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bhatian@uci.edu

CURRENT POSITION:

Chief, Orthopaedic Spine Service
Co-Director, Comprehensive Spine Program
Director, Spinal Services, The Orthopaedic and Sports Medicine Center
University of California, Irvine

Residency Program Director
Associate Professor of Clinical Orthopaedics
Department of Orthopaedic Surgery
University of California, Irvine

EDUCATION:

Stanford University, Stanford, California
Bachelor of Science in Biology, 1990-1994
Graduation with Honors

Baylor College of Medicine, Houston, Texas
Doctor of Medicine with Highest Honors, 1994-1998
AOA, Elected Junior Year
Michael E. DeBakey Scholar Award
Class Valedictorian

University of California, Los Angeles
General Surgery Internship, 1998 - 1999
Orthopaedic Surgery Residency, 1999 - 2003

University of Miami, Jackson Memorial Medical Center, Miami, Florida
Combined Orthopaedic and Neurosurgical Spinal Surgery Fellowship
(Dr. Frank J. Eismont, Director)
July, 2003 – June, 2004

Miami Children's Hospital, Miami, Florida
Spinal Deformity Fellowship (Dr. Harry L. Shufflebarger, Director)
June, 2004 – August, 2004

AWARDS AND HONORS:

Stanford University, Kappa Alpha Order Scholarship Award, 1993

Stanford University, Graduation with Honors, 1994

The Endocrine Society Student Research Award, 1994

Pathogenic Role of Stem Cell Factor in Infertile Men with Sertoli Cell Only Syndrome.

Baylor College of Medicine-Karolinska Institute Research Fellowship Award, 1997

Compartmentalized Bone Regeneration of Cranial Defects with Biodegradable Barriers: an Animal Model.

Baylor College of Medicine, Houston, Texas

Basic Science High Honors, 1995

Butler Award for Academic Excellence, 1995

Alumni Award for Academic Excellence, 1996

Alpha Omega Alpha, 1997 - 1998 (elected Junior year)

Graduation with Highest Honors, 1998

Most Outstanding Research by a Medical Student, 1998

Outstanding Student in Orthopaedic Surgery, 1998

Lange Medical Research Award, Baylor College of Medicine, 1998

Class Valedictorian, 1998

Michael E. DeBakey Scholar Award, 1998

University of California, Los Angeles

Physician of the Year nominee, 2001

Emergency Department Consultant of the Year nominee, 2001

Hibbs Award Nominee, Basic Science, Scoliosis Research Society, 2005

Three-point versus Two-point fixation for Thoracolumbar Burst Fractures.

Hibbs Award Nominee, Basic Science, Scoliosis Research Society, 2005

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury.

Scoliosis Research Society

Edgar Dawson Traveling Fellowship, 2005

Outstanding Paper Nominee, Cervical Spine Research Society, 2005

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury.

University of California, Irvine

Faculty Teaching Award, Orthopaedic Surgery, 2005

American Orthopaedic Association Emerging Leaders, 2005-2009

American Orthopaedic Association - Japanese Orthopaedic Association Exchange
Traveling Fellow, 2008

Outstanding Paper Award Winner, Cervical Spine Research Society, 2008
*The Role of Durotomy and Duraplasty Following Cervical Spinal Cord Injury in an
Animal Model.*

Best Paper Award Winner, American College of Spine Surgery, 2009
*The Role of Durotomy and Duraplasty Following Cervical Spinal Cord Injury in an
Animal Model.*

The Harold and Nancy Willingham Award for Outstanding Research Paper, Western
Orthopaedic Association, 2009
*Biomechanical Evaluation Of Short-Segment Posterior Instrumentation With
Crosslinks In An Unstable Human Burst Fracture Model.*

Hibbs Award Nominee, Basic Science, Scoliosis Research Society, 2009
*Early Surgical Decompression with Duraplasty in Acute Spinal Cord Injury
Improves Functional Recovery in an Animal Model.*

Resident Research Award, California Orthopaedic Association, 2010
Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry.

Triumvirate Grant Award, University of California, 2010
Quantitative MRI and MRA to Study Chronic Discogenic Low Back Pain.

Orange County Medical Association, Physicians of Excellence, 2011, 2012

Southern California "SuperDoctors", Published in Los Angeles Magazine, 2012

RESEARCH GRANTS:

Walter Lorenz Surgical Research Grant, 1998 - 1999
*Compartmentalized Bone Regeneration of Cranial Defects with Biodegradable
Barriers: an Animal Model*
Principal Investigator
\$43,000 total costs

Stryker Biotech Spine Research Grant, 2005 - 2007
Spinal Cord Injury Research Grant
Principal Investigator
\$4000 total costs

EBI Spinal Cord Injury Research Grant, 2005 - 2007

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury

Principal Investigator

\$40,000 total costs

Spinewave Lumbar Sagittal Balance Research Grant, 2005 - 2008

Role of Intradiscal Expansion of Interbody Implants in Improving Lumbar Sagittal Balance

Principal Investigator

\$72,450 total costs

Roman Reed Spinal Cord Injury Research Fund of California, 2007 - present

Carbohydrate Metabolism Impairments in Chronic Human Spinal Cord Injury

Co-Investigator

\$26,850 total costs

Dept. of Defense, U.S. Army Medical Research and Material Command, Congressionally Directed Medical Research Programs, Breast Cancer Research Program, 2007 - present

Development and Evaluation of a Novel Radiation Therapy Technique for the Treatment of Vertebrae with Metastatic Lesions

