



## LARRY TEIK-MAN KHOO, MD

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### Employment

- **Director of Minimally Invasive Neurological Spinal Surgery**  
**Los Angeles Spine Clinic at Good Samaritan Hospital**
- Co-Director, UCLA Comprehensive Spine Center (07/02-06/09)  
Chief of Neurosurgery, UCLA Santa Monica Medical Center  
1245 Sixteenth Street, Suite 220, Santa Monica, CA 90040  
Asst Professor of Neurosurgery & Orthopedics,  
University of California Los Angeles Medical Center
- Clinical Instructor, Neurosurgery (06/01-06/02)  
LAC/USC Medical Center; 1560 San Pablo Street, #3800  
University of Southern California, Los Angeles California 90033
- AANS/CNS Joint Spine Section 2000 Inaugural (06/00-06/01)  
Ralph Cloward Fellow in Spinal Neurosurgery  
Attending Physician - Rush-Presbyterian St. Luke's Medical Center  
Chicago Institute of Neuroscience & Neurosurgery  
1725 W. Harrison St.Ste. 970 Chicago, IL 60612
- Residency in Neurosurgery (07/96-06/00)  
University of Southern California ; 1560 San Pablo Street, #3800  
Los Angeles, California Los Angeles California 90033
- Internship, General Surgery (06/95-06/96)  
LAC/USC Department of General Surgery

### Education

- Doctor of Medicine (M.D.), Magna Cum Laude (09/90-06/95)  
Yale University School of Medicine  
New Haven, Connecticut
- Bachelor of Sciences and Arts (AB/BS), Summa Cum Laude (09/86-06/90)  
Leland Stanford Junior University  
Stanford, California  
Biological Sciences, Studio Art (Painting)

### Offices and Societies

- National Positions
- AANS/CNS Joint Section on Spine & Peripheral Nerves, Executive Council
  - North American Spine Society, Education Committee, Executive Council
  - Spine Arthroplasty Society, 2006 Scientific Program Committee Chairman  
Director of Education
  - Minimally Invasive Spine Society – Co-Founder, Executive Board, Treasurer
- International
- Affiliate Professor – Dokkyo University Department of Neurosurgery, Tokyo
  - Affiliate Professor - University of Monterrey Mexico Department of Neurosurgery
- Societies
- American Academy of Neurological Surgeons, member
  - Congress of Neurological Surgeons, member
  - AANS/CNS Joint Section on Spine & Peripheral Nerve Surgery, member
  - North American Spine Society, Co-chair of Education

- Spine Arthroplasty Society, Scientific Chair 2007, Chair of Education
- Alpha Omega Alpha, USC Chapter

- Editorial Boards
- The Spine Journal, Editorial Board
  - Internet Journal of Spinal Surgery, Editorial Board
  - Spine Arthroplasty Society Journal, Editorial Board

- Hospital Committees
- UCLA Medical Center Trauma Q& A Committee 07/2002- present
  - UC Santa Monica Surgical Q&A Committee 09/2002- present
  - UCLA Spine Center Executive Committee 07/2002 – present
  - CASIT UCLA Committee 09/2002- Present
  - UCLA Value Analysis Committee 03/2003 – Present

## Honors and Awards

- Faculty
- President, Spine Arthroplasty Society International Meeting, 2005-2006
  - Ulrich Batzdorf, UCLA Neurosurgery MD Faculty Teaching Award- Medal 2003
  - Cervical Spine Research Society 2005 Research Award  
“Cervical Spinal Cord Myelopathy and functional MRI changes”
  - Director, Artificial Disc Replacement Regional Johnson & Johnson Training Center, UCLA; Depuy Spine

- Residency
- American Academy of Neurological Surgeons / Congress of Neurosurgeons  
Joint Section on Surgery of the Spine and Peripheral Nerves, Ralph Cloward  
Spine Surgery National Academic Fellowship Inaugural Award 2000-2001
  - Stryker 2<sup>nd</sup> Annual Spine Fellows Meeting – Outstanding Research Award 2000
  - Medtronic / Sofamor Danek Spine Fellows Outstanding Research Award 1999
  - Alpha Omega Alpha Resident Teaching Award 1997

- Medical School
- Rosenthal Academic Excellence Award 1995
  - City of New Haven Columbus House Service Award, 1995
  - Martin Luther King Award for Outstanding Community Service, 1994
  - Department of Pathology Research Fellowship Scholar (Neuropathology), 1993
  - Yale Farr Scholar Award for academic excellence and leadership, 1991

- Academic Record
- **American Board of Neurological Surgery Board Eligible (2009)**

## Current Research Grants & Projects

1. "Use of functional MRI as an outcome measure after laminectomy decompression of cervical spondylitic myelopathy." Khoo L, Batzdorf U, Holly L, Abitbol J. UCLA Oppenheimer Grant, (\$20,000).
2. "A dynamic analysis of the load-bearing lumbar spine in asymptomatic volunteers using a vertically oriented open MR imaging system." Khoo L, Wang J, Abitbol JJ. North American Spine Society Research grant active, 500 patients completed- abstracts pending at NASS, CNS) (\$45,000 NASS Grant).
3. "A biomechanical comparison of various dynamic stabilization systems of the middle spinal column." Khoo L, Chen N. Interventional Spine Grant Support. (incept August 2007) \$30,000.
4. "A prospective analysis of evoked and running EMG in lumbar decompression and pedicle screw instrumentation." Khoo L, Sheik H. Nuvasive Inc Fgrant Support (incept May 2007) \$10,000.
5. "Mesenchymal Stem Cells in the treatment of a validated porcine disc injury model." Sheik H, Khoo L. Musculoskeletal Transplant Foundation pilot grant (incept August 2007) \$30,000.

## Confirmed Current/Pending Clinical Trials / Studies

1. "A prospective randomized study of a dynamic facet replacement system (TOPS)". ( IRB FDA IDE Clinical Trial), Impliant Inc (incept February 2007, presently enrolling) –budget \$128,000.- 20 patients
2. "A prospective randomized study of a polymeric cervical disc replacement." (IRB FDA IDE Clinical Trial). Khoo (PI), Spinal Kinetics: Sunnyvale, CA(submitted August 2007, to begin January 2008)., multicenter trial investigator- bidget \$136,000-22 patients.
3. "A prospective comparison of a percutaneous dynamic facet stabilizer versus spinal fusion for back pain." (IRB FDA IDE Clinical Trial), Interventional Spine: Carlsbad, CA. (planned incept January 2008)- budget \$140,000- 20 patients.- *National Primary Investigator*
4. "A prospective randomized study of an annular sealant device after routine lumbar discectomy." , Intrinsic Theraputics, Boston, MA. (planned incept February 2008)- budget \$115,500- 22 patients- *National Primary Co-Investigator*

## Fellowship Grants / Support

1. Depuy Spine Spinal Fellowship Grant Support. Salary and Research Support for Operative Spinal Fellow. Specific to Dr. Larry T Khoo. \$60,000.

-2007-2008: Dr. Sean Armin, (in-training)

-2006-2007: Farbod Asgarzadie-(presently Asst professor at Loma Linda University).

2. Abbott Spine International Minimally Invasive Research Fellowship Support: Travel and Support for International Surgeon Fellows. \$50,000 per year.

-2007-2008: Dr. Hormoz Shiekh. University of Sweden . Department of Neurosurgery.

-2007-2008: Dr. Nan-Fu Chen. Taichung Veterans Hospital. Taiwan University. Dept of Neurosurgery.

-Mar- Jun 2007: Dr. Baron Zarate. Dept of Orthopedics. National Institute of Orthopedics, Mexico City.

-Feb-Apr 2007: Dr. Yorgos Barlas. Dept. of Neurosurgery. University of Athens. Athens Greece.

-Jul-Nov 2006: Dr. Mario Gonzalez. Dept. of Neurosurgery. University of Colombia. Bogota, Colombia.

