

CURRICULUM VITAE

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OFFICES

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EDUCATION

Undergraduate: University of California, Riverside, B.S. – Biomedical Sciences, 1980 - Graduated Honors

Medical School: University of California, Riverside and Los Angeles
1983 - M.D.

POST GRADUATE TRAINING

Internship: Surgical Internship, General Surgery Department, UCLA School of Medicine, Los Angeles, California
July 1983 - June 1984

Residencies: Orthopaedic Resident, Harbor -UCLA Medical Center, Torrance, California, July 1984 - June 1988

Spinal Cord Injury Service, Rancho Los Amigos Medical Center, Downey, California, March 1986 - June 1986

Fellowship: UCLA, Orthopaedic Spine Surgery
August 1988 - July 1989

BOARD CERTIFICATION

Diplomat, National Board of Medical Examiners - 1984

American Board of Orthopaedic Surgery - July 1991

Recertification American Board of Orthopaedic Surgery

January 2012

**AREAS OF
SPECIALIZATION**

Attending Orthopaedic Surgeon, Harbor-UCLA Medical
Center, Spine Service
1991 – 1995

Assistant Clinical Professor, Department of Orthopaedic
Surgery, UCLA School of Medicine, LA, California
1992 – 1999

Medical Staff, UCLA Medical Center, 10833 Le Conte
Avenue, Los Angeles, California 90095
1996 – 2002

Medical Staff, Saint John's Health Center
1328 22nd street, Santa Monica, California 90404
1999 - Present

Medical Staff, Cedars-Sinai Medical Center,
8700 Beverly Boulevard, Los Angeles, CA 90048
2008-Present

Medical Staff, Surgery Center of Beverly Hills
8750 Wilshire Blvd, Suite 150. Beverly Hills, CA 90211
2019-Present

MEDICAL SOCIETIES

California Medical Association

American Academy of Orthopaedic Surgeons

North American Spine Society

BIBLIOGRAPHY

Publications:

1. Dawson EG, **Kropf MA**, Purcell G, Kabo JM, Kanim LEA, Burt C: Optoelectronic Evaluation of Trunk Deformity in Scoliosis: Spine 18(3) 326-331, 1989.
2. Bae H, Kanim LEA, Sra P, Delamarter R, **Kropf M**: Disc Replacement Versus Fusion: Comparison of Patient Self-Assessments. Western Orthopaedic Association, Texas, 2003

3. Chandler, D.; **Kropf, M.**; Waters, R Classification of Lower Cervical Spine Injuries, in Edited by Martin Camin and Patrick F. O'Leary. T.S. Disorders of the Cervical Spine, Williams and Wilkins, Baltimore, Chapter 20:241-246, 1992.
4. Le AX, Rogers DE, Dawson EG, **Kropf MA**, De Grange DA, Delamarter RB.: Unrecognized durotomy after lumbar discectomy: a report of four cases associated with the use of ADCON-L. Spine. 2001 Jan 1;26(1): 115-7; discussion 118.
5. Pradhan BB, Bae HW, **Kropf MA**, Patel VV, Delamarter RB.: Kyphoplasty reduction of osteoporotic vertebral compression fractures: correction of local kyphosis versus overall sagittal alignment. Spine. 2006 Feb 15;31(4):435-41.
6. Delamarter, RB; Bae, HW; Kanim, LE; **Kropf, MA**; Pradhan, BB: Total disc replacement versus fusion as a salvage treatment for failed back surgery syndrome. J of Neurosurgery, 104 (4): A649-A649 701 APR 2006.
7. Patel VV, Andrews C, Pradhan BB, Bae HW, Kanim LE, **Kropf MA**, Delamarter RB. Computed tomography assessment of the accuracy of in vivo placement of artificial discs in the lumbar spine including radiographic and clinical consequences. Spine. 2006 Apr 15;31(8):948-53.
8. Zigler J, Delamarter R, Spivak JM, Linovitz RJ, Danielson GO 3rd, Haider TT, Cammisa F, Zuchermann J, Balderston R, Kitchel S, Foley K, Watkins R, Bradford D, Yue J, Yuan H, Herkowitz H, Geiger D, Bendo J, Peppers T, Sachs B, Girardi F, **Kropf M**, Goldstein J.: Results of the prospective, randomized, multicenter Food and Drug Administration investigational device exemption study of the ProDisc-L total disc replacement versus circumferential fusion for the treatment of 1-level degenerative disc disease. Spine. 2007 May 15;32(11):1155-62; discussion 1163.
9. Brau SA, Delamarter RB, **Kropf MA**, Watkins RG 3rd, Williams LA, Schiffman ML, Bae HW. Access strategies for revision in anterior lumbar surgery. Spine. 2008 Jul 1;33(15):1662-7
10. Lee J, Shin JS, Lee YJ, Kim MR, Ahn YJ, Park KB, **Kropf MA**, Shin BC, Lee MS, Ha IH. Effects of Shinbaro pharmacopuncture in sciatic pain patients with lumbar disc herniation: study protocol for a randomized controlled trial. Trials. 2015 Oct 12;16:455. doi: 10.1186/s13063-015-0993-6. PubMed PMID: 26459006; PubMed Central PMCID: PMC4603920.
11. Arunakul R, Metzger M, Kanim L, Bae H, **Kropf M**, Delamarter R. Radiographic Analysis of the Lumbosacral Juncture: Is There a Critical Sacral Angle for Total Disc Replacement? Asian Spine J. 2017 Apr;11(2):249-255. doi:10.4184/asj.2017.11.2.249. Epub 2017 Apr 12. PubMed PMID: 28443169; PubMed Central PMCID: PMC5401839.
12. NaPier, Z, Kanim LEA, Thordarson S, **Kropf MA**, Glaeser JD, Bae HW, Demineralized Bone Matrix Bone Biology and Clinical Use, Seminars in Spine Surgery 2016, <https://doi.org/10.1053/j.semss.2016.08.003>
13. Glaeser JD, Salehi K, Kanim LEA, NaPier Z, **Kropf MA**, Cuéllar JM, Perry TG, Bae HW, Sheyn D. NF-κB inhibitor, NEMO-binding domain peptide attenuates intervertebral disc degeneration. Spine J. 2020 May 12:S1529-9430(20)30175-3. doi: 10.1016/j.spinee.2020.04.025. Epub ahead of print. PMID: 32413485.