Co-Investigator

\$499,434 total direct costs, \$761,637 total costs (direct+indirect)

University of California, Triumvirate Research Grant, 2010-2011

Quantitative MRI and MRA to Study Chronic Discogenic Low Back Pain

Co-Principal Investigator

\$15,000 total costs

National Institutes of Health, R-21 Grant Application, 2010

MRI and MRA of Discogenic Low Back Pain

Co-Investigator

\$275,000 total direct costs, \$420,750 total costs (direct+indirect)

National Institutes of Health, R-01 Grant Application, 2010

Pathophysiology of Intervertebral Discs in Acute and Chronic Low Back Pain

Co-Investigator

\$1,000,000 total direct costs, \$1,460,490 total costs (direct+indirect)

PEER REVIEWED PUBLICATIONS:

1. *Transcriptional and Posttranscriptional Regulation of Inhibin alpha-Subunit Gene Expression in Rat Sertoli Cells by 8-Bromo-3', 5'-Cyclic-Adenosine Monophosphate.* Najmabadi H, Rosenberg LA, Yuan QX, Bhatia N, Albiston AL, Burger H, Bhasin S; Molecular Endocrinology, 7(4): 469-476, 1993.

2. *Congenital Syndromes Associated with Nonmelanoma Skin Cancer.* Gherardini G, Bhatia N, Stal S; Clinics of Plastic Surgery, 24(4):649-661, 1997.
3. *Compartmentalized Bone Regeneration of Cranial Defects with Biodegradable Barriers: an Animal Model.* Stal S, Tjelmeland K, Hicks J, Bhatia N, Eppley B, Hollier L; Journal of Craniofacial Surgery, 12(1):51-47, 2001.
4. *Current Information Regarding the Biochemical and Genetic Events Which Occur During Disc Degeneration.* Bhatia N, Wang J; Current Opinion in Orthopaedics, 14(3):153-158, 2003.
5. *Adjacent Segment Degeneration in the Lumbar Spine.* Ghiselli G, Wang JC, Bhatia NN, Hsu WK, Dawson EG; J Bone Joint Surg Am, 86-A(7):1497-1503, 2004.
6. *The Role of the Sternocleidomastoid Muscle Flap for Esophageal Fistula Repair in Anterior Cervical Spine Surgery.* Navarro R, Javahery R, Eismont F, Arnold DJ, Bhatia NN, Vanni S, Levi AD; Spine, 30(20):617-633, 2005.
7. *Body Mass Index in Patients with Slipped Capital Femoral Epiphysis: A Predictive Model.* Bhatia NN, Pirpiris M, Otsuka N; Journal of Pediatric Orthopaedics, 26(2):197-9, 2006.
8. *Transplantation of Preconditioned Schwann Cells in Peripheral Nerve Grafts after Contusion in the Adult Spinal Cord: Improvement of Recovery in a Rat Model.* Rasouli A, Bhatia NN, Suryadevara S, Cahill K, Gupta R; J Bone Joint Surg Am, 88(11):2400-10, 2006.
9. *Minimally Invasive Atlanto-Odontoid Joint Injection for Involvement in Rheumatoid Arthritis* Kostanian VJ, Mathews MS, Westhout FD, Bhatia NN; Interventional Radiology, 12(4):359-363, 2006.
10. *Wound Complications from Idiopathic Clubfoot Surgery: a Comparison of the Modified Turco and the Cincinnati Treatment Methods.* Hsu WK, Bhatia NN, Raskin A, Otsuka NY; Journal of Pediatric Orthopaedics, 27(3):329-332, 2007.
11. *Transplantation of Preconditioned Schwann cells following Hemisection Spinal Cord Injury.* Dinh P, Bhatia NN, Cahill K, Gupta R; Spine, 32(9):943-9, 2007.
12. *A Prospective Evaluation of Diagnostic Modalities in Pediatric Back Pain.* Bhatia NN, Chow G, Timon S, Watts HG; Journal of Pediatric Orthopaedics. 28(2):230-3, 2008.
13. *Orthopaedic Surgeons and Spinal Cord Injury Patients (Invited Review).* Bhatia NN, Gupta G; AAOS Now, 3(2):2009, 27-31.
14. *Resection of Glial Scar Following Spinal Cord Injury.* Rasouli A, Bhatia N, Dinh P, Cahill K, Suryadevara S, Gupta R; J Orthop Research, 27(7):931-6, 2009.