-Mar-Jul 2006: Dr. Simona Bistazzoni. Dept. of Neurosurgery. University of Rome. Umberto Primo

-Mar-Jul 2006: Dr. Marco Sassi. Dept of Neurosurgery. University of Milan. Milan, Italy.

-Jun- Dec 2005: Dr. Murat Cosar. Dept. of Neurosurgery. University of Istanbul, Turkey.

-Mar-Aug 2005: Dr. Nicola Marota. Dept of Neurosurgery. University of Rome, Umberto Primo.

## Prior Research Grants & Projects

1. "The effects of Estamustine on MAP proteins in human glioblastoma multiforme." Khoo L and Piepmeier J \$20,000. Yale Department of Pathology Research Fellow Grant. (July 1993).
2. "A Homeless Outreach Project for Enrichment (Project HOPE)." Khoo L, Yang R, Lee J, et al. \$ 50,000. Yale School of Medicine, Department of Internal Medicine, Family Practice, and Robert Woods Johnson Foundation Grant. January 1994.
3. "The effect of lumbar fusion on adjacent level biomechanical forces." Advisors: S. Samudrala , Thomas Hedman August 1999-2000 (presented 2001 NASS).
4. "A biomechanical comparison of fixation techniques across the cervicothoracic junction." Khoo L and Samudrala S \$22,000. Academie Orthopaedique (AO/ASIF) / Synthes USA Research Grant. July 1999. Presented at the North American Spine Society 2001.
5. "Minimally Invasive Lumbar Surgery: A novel endoscopic lumbar decompression and interbody fusion technique combined with a percutaneous instrumentation system." \$25,000 Advisors: RG. Fessler (CINN/Rush Prebyterian Medical Center) August 2000-2001. Published in Neurosurgery.
6. "A comparison of anatomic accuracy during spinal instrumentation: Intraoperative mobile CT, fluoroscopy, and virtual fluoroscopy." Khoo L. \$50,000. Siemens AG, BrainLab, Depuy Acromed. Completed August 2003. Presented May 2004 AANS. Publication pending.

## Prior Non-Grant Research Work

- "Plasticity of Cat-301 antigen in neonatal mice spinal cord." Advisor: R. Kalb, Yale Neurology Department, summer 1991
- "Serum prostaglandin levels in multi-organ failure." Advisor: S. Myers, University of Texas General Surgery, summer 1989
- "Bovine heart-lung transplantation." & "Left Ventricular Assist Devices." Advisor: O.Frazier, Texas Heart Institute, summer 1987
- "Pancreatic islet cell transplantation." Advisor: R.Merrell, Univ. of Texas General Surgery, summer 1986



## Peer Review Articles

### *MEDICAL SCHOOL PERIOD*

- 1 Homer, R.; Khoo, L; Smith, GJ. Diffuse panbronchiolitis in a hispanic man with travel history to Japan. **Chest** 107(4): 1176-1178, 1995.
- 2 Khoo, L; Piepmeier, J : Distribution of MAP 4 in human astrocytes and glioma tissue. **NeuroScientist** 10: 110-122, 1995.
- 3 Khoo, L.: Microtubule-associated protein (MAP) 4: Expression in human astrocytes and glioblastoma multiforme, Yale School of Medicine, Theses. **Yale Journal of Biology and Medicine** 68:pp52-,1996.

### *NEUROSURGICAL TRAINING PERIOD*

- 4 Khoo L, Levy M, Liker M, Day JD. Optimization of the operative corridor for the resection of craniopharyngiomas in children: The combined Fronto-Orbitozygomatic Temporopolar approach - Technical Note. **Neurosurgical Focus** (On-Line-www.neurosurgery.org/journals/online\_j/dec97/3-6-5.html) December 1997.
- 5 Khoo L, Levy M, Teitelbaum G, Stanley P, Hieshima G, and McComb JG. Familial occurrence of a giant perimedullary venous pseudoaneurysm and arteriovenous fistula of the thoracic spinal cord in two siblings. **Pediatric Neurosurgery** 28(6): 286-292, 1998.
- 6 Mendel E, Khoo L, Go JL, Hinton D, Apuzzo M. Intracerebral Whipple's disease diagnosed by stereotactic biopsy: A case report and review of the literature. **Neurosurgery** 44(1):203-209, 1999.
- 7 Khoo L, Samudrala S, Shim R, and Fessler R. Complications during anterior surgery of the lumbar spine: An anatomically based study and review. **Neurosurgical Focus** (On-Line-www.neurosurgery.org/journals/online\_j/dec99/3-6-5.html) December 1999.
- 8 Homans, J, Khoo, L, Chen T, et al. Spinal intramedullary cysticercosis in a 5 year-old child: Case report and review of the literature. **Ped Inf Disease** 20:904-908,2001.
- 9 Hart DJ, Khoo L, McComb J, and Levy M. Pediatric Cerebrovascular Disease: A Review. **Ippocrates**. (www.ippocrate.net/RIVISTA/NR7/pediatric.htm), Vol 3.Nr7,2001.

### *ATTENDING PHYSICIAN*

- 10 Guiot B, Khoo L, Fessler RG. A Minimally Invasive Technique for Decompression of the Lumbar Spine. **Spine** Feb 15;27(4):432-8,2002.
- 11 Fessler RG and Khoo L. Minimally Invasive Cervical Microendoscopic Foraminotomy (MEF): An initial clinical experience. **Neurosurgery**. Millenium- Minimally invasive spinal surgery supplement . 2002 Nov;51(5 Suppl):37-45
- 12 Khoo L and Fessler RG. Microendoscopic decompressive laminotomy for lumbar stenosis. **Neurosurgery**. Millenium- Minimally invasive spinal surgery supplement, 2002 Nov;51(5 Suppl):146-54.

- 13 Khoo L, Palmer S, Laich D, and Fessler RG. Percutaneous posterior lumbar interbody fusion: A cadaveric pre-clinical study. **Neurosurgery** Millennium- Minimally invasive spinal surgery supplement 2002 Nov;51(5 Suppl):200-210.
- 14 Khoo L, Beisse R, Potulski M. Minimally-invasive endoscopic repair of thoracolumbar burst fractures. **Neurosurgery** Millennium- Minimally invasive spinal surgery supplement. Neurosurgery. 2002 Nov;51(5 Suppl):104-17.
- 15 Khoo L, Fessler RG. Minimally invasive posterior cervical microendoscopic foraminotomy. **The Spine Journal**. Volume 2, Issue 2, Supplement 1, 4 March 2002, 6.
- 16 Khoo L, Mikawa K, and Fessler RG. Spinal Tuberculosis: A timely revisitation of a reemerging disease . **The Spine Journal**, March 2003.
- 17 Khoo L and Gravori T. Minimally Invasive Posterior Spinal Surgery. **SpineLine**, November 2003. pp.20-22.
- 18 Shields DC, Palma C, Khoo LT, Ferrante FM. Extramedullary Intrathecal Catheter Granuloma Adherent to the Conus Medullaris Presenting as Cauda Equina Syndrome. **Anesthesiology**. 2005 May;102(5):1059-1061.
- 19 Lam S, Khoo LT. A novel percutaneous system for bone graft delivery and containment for elevation and stabilization of vertebral compression fractures. Technical note. **Neurosurg Focus**. 2005 Mar 15;18(3):e10.
- 20 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 1: introduction and methodology. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 21 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 2: assessment of functional outcome. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 22 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 3: assessment of economic outcome. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 23 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 4: radiographic assessment of fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 24 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 5: correlation between radiographic and functional outcome. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.