14. Cuellar JM, Nomoto E, Saadat E, Ma A, Hill P, **Kropf M**, Lanman TH, Perri B, Siddique K, Wagner W, Rao R, Wong A, Eng M, Stephan S, Anand N, Bae H, Rasouli A. Outpatient Versus Inpatient Anterior Lumbar Spine Surgery: A Multisite, Comparative Analysis of Patient Safety Measures. *Int J Spine Surg.* 2021 Sep 22:8123. doi: 10.14444/8123. Epub ahead of print. PMID: 34551930.
15. Chan JL, Quintero-Consuegra MD, Kanim LEA, Kropf MA, Bernstein R, Perry TG, Walker CT, Danielpour M, Tuchman A. Perioperative Complications Following Spine Surgery in Adult Patients with Achondroplasia. *Global Spine J.* 2023 Feb 15:21925682231157373. doi: 10.1177/21925682231157373. Epub ahead of print. PMID: 36792924.
16. Jiang W, Glaeser JD, Kaneda G, Sheyn J, Wechsler JT, Stephan S, Salehi K, Chan JL, Tawackoli W, Avalos P, Johnson C, Castaneda C, Kanim LEA, Tanasansomboon T, Burda JE, Shelest O, Yameen H, Perry TG, Kropf M, Cuellar JM, Seliktar D, Bae HW, Stone LS, Sheyn D. Intervertebral disc human nucleus pulposus cells associated with back pain trigger neurite outgrowth in vitro and pain behaviors in rats. *Sci Transl Med.* 2023 Dec 6;15(725):eadg7020. doi: 10.1126/scitranslmed.adg7020. Epub 2023 Dec 6. PMID: 38055799.

Presentations:

1. **Kropf, M.A.** External Fixation of Distal Radius Fractures. Harbor-UCLA Alumni Meeting. June 1984
2. **Kropf, M.A.** Optoelectronic Evaluation of Trunk Deformity in Scoliosis. SRS/European Spinal Deformities Society, Amsterdam, The Netherlands
3. **Kropf, M.A.** Optoelectronic Evaluation of Trunk Deformity in Scoliosis. Western Orthopaedic Association, Anaheim, California 1989
4. **Kropf, MA**: Optoelectronic Evaluation of Trunk Deformity in Scoliosis. Federation of Spine Associations, 5th Annual Meeting, New Orleans, LA February 11, 1990
5. **Kropf MA**, Sra, P, Kanim, L., Alexander GJ, Delamarter, RB: Evaluation of renal function in patients implanted with Grafton Presented at International Society for the Study of the Lumbar Spine 2001, Edinburgh Scotland.
6. Bae H, Kanim LEA, Sra P, Delamarter R, **Kropf M**: Disc Replacement Versus Fusion: Comparison of Patient Self-Assessments. Western Orthopaedic Association, Texas, 2003
7. Bae, H., Kanim, L.E.A., **Kropf, M.**, Delamarter, R.B.: Prodisc Total Disc Replacement vs. Circumferential Fusion: Comparative Lumbar Motion at the Treated and Adjacent Levels. World Spine II, Chicago, Illinois, August 2003
8. Patel, V., Andrews, C., Kanim, L.E.A., Pradhan, B.B., **Kropf, M.**, Bae, H., Delamarter, R.B.: Intervertebral Disc Replacement Prosthesis Position Evaluation by Computed Tomography – Relevance to Clinical Outcome. Spine Arthroplasty Society, Vienna, Austria, May 2004
9. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. International Society for Surgery of the Lumbar Spine, Porto, Portugal, June 2004.
10. Pradhan BB, Delamarter RB, Patel VV, **Kropf MA**, Bae HW: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Kyphotic Deformity versus Overall Sagittal Alignment International Meeting for Advanced Spinal Techniques, Bermuda, July 2004.
11. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H. Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? International Meeting for Advanced Spinal Techniques, Bermuda, July 2004.
12. Patel, V., Andrews, C., Kanim, L.E.A., Pradhan, B.B., **Kropf, M.**, Bae, H., Delamarter, R.B.: Computed Tomography Evaluation of Intervertebral Prosthesis. International Meeting for Advanced Spinal Techniques, Bermuda, July 2004
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14. Patel VV, Andrews C, Kanim L, Pradhan BB, **Kropf MA**, Bae HW, Delamarter RB: Computed Tomography Evaluation of Intervertebral Prosthesis. International Meeting for Advanced Spinal Techniques, Bermuda, July 2004.
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16. Pradhan, B.B., Bae, H., Kanim, L.E.A., **Kropf, M.A.**, Delamarter, R.B.: Artificial Disc Replacement in the Lumbar Spine – 18 to 24 Month Follow-up. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004.
17. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004
18. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Western Orthopaedic Association Annual Meeting, San Francisco, California, September 2004
19. Bae, H, Zhao L, Kanim L, Wong P, Delamarter R, Dawson EG, **Kropf MA** (Presenting): Inter and Intra variability of BMPs in Commercially Available Demineralized Bone Matrix Products. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
20. Pradhan BB, Delamarter RB, Patel VV, **Kropf MA**, Bae HW, Dawson EG: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, Sept 2004.
21. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Scoliosis Research Society Annual Meeting, Buenos Aires, Argentina, September 2004.
22. Bae, H., Kanim, L.E.A., Sra, P., Delamarter, R.B., **Kropf, M.**: ProDisc Lumbar Disc Replacement vs. Fusion—Preservation of Motion and Patient Self Assessment at one to two Year Follow-up. North American Spine Society, Chicago, Illinois, October 2004
23. Pradhan, B.B., Dawson, E., Patel, V., Delamarter, R.B., **Kropf, M.**, Bae, H.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion using Stand-Alone Femoral Ring Allografts? North American Spine Society, Chicago, Illinois, October 2004.
24. Pradhan BB, Delamarter RB, Patel VV, **Kropf, MA**, Bae, HW, Dawson EG: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody fusion with Stand-Alone Femoral Ring Allografts? North American Spine Society Annual Meeting, Chicago, IL, Nov 2004

