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ACADEMIC INTERESTS

Spine Surgery, Orthopaedic Surgery

TRAINING/EMPLOYMENT

July 2015	Appointment to Teaching Faculty of Cedars-Sinai Medical Center (Los Angeles, CA): Department of Neurosurgery Attending
Aug 2014	Fellow, American Academy of Orthopaedic Surgeons
Aug 2012	Board Certified, American Board of Orthopaedic Surgery
Oct 2009-current	Appointment to Member of Cedars-Sinai Spine Center of Excellence (Los Angeles, CA)
Sept 2009-current	Appointment to Medical Staff Cedars-Sinai Medical Center (Los Angeles, CA): Department of Orthopaedic Surgery Attending
Aug 2008-2009	Cedars-Sinai Institute for Spinal Disorders (Los Angeles, CA): Fellowship Training in Combined Neurosurgery/Orthopaedic Spine Surgery
June 2003-2008	University of Maryland / Shock Trauma: Resident Physician in Orthopaedic Surgery
May 1999-2003	University of Chicago Pritzker School of Medicine: Medical Doctorate
May 1994-1998	Cornell University: Bachelor of Arts in Biology. Graduated <i>Dean's Scholar</i>

AWARDS AND HONORS

2014	Research Grant, "Improving the delivery of O-arm Navigation Spine Surgery: An analysis of workflow," Medtronic, Inc
2014	Vice-President, The Spine Institute Foundation
2014	Director of Education and Spine Fellowship Training, The Spine Institute Foundation
2013	Haid Research Award
2008-2009	Synthes AO Spine Fellow
2008	University of Maryland Orthopaedics Administrative/Academic Chief Resident
2008	Outstanding Physician Colleague Nominee- Shock Trauma Hospital
2006	Globus Medical Inc., Research Grant for over \$20,000
2006	AAOS Abstract/Podium Acceptance
2004	Maryland Orthopaedic Association- Clinical Research Award
2003	Medical Doctorate with Honors
2000	National Institutes of Health Summer Research Grant
1998	Dean's Scholar, Cornell University
1994-98	Deans' List- eight semesters
1997	Tufts University School of Medicine Externship
1994	National Merit Semifinalist

PUBLICATIONS AND RESEARCH

Drazin D, Hussain M, Harris J, Hao J, Phillips M, Kim TT, Johnson JP, Bucklen B. The role of sacral slope in lumbosacral fusion: a biomechanical study. *J Neurosurg Spine*. 2015 Aug 14;1-9.

Al-Khouja L, Shweikeh F, Pashman R, Johnson JP, Kim TT, Drazin D. Economics of image guidance and navigation in spine surgery. *Surg Neurol Int*. 2015 Jun 25;6(Suppl 10):S323-6.

Drazin D, Shweikeh F, Wieshofer E, Kim TT, Johnson JP. Public awareness of the bone morphogenic protein controversy: Evidence from news publications. *Surg Neurol Int*. 2014 Dec 30;5(Suppl 15):S529-35.

Al-Khouja LT, Baron EM, Johnson JP, Kim TT, Drazin D. Cost-effectiveness analysis in minimally invasive spine surgery. *Neurosurg Focus*. 2014 Jun;36(6):E4.

Drazin D, Kim TT, Polly DW Jr, Johnson JP. Introduction: Intraoperative spinal imaging and navigation. *Neurosurg Focus*. 2014 Mar;36(3):Introduction.

Johnson JP, Drazin D, King WA, Kim TT. Image-guided navigation and video-assisted thoracoscopic spine surgery: the second generation. *Neurosurg Focus*. 2014 Mar;36(3):E8.

Jeswani S, Drazin D, Hsieh JC, Shweikeh F, Friedman E, Pashman R, Johnson JP, Kim TT. Instrumenting the small thoracic pedicle: the role of intraoperative computed tomography image-guided surgery. *Neurosurg Focus*. 2014 Mar;36(3):E6.

Hsieh JC, Drazin D, Firempong AO, Pashman R, Johnson JP, Kim TT. Accuracy of intraoperative computed tomography image-guided surgery in placing pedicle and pelvic screws for primary versus revision spine surgery. *Neurosurg Focus*. 2014 Mar;36(3):E2.

