MD
Submitted for publication.
42. The Cellular Environment can Affect BMP Osteoinductivity and Induce Pseudarthrosis.
HW Bae MD, L Zhao MD PhD, LEA Kanim MA, P Wong BS, **BB Pradhan** MD, RB Delamarter MD
Submitted for publication.
43. Toradol use for Post-Operative Pain Control in Spine Patients: Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; CA Kuhns, MD; JC Wang, MD; EG Dawson, MD
Submitted for publication.
44. UCLA School of Medicine Thesis: A Virtual Model of a Spine Motion Segment using Computerized 3-D Finite Element Analysis.
Bio mechanics Division, UCLA Department of Orthopaedic Surgery
BB Pradhan, MD MSE; H Sandhu, MD; JM Kabo, PhD

45. Graft resorption with rhBMP-2 in anterior cervical discectomy and fusion: a radiographic characterization of the effect of rhBMP-2 on structural allografts
Pradhan BB, Bae HW, Kropf MA, Patel V, Delamarter RB
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Pages S42-S43)
46. 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
Pradhan BB, Bae HW, Kropf MA, Patel VV, Zhao L, Wong P, Delamarter RB
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Page S55)
47. 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
Patel VV, **Pradhan BB**, Andrews C, Bae HW, Kanim LEA, Delamarter RB
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Pages S116-S117)
48. Comparison of outcomes after lumbar artificial disc replacement surgery in worker's compensation vs. noncompensation patients
Delamarter RB, Lam L, Bae HW, **Pradhan BB**
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Pages S117-S118)
49. Lumbar total disc replacement: a 2 to 3 year report from 2 centers in the United States clinical trial for the Prodisc-II prosthesis
Delamarter RB, Zigler J, Ohnmeiss D, Kanim LEA, **Pradhan BB**
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Pages S157-S158)
50. Artificial disc replacement as a salvage treatment for failed back syndrome
Delamarter RB, Rudin B, Bae HW, Kanim LEA, **Pradhan BB**
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Page S159)
51. Cervical disc replacement—intermediate-term follow-up (1 to 2 years) of range of motion and clinical outcomes with the ProDisc-C prosthesis
Delamarter RB, Bae HW, Kanim LEA, Lam L, **Pradhan BB**
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Page S161)
52. Restoration and maintenance of coronal and sagittal lumbar spinal alignment with a semi-constrained multi-level lumbar total disc arthroplasty (Prodisc-II)
Pradhan BB, Bae HW, Kanim LEA, Kamrava E, Delamarter RB
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Page S162)
53. Disc height restoration and its effect on range of motion and clinical outcome after semi-constrained lumbar total disc replacement (ProDisc-II)
Pradhan BB, Bae HW, Kropf MA, Kanim LEA, Delamarter RB
The Spine Journal
July 2005 (Vol. 5, Issue 4 (Supplement), Pages S164-S165)
54. Princeton University Thesis: Interactive Computer 3-D Simulation of Aircraft Dynamics (Aircraft Simulator).

Department of Aerospace Engineering, Princeton University
BB Pradhan, BSE; R McKillip, PhD

PRESENTATIONS

1. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Podium – 3 to 4-Year Prospective Results of 1, 2, and 3-Level Cervical Arthroplasty with the ProDisc-C Device at a Single Institute.
Ben B Pradhan MD MSE, Hyun W. Bae MD, Linda E.A. Kanim MA, Michael A Kropf MD, Rick B Delamarter MD
2. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Podium – Up to 5-Year Prospective Results of 1, 2, and 3-Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Institute
Ben B Pradhan MD MSE, Hyun W. Bae MD, Linda E.A. Kanim MA, Michael A Kropf MD, Rick B Delamarter MD
3. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Podium – L4-5 Versus L5-S1: Is One More Suited Than the Other for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison.
Ben B Pradhan MD MSE, Hyun W. Bae MD, Linda E.A. Kanim MA, Michael A Kropf MD, Rick B Delamarter MD
4. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Podium – Mass Effect versus Inhibition of rhBMP-2 by Environment (Inorganic Beads versus Fibroblasts) – Implications on BMP for Salvage of Pseudarthrosis or Failed Devices
Ben B Pradhan MD MSE, Hyun W. Bae MD, Linda E.A. Kanim MA, Michael A Kropf MD, Rick B Delamarter MD
5. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Poster – The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury
Hyun W. Bae MD, Linda E.A. Kanim MA, **Ben B Pradhan** MD MSE, Michael A Kropf MD, Rick B Delamarter MD
6. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Poster – Randomized Trial of a new Bone Cement (CORTOSS) vs. PMMA for Vertebroplasty: Prospective Results at a Single Institute
Ben B Pradhan MD MSE, Hyun W. Bae MD
7. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Berlin, Germany, May 2007.
Poster – Effect of HydroxyApatite (HA) Coating on the Screw-Bone Interface in the DYNESYS® System.
BB Pradhan, HW Bae, S Vishnubhotla, L Jensen, J Dawson, RB Delamarter
8. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
A Biomechanical Comparison of Vertebroplasty and Kyphoplasty in Treating Vertebral Compression Fractures Through Clinical Experience in Two Pilot Studies Using CORTOSS®.
Podium – **Ben B Pradhan** MD MSE, Hyun W Bae MD
9. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.

- Up to 5-Year Prospective Results of 1, 2, and 3-Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Institute.
Podium – **BB Pradhan** MD MSE, M Kropf MD, H Bae MD, L Kanim MA, RB Delamarter MD
10. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
Mass Effect versus Biologic Inhibition of rhBMP-2 Activity by Cellular Environment (Inorganic Polyethylene Beads versus Fibroblasts) – Implications on use of BMP for Salvage or Pseudarthrosis or Failed Devices.
Special Emphasis Poster – **BB Pradhan**, HW Bae, L Zhao, M Kropf, LEA Kanim, RB Delamarter
 11. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
Effect of HydroxyApatite (HA) Coating on the Screw-Bone Interface in the DYNESYS[®] System.
Special Emphasis Poster – **BB Pradhan**, HW Bae, S Vishnubhotla, L Jensen, J Dawson, RB Delamarter
 12. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
Variability due to Lot of a Commercially Available Demineralized Bone Matrix for Spinal Fusion.
H Bae, L Zhao, L Kanim, **BB Pradhan**, P Wong, M Kropf, R Delamarter
 13. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
The Effect of BMP's on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury.
H Bae, L Zhao, **BB Pradhan**, P Wong, L Kanim, J Wang, R Delamarter
 14. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
L4-5 versus L5-S1: Is One More Suited than the Other for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison.
BB Pradhan, HW Bae, MA Kropf, RB Delamarter
 15. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
Randomized Trial of a New Bone Cement (CORTOSS[®]) versus PMMA for Vertebroplasty: Prospective Results in a Single Institute.
BB Pradhan, A Carino, L Kanim, H Bae
 16. Orthopaedic Research Society Annual Meeting, San Diego, CA, Feb 2007.
3 And 4-Level Anterior Cervical Discectomy and Fusion With rhBMP-2, Allograft, And Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation, And Complications.
Ben B Pradhan, Michael S Shen, Hyun W Bae, Michael A Kropf, Rick B Delamarter
 17. Orthopaedic Research Society Annual Meeting, San Diego, CA, Feb 2007.
Effect of Hydroxyapatite (HA) Coating on the Screw-Bone Interface in the DYNESYS system.
Sri Vishnubhotla, Rick B Delamarter, **Ben B Pradhan**, Hyun W Bae, Laura M Jensen, John M Dawson
 18. Orthopaedic Research Society Annual Meeting, San Diego, CA, Feb 2007.
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.
Poster - **Ben B Pradhan**, Li Zhao, LEA Kanim, Hyun W Bae, Rick B Delamarter
 19. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb 2007.
Overall Results of the Prospective, Randomized Multi-Center IDE Trial of ProDisc-L vs. Lumbar Fusion
Podium – Delamarter RB, **Pradhan BB**, et al.
 20. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb 2007.
1 to 3 Level Cervical Disc Replacements Prospective Clinical Outcomes with ProDisc-C