25. Patel VV, Andrews C, Delamarter RB, Kanim L, Pradhan BB, **Kropf MA**, Bae HW: Intervertebral Prosthesis Position Evaluated by Computed Tomography – Relevance to Clinical Outcome: Spine Arthroplasty Society, Vienna Austria, May 2004.
26. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005
27. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H.: Kyphoplasty Reduction of Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
28. Pradhan, B.B., Bae, H., Patel, V., **Kropf, M.**, Zhao, L., Wong, P., Delamarter, R.B.: Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantification by Assay and Radiographic Follow-up. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
29. Pradhan, B.B., Bae, H., Patel, V., **Kropf, M.**, Zhao, L., Wong, P., Delamarter, R.B.: Characterization of Anterior Cervical Discectomy and Fusion Using Fibular Allograft and rhBMP-2. Orthopaedic Research Society Annual Meeting, Washington, DC, February 2005.
30. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H., Dawson, E.: Can rhBMP-2 Enhance Fusion in Anterior Lumbar Interbody Fusion with Stand-Alone Femoral Ring Allografts? American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, February 2005.
31. Pradhan, B.B., Delamarter, R.B., Patel, V., **Kropf, M.**, Bae, H.: Kyphoplasty for Osteoporotic Vertebral Compression Fractures – Correction of Local Deformity Versus Overall Sagittal Alignment. American Academy of Orthopaedic Surgeons Annual Meeting, Washington, DC, February 2005.
32. Pradhan, B.B., Bae, H., Patel, V., **Kropf, MA.**, Zhao, L., Delamarter, R.B.: Graft Resorption with rhBMP-2: Lessons from Anterior Cervical Discectomy and Fusion. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005.
33. Pradhan, B.B., Bae, H., **Kropf, MA.**, Patel, V., Zhao, L., Delamarter, R.B.: Leakage of BMP from Absorbable Collagen Sponges During ACDF: Quantification and CT Analysis for Ectopic Bone Formation in Canal. Western Orthopaedic Association Annual Meeting, Waikoloa, Hawaii, July 2005
34. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A radiograph Characterization of the Effect of rhBMP-2 on structural allografts. World Spine III, Rio De Janeiro, Brazil, August 2005.
35. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Patel V.V., Zhao, L., Wong, P., B.S., Delamarter, R.B.: Leakage of rhBMP-2 from Absorbable Collagen Sponges During ACDF: Quantification and Follow-up with Radiographic Analysis. World Spine III, Rio De Janeiro, Brazil, August 2005.
36. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, Lam, L., MPH, **Kropf, M.A.**, Kamrava, E., MS, Delamarter, R.B.: Disc Height Restoration and its Effect on Range of Motion

- and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (ProDisc II). World Spine III, Rio De Janeiro, Brazil, August 2005.
37. Pradhan, B.B., Bae, H., Patel, V.V., Kanim, L.E.A., MA, **Kropf, M.A.**, Delamarter, R.B.: ProDisc-C Artificial Total Cervical Disc Replacement: Twelve to Eighteen Month Results from the United States Clinical Trial. World Spine III, Rio De Janeiro, Brazil, August 2005.
 38. Bae, H., Lam, L., MPH, Wong, P. BS, Pradhan, B.B, **Kropf, M.A.**, Delamarter, R.B.: Comparison of Outcomes in Workers Compensation Versus Non-compensation Patients After Artificial Disc Replacement Surgery. World Spine III, Rio De Janeiro, Brazil, August 2005.
 39. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Patel, V.V., Delamarter, R.B.: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
 40. Pradhan, B.B, Bae, H., **Kropf, M.A.**, Patel, V.V., Zhao, L., Wong, P.,BS, Delamarter, R.B.: Leakage of rhBMP-2 from Absorbable Collagen Sponges during use in Anterior Cervical Discectomy and Fusion: Quantifications and follow-up of clinical and Radiographic Consequences. North American Spine Society, Annual Meeting, Philadelphia, PA 2005.
 41. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Patel, V.V., Zhao, L., Wong, P.,BS, Delamarter, R.B.: Leakage of rhBMP-2 from Absorbable Collagen Sponges During Use in Anterior Cervical Discectomy and Fusion: Quantification and Follow-up of Clinical And Radiographic Consequences. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
 42. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Patel, V.V., Delamarter, R.B.: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
 43. Pradhan, B.B., Bae. H., Lam, L.MPH, **Kropf, M.A.**, Kamrava, E., Delamarter, R.B.: Disc Height Restoration and its Effect on Range of Motion and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (ProDisc-L). Scoliosis Research Society Annual Meeting, Miami, FL., Oct. 2005.
 44. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MS, Pradhan, B.B.: Cervical Disc Replacement: Longer-Term (2 year) Range of Motion and Clinical Outcomes Follow-up with the Pro-Disc-C Prosthesis. Cervical Spine Research Society Annual Meeting, San Diego, CA, Dec. 2005.
 45. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim. L.E.A., Delamarter, R.B.: 2-3 Year Lumbar Disc Replacement Results (Pro-Disc-L) from The U.S. IDE Clinical Trials. American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, Fl, March 2006.
 46. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim. L.E.A, MA, Delamarter, R.B.: The Effect of Workman's Compensation Status on Outcomes after Lumbar Total Disc Replacement. American Association of Neurological Surgeons/ Congress of

Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.

47. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-level Disc Replacement Versus Fusion in the Cervical Spine. American Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
48. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Comparison of Sagittal and Coronal Alignment of the Cervical Spine After One to Three-level artificial Disc Replacements (Pro-Disc-C) Versus Fusion. Association of Neurological Surgeons/ Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves Annual Meeting, Lake Buena, FL, March 2006.
49. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Comparison of Motion at Treated and Untreated Adjacent Segments after Single to Three-level Disc Replacement Versus Fusion in the Cervical Spine. American Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
50. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MS, Pradhan, B.B.: Cervical Disc Replacement: Longer-term (2-year) Range of Motion and Clinical Outcomes Follow-up with the Pro-Disc-C Prosthesis. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
51. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Comparison of Sagittal and Coronal Alignment of the Cervical Spine After One to Three-level Artificial Disc Replacement (Proc-Disc-C) Versus Fusion. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
52. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Patel, V.V., Delamarter, R.B.: Graft Resorption with rhBMP-2 in Anterior Cervical Discectomy and Fusion: A Radiographic Characterization of the Effect of rhBMP-2 on Structural Allografts. Association of Neurological Surgeons Annual Meeting, San Francisco, CA, April 2006.
53. Pradhan, B.B., Spayde, E., Bae, H., **Kropf, M.A.**, Shen, M., Delamarter, R.B.: Return to Work Outcomes after Lumbar Artificial Disc Replacement. Spine Arthroplasty Society, Annual Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
54. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Is the Motion "Normal" after Cervical Disc Replacement? Analysis of Motion at Each Treated and Adjacent Level after Single and Multi-level Disc Replacement Versus Fusion. Spine Arthroplasty Society, Annual Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
55. Spayde, E., Pradhan, B.B., Bae, H., **Kropf, M.A.**, Shen, M., Delamarter, R.B.: Charite-III Versus Pro-Disc-L: Early Head-to Head Results at One Institute. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
56. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Charite-III Versus Pro-Disc-L: Comparison of Intraoperative Intervertebral Distraction between a Non-

- constrained Versus a Semi-constrained Lumbar Total Disc Replacement.
International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
57. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, **Kropf, M.A.**, Delamarter, R.B.: Is the Motion “Normal” After Lumbar Disc Replacement? Analysis of Motion at each Treated and Adjacent Levels after Single and Multi-level Disc Replacement Versus Fusion. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
 58. Pradhan, B.B., Bae, H., Kanim, L.A.E., MA, **Kropf, M.A.**, Delamarter, R.B.: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement-A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
 59. Pradhan, B.B., Bae, H., Kanim, L.E.A., MA, **Kropf, M.A.**, Delamarter, R.B.: Total Disc Replacement Versus Fusion as a Salvage Treatment for failed Back Surgery Syndrome. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
 60. Pradhan, B.B., Spayde, E., Bae, H., **Kropf, M.A.**, Shen, M., Delamarter, R.B.: Return to Work Outcomes after Lumbar Artificial Disc Replacement. International Society for Surgery of The Lumbar Spine, Bergen, Norway, June 2006.
 61. Spayde, E., Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Charite III Versus Pro-Disc-L Early Head to Head Results in a Single Institute. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
 62. Pradhan, B.B., Bae, H., Kanim, L.E.A., MS, **Kropf, M.A.**, Delamarter, R.B.: Is the Motion “Normal” after Multi-level Lumbar Disc Replacement? Analysis of Motion at Each Treated and Adjacent Level after 1 to 3 Level Disc Replacement Versus Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
 63. Shen, M., Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Single Level Artificial Disc Replacement at L4-5 Versus L5-S1: Is There any Difference in Technique, Morbidity or Result? International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
 64. Bae, H., Pradhan, B.B., **Kropf, M.A.**, Kanim, L.E.A., MS, Delamarter, R.B.: Is the Motion “Normal” after Multi-level Cervical Disc Replacement? Analysis of Motion at each Treated and Adjacent Levels 1 to 3-Level Disc Replacement Versus Fusion. . North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
 65. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MS, Delamarter, R.B.: Is the Motion “Normal” after Multi-level Lumbar Disc Replacement?- Analysis of Motion at each Treated and adjacent Levels after 1 to 3-Level Disc Replacement Versus Fusion. North American Spine Society, Annual Meeting, Seattle, WA, September 2006.
 66. Shen, M.S., Bae, H., Pradhan, B.B., **Kropf, M.A.**, Delamarter, R.B.: Clinical Experience Using a Novel Bio-Ceramic for Treating Vertebral Compression Fractures, with 1 to 2 Year Follow-up. American Spine Society, Annual Meeting, Seattle, WA, September 2006.

67. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Pradhan, B.B.: Cervical Disc Replacement: 2 to 3-Year Range of Motion and Clinical Outcomes with the Pro-Disc-C Prosthesis. American Spine Society, Annual Meeting, Seattle, WA, September 2006.
68. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Pro-Disc-L Lumbar Disc Replacement-Results from the US FDA Clinical Trial. Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006.
69. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim L.E.A, Pradhan, B.B.: Cervical Disc Replacement: 2 to 3 Year Range of Motion and Clinical Outcome with the ProDisc-C Prosthesis. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
70. Bae, H., Pradhan, B.B., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: Does bone marrow enhance rhBMP-2 effectiveness for spinal fusion? Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
71. Pradhan, B.B., **Kropf, M.A.**, Bae, H., Kanim, L.E.A., MA, Delamarter, R.B. Is the motion “normal” after lumbar disc replacement? Analysis of motion at each treated and adjacent levels after single and multi-level disc replacement versus fusion. Western Orthopaedic Association Annual Meeting, Santa Fe, New Mexico, Oct. 2006.
72. Delamarter, R.B., Pradhan, B.B., **Kropf, M.A.**, Kanim, L.E.A., Ms, Bae, H.: Podium-Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes and Range of Motion Follow-up with the (Pro-Disc-C) Artificial Disc. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec. 2006.
73. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A, MS, Delamarter, R.B.: Podium-1 Versus 2 versus 3-Level Cervical Artificial Disc Replacement s: A Prospective Report of Clinical Outcomes with the (Pro-Disc-C) Device. Cervical Spine Research Society Annual Meeting, Palm Beach, FL, Dec. 2006.
74. Delamarter, R.B., Pradhan, B.B., Bae, H., **Kropf, M.A.**: Overall Results of the Prospective, Randomized Multi-center IDE Trial of (Pro-Disc-L) vs Lumbar Fusion. American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007.
75. Bae, H., Zhao, L., Kanim, L., Pradhan, B.B., Wong, P., **Kropf, M.A.**, Delamater, R.B.: 3 to 4 Year Prospective Results of 1, 2, and 3 Level Cervical Arthroplasty with the ProDisc-C. The Spine Arthroplasty Society 7th Annual Meeting, Berlin, Germany, May 2007
76. Bae, H., Zhao, L., Kanim, L., Pradhan, B.B., Wong, P., **Kropf, M.A.**, Delamater, R.B.: Up to 5 Year Prospective Results of 1, 2, and 3 Level Cervical Arthroplasty with the ProDisc-C. The Spine Arthroplasty Society 7th Annual Meeting, Berlin, Germany, May 2007
77. Bae, H., Zhao, L., Kanim, L., Pradhan, B.B., Wong, P., **Kropf, M.A.**, Delamater, R.B.: L4-5 Vs. LD-S1: Is one more suited than the other for lumbar Disc Arthroplasty or Fusion Controlled Comparison. The Spine Arthroplasty Society 7th Annual Meeting, Berlin, Germany, May 2007
78. Bae, H., Zhao, L., Kanim, L., Pradhan, B.B., Wong, P., **Kropf, M.A.**, Delamater, R.B.: Variability due to Lot of a Commercially Available Demineralized Bone Matrix

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

79. Pradhan, B.B., Kanim, L.E.A., MS, Bae, H., **Kropf, M.A.**, Delamater, R.B, Up to 5-years Prospective Results of 1,2, and 3-Level Lumbar Arthroplasty with the ProDisc-L Device at a Single Institute. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007
80. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamater, R.B.: L4-5 versus L5-S1: Is one more Suited than the other for Lumbar Disc Arthroplasty or Fusion? A Multicenter, Prospective, Randomized, and Controlled Comparison. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007.
81. Bae, H., Delamarter, R.B, Kanim, L., **Kropf, M.**: Radiologic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with minimum 2 year follow up, USA FDA IDE Study. The Spine Arthroplasty Society (SAS) 9th Annual Meeting, London, England, April 2009.
82. Rasouli, A, Delamarter, R.B., Ashraf, N., Strenge, B., Kanim, L., Bae, H.W., **Kropf, M.**: Multiple Level Lumbar Artificial Disk Replacement Adjacent to Concurrent Anterior Lumbar Interbody Fusion: A Clinical And Radiographic Analysis of Sagittal Motion Preservation at 2-6 years. The Spine Arthroplasty Society (SAS) 9th Annual Meeting, London, England, April 2009.
83. Rasouli, A., Delamarter, R.B., Ashraf, N., Kanim, L., Strenge, B., Bae, H.W., **Kropf, M.**: Multiple Level Cervical ADR: A Clinical and Radiographic Analysis of Sagittal Motion Preservation at 2-5 years. The Spine Arthroplasty Society (SAS) 9th Annual Meeting, London, England, April 2009.
84. Delamarter, R.B., Kanim, L., Bae, H., **Kropf, M.**: Radiographic Range of Motion is related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with a minimum 2 Year Follow up, USA FDA IDE Study. International Society For The Lumbar Spine (ISSLS) Annual Meeting, Miami, Florida, May 2009
85. Bae HW, Kanim LEA, **Kropf M**, Delamarter RB. Radiographic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with Minimum 2- year Follow-up USA FDA IDE Study. Podium Presentation North American Spine Society, Spine Across The Sea. Kapalua, HI. July, 30 2009
86. Bae, H., Kanim, L., **Kropf, M.**, Delamarter, R.B: Radiographic Range of Motion is Related to Clinical Outcomes in Lumbar Artificial Disc Replacement Patients: One Site Analysis of 219 Patients with minimum Two-Year Follow-up, USA, FDA IDE Study. North American Spine Society (NASS) 24th Annual Meeting, San Francisco, California, November 2009.
87. Bae HW, Kanim LEA, Gupta N, **Kropf M**, Davis TT, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. Auckland, New Zealand. April 14, 2010