Shweikeh F, Amadio JP, Arnell M, Barnard ZR, Kim TT, Johnson JP, Drazin D. Robotics and the spine: a review of current and ongoing applications. *Neurosurg Focus*. 2014 Mar;36(3):E10.

Kim TT, Drazin D, Shweikeh F, Pashman R, Johnson JP. Clinical and radiographic outcomes of minimally invasive percutaneous pedicle screw placement with intraoperative CT (O-arm) image guidance navigation. *Neurosurg Focus*. 2014 Mar;36(3):E1.

Shirzadi A, Drazin D, Gates M, Shirzadi N, Bannykh S, Fan X, Hunt L, Baron EM, King WA, Kim TT, Johnson JP. Surgical management of primary spinal hemangiopericytomas: an institutional case series and review of the literature. *Eur Spine J*. 2013 May;22 Suppl 3:S450-9.

Drazin D, Shirzadi A, Jeswani S, Ching H, Rosner J, Rasouli A, Kim T, Pashman R, Johnson JP. Direct surgical repair of spondylolysis in athletes: indications, techniques, and outcomes. *Neurosurg Focus*. 2011 Nov;31(5):E9.

Kim TT, Johnson JP, Murphy J, Pashman RS. "Preoperative Sagittal Parameters Determine Proximal Fusion Levels in Adult Idiopathic Thoracolumbar Scoliosis." *Abstract submitted SRS and NASS 2011*.

Kim TT, Johnson JP, Murphy J, Pashman RS. "Elimination of Radiation Exposure to the Spine Surgeon in Deformity Surgery: Experience with Modern Computed Tomography (CT)-Guided Image Navigation." *Abstract submitted SRS and NASS 2011*.

Kim TT, Johnson JP, Murphy J, Pashman RS. "Idiopathic Scoliosis Surgery Before or After High School Graduation-A Retrospective Cohort Study." *Abstract submitted SRS and NASS 2011*.

Johnson JP, Kim TT, Vaynman SS, Ghostine S, Turner MS, Woods KR, Grode ML, Samudrala S, Pashman RS. "Computerized Image Guided Spine Surgery: The State-of-the-Art." *Presented at AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 2011.*

Kim TT, Johnson JP, Murphy J, Pashman RS. "Preoperative Risk Factors Predicting Loss of Sagittal Alignment After Short Fusions (T10-Pelvis) for Adult Idiopathic Scoliosis." *Presented at SRS 2010.*

Kim TT, Paquette JS, Johnson JP, Murphy J, Pashman RS. "The Sagittal Reconstruction Parameters Classification for the Surgical Treatment of Thoracolumbar and Lumbar Adult Idiopathic Scoliosis." *Presented at AAOS 2009.*

Kim TT, Paquette JS, Johnson JP, Murphy J, Pashman RS. "Unilateral versus Bilateral Iliac Fixation in Long Adult Deformity Fusions: A Cohort Analysis." *Presented at NASS 2009.*

Kim TT, Ludwig S, Gelb DE, Hsieh A, Kim HC. "Biomechanical Analysis of Anterior Instrumentation at the Thoracolumbar Junction: A Cadaveric Study Comparing Modern Plating and Rod Systems." *Presented at NASS 2009.*

Ghostine S, Kim TT, Laurysen C, Samudrala S, Johnson JP. "Intra-articular C1-C2 facet fusion." *Presented at AANS/CNS Section on Disorders of the Spine and Peripheral Nerves 2009.*

Gelb D, Ludwig S, Karp JE, Chung EH, Werner C, Kim T, Poelstra K. Successful treatment of thoracolumbar fractures with short-segment pedicle instrumentation. *J Spinal Disord Tech.* 2010 Jul;23(5):293-301.

O'Toole RV, Whitney A, Merchant N, Hui E, Higgins J, Kim TT, Sagebien C. Variation in diagnosis of compartment syndrome by surgeons treating tibial shaft fractures. *J Trauma.* 2009 Oct;67(4):735-41.

Kim TT, O'Brien JR, Zarro C, Ludwig S, Gelb DE. "Traumatic Lumbosacral Dislocation Treated by Posterior-Only Instrumentation and Transforaminal Interbody Fusion: Report of Two Cases." Submitted for publication 2008.

Kim TT, Ludwig S, Gelb DE, Poelstra, KA. "Diagnosis and Management of Postoperative Wound Infections of the Cervical Spine." *Curr Opin Orthop* 2007;18(3):276-281.