- 25 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 6: magnetic resonance imaging and discography for patient selection for lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 26 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 7: intractable low-back pain without stenosis or spondylolisthesis.
- 27 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 8: lumbar fusion for disc herniation and radiculopathy. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 28 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 9: fusion for patients with stenosis and associated spondylolisthesis. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 29 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 10: fusion following decompression in patients with stenosis without spondylolisthesis. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 30 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 11: interbody techniques for lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 31 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 12: pedicle screw fixation as an adjunct to posterolateral fusion for low-back pain. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 32 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 13: injection therapies for low-back pain and as an adjunct to lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 33 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 14: bracing as an adjunct to or substitute for lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.

- 34 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 15: electrophysiological monitoring and lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 35 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 16: bone graft extenders and substitutes. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 36 Daniel K. Resnick, Tanvir F. Chourdhri, Andrew T. Dailey, Michael W. Groff, Larry Khoo, Paul G. Matz, Praveen Mummaneni, William C. Watters III, Jeffrey Wang, Beverly C. Walters, and Mark N. Hadley. Guidelines for the performance of fusion procedures for degenerative disease of the lumbar spine. Part 17: bone growth stimulators and lumbar fusion. **J Neurosurgery Spine**: June 2005 Volume 2 Number 6.
- 37 Khoo L, Benae JL, Samudrala S, Fessler RG. Anterior Plating for Cervical Traumatic Fractures: An Analysis of Graft Height and Segmental Lordosis Preservation. **Internet Journal of Spine Surgery** ([www.ispub.com](http://www.ispub.com)). July 2005, Volume 2.
- 38 Marotta N, Cosar M, Pimenta L, Khoo LT (corresponding author). A Novel Minimally-Invasive Presacral Approach and Instrumentation Technique for Anterior L5-S1 Intervertebral Discectomy and Fusion: Technical Description and Case Presentations. **Neurosurgical Focus**. February 2006.
- 39 Sehati N, Khoo LT, Holly L. Treatment of lumbar synovial cysts using minimally invasive surgical techniques. **Neurosurgical Focus** 20(3):E2,2006. March 2006.
- 40 Sehati N, Khoo LT. Minimally invasive posterior cervical arthrodesis and fixation. **Neurosurg Clin N Am**. 2006 Oct;17(4):429-40. Review.
- 41 Tsou PM, Wang JC, Khoo LT et al. A thoracic and lumbar spine injury severity classification based on neurologic function grade, spinal canal deformity, and spinal biomechanical stability. **Spine J**. 2006 Nov-Dec;6(6):636-47. Epub 2006 Oct 10.
- 42 McAfee P, Khoo LT, Pimenta L et al. Treatment of lumbar spinal stenosis with a total posterior arthroplasty prosthesis: implant description, surgical technique, and a prospective report on 29 patients. **Neurosurg Focus**. 2007 Jan 15;22(1):E13.
- 43 Holly LT, Moftakhar P, Khoo LT et al. Minimally invasive 2-level posterior cervical foraminotomy: preliminary clinical results. **J Spinal Disord Tech**. 2007 Feb;20(1):20-4.
- 44 Asgarzadie F, Khoo LT. Minimally invasive operative management for lumbar spinal stenosis: overview of early and long-term outcomes. **Orthop Clin North Am**. 2007 Jul;38(3):387-99.
- 45 Cosar M, Khoo LT, Yeung CA, Yeung AT. A COMPARISON OF THE DEGREE OF LATGERAL RECESS AND FORAMINAL ENLARGEMENT WITH FACET PRESERVATION IN THE TREATMENT OF LUMBAR STENOSIS WITH USE OF STANDARD SURGICAL TOOLS VERSUS A NOVEL POWERED FILING INSTRUMENT: A CADAVER STUDY. **Spine Arthroplasty Journal**. (accepted, publication September 2007).
- 46 Observations on spine deformity and syringomyelia. Batzdorf U, Khoo LT, McArthur DL. **Neurosurgery**. 2007 Aug;61(2):370-7; discussion 377-8.

- 47 Surgical outcomes of elderly patients with cervical spondylotic myelopathy. Holly LT, Moftakhar P, Khoo LT, Shamie AN, Wang JC. **Surg Neurol**. 2008 Mar;69(3):233-40.
- 48 Osseous and vascular anatomical variations within the C1-C2 complex: a radiographical study using computed tomography angiography. Moftakhar P, Gonzalez NR, Khoo LT, Holly LT. **Int J Med Robot**. 2008 Jun;4(2):158-64.
- 49 Minimally invasive decompression for lumbar stenosis and disc herniation. Armin SS, Holly LT, Khoo LT. **Neurosurg Focus**. 2008;25(2):E11. Review.
- 50 The results of beta-tricalcium phosphate coated hydroxyapatite (beta-TCP/HA) grafts for interbody fusion after anterior cervical discectomy. Cosar M, Ozer AF, Iplikcioglu AC, Oktenoglu T, Kosdere S, Sasani M, Bozkus H, Khoo LT, Sarioglu AC. **J Spinal Disord Tech**. 2008 Aug;21(6):436-41.
- 51 Chen N, Smith ZA, Stiner E, Sheikh H and, Khoo LT Symptomatic ectopic bone formation after off-label use of recombinant human bone morphogenetic protein-2 (rhBMP-2) in transforaminal lumbar interbody fusion (TLIF)" **J Neurosurgery Spine**. Accepted for publication, Jan 2009 (publication pending).
- 52 Onibokun A, Chen NF, Bistazzoni S, Sassi M, Khoo LT Anatomical considerations for cervical pedicle screw insertion: the use of multiplanar computerized tomography measurements in 122 consecutive clinical cases. **The Spine Journal**. Accepted for publication, April 2009 (publication pending).
- 53 Smith ZA, Onibokun A, Chen NF, Sheikh H, Sassi M, Khoo LT, Anatomic considerations for C2 screw placement: The use of computed tomography (CT) measurements in 93 patients, **Neurosurgery**, submitted Jan 2009
- 54 Chen N & Smith ZA\*, Khoo LT, Minimally invasive presacral L4-S1 fusion: Initial experience and review of literature; Technical note and case series, In submission, **J. Neurosurg, Spine** Feb 2009,
- 55 Smith ZA, Chen B, Yang I, Hemingway S, Khoo LT, Minimally invasive pre-sacral L5-S1 fusion: A radiographic study of disk height loss and interbody distraction, , **Spine**, submitted May 2009

### Whole Books

- 1 Perez-Cruet MJ, Khoo LT, Fessler RG (eds). **An Anatomical Approach to Minimal Access Spinal Surgery**. Quality Medical Publishing, Inc., St. Louis, MO, published December 2005.

### Book Chapters

- 1 Khoo, L. and Levy, M. Pediatric Intracerebral Aneurysms. *In* Albright AL, Pollack IF, and Adelson P (eds) **Principles and Practice of Pediatric Neurosurgery**. Thieme, New York, 1999, pp. 973-1002.
- 2 Khoo, L. and Samudrala, S. Transclavicular / Transmanubrial Approach / Closure. *In* Fessler RG and Sekhar LN (eds). **Atlas of Neurosurgical Techniques: Cranial and Peripheral Nerve, Spine and Endoscopic Surgery**. Thieme, New York, (completed-in press), 1999.