88. Bae HW, Kanim L, Gupta N, **Kropf M**, Davis TT, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. New Orleans, LA. April 28, 2010.
89. Delamarter, R.B., Zigler, J., Balderston, Spivak, J., Linovitz, R., Zucherman J., Yue, J., Haider, T., Kitchel, S., Cammisa, F., Danileson, G.O., **Kropf, M.**, Goldstein, M: Results from the Prospective, Randomized, Multi-Center IDE Study of Two-Level ProDisc-L Randomized Patients Vs. Continued Access Patients at Two Years: North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
90. Arunakul, R., Metzger, M., Kanim, L, Bae, H., **Kropf, M.**, Delamarter, R.B.: Radiographic Analysis of the Lumbosacral Spine: Is there a Critical Sacral Angle for Total Disc Replacement? North American Spine Society (NASS) 25th Annual Meeting, Orlando, Florida, October 2010.
91. Janssen, M.E., Zigler, J.E., Delamarter, R.B., **Kropf, M.**, Balderstrom R., Spivak, JU., Goldstein, R.: Results from the Prospective, Randomized, MultiCenter IDE Study of 2-level ProDisc-C: Randomized Patients versus Continued Access Patients at 2 Years. The Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010.
92. Bae, H., Kanim, LEA, Gupta, N., **Kropf, M.**, Delamater, R.B.: Marked Improvement in Patients with Vertebroplasty after Painful Osteoporotic Compression Fractures. The Spine Arthroplasty Society (SAS) 10th Annual Meeting, New Orleans, Louisiana, April 2010
93. Bae HW, Kanim LEA, Gupta N, **Kropf MA**, Davis T, Delamarter RB: Marked Improvement in Patients Treated with Vertebroplasty after Painful Osteoporotic Compression Fractures Paper # 81: 17th International Meeting on Advanced Spine Techniques July 2010, IMAST Toronto CA
94. **Kropf M.**, Bae H., Zhao L., Kanim L.E.A., Yalda S., Thang C., Houman J., Delamarter R.B.: Reduced Dose of rhBMP-2 with Demineralized Bone Matrix-Based Product for Spinal Fusion. North American Spine Society (NASS) 26th Annual Meeting, Chicago, IL, November 2-5, 2011.
95. Bae H., **Kropf M.A.**, Kanim L.E.A., Kim J., Delamarter R.B.: Mobi-C Cervical Disc Replacement for the Treatment of One and Two Level Cervical Degenerative Disc Disease: One Site Analysis Participating in the US FDA Trial. The Spine Arthroplasty Society (SAS) 11th Annual Meeting, Las Vegas, NV, April 26-29, 2011.
96. **Kropf MA.:** Extreme Cases. Cedars-Sinai 10th Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, February 3-5, 2011
97. **Kropf MA.:** Extreme Cases. Cedars-Sinai 10th Annual Symposium on Current Concepts in Spinal Disorders. Las Vegas, Nevada, February 3-5, 2012
98. **Kropf MA.:** Extreme Cases. Cedars-Sinai 19th Annual Symposium on Current Concepts in Spinal Disorders, Arthroplasty at L5-S1 Debate: Con. Las Vegas, Nevada, January 30 – February 1, 2020

Posters:

1. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: 1 versus 2 versus 3-level lumbar artificial disc replacement – a prospective report of clinical outcomes with the ProDisc-L device
2. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim L.E.A., Delamarter, R.B.: Effect of motion preserving reconstruction on spinal alignment: cervical segmental and overall coronal and Sagittal alignment after 1 to 3-level disc replacement (ProDisc-C) versus fusion.
3. Bae, H., Pradhan, B.B., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: Spinal Alignment after 1 to 3 level cervical disc replacement (ProDisc-C) versus fusion – segmental and overall coronal and sagittal alignment
4. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Pradhan, B.B.: 1 versus 2 versus 3 level lumbar artificial disc replacement – a prospective report of Clinical outcomes with the ProDisc-L device.
5. Pradhan, B.B., Bae, H., Kanim, L.E.A., **Kropf, M.A.**, Delamarter, R.B.: Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome
5. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Charite III versus ProDisc-L: Comparison of intraoperative intervertebral distraction Between a non-constrained versus a semi-constrained lumbar total disc replacement
6. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: Is the motion normal after cervical disc replacement? Analysis of motion at each treated and adjacent levels after single and multi-level disc replacement versus fusion
7. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Spayde, E. Shen, M., Delamarter, R.B.: Return to work outcomes after lumbar artificial disc replacement
8. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Motion Analysis at Treated and Untreated Levels after Single and Multi-level Cervical Disc Replacement. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006
9. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Sagittal and Coronal Cervical Spine Alignment after 1 to 3 level Disc Replacement: 2 Year Follow-up. American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006.
10. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Disc Height Restoration and it Effect6 on Range of Motion and Clinical Outcome After Semi-constrained Lumbar Total Disc Replacement (Pro-Disc-L). . American Academy of Orthopaedic Surgeons Annual Meeting, Chicago, IL, March 2006