15. *Biomechanical Evaluation of Short-Segment Posterior Instrumentation With and Without Crosslinks in a Human Cadaveric Unstable Thoracolumbar Burst Fracture Model.* Wahba G, Bhatia N, Bui C, Lee K, Lee TQ; Spine, 35(3):278-85, 2010.
16. *Advances in the Management of Spinal Cord Injury.* Gupta R, Bathen M, Smith J, Levi AD, Bhatia NN, Steward O; J Am Acad Ortho Surg, 18(4):210-22, 2010.
17. *The Role of Early Surgical Decompression of the Intra-Dural Space Following Cervical Spinal Cord Injury in an Animal Model.* Smith J, Anderson R, Pham T, Bhatia N, Steward O, Gupta R; J Bone Joint Surg Am, 92(5):1206-14, 2010.
18. *Modic Type I changes of the Lumbar Spine in Golfers.* Mefford J, Sairyo K, Sakai T, Hopkins J, Inoue M, Amari R, Bhatia N, Dezawa A, Yasui N; Skeletal Radiology, 40(4):467-73, 2011.
19. *Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion.* Bhatia NN, Lee KH, Bui CN, Luna M, Wahba GM, Lee TQ; Spine, 37(2):79-85, 2012.
20. *MRI Changes of the Spinal Subdural Space after Lumbar Spine Surgeries: Report of Two Cases.* Sakai T, Sairyo K, Bhatia NN, Miyagi R, Tamura T, Katoh S, Yasui N; Asian Spine J, 5(4):262-6, 2011.
21. *Retrospective Study of Deep Surgical Site Infections Following Spinal Surgery and the Effectiveness of Continuous Irrigation.* Chikawa T, Saka T, Bhatia NN, Sairyo K, Utsunomiya R, Nakamura M, Nakano S, Shimakawa T, Minato A; Br J Neurosurg, 25(5):621-4, 2011.
22. *Posterior Cervical Laminoplasty in the North American Population: A Minimum of Two Year Follow-Up.* Submitted for publication.
23. *Anterior Thoracolumbar Reconstruction Surgery for Late Collapse Following Vertebroplasty: Report of Three Cases.* Miyagi R, Sakai T, Bhatia NN, Sairyo K, Katoh S, Chikawa T; J Med Invest, 58(1-2):148-53, 2011.
24. *Flavokawain B, a Kava Chalcone, Induces Apoptosis in Synovial Sarcoma Cell Lines.* Sakai T, Ramez E, Guo Y, Kim KJ, Mefford J, Hopkins J, Bhatia NN, Zi X, Hoang BH. Accepted for Publication, Journal of Orthopaedic Research.
25. *Drivers of Surgery for the Degenerative Hip, Knee, and Spine: A Systematic Review.* Bederman SS, Rosen CD, Bhatia NN, Kiester PD, Gupta R; Clin Orthop Relat Res, 2011.

26. Analysis of Prognostic Factors in Patients With Chordoma Using the California Cancer Registry. Lee J, Hoang B, Bhatia NN, Zell J. Bone Joint Surg Am. Accepted for Publication.
27. *Endoscopic Excision of a Juxtafacet Cyst in an Adolescent Athlete: A Case Report*. Submitted for Publication.
28. *Clinical Outcomes of Spinal Surgery in Patients Treated with Hemodialysis*. Chikawa T, Sakai T, Bhatia NN, Miyagi R, Sairyo K, Goda Y, Nakamura M, Nakano S, Shimakawa T, Minato A; J Spinal Dis Tech. Accepted for Publication.

BOOK CHAPTERS:

1. *Costal Cartilage Grafts*. In Evans G. ed., Operative Plastic Surgery. Appleton and Lange, Stamford, CT, 2000.
2. *The Management of Spinal Cord Injury in Thoracolumbar Trauma*. In Reitman C. ed., Management of Thoracolumbar Fractures, American Academy of Orthopaedic Surgery, Rosemont, IL, 2004.
3. *Disorder, Disease, and Injuries of the Spine*. In Skinner H. ed. Current Diagnosis and Treatment in Orthopaedics. Lange/Mc-Graw Hill, New York, NY, 2006.
4. *Spinal Cord and Peripheral Nerve Injury*. In Orthopaedic Knowledge Update 9. American Academy of Orthopaedic Surgery, Rosemont, IL, 2007.
5. *Imaging of the Spine*. In Lieberman, JR. ed. In Orthopaedic Board Review. American Academy of Orthopaedic Surgery, Rosemont, IL, 2008.
6. *Thoracic Spinal Stability: Decision Making*. In Patel V., ed. Spine Trauma – Surgical Techniques. Springer, Heidelberg, Germany, 2010.
7. *Lumbar Spinal Stability: Decision Making*. In Patel V., ed. Spine Trauma - Surgical Techniques. Springer, Heidelberg, Germany, 2010.
8. *Post-operative Spinal Infections*. In Garfin S., ed. Rothman-Simeone: The Spine, 6th Edition. Elsevier, Philadelphia, PA, 2011.
9. *Pre-Sacral Lumbar Fusion with TranSI AxiaLIF*. In Wang J., ed. Advanced Reconstruction: The Spine. American Academy of Orthopaedic Surgery, Rosemont, IL, 2011.
10. *Long-term Outcomes and Complications following Anterior and Posterior Cervical Spine Surgery*. In Rao R., ed. Seminars in Spine Surgery. Stellar Medical Publications, Plymouth, MA, 2009.

11. *Spondylolisthesis and Spondylolysis*. In Orthopaedic Knowledge Update 10. American Academy of Orthopaedic Surgery, Rosemont, IL, 2011.
12. *Central Cord Syndrome: Acute Decompression versus Watch and Wait*. In The Cervical Spine, 5th Edition. Lippincott Williams and Wilkins, Philadelphia, PA. In press.
13. *Spine Trauma: Low Lumbar Spine (including L3-L5)*. In Spine Surgery Basics. Springer, Heidelberg, Germany. In Press.
14. *Thoracolumbar Fractures*. In Garg B., ed., Mastering Techniques in Orthopaedic Surgery: Spine. Jaypee Publishers, New Delhi, India. In Press.