- 3 Liker M, Khoo, L, and Samudrala, S. Vertebrectomy & Grafting. *In* Fessler RG and Sekhar LN (eds). **Atlas of Neurosurgical Techniques: Cranial and Peripheral Nerve, Spine and Endoscopic Surgery.** Thieme, New York, (completed-in press), 2001.
- 4 Samudrala S. and Khoo, L. Anterior Reconstruction Following Decompression via Anterior Approaches. *In* Fessler RG and Sekhar LN (eds). **Atlas of Neurosurgical Techniques: Cranial and Peripheral Nerve, Spine and Endoscopic Surgery.** Thieme, New York, (completed-in press), 2001.
- 5 Khoo, L. and Reyes, M. Anterior Approach to the Cervical Spine. *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York, 2000,pp.197-200.
- 6 Khoo, L. and Reyes, M. Posterior Approach to the Occipitocervical Junction and Cervical Spine. *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York ,2000, pp.201-204.
- 7 Khoo, L. and Reyes, M. Lateral Extracavitary / Lateral Parascapular Approach to the Thoracic Spine. *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York ,2000, pp.205-208.
- 8 Khoo, L. and Levy, M. Intracranial Aneurysms *In* Batjer, H. and Loftus. C. (eds). **Textbook of Neurological Surgery.** Lippincott-Raven Publishers, Philadelphia (completed-in press), 2001.
- 9 Khoo L, Levy M. Craniopharyngioma – Surgical Management. *In* Petrovich, Z, Brady W, and Apuzzo, ML (eds). **Combined Modality Therapy of Central Nervous Tumors.** Springer-Verlag, Heidelberg , 2000.
- 10 Khoo L, Apuzzo ML. Surgical treatment of low-grade gliomas. *In* Petrovich, Z, Brady W, and Apuzzo, ML (eds). **Combined Modality Therapy of Central Nervous Tumors.** Springer-Verlag, Heidelberg , 2000.
- 11 Reyes, M and Khoo, L. Posterior Approach to the Thoracic Spine. *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York ,2000, pp.209-211.
- 12 Reyes, M and Khoo, L. Posterior Approach to the Lumbar Spine *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York ,2000, pp.212-214.
- 13 Reyes, M and Khoo, L. Posterior Approach to the Iliac Crest. *In* Jordan C and Mirzadeign E (eds). **Atlas of Orthopaedic Surgical Exposures.** Thieme, New York ,2000, pp.215-218.
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- 80 Kim KA, Oh B, McNatt S, Khoo L et al. “Vector-analysis Correlating Cerebral Injury to Outcome Post-civilian Gunshot Wound to the Head: Discovery of a GSW Fatality Zone in the Cerebrum” (Oral poster) Congress of Neurological Surgeons Annual Meeting. Denver CO. October 20, 2003.
- 81 Khoo LT, Gravori T, Fessler RG. “A Comparison of Postoperative Narcotics Use in Minimally-Invasive vs. Open Posterior Lumbar Interbody Fusion.” (Poster). North American Spine Society. San Diego, California. October 23, 2003.
- 82 Khoo LT et al. “Enhancing Spinal Fusions: Use of Iliac crest aspiration.” (Oral Poster). (Poster). North American Spine Society. San Diego, California. October 23, 2003.
- 83 Khoo LT, Gravori T. “Use of posterior lateral mass fixation for unilateral cervical jumped facet: An analysis of failures in 40 cases.” (Poster) 2003 Cervical Spine Research Society Annual meeting. Scottsdale, Arizona. Fairmont Scottsdale Princess. December 11, 2003.
- 84 Khoo LT, Virella A, Gravori T. “Anatomic Validation of Spinal Screw Instrumentation UtilizingIntraoperative Three Dimensional Imaging” (Lecture). American Academy of Neurological Surgery 2004 Meeting. Orlando, Florida. May 4, 2004.
- 85 Khoo LT, Gravori T, Dennis J “Minimally invasive transforaminal interbody fusion with percutaneous instrumentation: A prospective evaluation of surgical, accuracy, functional, and fusion outcomes in 32 patients.” (Lecture). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Bermuda. July 1, 2004.
- 86 Khoo LT. Garcia-Bengochea J, Holt R, et al. “A Novel Minimally Invasive Pedicle Screw Instrumentation for Spinal Fixation: A Multicenter Experience.” (Lecture). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Bermuda. July 1, 2004.
- 87 Khoo LT, Araghi A “Minimally invasive segmental multilevel fixation of the Lumbar spine: A multicenter prospective surgical experience.” (Poster). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Bermuda. July 1, 2004.

- 88 Khoo LT, Wang J, Abitbol JJ et al. "Dynamic Load Bearing MRI: A prospective study." (Poster). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Bermuda. July 1, 2004.
- 89 Khoo LT, Araghi A, Spoonamore et al "Minimally invasive segmental multilevel fixation of the Lumbar spine: A multicenter prospective surgical experience." (Poster). Congress of Neurological Surgeons Annual meeting. San Francisco, California October 16-20, 2004.
- 90 Khoo LT, Virella A. "Anatomic Validation of Spinal Screw Instrumentation Utilizing Intraoperative 3-D CT Guidance." (Poster). Congress of Neurological Surgeons Annual meeting. San Francisco, California October 16-20, 2004.
- 91 Khoo LT, Gravori T, Onibokun A. "Minimally Invasive Transforaminal Interbody Fusion with Percutaneous Pedicle Screw Instrumentation: Outcomes in 32 patients." (Poster). Congress of Neurological Surgeons Annual meeting. San Francisco, California October 16-20, 2004.
- 92 Khoo LT, Gravori T, Virella A et al. "Use of posterior lateral mass fixation for unilateral cervical jumped facet: An analysis of failures in 40 cases." (Lecture). Congress of Neurological Surgeons Annual meeting. San Francisco, California October 18, 2004
- 93 Shamie N, Khoo LT, et al. "Lumbar microdiscectomy comparing minimally invasive tubular retractors versus standard retractors." (Poster) North American Spine Society Annual Meeting. Chicago, Illinois. October 28, 2004.
- 94 Shamie N, Khoo LT, et al. "Lumbar microdiscectomy comparing minimally invasive tubular retractors versus standard retractors." 72nd Annual Meeting of the American Academy of Orthopaedic Surgeons in Washington, DC, February 24, 2005.
- 95 Onibokun, A, Khoo LT et al. "Lateral Extracavitary Approach for the Treatment of Thoracic and Lumbar Lesions: outcomes in 33 Consecutive patients." (Poster) American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 96 Gravori T, Khoo LT et al. "Minimally Invasive Transforaminal Interbody Fusion: Outcomes." (Poster) American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 97 Khoo LT, Virella A. "Anatomic Validation of Spinal Screw Instrumentation Utilizing Intraoperative 3-D CT Guidance." (Poster). American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 98 Khoo LT, Gravori T, Virella A et al. "Use of posterior lateral mass fixation for unilateral cervical jumped facet: An analysis of failures in 40 cases." (Poster) American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 99 Khoo LT, Araghi A, Spoonamore et al "Minimally invasive segmental multilevel fixation of the Lumbar spine: A multicenter prospective surgical experience." ( Oral Poster). American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 100 Khoo LT. Garcia-Bengochea J, Holt R, et al. "A Novel Minimally Invasive Pedicle Screw Instrumentation for Spinal Fixation: A Multicenter Experience." (Lecture) American Association of Neurological Surgeons Annual meeting. New Orleans, LA. April 17, 2005.
- 101 Khoo LT. Garcia-Bengochea J, Holt R, et al. "A Novel Minimally Invasive Pedicle Screw Instrumentation for Spinal Fixation: A Multicenter Experience." (Lecture). International Intradiscal Therapy Society Annual Meeting. San Diego, California. May 28, 2005.