- Poster –**Pradhan BB**, Kanim LEA, Bae HW, Kropf MA, Delamarter RB
21. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb 2007.
The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury.
Hyun W Bae, MD, Li Zhao, MD, PhD, **Ben B Pradhan**, MD, MSE, Pamela Wong, MPH, Linda EA Kanim, MS, Jeffrey C Wang, MD, Rick B Delamarter, MD
 22. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb 2007.
Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes with ProDisc-C
Poster –**Pradhan BB**, Kanim LEA, Bae HW, Kropf MA, Delamarter RB
 23. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Podium - The Effect of BMPs on the Expression of GAP-43 and Caspase-3 During Spinal Cord Injury.
Ben B Pradhan, MD, MSE, Hyun W Bae, MD, Li Zhao, MD, PhD, Pamela Wong, MPH, Linda EA Kanim, MS, Jeffrey C Wang, MD, Rick B Delamarter, MD
 24. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Podium – 1 Versus 2 Versus 3-Level Cervical Artificial Disc Replacements: A Prospective Report of Clinical Outcomes with the the PRODISC-C Device.
Ben B Pradhan, MD, MSE, Hyun W Bae, MD, Michael A Kropf, MD, Linda EA Kanim, MS, Rick B Delamarter, MD
 25. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Podium – Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes and Range of Motion Follow-Up with the PRODISC-C Artificial Disc.
Rick B Delamarter, MD, **Ben B Pradhan**, MD, MSE, Michael A Kropf, MD , Linda EA Kanim, MS, Hyun W Bae, MD
 26. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Poster - Spinal Alignment After 1 to 3-Level Cervical Disc Replacement: (ProDisc-C) Versus Fusion: Segmental and Overall Coronal and Sagittal Alignment
Rick B Delamarter MD, **Ben B Pradhan MD MSE**, Michael A Kropf MD, Hyun W Bae MD
 27. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Poster - 3 and 4-Level Anterior Cervical Fusion with rhBMP-2, Allograft, and Dynamic Plate: Fusion rates, Subsidence, Radiographic Incorporation, and Complications
Ben B Pradhan MD MSE, Michael A Shen MD, Hyun W Bae MD, Rick B Delamarter MD
 28. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec 2006.
Poster - 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
Ben B Pradhan MD MSE, Hyun W Bae MD, Li Zhao MD PhD, Linda EA Kanim MA, Rick B Delamarter MD
 29. Congress of Neurological Surgeons Annual Meeting, Chicago, IL, Oct 2006.
Poster - Prospective randomized trial of CORTOSS versus PMMA in the treatment of vertebral compression fractures; preliminary results at a single institution.
BB Pradhan, MS Shen, HW Bae
 30. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Podium - Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis.
RB Delamarter, HW Bae, MA Kropf, LEA Kanim, **BB Pradhan**

31. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Podium - 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
Ben B Pradhan, Rick B Delamarter, Hyun W Bae
32. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Podium – Clinical Outcomes after 1 to 3-Level Cervical Disc Replacement with a Semi-Constrained Prosthesis.
Ben B Pradhan, Rick B Delamarter, MA Kropf, LEA Kanim, Hyun W Bae
33. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Podium - Anterior Lumbar Interbody Fusion Rates In One-Year Follow-Up Of Two Level Stand-Alone BAK Cages With Adjuvant rhBMP-2
EC Spayde, HW Bae, **BB Pradhan**, LEA Kanim, M Schiffman, RB Delamarter
34. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Podium - Does bone marrow enhance rhBMP-2 effectiveness for spinal fusion?
HW Bae, **BB Pradhan**, MA Kropf, LEA Kanim, RB Delamarter
35. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
1 versus 2 versus 3-level lumbar artificial disc replacement – a prospective report of clinical outcomes with the ProDisc-L device - Poster
BB Pradhan, HW Bae, MA Kropf, LEA Kanim, RB Delamarter
36. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
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 - Poster
Ben B Pradhan, Hyun Bae, Michael Kropf, Linda Kanim, Rick Delamarter
37. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct 2006.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty(ProDisc-L) - Poster
Ben B. Pradhan, MD MSE; HW. Bae, MD; Linda E.A. Kanim, MS; Rick B. Delamarter, MD
38. Scoliosis Research Society Annual Meeting, Monterey, CA, Sept 2006.
Worst Case Scenario for Cell-Mediated BMP-2 Gene Therapy in Posterolateral Fusion.
HW Bae, L Zhao, P Wong, JC Wang, LEA Kanim, **BB Pradhan**, RB Delamarter
39. Scoliosis Research Society Annual Meeting, Monterey, CA, Sept 2006.
Characteristics of BMP adsorption by absorbable collagen sponges *in vivo* and *in vitro*.
Hyun W. Bae MD, Li Zhao MD, **Ben B. Pradhan** MD MSE, Pamela Wong MD, Linda Kanim MD, Rick B. Delamarter MD
40. Scoliosis Research Society Annual Meeting, Monterey, CA, Sept 2006.
PRODISC-L Lumbar Disc Replacement – Results from the US FDA Clinical Trial.
BB Pradhan, HW Bae, MA Kropf, RB Delamarter
41. Scoliosis Research Society Annual Meeting, Monterey, CA, Sept 2006.
Single Level Artificial Disc Replacement at L4-5 Versus L5-S1: Is There Any Difference in Technique, Morbidity, or Result? - Poster
M Shen MD, HW Bae MD, MA Kropf MD, RB Delamarter MD, **BB Pradhan** MD
42. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.

- Podium - Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis.
RB Delamarter, HW Bae, MA Kropf, LEA Kanim, **BB Pradhan**
43. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Charité-III versus ProDisc-L Early Head to Head Results at a Single Institute - Poster
E Spayde, **BB Pradhan**, HW Bae, M Shen, RB Delamarter
 44. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Single level artificial disc replacement at L4-5 versus L5-S1 - is there any difference in technique, morbidity, or result? – Poster
M Shen, **BB Pradhan**, HW Bae, MA Kropf, E Spayde, RB Delamarter
 45. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Podium - Clinical Experience Using a Novel Bio-Ceramic for Treating Vertebral Compression Fractures, with One to Two Year Follow-Up.
MS Shen MD, HW Bae MD, **BB Pradhan MD MSE**, et al.
 46. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Podium - The Effect of BMPs on the Expression of GAP-43 and Caspase-3 during Spinal Cord Injury.
HW Bae MD, L Zhao MD PhD, P Wong MPH, LEA Kanim MS, JC Wang MD, **BB Pradhan MD MSE**, RB Delamarter MD.
 47. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
1 versus 2 versus 3-level lumbar artificial disc replacement – a prospective report of clinical outcomes with the ProDisc-L device - Poster
RB Delamarter, HW Bae, MA Kropf, LEA Kanim, M Shen, **BB Pradhan**
 48. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Podium - 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.
BB Pradhan, HW Bae, MA Kropf, LEA Kanim, RB Delamarter
 49. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Podium - 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.
HW Bae, **BB Pradhan**, MA Kropf, LEA Kanim, RB Delamarter
 50. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Charite III versus ProDisc-L: Comparison of intraoperative intervertebral distraction between a non-constrained versus a semi-constrained lumbar total disc replacement – Poster
BB Pradhan, HW Bae, MA Kropf, RB Delamarter
 51. North American Spine Society, Annual Meeting, Seattle, WA, Sept 2006.
Podium - Worst Case Scenario for Cell-Mediated BMP-2 Gene Therapy in Posterolateral Fusion.
HW Bae, L Zhao, P Wong, JC Wang, LEA Kanim, **BB Pradhan**, RB Delamarter
 52. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Single level artificial disc replacement at L4-5 versus L5-S1: Is there any difference in technique, morbidity, or result?
Michael Shen MD, **Ben B. Pradhan MD MSE**, Hyun W. Bae MD, Michael Kropf MD, Rick B. Delamarter MD
 53. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Bone Marrow Enhances The Performance of RhBMP-2.