11. Pradhan B.B., Bae. H., **Kropf, M.A.**, Delamarter, R.B.: Charite III Versus Pro-Disc-L: Comparison of intraoperative intervertebral distraction between a Non-constrained Versus a Semi-constrained Lumbar Total Disc Replacement. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
12. Pradhan, B.B., Bae, H., Kanim, L.E.A., **Kropf, M.A.**, Delamarter, R.B.: Total Disc Replacement Versus Fusion as a Salvage Treatment for Failed Back Surgery Syndrome. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006
13. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Pradhan, B.B.: 1 Versus 2 Versus 3-level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
14. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MA, Delamarter, R.B.: Spinal Alignment after 1 to 3 Level Cervical Disc Replacement (Pro-Disc-C) Versus Fusion Segmental and overall Coronal and Sagittal Alignment. Spine Arthroplasty Society, Annual Global Symposium on Motion Preservation Technology, Montreal, CN, May 2006.
15. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MS, Delamarter, R.B.: Effect of Motion Preserving Reconstruction on Spinal Alignment: Cervical Segmental and Overall Coronal and Sagittal Alignment after 1 to 3 Level Disc Replacement (Pro-Disc-C) Versus Fusion. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
16. Bae, H., Pradhan, B.B., Kanim, L.E.A., MS, **Kropf, M.A.**, Delamarter R.B.: 1 Versus 2 Versus 3-Level Cervical Artificial Disc Replacements –A Prospective Report of Clinical Outcomes with the Pro-Disc-C Device. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006
17. Bae, H., Pradhan, B.B., Kanim, L.E.A., MS, **Kropf, M.A.**, Delamarter, R.B.: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacements: A Prospective Report of Clinical Outcomes with the Pro-Disc-C Device. International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006
18. Bae, H., Zhao, L., Pradhan, B.B., Wong. P., BS, **Kropf, M.A.**, Delamarter R.B.: Bone Morphogenetic Protein- 2 Retention in a Vertebral Body Fracture Stabilization Device (OptiMesh). International Meeting for Advanced Spinal Techniques, Athens, Greece, July 2006.
19. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Charite III Versus Pro-Disc-L: Comparison of Intraoperative Intervertebral Distraction between a Non-constrained Versus an A Semi-constrained Lumbar Total Disc Replacement. North American Spine Society, Annual Meeting, Seattle, WA, September 2006

20. Delamarter, R.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., MS, Shen, M., Pradhan, B.B.: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the Pro-Disc-L Device. North American Spine Society, Annual Meeting, Seattle, WA, September 2006
21. Shen, M., Pradhan, B.B., Bae, H., **Kropf, M.A.**, Spayde, E., Delamarter, R.B.: Single Level Artificial Disc Replacement at L-4-5 Versus L5-S1-Is there any Difference in technique, Morbidity, or result? North American Spine Society, Annual Meeting, Seattle, WA, September 2006
22. Shen, M., Bae, H., **Kropf, M.A.**, Delamarter, R.B., Pradhan, B.B.: Single Level Artificial Disc Replacement at L4-5 Versus L5-S1: Is there any Difference in Technique, Morbidity or Result? Scoliosis Research Society Annual Meeting, Monterey, CA, September 2006
23. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: Effect of Motion Preserving Reconstruction on Spinal Alignment: Cervical Segmental and Overall Coronal and Sagittal Alignment after 1 to 3-level Disc Replacement (Proc-Disc-C) Versus Fusion. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct. 2006.
24. Pradhan, B.B., Bae, H., **Kropf, M.A.**, Kanim, L.E.A., Delamarter, R.B.: 1 Versus 2 Versus 3-Level Lumbar Artificial Disc Replacement- A Prospective Report of Clinical Outcomes with the (Pro-Disc-L) Device. Western Orthopaedic Association Annual Meeting, Santa Fe, NM, Oct. 2006.
25. Delamarter, R.B., Pradhan, B.B., **Kropf, M.A.**, Bae, H.: Spinal Alignment after 1to 3 Level Cervical Disc Replacement: (Pro-Disc-C) Versus Fusion: Segmental and Overall Coronal and Sagittal Alignment. Cervical Spine Research Society Annual Meeting, Palm Beach, FL., Dec. 2006
26. Pradhan, B.B., Kanim, L.E.A., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: Cervical Disc Replacement: Over 3-Year Prospective Randomized Clinical Outcomes with (Pro-Discs-C.) American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007
27. Pradhan, B.B., Kanim, L.E.A., MS, Bae, H., **Kropf, M.A.**, Delamarter, R.B.: 1 to 3 Level Cervical Disc Replacements Prospective Clinical Outcomes with (Pro-Disc-C). American Academy of Orthopaedic Surgeons, San Diego, CA, Feb. 2007
28. Pradhan, B.B., Shen, M., Bae, H., **Kropf, M.A.**, Delamarter, R.B.: 3 and 4-Level Anterior Cervical Discectomy and Fusion with rhBMP-2, allograft, and Dynamic Plate: Fusion Rates, Subsidence, Radiographic Incorporation and Complications. Orthopaedic Research Society Annual Meeting, San Diego, CA Feb. 2007
29. Bae, H., Zhao, L., Kanim, L., Pradhan, B.B., Wong, P., **Kropf, M.A.**, Delamater, R.B. Mass Effect versus Biologic Inhibition of rhBMP-2 Activity by Cellular