PUBLISHED ABSTRACTS:

1. *Pathogenic Role of Stem Cell Factor in Infertile Men with Sertoli Cell Only Syndrome*. Transactions of the Endocrine Society, 1994.
2. *Adjacent Segment Degeneration After Lumbar Fusion: Long Term Survivorship Analysis of 217 Patients*. Proceedings of the North American Spine Society, 2001.
3. *Proximal Segment Degeneration Following Posterior Lumbosacral Fusions (L4-S1 and L5-S1)*. Transactions of the Scoliosis Research Society, 2002.
4. *A Prospective Evaluation of Diagnostic Modalities in Pediatric Back Pain*. Transactions of the Scoliosis Research Society, 2002.
5. *A Prospective Evaluation of Diagnostic Modalities in Pediatric Back Pain*. Transactions of the American Academy of Orthopaedic Surgery, 2003.
6. *Prospective Randomized Study of Modified Harrington Instrumentation Versus Segmental Instrumentation in Adolescent Idiopathic Scoliosis*. Proceedings of the North American Spine Society, 2003.
7. *Adjacent Segment Degeneration After Posterior Lumbosacral Fusion*. Proceedings of the North American Spine Society, 2003.
8. *Diagnostic Techniques Used in Pediatric Back Pain*. Proceedings of the North American Spine Society, annual meeting, 2003.
9. *Can Bilateral Hip Involvement with Slipped Capital Femoral Epiphysis be Predicted by the Body Mass Index?* Transactions of the Pediatric Orthopaedic Society of North America, 2004.
10. *Body Mass Index in Patients with Slipped Capital Femoral Epiphysis*. Transactions of the American Academy of Orthopaedic Surgery, 2004.

11. *Outcome Differences for Primary and Recurrent Disc Excision Patients Treated by a Single Surgeon.* Proceedings of the North American Spine Society, 2004.
12. *Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury.* International Meeting for Advanced Spinal Techniques (IMAST), annual meeting, 2005.
13. *Resection of Glial Scar Following Spinal Cord Injury.* Transactions of the International Meeting for Advanced Spinal Techniques (IMAST), 2005.
14. *Novel Transplantation of Preconditioned Schwann cells for Spinal Cord Injury with a Contusion Model.* The Spine Journal 4(4S): 33S, July/August 2005.
15. *Results of Cervical Open-Door Laminoplasty in Patients with Tandem Cervical and Lumbar Stenosis.* The Spine Journal 4(4S): 2005.
16. *Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in a North American Population.* The Spine Journal 4(4S): 2005.
17. *Three-point versus Two-point fixation for Thoracolumbar Burst Fractures.* Transactions of the Scoliosis Research Society, 2005. Russell Hibbs Award Finalist.
18. *Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury.* Transactions of the Scoliosis Research Society, 2005. Russell Hibbs Award Finalist.
19. *Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in the Elderly Population.* Proceedings of the Cervical Spine Research Society, 2005.
20. *Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury.* Proceedings of the Cervical Spine Research Society, 2005.
21. *Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in a North American Population.* Proceedings of the Cervical Spine Research Society, 2005.
22. *Transplantation of Preconditioned Schwann cells following Hemisection Spinal Cord Injury.* Transactions of the Orthopaedic Research Society 31:1257, 2006.
23. *Transplantation of Preconditioned Schwann cells for Spinal Cord Injury with a Contusion Model.* Transactions of the Orthopaedic Research Society 31:1261, 2006.
24. *Resection of Glial Scar Following Spinal Cord Injury.* Transactions of the Orthopaedic Research Society 31:1258, 2006.

25. *Do Patients with Concurrent Lumbar Stenosis Have Impaired Results Following Cervical Laminoplasty for Spondylotic Myelopathy?* Bhatia N, Geck M, Gottlieb J, Harrison R, Eismont F; Proceedings of the North America Spine Society and Japanese Spine Research Society, Spine Across the Sea: 51-52, 2006.
26. *Laminoplasty for Cervical Spondylotic Myelopathy in the Elderly North American Population: Minimum of Two Year Follow-Up.* Bhatia N, Geck M, Gottlieb J, Harrison R, Eismont F; Proceedings of the North America Spine Society and Japanese Spine Research Society, Spine Across the Sea: 52, 2006.
27. *Novel kyphoplasty/brachytherapy technique for the treatment of vertebral metastases: A mathematical modeling feasibility study.* Proceedings of the Chao Family Comprehensive Cancer Center Conference, Rancho Mirage, CA, 2006.
28. *Novel kyphoplasty/brachytherapy technique for the treatment of vertebral metastases: A Monte Carlo feasibility study.* Marcus P, Sehgal V, Al-Ghazi M, Ramsinghani N, Hoang B, Bhatia N, Skinner H, Keyak J; Med Physics 34:2475-2475, 2007.
29. *The Role of Durotomy and Duraplasty Following Cervical Spinal Cord Injury in an Animal Model.* Proceedings of the Cervical Spine Research Society 36th annual meeting, Austin, TX, 2008.
30. *Biomechanical Evaluation of Short-Segment Posterior Instrumentation with Crosslinks in an Unstable Human Burst Fracture Model.* Transactions of the Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.
31. *Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion.* Transactions of the Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.
32. *Biomechanical Comparison of Trans-Sacral and Triangular Osteosynthesis in a Vertically Unstable Pelvic Fracture Model.* Transactions of the Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.
33. *The Role of Decompression with either Durotomy or Duraplasty Following Cervical Spinal Cord Injury.* Transactions of the Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.
34. *Posterior Cervical Instrumentation: Past, Present, and Future and the Roy-Camille Technique of Lateral Mass Fixation.* Bhatia N, Sairyo K. Transactions of the Japanese Society for Spine Surgery and Related Research, 38th Annual Meeting, Kobe, Japan, 2009.