- Hyun W. Bae MD, Li Zhao MD, **Ben B. Pradhan** MD MSE, Pamela Wong MD, Linda Kanim MD, Jeffrey C. Wang MD, Rick B. Delamarter MD
54. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.
Hyun W. Bae MD, **Ben B. Pradhan** MD MSE, Michael Kropf MD, Linda Kanim MD, Rick B. Delamarter MD
55. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Return to Work Outcomes After Lumbar Artificial Disc Replacement – Using a Standardized Evaluation Questionnaire.
Ben B. Pradhan MD, MSE, Erik Spayde MD, Hyun Bae MD, Tejal Shah MD, Tanzib Hussein MD, Rick B. Delamarter MD
56. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
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.
Ben B. Pradhan MD MSE, Hyun W. Bae MD, Linda Kanim MD, Michael Kropf MD, Rick B. Delamarter MD
57. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Charité-III versus ProDisc-L Early Head to Head Results in a Single Institute.
Erik Spayde MD, **Ben B. Pradhan** MD MSE, Hyun W. Bae MD, Michael Kropf MD, Rick B. Delamarter MD
58. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Analysis of rhBMP-2 Retention in Absorbable Collagen Sponges and Diffusion Patterns in a Simulated in Vivo Environment.
Hyun W. Bae MD, Rick Delamarter MD, Li Zhao MD, Pamela Wong MD, Linda Kanim MD, **Ben B. Pradhan** MD MSE
59. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Worst Case Scenario For BMP-2 Mediated Gene Therapy In Posterolateral Fusion - Poster
Hyun W Bae, Li Zhao, **Ben Pradhan**, Pamela Wong, Linda Kanim, Jeffrey Wang, Rick Delamarter
60. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Charite-III Versus ProDisc-L: Comparison Of Intraoperative Intervertebral Distraction Between A Non-Constrained Versus A Semi-Constrained Lumbar Total Disc Replacement - Poster
Ben B Pradhan, Hyun Bae, Erik Spayde, Rick Delamarter
61. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
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 - Poster
Rick B Delamarter , Hyun W Bae, **Ben B Pradhan**
62. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Bone Morphogenetic Protein-2 Retention In A Vertebral Body Fracture Stabilization Device (OptiMesh) - Poster
Hyun W Bae, Li Zhao, **Ben Pradhan**, Pamela Wong, Linda Kanim, Michael Kropf, Rick Delamarter
63. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacements: A Prospective Report Of Clinical Outcomes With The ProDisc-C Device - Poster

- Hyun W Bae, **Ben B Pradhan**, Linda Kanim, Michael Kropf, Rick Delamarter
64. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
1 Versus 2 Versus 3–Level Cervical Artificial Disc Replacements – A Prospective Report Of Clinical Outcomes With The ProDisc-C Device - Poster
Hyun W Bae, **Ben B Pradhan**, Linda Kanim, Michael Kropf, Rick Delamarter
 65. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
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 - Poster
Ben B Pradhan, Hyun Bae, Michael Kropf, Linda Kanim, Rick Delamarter
 66. International Meeting for Advanced Spinal Techniques, Athens, Greece, Jul 2006.
Dynamic Posterior Stabilization of the Lumbar Spine: Results from the US Clinical Trial with the Dynesys System
Ben B Pradhan, Hyun W Bae, Linda Kanim, Rick Delamarter
 67. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
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.
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Michael A. Kropf, MD; Rick B. Delamarter , MD
 68. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Cervical Disc Replacement: 2-3 Year Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.
Hyun W. Bae, MD; **Ben B. Pradhan**, MD MSE; Linda E.A. Kanim, MS; Michael A. Kropf, MD; Rick B. Delamarter , MD
 69. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Dynamic Posterior Stabilization of the Lumbar Spine: Results from the US Clinical Trial with the DYNESYS System - Poster
Hyun W Bae MD, **Ben B Pradhan** MD MSE, Linda EA Kanim MS, Rick B Delamarter MD
 70. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Spinal alignment after 1 to 3-level cervical disc replacement (ProDisc-C) versus fusion – segmental and overall coronal and sagittal alignment - Poster
Ben B Pradhan MD MSE, Hyun W Bae MD, Michael A Kropf MD, Linda EA Kanim MA, Rick B Delamarter MD
 71. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
1 versus 2 versus 3-level lumbar artificial disc replacement – a prospective report of clinical outcomes with the ProDisc-L device - Poster
Rick B Delamarter MD, Hyun W Bae MD, Michael A Kropf MD, Linda EA Kanim MA, **Ben B Pradhan MD MSE**
 72. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome - Poster

- Ben B Pradhan** MD MSE, Hyun W. Bae MD, Linda E.A. Kanim MA, Michael A Kropf MD, Rick B Delamarter MD
73. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Charite III versus ProDisc-L: Comparison of intraoperative intervertebral distraction between a non-constrained versus a semi-constrained lumbar total disc replacement - Poster
Ben B Pradhan MD MSE, Hyun W Bae MD, Michael A Kropf MD, Rick B Delamarter MD
74. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
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.
Ben B Pradhan MD MSE, Hyun W Bae MD, Michael A Kropf MD, Linda EA Kanim MA, Rick B Delamarter MD
75. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
Return to work outcomes after lumbar artificial disc replacement.
BB Pradhan MD MSE, E Spayde MD, HW Bae MD, MA Kropf MD, M Shen MD, RB Delamarter, MD
76. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Gene Therapy For Posterolateral Fusion: Worst Case Scenario.
HW Bae MD, L Zhao MD PhD, P Wong MPH, **BB Pradhan** MD MSE, JC Wang MD, RB Delamarter MD
77. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Return to Work Outcomes After Lumbar Artificial Disc Replacement.
BB Pradhan MD MSE, E Spayde, MD, Hyun W Bae MD, MA Kropf MD, M Shen MD, RB Delamarter MD
78. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome.
BB Pradhan MD MSE, Hyun W Bae MD, LEA Kanim MA, MA Kropf MD, RB Delamarter MD
79. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Does Bone Marrow Enhance rhBMP-2 Effectiveness for Spinal Fusion?.
Hyun W Bae MD, Li Zhao MD PhD, Pamela Wong MPH, LEA Kanim MA, JC Wang MD, **BB Pradhan** MD MSE, RB Delamarter MD
80. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement – A Prospective Report of Clinical Outcomes with the ProDisc-L Device.
BB Pradhan MD MSE, Hyun W Bae MD, LEA Kanim MA, MA Kropf MD, RB Delamarter MD
81. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
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.
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Michael A. Kropf, MD; Rick B. Delamarter , MD
82. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Charite-III Versus ProDisc-L: Comparison of Intraoperative Intervertebral Distraction Between a Non-Constrained Versus a Semi-Constrained Lumbar Total Disc Replacement.

- Ben B. Pradhan**, MD MSE; Hyun W. Bae, MD; Michael A. Kropf, MD; Rick B. Delamarter , MD
83. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Charite-III Versus ProDisc-L: Early Head-to-Head Results at One Institute.
E Spayde MD, **Ben B. Pradhan**, MD MSE; Hyun W. Bae, MD; Michael A. Kropf, MD; M Shen MD, Rick B. Delamarter , MD
 84. International Society for Surgery of the Lumbar Spine, Bergen, Norway, June 2006.
Bone Morphogenetic Protein-2 Retention in a Vertebral Body Fracture Stabilization Device (OptiMesh).
Hyun W. Bae, MD; Li Zhao MD PhD; Pamela Wong MPH; **Ben B. Pradhan**, MD MSE; Linda EA Kanim MA; Rick B. Delamarter , MD
 85. Orthopaedic Research Society Annual Meeting, Chicago, IL, Mar 2006.
Motion-Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System.
Ben B Pradhan, MD MSE; Jason Huffman, MD; Hyun W. Bae, MD; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD
 86. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Comparison Of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-Compensation Patients
RB Delamarter MD, L Lam MPH, HW Bae MD, **BB Pradhan** MD MSE
 87. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion:A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MD; Rick B Delamarter, MD
 88. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty(ProDisc-L).
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evish Kamrava, MD; Rick B. Delamarter, MD
 89. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Comparison of sagittal and coronal alignment of the cervical spine after one to three-level artificial disc replacements (ProDisc-C) versus fusion.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
 90. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Cervical Disc Replacement: Longer-Term (2-year) Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.
Rick B Delamarter, MD, Hyun W Bae, MD, Michael A Kropf, MD, Linda EA Kanim, MS, **Ben B Pradhan**, MD, MSE
 91. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome.
BB Pradhan, MD MSE; Brian Rudin,MD; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Evish Kamrava, MS; Vikas V. Patel, MA MD; Rick B. Delamarter, MD
 92. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.

- Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-Level Disc Replacement Versus Fusion in the Cervical Spine.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
93. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty(ProDisc-L).
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evish Kamrava, MD; Rick B. Delamarter, MD
94. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Comparison of sagittal and coronal alignment of the cervical spine after one to three-level artificial disc replacements (ProDisc-C) versus fusion.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
95. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Motion-Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System – Poster
Hyun W. Bae, MD; **Ben B Pradhan, MD MSE**; Linda E.A. Kanim, MS; Rick B. Delamarter, MD
96. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome – Poster
Rick B Delamarter, MD; Brian Rudin,MD; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Evish Kamrava, MS; Vikas V. Patel, MD; **Ben B Pradhan, MD MSE**
97. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Bone Morphogenetic Protein-2 Retention in a Vertebral Body Fracture Stabilization Device (OptiMesh) – Poster
HW Bae MD, **BB Pradhan** MD, L Zhao MD PhD, P Wong MPF, LEA Kanim MA, RB Delamarter MD
98. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Cervical Disc Replacement – Longer-Term (2-year) Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.
RB Delamarter MD, HW Bae MD, LEA Kanim MS, **BB Pradhan, MD MSE**
99. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-Level Disc Replacement Versus Fusion in the Cervical Spine.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
100. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006. The Effect of Workman’s Compensation Status on Outcomes after Lumbar Total Disc Replacement.

Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA;
Rick B Delamarter, MD

101. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006.
2-3 Year Lumbar Disc Replacement Results (ProDisc-L) from the US IDE Clinical Trials
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA;
Rick B Delamarter, MD
102. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006.
State of Lumbar Disc Replacement with the ProDisc-L Device.
Ben B Pradhan, MD MSE
103. Annual Symposium on Spinal Disorders, Cedars Sinai Medical Center, Las Vegas, NV, Mar 2006.
Cervical Artificial Disc Replacement with ProDisc-C.
Ben B Pradhan, MD, MSE
104. Annual Symposium on Spinal Disorders, Cedars Sinai Medical Center, Las Vegas, NV, Mar 2006.
Lumbar Artificial Disc Replacement with ProDisc-L.
Ben B Pradhan, MD, MSE
105. Society of Interventional Radiology, Annual Meeting, Toronto, Canada, Apr 2006.
Results of Vertebroplasty and Kyphoplasty with CORTOSS
BB Pradhan MD MSE, HW Bae, P Maurer, et al.
106. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec 2005.
Cervical Disc Replacement: Longer-Term (2-year) Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis.
Rick B Delamarter, MD, Hyun W Bae, MD, Michael A Kropf, MD, Linda EA Kanim, MS, **Ben B Pradhan, MD, MSE**
107. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec 2005.
Worst Case Scenario for BMP-2 Mediated Gene Therapy in Posterolateral Fusion.
Hyun W Bae, MD, Li Zhao, MD, PhD, Ben B Pradhan, MD, MSE, Pamela Wong, BS, Linda EA Kanim, MA, Jeffrey C Wang, MD, Rick B Delamarter, MD
108. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec 2005.
Bone Marrow Enhances the Performance of rhBMP-2.
Ben B Pradhan, MD, MSE, Hyun W Bae, MD, Li Zhao, MD, PhD, Pam Wong, BS, Jeffrey C Wang, MD, Rick B Delamarter, MD
109. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec 2005.
Analysis of rhBMP-2 Retention in Absorbable Collagen Sponges and Diffusion Patterns in a Simulated in vivo Environment.
Hyun W Bae, MD, Rick B Delamarter, MD, Li Zhao, MD, PhD, Pamela Wong, BS, Linda EA Kanim, MS, **Ben B Pradhan, MD, MSE**
110. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-L) – Poster
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Michael A. Kropf, MD; Rick B. Delamarter, MD

111. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Cervical Disc Replacement – 2 to 3-year Range of Motion and Clinical Outcome with the ProDisc-C Prosthesis – Poster
RB Delamarter MD, HW Bae MD, LEA Kanim MS, **BB Pradhan** MD MSE
112. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From The United States Clinical Trial For The ProDisc-L Prosthesis – Poster
HW Bae, MD; **BB Pradhan**, MD MSE; LEA Kanim, MA; RB Delamarter, MD
113. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Sagittal and Coronal Cervical Spine Alignment after 1 to 3-level Disc Replacement: 2-Year Follow-Up – Poster
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
114. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Motion Analysis at Treated and Untreated Levels after Single and Multi-Level Cervical Disc Replacement – Poster
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Linda EA Kanim, MA; Rick B Delamarter, MD
115. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, Mar 2006.
Comparison Of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-Compensation Patients
RB Delamarter MD, L Lam MPH, HW Bae MD, **BB Pradhan** MD MSE
116. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-L)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda Lam, MPH; Michael A. Kropf, MD; Evis Kamrava, MD; Rick B. Delamarter, MD
117. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MD; Rick B Delamarter, MD
118. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The ProDisc-II Prosthesis.
RB Delamarter MD; JE Zigler MD; DD Ohnmeiss PhD; LEA Kanim MA; **BB Pradhan** MD MSE
119. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (ProDisc-L).
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evis Kamrava, MD; Rick B. Delamarter, MD
120. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
Motion-Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System.
Ben B Pradhan, MD MSE; Jason Huffman, MD; Hyun W. Bae, MD; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD

121. Scoliosis Research Society Annual Meeting, Miami, FL, Oct 2005.
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.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MA MD; Li Zhao, MD PhD; Pamela Wong, BS; Rick B Delamarter, MD
122. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
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.
VV Patel MA MD, **BB Pradhan** MD MSE, C Andrews MD, HW Bae MD, LEA Kanim MS, RB Delamarter MD
123. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
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.
BB Pradhan MD MSE, HW Bae MD, MA Kropf MD, VV Patel MA MD, L Zhao MD PhD, P Wong BS, RB Delamarter MD
124. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Comparison Of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-Compensation Patients.
RB Delamarter MD, L Lam MPH, HW Bae MD, **BB Pradhan** MD MSE
125. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Graft resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: a radiographic characterization of the effect of rhBMP-2 on structural allografts.
BB Pradhan MD MSE, HW Bae MD, MA Kropf MD, VV Patel MA MD, RB Delamarter MD
126. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The ProDisc-II Prosthesis
RB Delamarter MD, J Zigler MD, D Ohnmeiss PhD, LEA Kanim MS, **BB Pradhan** MD MSE
127. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome.
RB Delamarter MD, B Rudin MD, HW Bae MD, **BB Pradhan** MD MSE
128. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Cervical Disc Replacement – Intermediate-Term Follow-Up (1 to 2 years) of Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis.
RB Delamarter MD, HW Bae MD, LEA Kanim MS, L Lam MPH, **BB Pradhan** MD MSE
129. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (ProDisc-II).
BB Pradhan MD MSE, HW Bae MD, LEA Kanim MS, E Kamrava MS, RB Delamarter MD
130. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-II).
BB Pradhan MD MSE, HW Bae MD, MA Kropf MD, LEA Kanim MS, RB Delamarter MD
131. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From The United States Clinical Trial For The ProDisc-II Prosthesis.