- 102** Khoo LT, Gravori T, Onibokun A. “Minimally Invasive Transforaminal Interbody Fusion with Percutaneous Pedicle Screw Instrumentation: Outcomes in 32 patients.” (Lecture). International Intradiscal Therapy Society Annual Meeting. San Diego, California. May 28, 2005.
- 103** Lam S, Khoo LT, et al. “A novel minimally invasive access technique for stand-alone lumbar interbody fusion in spondylolisthesis: Preliminary 13 month results on the deployable Optimesh graft device.” (Poster) Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 7, 2005.
- 104** Karpitskaya, Y, Shamie AN, Abelson JA , Khoo LT et al. “Acute kyphosis correction using Expandable Synex Cage Implant.” (Poster) Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 7, 2005.
- 105** Pimenta L, Khoo L, Bertagnoli R, et al. “TOPS Early Experience in a new lumbar facets replacement system.” (Poster) Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 7, 2005.
- 106** Khoo LT, Cannestra A, et al. “A Long-term clinical outcome analysis of minimally invasive cervical foraminotomy for the treatment of cervical radiculopathy.” (Poster) Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 7, 2005.
- 107** Cannestra A, Khoo LT Onibokun, A. “Lateral Extracavitary Approach for the Treatment of Thoracic and Lumbar Lesions: outcomes in 33 Consecutive patients.” (Lecture). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 8, 2005.
- 108** Khoo LT et al. “Use of continous intraoperative electromyographic potential nerve root monitoring during decompression of patients with symptomatic lumbar radiculopathy.” (Lecture). Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 9, 2005.
- 109** Khoo LT, Araghi A, Spoonamore et al “Minimally invasive segmental multilevel fixation of the Lumbar spine: A multicenter prospective surgical experience.” ( Oral Poster). World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 1, 2005.
- 110** Onibokun A, Khoo LT “Anatomic Validation of Spinal Screw Instrumentation Utilizing Intraoperative 3-D CT Guidance.” (Poster). World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 1, 2005
- 111** Onibokun A, Khoo LT. “Use of posterior lateral mass fixation for unilateral cervical jumped facet: An analysis of failures in 40 cases.” (lecture) World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 1, 2005.
- 112** Khoo L, Garcia J, et al. “A Novel Minimally Invasive Pedicle Screw Instrumentation for Spinal Fixation: A Multicenter Experience.” World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 2, 2005.
- 113** Khoo LT Onibokun, A. “Lateral Extracavitary Approach for the Treatment of Thoracic and Lumbar Lesions: outcomes in 33 Consecutive patients.” (Lecture). Annual International Meeting on Advanced Spinal Techniques. World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 3, 2005.
- 114** Lam S, Khoo LT et al. “The lateral extracavitary technique: Outcomes and Findings.” (Lecture) Eurospine Annual Congress. (CME Event). Barcelona, Spain, September 21, 2005.
- 115** Lam S, Khoo LT et al. “Cervical Minimally Invasive Foraminotomy: Long Term Outcomes” (Lecture) Eurospine Annual Congress. (CME Event). Barcelona, Spain, September 21, 2005.

- 116** Lam S, Guizzardi G, Khoo LT et al. "A Novel Minimally Invasive Access Technique for Stand-Alone Lumbar Interbody Fusion in Spondylolisthesis: Preliminary 13 Month Results on the Deployable Optimesh Graft Device." (Poster) Eurospine Annual Congress. (CME Event). Barcelona, Spain, September 21, 2005.
- 117** Onibokun, A. Khoo LT. "Results of Minimally invasive transforaminal interbody fusion: 32 patients." (Poster) Eurospine Annual Congress. (CME Event). Barcelona, Spain, September 21, 2005.
- 118** Karpitskaya, Y, Shamie AN, Abelson JA, Khoo LT et al. "Acute kyphosis correction using Expandable Synex Cage Implant." (Poster) 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 119** Raifu M, Khoo LT et al. "Use of continuous intraoperative electromyographic potential nerve root monitoring during decompression of patients with symptomatic lumbar radiculopathy." (Poster) 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 120** Khoo LT, Cannestra A, et al. "A Long-term clinical outcome analysis of minimally invasive cervical foraminotomy for the treatment of cervical radiculopathy." (Poster) 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 121** Khoo LT Onibokun, A. "Lateral Extracavitary Approach for the Treatment of Thoracic and Lumbar Lesions: outcomes in 33 Consecutive patients." (Poster) Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 8, 2005.
- 122** Lam S, Khoo LT et al. "Cervical Minimally Invasive Foraminotomy: Long Term Outcomes" (Poster) Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 8, 2005.
- 123** Khoo LT, Gravori T, Onibokun A. "Minimally Invasive Transforaminal Interbody Fusion with Percutaneous Pedicle Screw Instrumentation: Outcomes in 32 patients." (Poster) Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 8, 2005.
- 124** Cannestra A, Khoo LT, Holly LT, et al. "Use of the lateral extracavitary technique in the correction of traumatic, infectious, and tumor deformity." (Lecture) Scoliosis Research Society Annual Meeting. Miami, Florida. October 28, 2005.
- 125** Khoo LT, Cannestra A, Lam S. "Use Of The Lateral Extracavitary Approach For Primary Single Stage Decompression, Arthrodesis, And Instrumentation Of Thoracic And Lumbar Lesions: Clinical Outcomes In 32 Consecutive Patients At 1-Year. (Lecture) Scoliosis Research Society Annual Meeting. Miami, Florida. October 28, 2005.
- 126** Khoo LT, Lam S, Onibokun A. "Cervical Foraminotomy: An analysis of long term 5 year clinical outcomes." (Poster). Cervical Spine Research Society Annual Meeting. San Diego, California. December 3, 2005.
- 127** Khoo LT, McAfee P, Pimenta et al. The Tops Lumbar Facet Replacement System. Biomechanical Evaluation, Operative Data, and Preliminary Clinical Results. AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006.
- 128** Lam S, Khoo LT, Guzzardi C et al. The Results of Minimal Invasive Optimesh Graft Technique for Stand-Alone Lumbar Interbody Fusion in Spondylolisthesis. AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006.
- 129** Khoo LT, Capuccino A, Cunningham B et al. A novel biomechanically superior means of minimally invasive transfacet non-screw-rod based fixation: Early clinical experience and biomechanical data AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006.

- 130** Khoo LT, Lam S. Use of Continuous Intraoperative Electromyographic Potential nerve root monitoring During Decompression of Patients with Symptomatic Lumbar Radiculopathy. AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006.
- 131** Cannestra A, Khoo LT et al. A Long-Term Clinical Outcome Analysis of Minimally Invasive Cervical Foraminotomy. AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006
- 132** Lam S, Guizzardi G, Khoo et al. A NOVEL MINIMALLY INVASIVE ACCESS TECHNIQUE FOR STAND-ALONE LUMBAR INTERBODY FUSION IN SPONDYLOLISTHESIS: PRELIMINARY 13 MONTH RESULTS ON THE DEPLOYABLE OPTIMESH GRAFT DEVICE. American Association of Neurological Surgeons Annual Meeting. San Francisco, CA. April 2006.
- 133** Pimenta L, Khoo LT et al. The Tops Lumbar Facet Replacement System. Biomechanical Evaluation, Operative Data, and Preliminary Clinical Results. American Association of Neurological Surgeons Annual Meeting. San Francisco, CA. April 2006.
- 134** Larry T. Khoo; Sandi Lam, MD. Minimally Invasive Microsurgical Lumbar Decompression with Preservation of the Contralateral Outer Laminae and Spinous Process: 4-year Comparative Outcomes in One- and Two-level Spinal Stenosis. Congress of Neurological Surgeons Annual Meeting. (Lecture) Chicago, Illinois. October 7, 2006.
- 135** Larry T. Khoo; Murat Cosar, MD; Christopher A. Yeung, MD; Anthony T. Yeung, MD; Sandi Lam, MD. A comparison of the degree of lateral recess and foraminal enlargement with facet preservation in the treatment of lumbar stenosis with use of standard surgical tools versus a novel powered filing instrument: A cadaver study. (Poster) Congress of Neurological Surgeons Annual Meeting. Chicago, Illinois. October 7, 2006.
- 136** Larry T. Khoo; Sandi Lam, MD. A novel minimally invasive far-lateral extrapleural approach of thoracic discectomy, cord decompression and interbody fusion for the treatment of thoracic myelopathy: Preliminary surgical experience in 7 patients. (Poster) Congress of Neurological Surgeons Annual Meeting. Chicago, Illinois. October 7, 2006.