35. *Spinal Surgery and Implants*. Bhatia N. Proceedings of the American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference and Exhibition, Irvine, CA, 2009.
36. *Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion*. Bhatia N, Lee K, Bui C, Wahba G, Estess A, Luna M, Lee TQ. Proceedings of the American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference and Exhibition, Irvine, CA, 2009.
37. *Biomechanical Evaluation of Short-Segment Posterior Instrumentation With Crosslinks in an Unstable Human Burst Fracture Model*. Wahba G, Bhatia N, Lee T. Proceedings of the American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.
38. *Biomechanical Comparison of Trans-Sacral and Triangular Osteosynthesis in a Vertically Unstable Pelvic Fracture Model*. Zamorano D, Min K, Wahba G, Bhatia N, Garcia I, Lee T. Proceedings of the American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.
39. *Early Surgical Decompression with Duraplasty in Acute Spinal Cord Injury Improves Functional Recovery in an Animal Model*. Smith J, Anderson R, Pham T, Bhatia N, Steward O, Gupta R. Transactions of the Scoliosis Research Society annual meeting, San Antonio, 2009.
40. *Short-Segment Posterior Instrumentation in Unstable Thoracolumbar Burst Fractures: Do Crosslinks Improve Biomechanical Stability?* Wahba G, Bhatia N, Bui C, Lee K, Lee TQ. Proceedings of the annual meeting of the North American Spine Society, San Francisco, 2009.
41. *The Role of Decompression with Either Durotomy or Duraplasty Following Cervical Spinal Cord Injury*. Smith J, Anderson R, Pham T, Bhatia N, Steward O, Gupta R. Proceedings of the annual meeting of the North American Spine Society, San Francisco, 2009.
42. *Comparison of Trans-sacral and Triangular Osteosynthesis in an Unstable Pelvic Fracture*. Min KS, Zamorano D, Wahba G, Garcia I, Bhatia N, Lee TQ. Transactions of the annual meeting of the American Academy of Orthopaedic Surgery, New Orleans, 2010.
43. *Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry*. Lee J, Bhatia N, Hoang B, Ziogas A, Zell J. Proceedings of the annual meeting of the California Orthopaedic Association, Lake Tahoe, 2010.

44. *Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry.* Lee J, Bhatia N, Hoang B, Ziogas A, Zell J. Transactions of the annual meeting of the American Academy of Orthopaedic Surgery, San Diego, CA, 2011.
45. *Biomechanical Comparison of Unilateral versus Bilateral C1-C2 Fixation Following Odontoid Fracture.* Bhatia N, Rama A, Sievers B, Quigley R, Lee TQ, Proceedings of the annual meeting of the American College of Spine Surgery, Las Vegas, NV, 2011.

SCIENTIFIC PRESENTATIONS:

Pathogenic Role of Stem Cell Factor in Infertile Men with Sertoli Cell Only Syndrome. The Endocrine Society, annual meeting, 1994.

Adjacent Segment Degeneration After Lumbar Fusion: Long Term Survivorship Analysis of 217 Patients. North American Spine Society, annual meeting, 2001.

Proximal Segment Degeneration Following Posterior Lumbosacral Fusions (L4-S1 and L5-S1). Scoliosis Research Society, annual meeting, 2002.

A Prospective Evaluation of Diagnostic Modalities in Pediatric Back Pain. Scoliosis Research Society, annual meeting, 2002.

Diagnostic Techniques Used in Pediatric Back Pain. North American Spine Society, annual meeting, 2003.

Adjacent Segment Degeneration After Posterior Lumbosacral Fusion. North American Spine Society, annual meeting, 2003.

Prospective Randomized Study of Modified Harrington Instrumentation Versus Segmental Instrumentation in Adolescent Idiopathic Scoliosis. North American Spine Society, annual meeting, 2003.

A Prospective Evaluation of Diagnostic Modalities in Pediatric Back Pain. American Academy of Orthopaedic Surgery, annual meeting, 2003.

Outcome Differences for Primary and Recurrent Disc Excision Patients Treated by a Single Surgeon. North American Spine Society, annual meeting, 2004.

Body Mass Index in Patients with Slipped Capital Femoral Epiphysis. American Academy of Orthopaedic Surgery, annual meeting, 2004.

Can Bilateral Hip Involvement with Slipped Capital Femoral Epiphysis be Predicted by the Body Mass Index? Pediatric Orthopaedic Society of North America, annual meeting, 2004.

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury. International Meeting for Advanced Spinal Techniques (IMAST), annual meeting, 2005.

Resection of Glial Scar Following Spinal Cord Injury. International Meeting for Advanced Spinal Techniques (IMAST), annual meeting, 2005.

Results of Cervical Open-Door Laminoplasty in Patients with Tandem Cervical and Lumbar Stenosis. North American Spine Society, annual meeting, 2005.

Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in a North American Population. North American Spine Society, annual meeting, 2005.

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury. North American Spine Society, annual meeting, 2005.

Three-point versus Two-point fixation for Thoracolumbar Burst Fractures. Scoliosis Research Society, annual meeting, 2005. Hibbs Award Nominee.

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury. Scoliosis Research Society, annual meeting, 2005. Hibbs Award Nominee.

Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in a North American Population. Cervical Spine Research Society, annual meeting, 2005.

Novel Transplantation of Preconditioned Schwann Cells Following Spinal Cord Contusion Injury. Cervical Spine Research Society, annual meeting, 2005. Outstanding Paper nominee.