- HW Bae, MD; **BB Pradhan**, MD MSE; LEA Kanim, MA; L Lam, MPH; E Kamrava, MS; RB Delamarter, MD
132. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome
BB Pradhan, MD MSE; Brian Rudin, MD; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Evis Kamrava, MS; Vikas V. Patel, MA MD; Rick B. Delamarter, MD
133. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Computed Tomography Evaluation of Positioning of Artificial Discs, Along with its Radiographic and Clinical Relevance
Vikas V. Patel, MA MD; Carol Andrews, MD; Hyun W. Bae, MD; Linda EA Kanim, MS; **Ben B. Pradhan**, MD MSE; Rick B. Delamarter, MD
134. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Controlling Bone Morphogenetic Protein Stimulated Bone Growth with Fibrin Glue (a Biologic Sealant)
Vikas V. Patel, MA MD; Li Xiao, MD PhD; Pamela Wong, BS; **Ben B. Pradhan**, MD MSE; Hyun W. Bae, MD; Rick B. Delamarter, MD
135. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Recovery of Function Following Experimental Lumbar Spinal Cord Injury in Rats: Effectiveness of Treatment with rhBMP-2, rhBMP-7, and rhBDNF.
Hyun W. Bae, MD; Li Zhao, MD PhD; Linda E.A. Kanim, MS; Pamela Wong, BS; Parveen Sra, MPH; **Ben B. Pradhan**, MD MSE; Rick B. Delamarter, MD
136. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Biomechanical Evaluation of Floating and Fixed Center of Rotation Total Disc Replacements.
VV Patel MA MD, S Hsu MD, HW Bae MD, **BB Pradhan** MD MSE, T Hedman PhD, RB Delamarter MD
137. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Comparison Of Outcomes In Workers Compensation Versus Non-Compensation Patients After Artificial Disc Replacement Surgery.
HW Bae MD, L Lam MPH, P Wong BS, **BB Pradhan** MD MSE, M Kropf MD, RB Delamarter MD
138. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
ProDisc-C Artificial Total Cervical Disc Replacement: Twelve to Eighteen Month Results from the United States Clinical Trial
Ben B Pradhan, MD MSE, Hyun W Bae, MD, Vikas V Patel, MD MA, Linda EA Kanim, MA, Michael A Kropf, MD, Rick B Delamarter, MD
139. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-II).
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Michael A. Kropf, MD; Evis Kamrava, MS; Rick B. Delamarter, MD
140. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System.
Jason Huffman, MD; Hyun W. Bae, MD; **Ben B. Pradhan**, MD MSE; Linda E.A. Kanim, MS; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD
141. World Spine III, Rio De Janeiro, Brazil, Aug 2005.

- Leakage of rhBMP-2 from absorbable collagen sponges during ACDF: quantification and follow-up with radiographic analysis
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MA MD; Li Zhao, MD PhD; Pamela Wong, BS; Rick B Delamarter, MD
142. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (ProDisc-II)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evish Kamrava, MD; Rick B. Delamarter, MD
143. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Graft resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: a radiographic characterization of the effect of rhBMP-2 on structural allografts.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Rick B Delamarter, MD
144. World Spine III, Rio De Janeiro, Brazil, Aug 2005.
Graft Resorption With Recombinant Human Bone Morphogenetic Protein-2: Lessons From Anterior Lumbar Interbody Fusion Using Stand-Alone Femoral Ring Allografts
Ben B. Pradhan, MD; MSE, Hyun W. Bae, MD; Vikas V. Patel, MD; Rick B. Delamarter, MD
145. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Recovery of Function Following Experimental Lumbar Spinal Cord Injury in Rats: Effectiveness of Treatment with rhBMP-2, rhBMP-7, and rhBDNF
HW Bae, Li Zhao, LEA Kanim, P Wong, P Sra, **BB Pradhan**, RB Delamarter
146. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Graft resorption with rhBMP-2 in ACDF: a radiographic characterization of the effect of BMP on structural allografts.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Rick B Delamarter, MD
147. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Dynamic Posterior Stabilization Of The Lumbar Spine: Early Results From The US Clinical Trial With The Dynesys System
Jason Huffman, MD; Hyun W. Bae, MD; **Ben B. Pradhan**, MD MSE; Linda E.A. Kanim, MS; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD
148. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Comparison Of Outcomes In Worker's Compensation Versus Non-Compensation Patients After Lumbar Artificial Disc Replacement Surgery
RB Delamarter MD, L Lam MPH, **BB Pradhan** MS MSE, HW Bae MD
149. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Leakage of BMP from absorbable collagen sponges during ACDF: quantification and CT analysis for ectopic bone formation in canal
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MA MD; Li Zhao, MD PhD; Pamela Wong, BS; Rick B Delamarter, MD
150. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome
BB Pradhan, Brian Rudin, HW Bae, LEA Kanim, VV Patel, E Kamrava, RB Delamarter
151. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Total Disc Replacement (Prodisc-II)

- Ben B. Pradhan**, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Michael Kropf, MD; Evis Kamrava, MD; Rick B. Delamarter, MD
152. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Cellular Environments Can Alter Performance of rhBMP-2 and Induce Pseudarthrosis
HW Bae, LEA Kanim, Li Zhao, P Wong, **BB Pradhan**, RB Delamarter
153. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Cervical Disc Replacement – Longer-Term Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis.
RB Delamarter MD, HW Bae MD, E Kamrava MS, L Lam MPH, LEA Kanim MS, **BB Pradhan**, MD MSE
154. Western Orthopaedic Association Annual Meeting, Waikoloa, HI, Jul 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From The United States Clinical Trial For The Prodisc-II Prosthesis
HW Bae, MD; **BB Pradhan**, MD MSE; LEA Kanim, MA; L Lam, MPH; E Kamrava, MS; RB Delamarter, MD
155. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Comparison Of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-Compensation Patients.
RB Delamarter MD, HW Bae MD, L Lam MPH, **BB Pradhan** MD MSE
156. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The ProDisc-II Prosthesis.
RB Delamarter MD; JE Zigler MD; DD Ohnmeiss PhD; LEA Kanim MA; **BB Pradhan** MD MSE
157. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Recovery or function following experimental Lumbar Spinal Cord Injury in Rats: Effectiveness of Treatment with rhBMP-2, rhBMP-7, and rhBDNF.
HW Bae MD, Li Zhao MD PhD, LEA Kanim MS, P Wong BS, P Sra MPH, **BB Pradhan** MD MSE RB Delamarter MD.
(Whitecloud Basic Science Research Award Finalist)
158. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome.
Ben B Pradhan, MD MSE; Hyun W. Bae, MD; Brian Rudin, MD; Michael A Kropf, MD; Vikas V. Patel, MD; Rick B Delamarter, MD
159. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Motion-Preserving Dynamic Posterior Stabilization of the Lumbar Spine: Early Results from the US Clinical Trial with the Dynesys System
Ben B Pradhan, MD MSE; Jason Huffman, MD; Hyun W. Bae, MD; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD
160. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Biomechanical Evaluation of floating versus fixed center-of-rotation total disc replacements.
VV Patel MA MD, S Hsu MD, HW Bae MD, **BB Pradhan** MD MSE, T Hedman PhD, RB Delamarter, MD.
161. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Size does matter: pedicle screw head size affects adjacent level facet joint biomechanics.
VV Patel MA MD, T Baldini MS, **BB Pradhan** MD MSE, J Bach PhD

162. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
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
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MA MD; Li Zhao, MD PhD; Pamela Wong, BS; Rick B Delamarter, MD
163. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts.
Ben B Pradhan, MD MSE; Hyun W Bae, MD; Michael A Kropf, MD; Vikas V Patel, MD; Rick B Delamarter, MD
164. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Cervical Disc Replacement – Longer-Term (1 to 2-year) Range of Motion and Clinical Outcomes Follow-Up with the ProDisc-C Prosthesis
HW Bae MD, **BB Pradhan** MD MSE, E Kamrava MS, MA Kropf MD, L Lam MPH, RB Delamarter MD
165. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (ProDisc-II)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evish Kamrava, MD; Rick B. Delamarter, MD
166. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Disc Height Restoration and its Effect on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-II)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda Lam, MPH; Michael A. Kropf, MD; Evish Kamrava, MD; Rick B. Delamarter, MD
167. International Meeting for Advanced Spinal Techniques, Banff, Canada, Jul 2005.
Cellular Environments Can Alter Performance of rhBMP-2 and Induce Pseudarthrosis
HW Bae, LEA Kanim, Li Zhao, P Wong, **BB Pradhan**, RB Delamarter
(Whitecloud Basic Science Research Award Finalist)
168. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Surgery Syndrome.
B Rudin MD, **BB Pradhan** MD MSE, HW Bae MD, L Kanim MS, E Kamrava MS, VV Patel MA MD, RB Delamarter MD
169. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Clinical Results After Lumbar Total Disc Replacement: A 2 to 3 Year Report From the United States Clinical Trial for the ProDisc-II Prosthesis.
HW Bae MD, **BB Pradhan** MD MSE, L Kanim MS, L Lam MPH, E Kamrava MS, RB Delamarter MD
170. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Recovery Of Function Following Experimental Lumbar Spinal Cord Injury In Rats: Effectiveness Of Treatment With rhBMP-2, rhBMP-7, And rhBDNF.
HW Bae MD, L Zhao MD PhD, L Kanim MS, P Wong BS, P Sra MPH, **BB Pradhan** MD MSE, RB Delamarter MD
171. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Controlling Bone Morphogenetic Protein With Fibrin Glue.