### Academic Invited Lectures & Visiting Professorships

- 1 Khoo L, Wang M, Petrovich Z, and Apuzzo MLJ. “Current Methods and Applications of Gamma Radiosurgery” (CME Accredited) (Faculty,Lecture) Keck School of Medicine, University of Southern California, June 2000.
- 2 “Anterior Surgical Approaches to the Lumbar and Thoracolumbar Spine.” (Instructor, CME accredited Practical Course) Fessler RG and Rodts G (chairman). Congress of Neurological Surgeons Annual Meeting. San Antonio, Texas. September 2000.
- 3 Khoo L “Minimally-Invasive Decompression for Lumbar Stenosis” (Invited Faculty, Lecture & Instructor) Minimally Invasive Microendoscopic Discectomy (Practical Course 021) American Academy of Neurological Surgery 2001 Annual Meeting. Toronto, Canada. April 22,2001.
- 4 Khoo L “Endoscopic Microdiscectomy” (Invited Faculty,Lecture) Minimally Invasive Surgery of the Lumbar Disc. (Breakfast Seminar 113) American Academy of Neurological Surgery 2001 Annual Meeting. Toronto, Canada. April 23,2001.
- 5 Khoo L “Posterior microendoscopic techniques” (Invited Faculty,Lecture) Endoscopic Surgery of the Spine (Breakfast Seminar 207) American Academy of Neurological Surgery 2001 Annual Meeting. Toronto, Canada. April 24,2001.
- 6 Khoo L “An introduction to load-sharing plates and their use in trauma” (Invited Faculty, Lecture) Aesculap AANS Luncheon Seminars. American Academy of Neurological Surgery 2001 Annual Meeting. Toronto, Canada. April 24,2001
- 7 Khoo L “Endoscopic treatment of Lumbar Stenosis” (Invited Faculty,Lecture) Lumbar stenosis: Current treatment and Long Term Outcome (Breakfast Seminar 308) American Academy of Neurological Surgery 2001 Annual Meeting. Toronto, Canada. April 25,2001.
- 8 Khoo L “Minimally Invasive Frontier of Spinal Neurosurgery” (Invited Lecturer) Special Clinical Neurosurgical Symposium on Neurosurgical Challenges. University of California Los Angeles Division of Neurosurgery. Los Angeles, California. October 10, 2001.
- 9 Khoo L “Minimally Invasive Spine Surgery” (Invited Keynote Speaker) Pan-Pacific Asian Surgical Society Meeting. Honolulu, Hawaii January 28,2002.
- 10 Khoo L “Translational plates in the treatment of acute cervical trauma – long term results.” (Lecture). What’s New Luncheon Session. AANS/CNS Section on Surgery of the Spine & Peripheral Nerve, Annual Meeting. Orlando, Florida. February 27, 2002
- 11 Khoo L. Surgical Anatomy of the Thoracic and Lumbar Spine. Faculty Member. American Academy of Neurological Surgery 2002 Annual Meeting. Chicago Illinois. (April 6,2002).
- 12 Khoo L, Oro J. Effective Use of Technology in Web Page Development and Poster Preparation. Practical Clinic Director. American Academy of Neurological Surgery 2002 Annual Meeting. Chicago Illinois. (April 7,2002).
- 13 Khoo L. “Minimally-Invasive Spinal Surgery: Future Directions.” University of Southern California; Department of Orthopedic Surgery Grand Rounds; April 30,2002.
- 14 Khoo L. “The use of biological hemostatic and tissue sealants in spinal neurosurgery.” (Invited Grand Rounds Lecturer) Hawaii Neurosurgical Society Quarterly Meeting. Honolulu, Hawaii. November 8,2002.

- 15 Khoo L. “Minimally-Invasive Traditional Spinal Surgical Techniques.” (Invited Faculty). 3<sup>rd</sup> World Congress of Minimally-Invasive Spinal Surgery. Phoenix, Arizona. December 7,2002.
- 16 Khoo L. “Minimally Invasive Spinal Surgery in the New Millenium.” (Invited Grand Rounds Speaker) Stanford University Neurosurgical Grand Rounds. Stanford, California. November 20,2002.
- 17 Khoo L. “Experience with the percutaneous PathFinder Screw system” (Invited Faculty) University of South Florida Annual Whistler Spine & Ski Meeting. (CME Event) Whistler, Canada. January 19, 2003.
- 18 Khoo L. “Minimally Invasive Surgical Options in the Treatment of Neck and Back Pain.” (Invited Faculty) UCLA Comprehensive Review of Pain Management (CME event). Century City, California. January 25, 2003.
- 19 Khoo L. “Twin Screw-Rod Placement in Thorascopic Fractures” (Invited Faculty) Barrow Course on Advanced Thorascopic Spinal Surgery. Barrow Neurological Institute. Phoenix, Arizona. January 27<sup>th</sup>,2003.
- 20 Khoo L. “Percutaneous Posterior Lumbar Interbody Fusion-Special Course V-Instrumentation of the Spine.” (Invited Faculty) 19<sup>th</sup> Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerves – Tampa, Florida. March 8, 2003.
- 21 Khoo L. ‘What’s new- the percutaneous minimally-invasive Pathfinder pedicle fixation system.’ (Invited Lecturer-luncheon seminar). 19<sup>th</sup> Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerves – Tampa, Florida. March 10,2003.
- 22 Khoo L. “Surgical Approaches to the Lumbar and Thoracic Spine” (Invited Course Instructor-Practical Clinic). American Academy of Neurological Surgery 2003 Annual Meeting. San Diego, California. April 26,2003.
- 23 Khoo L. “Fixation of the Lumbar and Thoracic Spine” (Invited Course Instructor-Practical Clinic). American Academy of Neurological Surgery 2003 Annual Meeting. San Diego, California. April 27,2003.
- 24 Khoo L. “Handheld Digital Speech Recognition Technologies.” (Invited Lecturer-Breakfast Seminar) American Academy of Neurological Surgery 2003 Annual Meeting. San Diego, California. April 28,2003.
- 25 Khoo L. “Current concepts in the surgical and pharmacological management of cervical trauma.” (Guest Lecturer). San Fernando Valley Quarterly Spine Group Meeting. Los Angeles, California. May 16, 2003.
- 26 Khoo L. “An Overview of Minimally Invasive Spinal Surgery.” “TLIFs and the Pathfinder System.” (Course Chairman & lecturer). UCLA Minimally Invasive Spinal Surgical Course (Spinal Concepts). UCLA Medical Center. Los Angeles, CA. July 11, 2003.
- 27 Khoo L. Minimally Invasive Spinal Technologies Session (Moderator) North American Spine Society: World Spine II 2003. Chicago, Illinois. August 11, 2003.
- 28 Khoo L. “Thorascopic corpectomy and fixation.” (Invited Faculty) Barrow Course on Advanced Thorascopic Spinal Surgery. Phoenix, Arizona. September 15 ,2003.
- 29 Khoo L. “Minimally Invasive Spinal Surgical Advances.” (Invited Keynote Speaker) Annual Mexican National Congress of Spinal Surgery. AMSICO/SILACO, Acapulco, Mexico. September 17, 2003.
- 30 Khoo L. “Dynamism in anterior cervical instrumentation.” (Invited Professor & Faculty) Annual Yale Comprehensive Spine Surgery Course. Providence, RI. September 20,2003.
- 31 Khoo L. “Surgical Approaches to C1-C2” (Lecturer) UCLA Spine Combined Conference. Los Angeles, CA. October 13, 2003.