Sagebien C, Kim TT, O'Toole RV, Turen C. "Intramedullary Nailing of Proximal Tibial Fractures: A Report on 74 Consecutive Tibia Fractures." Accepted for publication in *Orthopaedics* 2010.

Kim TT, Ludwig S, Gelb DE. "Neurophysiologic Intraoperative Monitoring in the Trauma Patient." Publication in progress 2009.

Kim TT, Murthi AM. "Modular dissociation of the Judet floating radial head prosthesis: A case report." Submitted for publication 2007.

Kim TT, Bennett CB. "Current Trends in Double Bundle ACL reconstruction." Submission in progress 2007.

Chien EK, Sweet L, Phillippe M, Marietti S, Kim TT, Wolff DA, Thomas L, Bieber, E. "Protease-activated receptor isoform expression in pregnant and non-pregnant rat myometrial tissue." *J Soc Gynecol Investig.* 2003 Dec;10(8):460-8.

Kim TT, Saunders T, Bieber E, Phillippe M. "Protein expression of phospholipase C in pregnant and nonpregnant rat uterine tissue." *Am J Obstet Gynecol.* 2001 Nov;185(5):1191-7.

Kim TT, Saunders T, Bieber E, Phillippe M. "Tissue-specific protein kinase C isoform expression in rat uterine tissue." *J Soc Gynecol Investig.* 1999 Nov-Dec;6(6):293-300.

“*Rattus norvegicus* protease activated receptor 4 mRNA sequence.” (AF269246). May 19, 2001.

“*Rattus norvegicus* protease activated receptor 3 mRNA sequence.” (AF269247). May 19, 2000.

PRESENTATIONS, LECTURES, AND MEETINGS

- 6/2015 **Future Leaders Workshop: Managing The Learning Curve In Minimally Invasive Spine Surgery:** *Denver, CO.* Course Co-Chairman
- 2/2015 **Spinal Pelvic Realignment in the Adult Patient Surgeon Training Course:** *Henderson, NV*
Course Faculty and Lecturer
- 5/2014 **Future Leaders Workshop: Surgical Management of Thoracolumbar Spine Trauma:**
San Francisco, CA. Course Faculty and Lecturer
- 2/2014 **Thirteenth Annual Symposium on Current Concepts in Spinal Disorders:** *Las Vegas, NV*
Spinal Navigation: Pros and Cons
- 8/2013 **Future Leaders Workshop: Surgical Concepts in Minimally Invasive Spine Surgery:**
Denver, CO. Course Faculty and Lecturer
- 6/2013 **Future Leaders Workshop: Surgical Management of Spine Trauma:** *Seattle, WA.*
Course Faculty and Lecturer
- 2/2013 **Twelfth Annual Symposium on Current Concepts in Spinal Disorders:** *Las Vegas, NV*
Spinal Navigation
- 2/2012 **Eleventh Annual Symposium on Current Concepts in Spinal Disorders:** *Las Vegas, NV*
Spinal Navigation
- 2/2011 **Tenth Annual Symposium on Current Concepts in Spinal Disorders:** *Las Vegas, NV*
Moderator for Lumbar Degenerative and Deformity Case Presentations
- 9/2009 **Soliosis Research Society, 44th Annual Meeting, Pre-Meeting Courses:** Critical Concepts in
Adult Deformity Surgery
When Degenerative Cases become Deformity Cases
- 8/2009 **Cedars-Sinai Hospital, Institute for Spinal Disorders:** *Grand Rounds*
Iatrogenic Flatback Syndrome
- 7/2009 **Cedars-Sinai Hospital, Institute for Spinal Disorders:** *Grand Rounds*
Adolescent Idiopathic Scoliosis
- 5/2009 **Cedars-Sinai Hospital, Institute for Spinal Disorders:** *Grand Rounds*
Vetebral Osteomyelitis
- 2/2009 **Eight Annual Symposium on Current Concepts in Spinal Disorders:** *Las Vegas, NV*
Sagittal Reconstruction Parameters (SRP) Classification for Adult Idiopathic Scoliosis
Determination of Fusion Levels
- 1/2009 **Cedars-Sinai Hospital, Institute for Spinal Disorders:** *Grand Rounds*
The Adult Compensatory Curve after Selective Thoracic Fusion for Idiopathic Scoliosis