- VV Patel MA MD, L Zhao MD PhD, P Wong BS, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
172. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Comparison Of Outcomes In Workers Compensation Versus Non-Compensation Patients After Artificial Disc Replacement Surgery.
HW Bae MD, L Lam MPH, P Wong BS, **BB Pradhan** MD MSE, M Kropf MD, RB Delamarter MD
173. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Post-Op And Follow-Up CT Evaluation Of Artificial Disc Replacement: Excellent Outcomes Even With Positional Deviation.
VV Patel MA MD, C Andrews MD, L Kanim MS, **BB Pradhan** MD MSE, M Kropf MD, HW Bae MD, RB Delamarter MD
174. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Controlling Bone Morphogenetic Protein-Stimulated Bone Growth.
VV Patel MA MD, L Zhao MD PhD, P Wong BS, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
175. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Computed Tomography Evaluation Of Positioning Of Artificial Discs, Along With Its Radiographic And Clinical Relevance.
VV Patel MA MD, C Andrews MD, HW Bae MD, L Kanim MS, **BB Pradhan** MD MSE, RB Delamarter MD
176. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Biomechanical Evaluation Of Floating (Charite) Versus Fixed Center Of Rotation (ProDisc) Total Disc Replacements.
VV Patel MA MD, S Hsu MD, HW Bae MD, **BB Pradhan** MD MSE, T Hedman PhD, RB Delamarter MD
177. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Disc Height Restoration And Its Effect On Range Of Motion And Clinical Outcome After Semi-Constrained Total Disc Replacement (ProDisc-II).
BB Pradhan MD MSE, HW Bae MD, L Kanim MS, L Lam MPH, M Kropf MD, E Kamrava MS, RB Delamarter MD
178. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Dynamic Posterior Stabilization of the Lumbar Spine: Early Results From the US Clinical Trial with the Dynesys System.
J Huffman MD, HW Bae MD, **BB Pradhan** MD MSE, L Kanim MS, L Lam MPH, B Rudin MD, RB Delamarter MD
179. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Effect of Disc Height Restoration on Range Of Motion and Clinical Outcome After Semi-Constrained Lumbar Total Disc Replacement (ProDisc-II)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Michael A. Kropf, MD; Evish Kamrava, MD; Rick B. Delamarter, MD
180. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Lumbar Total Disc Replacement: A 2 To 3 Year Report From 2 Centers In The United States Clinical Trial For The Prodisc-II Prosthesis.

- JE Zigler, MD; RB Delamarter, MD; DD Ohnmeiss, PhD; LEA Kanim, MA; **BB Pradhan**, MD MSE
181. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Comparison Of Outcomes After Lumbar Artificial Disc Replacement Surgery In Worker's Compensation Versus Non-Compensation Patients
RB Delamarter MD, L Lam MPH, HW Bae MD, **BB Pradhan** MD MSE
182. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Cervical Disc Replacement – Intermediate-Term Follow-Up (1 to 2 years) of Range of Motion and Clinical Outcomes with the ProDisc-C Prosthesis
RB Delamarter MD, HW Bae MD, E Kamrava MS, L Lam MPH, LEA Kanim MS, **BB Pradhan**, MD MSE
183. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Restoration and Maintenance of Coronal and Sagittal Lumbar Spinal Alignment with a Semi-Constrained Multi-level Lumbar Total Disc Arthroplasty (ProDisc-II)
Ben B. Pradhan, MD MSE; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Evish Kamrava, MD; Rick B. Delamarter, MD
184. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Biomechanical evaluation of floating (Charite III) versus fixed (ProDisc-L) center of rotation total disc replacements.
VV Patel MD MA, S Hsu MD, **BB Pradhan** MD MSE, HW Bae MD, T Hedman PhD, RB Delamarter MD.
185. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Motion-Preserving Dynamic Posterior Stabilization Of The Lumbar Spine: Early Results From The Us Clinical Trial With The Dynesys System
Ben B Pradhan, MD MSE; Jason Huffman, MD; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Linda Lam, MPH; Brian Rudin, MD; Rick B. Delamarter, MD
186. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, New York, NY, May 2005.
Artificial Disc Replacement as a Salvage Treatment for Failed Back Syndrome
Rick B Delamarter, MD; Brian Rudin, MD; Hyun W. Bae, MD; Linda E.A. Kanim, MS; Evish Kamrava, MS; Vikas V. Patel, MD; **Ben B Pradhan**, MD MSE
187. Indian Medical Association of Los Angeles, Beverly Hills, CA, Mar 2005.
Kyphoplasty – Modern Management of Osteoporotic Compression Fractures.
BB Pradhan, MD MSE
188. EBI Spine Symposium, San Diego, CA, Mar 2005.
Cervical Disc Replacement – Clinical Experience
BB Pradhan, MD MSE; HW Bae, MD; MA Kropf, MD; RB Delamarter, MD
189. International Society for Surgery of the Lumbar Spine, New York, NY, May 2005.
Restoration and Maintenance of Coronal and Sagittal Spinal Alignment with a Semi-Constrained Multi-Level Total Disc Arthroplasty (ProDisc-II)
BB Pradhan MD MSE, HW Bae MD, L Kanim MS, E Kamrava MS, RB Delamarter MD

190. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up
Pradhan BB, Bae HW, Kropf MA, Patel VV, Zhao L, Wong P, Delamarter RB
191. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
Resorption of Grafts and Vertebral Endplates in Anterior Cervical Discectomy and Fusion using rhBMP-2 – Implications on Fusion
Pradhan BB, Bae HW, Kropf MA, Patel VV, Delamarter RB
192. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
Increased Risk for Nonunion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts when using rhBMP-2
Pradhan BB, Bae HW, Delamarter RB, Patel VV, Dawson EG
193. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
ProDisc-C Artificial Total Cervical Disc Replacement: Twelve to Eighteen Month Results from the United States Clinical Trial
Ben B Pradhan, MD MSE, Hyun W Bae, MD, Vik V Patel, MD MA, Linda EA Kanim, MA, Michael A Kropf, MD, Rick B Delamarter, MD
194. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
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Ben B Pradhan, MD MSE, Hyun W Bae, MD, LEA Kanim, MA, Rick B Delamarter, MD
195. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Phoenix, AZ, Mar 2005.
BMP Modulation using Fibrin Glue in Spinal Fusion.
VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
196. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
197. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
The Effect of Toradol on Lumbar Spinal Fusion When Used Perioperatively for Pain Control.
BB Pradhan, MD MSE; CA Kuhns, MD; JC Wang, MD; EG Dawson, MD
198. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
Kyphoplasty Reduction of Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
199. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up.
BB Pradhan, MD MSE; HW Bae, MD; VV Patel, MD; MA Kropf, MD; L Zhao, MD PhD; P Wong, BS; RB Delamarter, MD

200. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
Characterization of Anterior Cervical Discectomy and Fusion Using Fibular Allograft and rhBMP-2.
BB Pradhan, MD MSE; HW Bae, MD; VV Patel, MD; MA Kropf, MD; L Zhao, MD PhD; P Wong, BS; RB Delamarter, MD
201. Orthopaedic Research Society Annual Meeting, Washington, DC, Feb 2005.
Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudarthrosis.
Hyun W Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, **BB Pradhan** MD MSE, RB Delamarter MD
202. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
203. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
Kyphoplasty for Osteoporotic Vertebral Compression Fractures -- Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD 15.
204. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
Toradol use for Post-Operative Pain Control in Spine Patients -- Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; CA Kuhns, MD; JC Wang, MD; EG Dawson, MD
205. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
Total Disc Arthroplasty as a Salvage Treatment for Failed Back Syndrome
BB Pradhan, MD MSE; B Rudin, MD; HW Bae, MD; LEA Kanim, MS; E Kamrava, MS; VV Patel, MD; RB Delamarter, MD
206. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
BMP Modulation using Fibrin Glue in Spinal Fusion.
VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
207. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, Feb 2005.
Treatment Efficacy of BMP-2 and BMP-7 in Functional Recovery after Spinal Cord Injury in Rats.
BB Pradhan MD MSE for HW Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, P Sra MPH, RB Delamarter MD
208. Zimmer Course on Posterior Lumbar Dynamic Stabilization (DYNESYS), Santa Monica, CA, Jan 2005.
Clinical and Regulatory Aspects of the DYNESYS System and Clinical Results
BB Pradhan, MD MSE; HW Bae, MD; RB Delamarter, MD
209. Cervical Spine Research Society Annual Meeting, Boston, MA, Dec 2004.
Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up.
BB Pradhan, MD MSE; HW Bae, MD; VV Patel, MD; MA Kropf, MD; L Zhao, MD PhD; P Wong, BS; RB Delamarter, MD
210. Cervical Spine Research Society Annual Meeting, Boston, MA, Dec 2004.
BMP Modulation using Fibrin Glue in Spinal Fusion.

VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter

211. Cervical Spine Research Society Annual Meeting, Boston, MA, Dec 2004.
Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudarthrosis.
Hyun W Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, **BB Pradhan** MD MSE, RB Delamarter MD
212. North American Spine Society Annual Meeting, Chicago, IL, Nov 2004.
Cellular Environments Can Alter Performance of rhBMP-2 and Induce Pseudarthrosis
BB Pradhan, MD, for HW Bae, MD; LEA Kanim, MS; Li Zhao, MD PhD; P Wong, BS; RB Delamarter, MD
213. North American Spine Society Annual Meeting, Chicago, IL, Nov 2004.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
214. North American Spine Society Annual Meeting, Chicago, IL, Nov 2004.
BMP Modulation using Fibrin Glue in Spinal Fusion.
VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
215. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
216. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Kyphoplasty for Osteoporotic Vertebral Compression Fractures -- Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
217. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Toradol use for Post-Operative Pain Control in Spine Patients -- Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; JC Wang, MD; EG Dawson, MD
218. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Cervical Spine Motion after Disc Replacement.
VV Patel MD, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
219. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Controlling BMP-Stimulated Bone Growth using Fibrin Glue.
VV Patel, L Zhao, **BB Pradhan**, HW Bae, RB Delamarter
220. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Computed Tomography Evaluation of Intervertebral Prosthesis.
VV Patel, C Andrews, LEA Kanim, **BB Pradhan**, MA Kropf, HW Bae, RB Delamarter
221. Western Orthopaedic Association Annual Meeting, San Francisco, CA Sept 2004.
Artificial Disc Replacement in the Lumbar Spine – 18 to 24 Month Follow-up
BB Pradhan, HW Bae, LEA Kanim, MA Kropf, RB Delamarter
222. EBI Minimally Invasive Course for Spine Surgeons, Santa Monica, CA, Sept 2004.
Minimally Invasive Transforaminal Lumbar Interbody Fusion.

BB Pradhan, MD MSE; HW Bae, MD

223. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
224. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
Kyphoplasty for Osteoporotic Vertebral Compression Fractures -- Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
225. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
BMP Modulation using Fibrin Glue in Spinal Fusion.
VV Patel, L Zhou, P Wong, **BB Pradhan**, HW Bae, RB Delamarter
(Winner of the Moe Award for Best Scientific Exhibit)
226. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudarthrosis.
BB Pradhan MD MSE, Hyun W Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, RB Delamarter MD
227. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
Treatment Efficacy of BMP-2 and BMP-7 in Functional Recovery after Spinal Cord Injury in Rats.
BB Pradhan MD MSE, HW Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, P Sra MPH, RB Delamarter MD
228. International Meeting for Advanced Spinal Techniques, Bermuda, Jun 2004.
Kyphoplasty for Osteoporotic Vertebral Compression Fractures -- Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
229. International Meeting for Advanced Spinal Techniques, Bermuda, Jun 2004.
Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts?
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD, EG Dawson MD
230. International Meeting for Advanced Spinal Techniques, Bermuda, Jun 2004.
Cervical Spine Motion after Disc Replacement.
VV Patel MD, **BB Pradhan** MD MSE, HW Bae MD, RB Delamarter MD
231. International Meeting for Advanced Spinal Techniques, Bermuda, Jun 2004.
Controlling BMP-Stimulated Bone Growth using Fibrin Glue.
VV Patel, L Zhao, **BB Pradhan**, HW Bae, RB Delamarter
232. International Meeting for Advanced Spinal Techniques, Bermuda, Jun 2004.
Computed Tomography Evaluation of Intervertebral Prosthesis.
VV Patel, C Andrews, LEA Kanim, **BB Pradhan**, MA Kropf, HW Bae, RB Delamarter
233. International Society for Surgery of the Lumbar Spine, Porto, Portugal, Jun 2004.
Toradol use for Post-Operative Pain Control in Spine Patients -- Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; CA Kuhns, MD; EG Dawson, MD

234. International Society for Surgery of the Lumbar Spine, Porto, Portugal, Jun 2004.
Kyphoplasty for Osteoporotic Vertebral Compression Fractures -- Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment.
BB Pradhan MD MSE, RB Delamarter MD, VV Patel MD, MA Kropf MD, HW Bae MD
235. International Society for Surgery of the Lumbar Spine, Porto, Portugal, Jun 2004.
Cellular Environments Alter Performance of rhBMP-2 and Induce Pseudarthrosis.
BB Pradhan MD MSE, Hyun W Bae MD, L Zhao MD PhD, LEA Kanim, P Wong BS, RB Delamarter MD
236. Spine Arthroplasty Society, Vienna Austria, May 2004.
Floating and Fixed Center of Rotation Intervertebral Prostheses - Biomechanical Comparison.
VV Patel, J Welcher, HW Bae, RB Delamarter, **BB Pradhan**, T Hedman
237. Spine Arthroplasty Society, Vienna Austria, May 2004.
Intervertebral Prosthesis Position Evalutaed by Computed Tomography - Relevance to Clinical Outcome.
VV Patel, C Andrews, RB Delamarter, LEA Kanim, **BB Pradhan**, MA Kropf, HW Bae
238. Pediatric Orthopaedic Surgeons of North America Annual Meeting, Chicago, IL, May 2004.
A Metatarsal Equivalent to the Metacarpal Index in Marfan's Syndrome?
BB Pradhan, MD MSE; M Bhasin BA; NY Otsuka, MD
239. North American Spine Society Annual Meeting, San Diego, CA, Nov 2003.
Posterior Lumbar Fusion: A Comparison of Intertransverse Process Fusion With and Without Concomitant Interbody Fusion.
KR Payman, **BB Pradhan**, JA Youseff, JC Wang
240. Western Orthopaedic Association Annual Meeting, San Antonio, TX, Oct 2003.
Subsequent Adjacent Level Fractures After Kyphoplasty for Osteoporotic Compression Fractures.
BB Pradhan MD MSE, D Fribourg MD, RB Delamarter MD, HW Bae MD
241. Scoliosis Research Society Annual Meeting, Quebec City CN, Sept 2003.
Toradol use for Post-Operative Pain Control in Spine Patients -- Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; CA Kuhns, MD; JC Wang, MD; EG Dawson, MD
242. World Spine Meeting, Chicago, IL, Aug 2003.
Toradol use for Post-Operative Pain Control in Spine Patients -- Does it Really Affect Fusion Rates?
BB Pradhan, MD MSE; CA Kuhns, MD; JC Wang, MD; EG Dawson, MD
243. World Spine Meeting, Chicago, IL, Aug 2003.
Posterior Lumbar Fusion: A Comparison of Intertransverse Process Fusion With and Without Concomitant Interbody Fusion.
KR Payman, **BB Pradhan**, JA Youseff, JC Wang
244. World Spine Meeting, Chicago, IL, Aug 2003.
Loading Characteristics of Femoral Ring Allografts for Anterior Lumbar Interbody Fusion
BB Pradhan, MD MSE; JC Wang, MD
245. World Spine Meeting, Chicago, IL, Aug 2003.
Misrepresentation of Research Publications among Orthopaedic Surgery Fellowship Applicants.
MV Patel, MD; **BB Pradhan**, MD MSE; RA Meals, MD