- 32 Khoo L. "Anatomy and Biomechanics of the Occipitocervical and Atlantoaxial Spine." (Invited Faculty). Applied Spinal Biomechanics Practical Course PC04. Congress of Neurological Surgery. Denver, CO. October 18, 2003.
- 33 Khoo L. "Anatomy and Biomechanics of the Cervical Spine." (Invited Faculty). Applied Spinal Biomechanics Practical Course PC04. Congress of Neurological Surgery. Denver, CO. October 18, 2003.
- 34 Khoo L. "Speech Technologies in Neurosurgical Practice." (Chairman and Faculty). Technological Aids in Neurosurgical Practice- Practical Course PC01. Congress of Neurological Surgery. Denver, CO. October 18, 2003.
- 35 Khoo L. (Invited Faculty) PC23: Mastering Spinal Disorders: Dealing with Complexities. Congress of Neurological Surgery. Denver, CO. October 19, 2003.
- 36 Khoo L, Mendel E, Heary R. (Moderator). Spine and Peripheral Nerve Session I. Congress of Neurological Surgery. Denver, CO. October 20, 2003.
- 37 Khoo L, Heary B. (Moderator). Trauma Session I. North American Spine Society Annual Meeting. San Diego, CA. October 22, 2003.
- 38 Khoo L. "Minimally Invasive Spinal Techniques." (Course Chairman, Keynote speaker) Minimally Invasive Spinal Fixation Course. University of Pennsylvania Department of Orthopedic Surgery & Spinal Concepts. November 1, 2003.
- 39 Khoo L. "Minimally Invasive Spinal Fusion & Decompression Techniques." American Academy of Minimally Invasive Spinal Surgery & Medicine Annual Meeting. Thousand Oaks, California. November 20, 2003.
- 40 Khoo L. "Percutaneous Spinal Stabilization Techniques: Pathfinder." "Minimally Invasive Spinal Surgery-The Future." (Chairman & lecturer). University of Monterrey Medical School, Nuevo Leon. Monterrey, Mexico. December 8, 2003.
- 41 Khoo L. "Pathfinder-A Novel system for minimally invasive spinal fixation." Dinner Seminar (Spinal Concepts). University of South Florida Annual Whistler Spine & Ski Meeting. (CME Event) Whistler, Canada. January 17, 2004.
- 42 Khoo L. "Minimally Invasive Decompressive & Guidance Technologies." (Invited Faculty) University of South Florida Annual Whistler Spine & Ski Meeting. (CME Event) Whistler, Canada. January 19, 2004.
- 43 Khoo L. "Advancements in Spinal Surgical Materials & Biology" Pan Pacific Surgical Society Bi-annual Meeting. Sheraton Waikiki. Honolulu, Hawaii. February 15, 2004.
- 44 Khoo L. "Minimally invasive lumbar spinal surgery." Hawaii Association of Neurological Surgery Quarterly Meeting. Wailaie Country Club. Honolulu, Hawaii. February 19, 2004.
- 45 Khoo L. "Cervical Myelopathy: Case Presentations" (Presenter). 20<sup>th</sup> Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerves –San Diego, California. March 20, 2004.
- 46 Khoo L. "Cervical Spine Biomechanics." "Results of Dynamic Plating for trauma." "Lumbar trauma case discussions." University of Utah Department of Neurosurgery Annual Spine & Ski Snowbird Meeting. (CME Event). Snowbird, Utah. April 1-2, 2004.
- 47 Khoo L. "An Overview of Minimally invasive spinal Surgery." "Pathfinder surgical techniques." Thomas Jefferson University Department of Neurosurgery Spine Symposium. Philadelphia, Pennsylvania. April 17, 2004.
- 48 Khoo L. "Minimally Invasiva Chirurgie de Vertebrale." (Grand Rounds Lecturer & Visiting Professor). University de Umberto Primo Department of Neurosurgery, Rome, Italy. April 23, 2004.
- 49 Khoo L. "Minimally Invasive Spinal Surgery." (Faculty & lecturer). 30 Anni Di Chirurgia Vertebrale ieri oggi domain (Course). Università Statale di Milano Aula Magna. Milan, Italy. April 24, 2004.

- 50 Khoo L. "Novel Techniques in Spinal Surgery." (Grand Rounds Lecturer & Visiting Professor). Hospital Bel Aria Department of Neurosurgery. Bologna, Italy. April 26, 2004.
- 51 Khoo L. "Minimally Invasive Lumbar Spinal Surgery: An Overview." (Grand Rounds Lecturer & Visiting Professor). University of Southern California Medical Center- Department of Orthopedic Surgery Grand Rounds. Los Angeles, California. April 30, 2004.
- 52 Khoo L. "The Lateral Retroperitoneal Approach to the Lumbar Spine" (Invited Lecturer & Faculty). Surgical Anatomy of the Thoracic and Lumbar Spine (Practical CME Clinic). American Academy of Neurological Surgery 2004 Annual Meeting. Orlando, Florida. May 1, 2004.
- 53 Khoo L. (Instructor). Modern Trends in Lumbar Interbody Fusion. (Practical CME Clinic). American Academy of Neurological Surgery 2004 Annual Meeting. Orlando, Florida. May 1, 2004.
- 54 Khoo L. "Outcomes in a prospective series of minimally invasive transforaminal lumbar interbody fusion (TLIF)" (Lecturer). American Academy of Neurological Surgery 2004 Annual Meeting. Orlando, Florida. May 3, 2004.
- 55 Khoo L. "Pathfinder Percutaneous Pedicle Fixation Techniques." (Lecturer & hands on instructor) North American Spine Society Minimally Invasive Spinal Surgery Course. PAWS Facility. St. Louis Medical Center. May 21-22, 2004.
- 56 Khoo L. "Minimally invasive pedicle screw fixation & interbody fusion techniques." Minimally Invasive Workshops. (Invited Faculty). International Society for the Study of the Lumbar Spine (ISSLS) & Cervical Spine Research Society: European Section Annual Meeting. Oporto, Portugal. June 1, 2004.
- 57 Khoo L. "Minimally Invasive Spinal Surgical Techniques-the Cutting Edge" (Invited Lecturer) Chilean Spine Society Annual Meeting. Clinica Los Condes. Santiago, Chile. August 26-28, 2004.
- 58 Khoo L. "Techniques of minimally invasive interbody fusion and fixation" (Invited Lecturer) Chilean Spine Society Annual Meeting. Clinica Los Condes. Santiago, Chile. August 26-28, 2004
- 59 Khoo L. "Minimally Invasive Spinal Neurosurgery: Future Trends." (Invited Keynote Speaker) Annual Mexican National Congress of Spinal Surgery. Veracruz, Mexico. September 9-11, 2004.
- 60 Khoo L. "Image Guided Spinal Surgery." (Invited Keynote Speaker) Annual Mexican National Congress of Spinal Surgery. Veracruz, Mexico. September 9-11, 2004.
- 61 Khoo L. "Cervical Disc herniation: Minimally Invasive Techniques & Outcomes." (Invited Lecturer, CME Event). Controversies in Cervical Spine Surgery. St. Josephs Hospital. Huntington beach, California. September 23-24, 2004.
- 62 Khoo L. (Clinical Instructor) "Mastering Spinal Disorders: Dealing with Complexities." Practical Course. Congress of Neurological Surgeons Annual Meeting. San Francisco, California. October 17, 2004.
- 63 Khoo L. "Dynamic Load Bearing MRI: A new diagnostic modality?" (Invited Lecturer, CME Event) Pre-Course Symposium: Emerging Technologies and Devices. North American Spine Society Annual meeting. Chicago, Illinois. October 26, 2004.
- 64 Khoo LT. "Minimally Invasive Spinal Surgery." (Keynote Speaker, Cadaver Workshop). Mexican AMSICO National Society Meeting. Merida, Mexico. October 14, 2005.
- 65 Khoo LT. (Visiting Professor) "Minimally Invasive Cervical and Lumbar Techniques." University of Mexico Monterrey Department of Neurosurgery Annual Course. Monterrey Mexico. December 2, 2005.
- 66 Khoo LT. "Image Guidance in Spinal Neurosurgery." University of South Florida Annual Whistler Spine & Ski Meeting. (CME Event) Whistler, Canada. January 17, 2006.