Results of Open Door Laminoplasty for Cervical Spondylotic Myelopathy in the Elderly Population. Cervical Spine Research Society, annual meeting, 2005.

Novel Transplantation of Preconditioned Schwann cells for Spinal Cord Injury with a Contusion Model. Orthopaedic Research Society annual meeting, 2006.

Resection of glial scar following spinal cord injury. Orthopaedic Research Society annual meeting, 2006.

Transplantation of Preconditioned Schwann cells following Hemisection Spinal Cord Injury. Orthopaedic Research Society annual meeting, 2006.

Do Patients with Concurrent Lumbar Stenosis Have Impaired Results Following Cervical Laminoplasty for Spondylotic Myelopathy? North America Spine Society and Japanese Spine Research Society, Spine Across the Sea, 2006.

Laminoplasty for Cervical Spondylotic Myelopathy in the Elderly North American Population: Minimum of Two Year Follow-Up. North America Spine Society and Japanese Spine Research Society, Spine Across the Sea, 2006.

Novel kyphoplasty/brachytherapy technique for the treatment of vertebral metastases: A mathematical modeling feasibility study. Chao Family Comprehensive Cancer Center Conference, Rancho Mirage, CA, Nov 3-5, 2006.

Lost in Translation? Is Cervical Laminoplasty Valid in the North American Population. Japanese Orthopaedic Association annual meeting, Sapporo, Japan, 2008.

Cervical Open-Door Lamnioplasty in North American Spondylotic Myelopathic Patients. 5th Alps Orthopaedic Seminar in Shinshu University, Shinshu, Japan, 2008.

The Role of Durotomy and Duraplasty Following Cervical Spinal Cord Injury in an Animal Model. Cervical Spine Research Society, 36th annual meeting, Austin, TX, 2008.

Biomechanical Evaluation of Short-Segment Posterior Instrumentation with Crosslinks in an Unstable Human Burst Fracture Model. Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.

Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion. Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.

Biomechanical Comparison of Trans-Sacral and Triangular Osteosynthesis in a Vertically Unstable Pelvic Fracture Model. Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.

The Role of Decompression with either Durotomy or Duraplasty Following Cervical Spinal Cord Injury. Orthopaedic Research Society annual meeting, Las Vegas, NV, 2009.

Posterior Cervical Instrumentation: Past, Present, and Future. Japanese Society for Spine Surgery and Related Research, 38th Annual Meeting, Kobe, Japan, 2009.

Biomechanical Evaluation of Short-Segment Posterior Instrumentation with Crosslinks in an Unstable Human Burst Fracture Model. Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.

Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion. Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.

Biomechanical Comparison of Trans-Sacral and Triangular Osteosynthesis in a Vertically Unstable Pelvic Fracture Model. Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.

Spinal Surgery and Implants. Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009.

Early Surgical Decompression with Duraplasty in Acute Spinal Cord Injury Improves Functional Recovery in an Animal Model. Scoliosis Research Society, 44th Annual Meeting, San Antonio, TX, 2009.

Short-Segment Posterior Instrumentation in Unstable Thoracolumbar Burst Fractures: Do Crosslinks Improve Biomechanical Stability? North American Spine Society, 24th Annual Meeting, San Francisco, 2009.

The Role of Decompression with Either Durotomy or Duraplasty Following Cervical Spinal Cord Injury. North American Spine Society, 24th Annual Meeting, San Francisco, 2009.

Comparison of Trans-sacral and Triangular Osteosynthesis in an Unstable Pelvic Fracture. American Academy of Orthopaedic Surgery, Annual Meeting, New Orleans, 2010.

Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry. California Orthopaedic Association, Annual Meeting, Lake Tahoe, CA, 2010.

Prognostic Factors for Patients with Chordoma
Western Orthopaedic Association, Annual Meeting, Monterey, CA, 2010.

Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry. North American Spine Society, Annual Meeting, Orlando, FL, 2010.

Flavokawain B, a Kava Chalcone, Induces Apoptosis in Synovial Sarcoma Cell Lines. American Association for Cancer Research, Annual Meeting, Orlando, FL, 2011.

Analysis of Prognostic Factors in Chordoma Using the California Cancer Registry. American Academy of Orthopaedic Surgery, Annual Meeting, San Diego, CA, 2011.

Biomechanical Comparison of Unilateral versus Bilateral C1-C2 Fixation Following Odontoid Fracture. American College of Spine Surgery, Annual Meeting, Las Vegas, NV, 2011.

WORKS IN PROGRESS:

The Effect of Loading on Autonomic Regulation, Muscle Mass, and Bone Density in Patients with Chronic Spinal Cord Injury

Os Odontoneium with Associated Upper Cervical Anomalies

Autonomic Dysfunction and Training in Patients with Chronic and Acute Spinal Cord Injury

Carbohydrate Metabolism Impairments in Chronic Human Spinal Cord Injury

Adjacent Segment Degeneration After Posterior Spinal Fusion in Patients with Adolescent Idiopathic Scoliosis: a Long Term Survivorship Analysis.