- Environment (Inorganic Polyethylene Beads versus Fibroblasts)- Implications on use of BMP for Salvage or Pseudarthrosis or Failed Devices. International Society for Surgery of the Lumbar Spine, Hong Kong, China, June 2007
30. Bae HW, Kanim L, Gupta N, **Kropf, M.A.**, Davis TT, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. Auckland, New Zealand. April 14, 2010
 31. Bae HW, Kanim L, Gupta N, **Kropf, M.A.**, Davis TT, Delamarter RB. Marked improvement in patients treated with vertebroplasty after painful osteoporotic compression fractures. Santa Monica, CA. Special Poster Presentation. International Society for Study of the Lumbar Spine. New Orleans, LA. April 28, 2010
 32. Kanim LEA, Houman J, Zhao L, Safai YS, Bae HW. **Kropf, M.A.**, Delamarter RB. Composition of Demineralized Bone Matrix-Based Products on Spinal Fusion Rate. Poster No. 1108 Orthopaedic Research Society (ORS) 2012 Annual Meeting, San Francisco, CA, February 4-7, 2012
 33. Bedi H, **Kropf, M.A.**, Kanim LEA, Kim J, Rasouli A, Bae HW, Delamarter RB: Disc Replacement for Treatment of Degenerative Disc Disease: Analysis of One Site Participating in the USA-FDA trial of Freedom Disc vs. ProDisc-L. NASS 2012.
 34. Jiang W, Glaeser JD, Kaneda G, Stephen S, Khosrowdad S, Chan JL, Tawackoli W, Avalos P, Johnson C, Castaneda C, Kanim LEA, Noll A, Burda J, Shelest O, Perry T, Kropf MA, Bae HW, Stone L and Sheyn D, Investigating the Role of Nucleus Pulposus Cells in Induction of Low Back Pain, Poster Presentation, NIRA Finalist, Orthopaedic Research Society Annual Meeting, Tampa, FL, 2022

Educational Meetings/Faculty:

1. Faculty – Presentation, Synthes Spine AORN Course
2. Faculty - Spine Summit Course Anterior/Posterior Cervical Spine Surgery for 3 Level or Greater Disc Disease, Lumbosacral Fusion Below Previous Scoliosis Fusion in the Adult Patient, Threaded Interbody Cage - Revision Surgery, TLIF – Symposium, , DePuy AcroMed, Inc. Vail, Colorado March 2000
3. Faculty - Current Techniques in Lumbosacral Fixation Minimizing Complications in Lumbosacral Surgery, Posterior Lumbar Interbody Fusion via TLIF Approach Posterior Oblique Approach, Revision Surgery in the Pedicle Screw Fusion Patient, Complications Iliac Crest Bone Graft Site, Medtronic Sofamor Danek, November 2001
4. Faculty - Spine Education Summit, TLIF Procedure - Posterior Oblique Technique, Sacroiliac Joint Fusion with Vertigraft, DePuy AcroMed, Inc. November 2001
5. Clinical Experience- EBI Spine Symposium Cervical Disc Replacement, San Diego, California, March 2005
6. Faculty of Annual Symposium on Current Concepts in Spinal Disorders, 9th through 18th, Las Vegas, NV, 2010-2020.

Research Investigator

Sponsored Clinical Trials (recent to earliest):

1. Kropf MA (co-PI), Artificial Disc Replacement-Cervical BAGUERA®C vs. MOBI-C® 1-level. CT-20-001-001, IRB® Protocol #20202654, G200182,closed
2. Kropf MA (co-PI), Artificial Disc Replacement-Cervical BAGUERA®C vs. MOBI-C® 2-level. CT-20-002-002, Protocol #20201709 G200239, closed
3. Kropf MA (co-PI), Staphylococcus aureus 4-Antigen Vaccine (SA4Ag) Pro00044438 (PF-06290510) – Pfizer, 2018 Start-up, *Closed 2019*
4. Kropf MA (PI), Artificial Disc Replacement-Lumbar Freedom®Disc – AxioMed, *Closed.*
5. Kropf MA (PI), Artificial Disc Replacement-Lumbar PRODISC-L® (ProDisc-Lumbar), Principal Investigator, *Closed*
6. Kropf MA (PI), Artificial Disc Replacement-Cervical PRODISC-C®(ProDisc-Cervical) – Synthes Spine, *Closed*, Principal Investigator, *Closed*
7. Kropf MA (sub-PI), Single Injection of Adult Allogeneic Mesenchymal Precursor Cells Combined with Hyaluronan in Subjects with Chronic Discogenic Lumbar Back Pain Injection Trial, Sub-Investigator, *Closed*
8. Kropf MA (sub-PI), rhGDF-5 Injection Trial for Discogenic Lumbar Back Pain, Sub-Investigator, *Closed*
9. Kropf MA (sub-PI), rhOP-1 Injection Trial for Discogenic Lumbar Back Pain, Sub-Investigator, *Closed*
10. Kropf MA (sub-PI), Resorbable Biologic Disc Augmentation for Treatment of Symptomatic Lumbar Internal Disc Disruption (IDD) with the Biostat® System, Sub-Investigator, *Closed*
11. Kropf MA (Co-I), Coflex™/Paradigm Spine, Co-investigator, *Closed*
12. Kyphoplasty Research Protocol, Co-investigator, *Closed*
13. Spine Tech BAK-C (Cervical) Anterior Cervical Fusion, *Closed*
14. Synthes Syncage Randomized Protocol, Anterior Lumbar Instability Fusion Model, *Closed*
15. In-Space™/Synthes Spine, Principal Investigator, *Closed*

16. NeoDisc™/NuVasive, Principal Investigator, *Closed*
17. Clinical and Radiographic Outcomes of Spine Deformity Comparing Set Screws to Taper Lock Instrumentation, Safety and Efficacy/K2M, Inc./Principal Investigator, *Closed*