- 12/2008 **Cedars-Sinai Hospital, Institute for Spinal Disorders: *Grand Rounds Spine Surgery in Cambodia***
- 10/2008 **Cedars-Sinai Hospital, Institute for Spinal Disorders: *Grand Rounds Subaxial Cervical Spine and Thoracolumbar Spine Injuries***
- 2006 **American Academy of Orthopaedic Surgeons Annual 2006 Meeting**, Abstract accepted and Podium Presentation by first author on "Intramedullary Nailing of Proximal Tibial Fractures: A Report on 74 Consecutive Tibia Fractures."
- 2004 **Maryland Orthopaedic Association**, Spring Scientific Podium Presentation on "Intramedullary Nailing of Proximal Tibial Fractures: A Report on 74 Consecutive Tibia Fractures."
- 2000 **University of Chicago Pritzker School of Medicine/NIH Research Program**, Podium Presentation "The anti-tumor effects of E1A and TNF- α proteins on tumor growth *in vitro* and *in vivo*."
- 1999 **Society of Gynecologic Investigation**, Annual 1999 Meeting, Podium Presentation "Tissue-specific protein kinase C isoform expression in rat uterine tissue."

LAB AND WORK EXPERIENCE

- 2005-2008 **University of Maryland, Department of Orthopaedics**, Drs. Steven Ludwig and Daniel Gelb, Biomechanical Analysis of Anterior Instrumentation at the Thoracolumbar Junction: A Cadaveric Study Comparing Modern Plating and Rod Systems.
- 2002 **University of Chicago, Department of Orthopaedics**, Dr. John Martell; Early radiographic detection of heterotopic osteolysis. Investigated the detection and quantification of early osteolysis in total hip arthroplasty with the use of computer detection software.
- 1999-2000 **University of Chicago, Department of Radiation Oncology and Department of Surgery**, Drs. Ralph Weichselbaum and Joel Shilyansky; Anti-tumor effects of E1A and TNF- α proteins on tumor growth *in vitro* and *in vivo*.
- 1998-1999 **University of Chicago, Department of Obstetrics and Gynecology**, Drs. Mark Phillippe and Eric Bieber; Biochemical pathways and mechanisms of muscle contraction and initiation of parturition. Discovered and sequenced the gene for several novel proteins involved in uterine labor.
- 1997-1998 **Cornell University, Department of Biochemistry**, Dr. Peter Nathanielsz, Neuroendocrine effects of leptin on growth and fetal development.

SERVICE

- 2013 **AO North America-Depuy Seattle**
- 2008 **Health Volunteers Overseas- Cambodia**. International Consortium of Surgeons Traveling to Underprivileged Nations to Provide Subspecialty Surgical Care.
- 2006 **AO North America**. Table Instructor in Trauma Course for Operating Room Personnel.

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- 2004-2008 **University of Maryland Department of Orthopaedics Sports Medicine.** High school sports team physician.
- 2004 **Discovery Health Channel: Shock Trauma the Critical Hour.** Interviewed and followed by camera crew for educational series.
- 2001-2003 **University of Chicago Pritzker School of Medicine.** Admissions Committee Member.
- 2001-2003 **Vice-President of the American Medical Association (AMA) University of Chicago Chapter.** Administrative and organizational efforts in lobbying efforts in conjunction with the Illinois State Medical Society
- 2000-2003 **Medical School Curriculum Committee.** Member.
- 2000-2003 **University of Chicago Ronald MacDonal House.** Volunteer, planned activities for parents and families of hospitalized children.
- 2000-2003 **Fundraiser Chairman of the American Medical Student Association (AMSA).** Secured several thousands of dollars in corporate and private donations, and organized several major fundraisers to finance the group's educational and lobbying efforts.
- 1999-2003 **Medical School Class Representative** at Deans' meetings.
- 1999-2003 **Adolescent Substance Abuse Prevention Program.** Member and Course Instructor.
- 1994-1998 **Cornell University Symphony Orchestra.** Violinist.

PROFESSIONAL SOCIETIES

North American Spine Society, Scoliosis Research Society, American Academy of Orthopaedic Surgeons, International Society for the Advancement of Spine Surgery, California Orthopaedic Association, Korean American Spine Society, Korean American Medical Association.