INVITED LECTURES:

Kartagener's Syndrome in a Patient with Craniofacial Abnormalities. Plastic Surgery Grand Rounds, Baylor College of Medicine, 1996

Posterior Cervical Surgery. Symposium for Minimally Invasive and Posterior Cervical Surgery, 2004

New Technologies in Spine Surgery. Neurosurgery Grand Rounds, University of California, Irvine, 2005

Low Back Pain and the Primary Care Physician. Family Practice Review Symposium, Long Beach Memorial Hospital, 2005

Lumbar Spinal Stenosis and Back Pain. Grand Rounds, Kaiser Whittier Medical Center, 2005

Spinal Cord Injury Complications. Grand Rounds, Torrance Memorial Medical Center, 2005

Posterior Cervical Laminoplasty. Blackstone Instructional Meeting, 2005

Spinal Cord Injury. Seaspine Users Meeting, 2005

Adult Back Pain. Grand Rounds, Lakewood Regional Medical Center, 2005

Diagnostic Techniques Used in Pediatric Back Pain. University of California, Irvine, Graduate Research Forum, 2005

New Technologies in Spinal Surgery. Neurosurgery Grand Rounds, University of California, Irvine, 2005

Spinal Cord Injury Complications, Grand Rounds, Torrance Memorial Hospital, Torrance, CA, 2005

Techniques in Posterior Cervical Fixation. Current Concepts and Techniques for Spine Surgery Symposium, San Diego, CA 2005

Lumbar Spinal Stenosis and Back Pain. Grand Rounds, Kaiser Whittier Medical Center, Whittier, CA, 2005

Modern Techniques in Spinal Surgery. Western Orthopaedic Association, 2005

Laminoplasty in the North American Population. University of California, Irvine, Graduate Research Forum, 2005

Posterior Cervical Surgery and Instrumentation. AO North America, Chicago, IL 2006.

Low Back Pain. Grand Rounds, South Coast Medical Center, 2006

Lumbar Spinal Disorders and the Primary Care Physician. Family Practice Review Symposium, UC Irvine-Long Beach Memorial Hospital, Long Beach, CA 2006

Cervical Evaluation in the Multi-Trauma Patient. University of California, Irvine, Graduate Research Forum, 2007

Anterior Cervical Surgery Advanced Techniques. Cervical and Lumbar Instructional Course, Santa Monica, CA, 2007

Lumbar Spinal Stenosis, Back Pain, and Disc Herniations. Family Practice Review Symposium, UC Irvine-Long Beach Memorial Hospital, Long Beach, CA 2007

Complications of Posterior Cervical Surgery. Complex Cervical Surgery Symposium, Denver, CO, 2008

Modern Techniques in Spinal Surgery. University of California, Irvine, Department of Biomechanical Engineering, BME 200, 2008

Outcomes of Posterior Cervical Laminoplasty in Various American Population. Grand Rounds, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2008

The Efficacy of Posterior Cervical Laminoplasty in Elderly Myelopathic Patients. Grand Rounds, Dokkyo Medical University, Dokkyo, Japan, 2008

Lost in Translation? Is Cervical Laminoplasty a Valid Technique in the North American Population? Grand Rounds, Department of Orthopaedic Surgery, Wakayama Medical University, Wakayama, Japan, 2008

Lumbar Spinal Disorders. Grand Rounds, Lakewood Medical Group, Lakewood, CA, 2009

Recent Updates in Spinal Surgery Techniques. University of California, Irvine, Department of Biomechanical Engineering, BME 200, 2009

Modern Updates in American Orthopedics and Spine Surgery. Grand Rounds, Tokushima University, Tokushima, Japan, 2009

Spinal Surgery and Implants. The American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference and Exhibition, Irvine, CA, 2009

Biomechanical Evaluation of an Expandable Cage in Single Segment Posterior Lumbar Interbody Fusion. The American Society of Mechanical Engineering 4th Frontiers in Biomedical Devices Conference and Exhibition, Irvine, CA, 2009

Metastatic Spine Disease: Surgical Management. Contemporary Concepts in Spine Surgery, American College of Spinal Surgery, Newport Beach, CA, 2009

Cervical Laminoplasty versus Laminectomy and Fusion. Advanced Techniques in Spine Surgery, Boston, MA, 2009.

Techniques for Open and Minimally Invasive Transforaminal Lumbar Interbody Fusion (TLIF). Advanced Techniques in Spine Surgery, Boston, MA, 2009.

Anterior Cervical Discectomy and Fusion versus Cervical Total Disc Arthroplasty. Advanced Techniques in Spine Surgery, Boston, MA, 2009.

Minimally Invasive Cervical Spine Surgery. Pain Management Grand Rounds, University of California, Irvine, 2010.

Posterior Minimally Invasive Approaches to the Cervical Spine. Instructional Course Lecture, American Academy of Orthopaedic Surgery, Annual Meeting, New Orleans, LA, 2010.

Spinal Surgery Implants: Development and Modern Approach. 5th Annual Conference of Spine Surgeons of Spain and Portugal, Lisbon, Portugal, 2010.

Internal Decapitation: Review of the Literature and Case Presentation. 5th Annual Conference of Spine Surgeons of Spain and Portugal, Lisbon, Portugal, 2010.

The Anterior Approach for Treatment of Thoracolumbar Fractures and Dislocations. 5th Annual Conference of Spine Surgeons of Spain and Portugal, Lisbon, Portugal, 2010.

Minimally Invasive Cervical Spine Surgery, Advanced Techniques in Cervical Spine Surgery, American Academy of Orthopaedic Surgery, Annual Meeting, San Diego, CA, 2011.

Post-operative Anterior Cervical Hematoma and Cricothyroidotomy: How to Manage and Treat. 4th Annual Cervical Spine Decompression and Stabilization Techniques, Cervical Spine Research Society, St. Louis, MO, 2011.