246. North American Spine Society and Japanese Spine Research Society (Spine Across the Sea), Maui HI, Jul 2003.
Posterior Lumbar Fusion: A Comparison of Intertransverse Process Fusion With and Without Concomitant Interbody Fusion.
KR Payman, **BB Pradhan**, JA Youseff, JC Wang
247. Shriners Annual Westin Lectureship, Los Angeles, CA, May 2003.
A Metatarsal Equivalent to the Metacarpal Index in Marfan's Syndrome?
BB Pradhan, MD MSE; M Bhasin BA; NY Otsuka, MD
248. Southern Orthopaedic Association Annual Meeting, Washington, DC, Nov 2002.
Posterior Lumbar Fusion: A Comparison of Intertransverse Process Fusion With and Without Concomitant Interbody Fusion.
KR Payman, **BB Pradhan**, JA Youseff, JC Wang
249. Annual Spine Surgery Fellows Meeting, Spine + Science + Management, New Orleans, Nov 2002. Poster presentation.
Loading Characteristics of Femoral Ring Allografts for Anterior Lumbar Interbody Fusion
BB Pradhan, MD MSE; JC Wang, MD
250. National Shriners Pediatric Orthopaedic Surgeons Annual Meeting, Chicago, IL, Nov 2002.
A Metatarsal Equivalent to the Metacarpal Index in Marfan's Syndrome?
BB Pradhan, MD MSE; M Bhasin BA; NY Otsuka, MD
251. Scoliosis Research Society Annual Meeting, Seattle WA, Sept 2002. Posterior Lumbar Fusion: A Comparison of Intertransverse Process Fusion With and Without Concomitant Interbody Fusion.
KR Payman, **BB Pradhan**, JA Youseff, JC Wang
252. Scoliosis Research Society Annual Meeting, Seattle, WA, Sept 2002.
Loading Characteristics of Femoral Ring Allografts for Anterior Lumbar Interbody Fusion
BB Pradhan, MD MSE; JC Wang, MD
253. Scoliosis Research Society Annual Meeting, Cleveland, OH, Sept 2001.
Instrumented Single Level Lumbar Intervertebral Fusion: A Comparison of Anterior and Posterior Approaches.
BB Pradhan, MD MSE; JA Nassar, MD; R Delamarter, MD; JC Wang, MD
254. Western Student Medical Research Forum, Carmel, CA, Jan 1999.
Mammographic Follow-Up in an Inner City, Community Based Setting
D Bhasin, MD; **BB Pradhan**, MD MSE; Marla Shaver MD; Anthony Disher MD
255. AAPI National Convention, Anaheim, CA, Jun 1999.
A Virtual Model of a Spine Motion Segment using Computerized 3-D Finite Element Analysis.
BB Pradhan, MD MSE; HS Sandhu, MD; JM Kabo, PhD
256. American Academy of Orthopaedic Surgeons Annual Meeting New Orleans, LA, Aug 1998.
Misrepresentation of Research Publications among Orthopaedic Surgery Fellowship Applicants.
MV Patel, MD; **BB Pradhan**, MD MSE; RA Meals, MD
257. American Academy of Otolaryngology - Annual Meeting, 1996.
An Implantable Pressure Transducing Device to Induce Growth of Morselized Bone Graft.
BB Pradhan, MD MSE; J Seung, MD; J Michael Kabo, PhD; Joseph M Lane, MD
258. UCLA School of Medicine Annual Research Exposition, Los Angeles, CA, Aug 1995.
An Implantable Pressure Transducing Device to Induce Growth of Morselized Bone Graft.
BB Pradhan, MD MSE; J Michael Kabo, PhD; Joseph M Lane, MD

259. Princeton University School of Engineering and Applied Science Research Exhibition, Jan 1992.
Interactive Computer 3-D Simulation of Aircraft Dynamics (Aircraft Simulator).
BB Pradhan, BSE; R McKillip, PhD

INVITED LECTURES

1. Annual Symposium on Spinal Disorders, Cedars Sinai Medical Center, Las Vegas, NV, Mar 2006.
Cervical Artificial Disc Replacement with ProDisc-C.
Ben B Pradhan, MD, MSE
2. Annual Symposium on Spinal Disorders, Cedars Sinai Medical Center, Las Vegas, NV, Mar 2006.
Lumbar Artificial Disc Replacement with ProDisc-L.
Ben B Pradhan, MD, MSE
3. American Association of Neurological Surgeons / Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena Vista, FL, Mar 2006.
State of Lumbar Disc Replacement with the ProDisc-L Device.
Ben B Pradhan, MD MSE
4. Santa Monica TLC Lecture Series, Nov 2005.
Modern and minimally invasive treatment options for neck and back conditions.
Ben B Pradhan, MD MSE
5. EBI Minimally Invasive Course for Spine Surgeons, Santa Monica, CA, Sept 2005.
Minimally Invasive Transforaminal Lumbar Interbody Fusion.
Ben B Pradhan, MD MSE; HW Bae, MD
6. Coffee Break TV Show, Santa Monica City Hall, May 2005.
Minimally invasive treatment of spinal conditions
Ben B Pradhan, MD MSE
7. Santa Monica TLC Lecture Series, Health Care for Seniors, Santa Monica Gateway Hotel, May 2005.
Diagnosis and Treatment of Conditions in the Ageing Spine.
Ben B Pradhan, MD MSE
8. Zimmer Course on Posterior Lumbar Dynamic Stabilization (DYNESYS), Santa Monica, CA, Apr 2005.
Clinical and Regulatory Aspects of the DYNESYS System and Clinical Results
Ben B Pradhan, MD MSE; RB Delamarter, MD
9. Kyphoplasty – Modern Management of Osteoporotic Compression Fractures, Beverly Hills, CA, Mar 2005.
Indian Medical Association of Los Angeles
Ben B Pradhan, MD MSE
10. EBI Spine Symposium, San Diego, CA, Mar 2005.
Cervical Disc Replacement – Clinical Experience
Ben B Pradhan, MD MSE; HW Bae, MD; MA Kropf, MD; RB Delamarter, MD
11. Zimmer Course on Posterior Lumbar Dynamic Stabilization (DYNESYS), Santa Monica, CA, Jan 2005.

- Clinical and Regulatory Aspects of the DYNESYS System and Clinical Results
Ben B Pradhan, MD MSE; HW Bae, MD; RB Delamarter, MD
12. EBI Minimally Invasive Course for Spine Surgeons, Santa Monica, CA, Sept 2004.
Minimally Invasive Transforaminal Lumbar Interbody Fusion.
Ben B Pradhan, MD MSE; HW Bae, MD
 13. Instructional Course Lecture, IMAST, Athens, Greece
Minimally Invasive Transforaminal Lumbar Interbody Fusion
Ben B Pradhan, MD, MSE
 14. Dynamic Lumbar Stabilization – Clinical History and Experience
Zimmer Center of Excellence Lecture, Santa Monica, CA, July 2006
Ben B Pradhan, MD, MSE
 15. EBI Minimally Invasive Course for Spine Surgeons, Santa Monica, CA, Sept 2004.
Minimally Invasive Transforaminal Lumbar Interbody Fusion.
Ben B Pradhan, MD MSE

CURRENT RESEARCH PROJECTS

1. The use of total disc replacement to correct local lumbar coronal deformities due to asymmetric disc collapse.
BB Pradhan, MD MSE; V Patel, MD; RB Delamarter, MD; HW Bae, MD
2. The use of total disc replacement after microdiscectomies or previous invasive disc procedures.
BB Pradhan, MD MSE; V Patel, MD; RB Delamarter, MD; HW Bae, MD
3. Spinal motion after lumbar artificial disc replacement.
HW Bae, MD; **BB Pradhan**, MD MSE; LEA Kanim, MS; RB Delamarter, MD
4. Spinal motion after cervical artificial disc replacement.
BB Pradhan, MD MSE; V Patel, MD; HW Bae, MD; RB Delamarter, MD
5. Biomechanics of artificial spinal discs.
RB Delamarter MD; HW Bae MD; VV Patel MD; **BB Pradhan** MD MSE

RESEARCH INTERESTS

Biomechanics of the spine, related spinal prostheses and instrumentation.