The Cervical Spine: "State of the Art". 1st Annual UC Irvine Spine Symposium, Irvine, CA, 2011.

Diagnosis and Management of Cervical Spinal Disorders. 7th Annual Surgery for Primary Care Physicians Conference, Orange, CA, 2011.

Emergent Cricothyroidotomy and Airway Management. 16th Annual Cervical Spine Research Society Instructional Course, Phoenix, AZ, 2011.

INVITED FACULTY:

Symposium for Minimally Invasive and Posterior Cervical Surgery, San Diego, CA, 2004

Moderator, Basic Science, North American Spine Society, 2005

Advanced Surgical Techniques Meeting, Santa Monica, CA, 2005

Family Practice Review Symposium, UC Irvine-Long Beach Memorial Hospital, Long Beach, CA 2005

Symposium for Lumbar and Cervical Surgery, New York, NY, 2005

Family Practice Review Symposium, UC Irvine-Long Beach Memorial Hospital, Long Beach, CA 2005

Advanced Spinal Techniques, Dallas, Texas, 2006

19th Annual Disorders of the Spine, Whistler, Canada, 2007

Cervical and Lumbar Instructional Course, Santa Monica, CA 2007

20th Annual Disorders of the Spine, Whistler, Canada, 2008

Complex Cervical Surgery Symposia, Denver, Colorado, 2008

Visiting Professor, Wakayama Medical University, Japan, 2008

Visiting Professor, Dokkyo Medical University, Japan, 2008

Visiting Professor, Keio University, Japan, 2008

Invited Guest Lecturer, Japanese Orthopaedic Association Annual Meeting, Sapporo, Japan, 2008

Visiting Professor, Shinshu University School of Medicine, Japan, 2008

Visiting Professor, Kyoto Prefectural University of Medicine, Japan, 2008

Visiting Professor, Tokushima Prefectural University, Japan, 2009

Moderator, Posterior Cervical Surgery, Japanese Society for Spine Surgery and Related Research, 38th Annual Meeting, Kobe, Japan, 2009

Moderator, Post-operative Complications, Contemporary Concepts in Spine Surgery, The American College of Spinal Surgery, Newport Beach, CA, 2009

Moderator, Spinal Surgery and Implants, Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Irvine, CA, 2009

Lecturer and Moderator, Advanced Techniques in Spine Surgery, Boston, MA, 2009.

Lecturer, Instructional Course Lectures, Advanced Techniques in Cervical Spine Surgery, American Academy of Orthopaedic Surgery, Annual Meeting, New Orleans, LA, 2010.

Lecturer, 5th Annual Conference of Spine Surgeons of Spain and Portugal, Lisbon, Portugal, 2010.

Program Chair and Moderator, Annual Meeting, Western Orthopaedic Association, Monterey, CA, 2010.

Moderator, Spinal Surgery and Implants, Frontiers in Biomedical Devices Conference, American Society of Mechanical Engineering, Newport Beach, CA, 2010.

Moderator and Lecturer, Instructional Course Lectures, Advanced Techniques in Cervical Spine Surgery, American Academy of Orthopaedic Surgery, Annual Meeting, San Diego, CA, 2011.

Lecturer and Lab Instructor, 4th Annual Cervical Spine Decompression and Stabilization Techniques, Cervical Spine Research Society, St. Louis, MO, 2011.

Faculty Member, 16th Annual Instructional Course, Cervical Spine Research Society, Phoenix, AZ, 2011.

PROGRAM COMMITTEES:

Chairman, Program Committee, Western Orthopaedic Association, Annual Meeting, 2010

Program Committee, Western Orthopaedic Association, Annual Meeting, 2009 – 2011

Chairman, Regional Spinal Surgery Conference, University of California, Irvine, 2004 - present

Chairman, PediGuard Technique Symposium, University of California, Irvine, 2005 – 2010

Program Chairman, UC Irvine Spine Symposium, 2011

Director, Self-Assessment Examination Program, Western Orthopaedic Association, Annual Meeting 2012

Lecturer, Instructional Course Lecture, Cervical Spine Research Society, Annual Meeting, Phoenix, AZ, 2011.

EDITORIAL POSITIONS:

Editor, Contemporary Spine Surgery

Editor, Orthopaedic Knowledge Online

Contributor, SpineUniverse.com

Contributor, SpineFellows.com

Reviewer, The Spine Journal

Reviewer, Clinical Orthopaedic and Related Research

Reviewer, Journal of Applied Physiology

PROFESSIONAL ORGANIZATIONS:

American Academy of Orthopaedic Surgeons, Member

Cervical Spine Research Society, Member

North American Spine Society, Member

Scoliosis Research Society, Member

American Orthopaedic Association Emerging Leaders Program

California Orthopaedic Association, Member

Western Orthopaedic Association, Member

UC Irvine University Physicians and Surgeons

Alpha Omega Alpha Honor Society

PROFESSIONAL CERTIFICATION:

Medical License, State of California Board of Medical Examiners, 2000

DEA Certification, 2000

Board Certified, American Board of Orthopaedic Surgery, 2006

COMMITTEE POSITIONS HELD:

North American Spine Society, Committee on Biologics and Basic Science 2011 – present

Board Member, Western Orthopaedic Association 2011- present

CME Committee, Western Orthopaedic Association, 2012 – present

CME Committee, University of California, Irvine, School Of Medicine, 2009 – present

UC Irvine School of Medicine Senate Assembly Orthopaedic Surgery Representative,
2010 - present