- 67 Khoo LT. “Minimally invasive three column stabilization/” (Invited Lecturer and Course Instructor). Univeristy of Victor Senegalin Bordeaux. Bordeaux, France. January 1, 2006.
- 68 Khoo LT. “Minimally Invasive Spinal Techniques: Are they worth it?” (Invited Lecturer, CME Event) Unveristy of Philadelphia, Rothman Institure Annual Fellows Meeting. San Francisco, CA. February 2. 2006.
- 69 Khoo LT. “Modern Diagnostic Spinal Imaging Techniques.” (Invited Lecturer, CME Event). North American Spine Society Annual Spring Break. Miami, Florida. March 10, 2006.
- 70 Khoo LT. “Spinal Monitoring is not the standard of care.” (Invited Debator/Lecturer). AANS/CNS Spine Section Meeting. Orlando, FL. March 16, 2006.
- 71 Khoo LT. Thoracic and Lumbar Stabilization and Fusion: Indications and Complications. (Practical Course Instructor). American Association of Neurological Surgery Annual Meeting. San Francisco. April 2006.
- 72 Khoo LT. Cervical Spine Instability: Instrumentation and Other Methods of Management. (Practical Course Instructor). American Association of Neurological Surgery Annual Meeting. San Francisco. April 2006.
- 73 Khoo LT. Surgical Anatomy of the Thoracic and Lumbar Spine. (Practical Course Instructor). American Association of Neurological Surgery Annual Meeting. San Francisco. April 2006.

### **Instructional Courses**

- 2 Khoo L. “Introduction to Spinal Surgery.” Rush Presbyterian Medical Center 2000 Nursing Education Seminar (Faculty,CME/CEU accredited). Chicago , Illinois. September 2000.
- 3 Khoo, L. “An Overview of Operative Spinal Surgery & Instrumentation Systems.” (Faculty, Course Director) AO/ASIF AORN Instructional Course. (CME/CEU accredited). Chicago, Illinois. November 17,2000.
- 4 Khoo L. “Anterior cervical surgery for trauma.” (Invited Faculty,Lecture) Aesculap Annual Sales Force Meeting. St. Louis, MO. November 11,2000.
- 5 Khoo L “Spinal Cord tumors and arteriovenous malformations.” CNRN Neurological Review Course (Faculty,CME/CEU accredited). Rush Presbyterian Medical Center. March 23,2001.
- 6 Khoo L “A geometric comparison of different anterior plate system results after cervical trauma.” (Invited Faculty, Lecture) Aesculap Cervical Spine Workshop. Snowbird, Utah. April 5,2001.
- 7 Khoo L “Indications and techniques for anterior cervical plating.” (Invited Lecturer & Course Instructor) Aesculap Cervical Spine Workshop. Snowbird, Utah. April 5,2001.
- 8 Khoo L “Minimally Invasive Spine Surgery” (Invited Lecturer) Grand Rounds. Department of General Surgery. Rush Presbyterian St. Luke’s Medical Center. June 16,2001.
- 9 Khoo L “Use of load-sharing plates in trauma and their long term results.” (Invited Lecturer & Course Instructor) Aesculap Cervical Spine Workshop. Toronto, Canada ; August 25,2001.
- 10 Khoo L “Sextant percutaneous pedicle screw surgical techniques” & “MD system-evolution and nuances” (Invited Lecturer) Minimal Access Spinal Technologies Symposium. Medtronic Sofamor Danek. Memphis, TN; February 8-9,2002.
- 11 Khoo L. “Use of dynamic plating in cervical traumatic corpectomies” & “MACS TL anterior instrumentation in spinal trauma” (Invited Lecturer) Aesculap Comprehensive Spine Workshop. Snowbird, Utah. March 22,2002.

- 12 Khoo L “Sextant percutaneous pedicle screw surgical techniques” & “Percutaneous PLIFS” (Invited Lecturer) Minimal Access Spinal Technologies Symposium. Medtronic Sofamor Danek. Memphis, TN; (.May 17<sup>th</sup>/18<sup>th</sup>,2002).
- 13 Khoo L “Dynamic Cervical Plating- Biomechanical Considerations” (Invited Faculty) Aesculap Cervical Spine Workshop. Atlanta, GA. June 9, 2002.
- 14 Khoo L “MAST- Minimal Access Spinal Technologies.” ( Course Chairman ) Minimal Access Spinal Technologies Symposium. Medtronic Sofamor Danek. UCLA, CA; June 22, 2002
- 15 Khoo L “Microendoscopic Surgical Spinal Techniques.” (Invited Faculty) Minimal Access Spinal Technologies Symposium. Medtronic Sofamor Danek. Mission Viejo, CA June 28, 2002.
- 16 Khoo L “ Minimally Invasive Spinal Surgery Techniques.” (Chairman) Minimal Access Spinal Technologies Symposium. Medtronic Sofamor Danek. Queens Medical Center. Honolulu,HI, July 2,2002.
- 17 Khoo L “Minimally-invasive cervical spinal surgical techniques” (Invited Faculty) Clinical Challenges and Advancements in Spine Surgery. Carlsbad, CA. July 26, 2002.
- 18 Khoo L “Percutaneous Pedicle Screw Instrumentation with the Endius Device” (Course Chairman) Endius Training Course. Palo Alto, CA. August 24,2002.
- 19 Khoo L “Clinical Experience with the MACS-TL plate in spinal trauma” (Invited Faculty) Endoscopic Techniques in Anterolateral Spinal Fixation. Irvine, CA. September 17,2002.
- 20 Khoo L “Minimally Invasive Spinal Surgery—the future and the present.” (Course Chairman) Spinal Concepts Course. Oklahoma City, OK. October 4, 2002.
- 21 Khoo L. “Biomechanical Effects of Anterior Plate Fixation; Clinical Results of Dynamic Plating- Technical tips and results in trauma.” (Invited Faculty) Advanced Techniques in Lumbar and Cervical Spine Fusion. Acapulco, Mexico. October 11,2002.
- 22 Khoo L. “Why Dynamic Cervical Plating Makes Sense.” (Lecture) In booth-presentation – Aesculap Spine. 7<sup>th</sup> North American Spine Society Meeting. Montreal, Canada. October 30<sup>th</sup> ,2002.
- 23 Khoo L. “Advances in Minimally Invasive Pedicle Screw Instrumentation.” (Lecture) Dinner Reception- Spinal Concepts. 7<sup>th</sup> North American Spine Society Meeting. Montreal, Canada. October 30<sup>th</sup> ,2002.
- 24 Khoo L. “Endoscopic Spinal Surgery” (Lecture) In booth-presentation- Endius Inc. 7<sup>th</sup> North American Spine Society Meeting. Montreal, Canada. November 1 ,2002.
- 25 Khoo L. “Occipitocervical dislocation” (Invited Faculty) AO ASIF: Spine Trauma Symposium. San Diego, California. November 16, 2002.
- 26 Khoo L “Spinal Penetrating Injuries” (Invited Faculty) AO ASIF: Spine Trauma Symposium. San Diego, California. November 16, 2002.
- 27 Khoo L. “Facet Dislocations” (Invited Faculty) AO ASIF: Spine Trauma Symposium. San Diego, California. November 16, 2002.
- 28 Khoo L. “Endoscopic Posterior Lumbar Interbody Fusion.” (Course Co-Chairman). Endius Course. Phoenix, Arizona. December 14,2002.

- 29 Khoo L. "Design concepts and technical aspects of the Pathfinder system." (Invited Faculty) Spinal Concepts Annual Sales Force Training Meeting. Austin, Texas. February 29, 2003.
- 30 Khoo L. "The History of Minimally Invasive Surgery. Design Fundamentals of the pathfinder System." (Course Chairman) Spinal Concepts-Minimally Invasive Spinal Fixation Training Course. PAWS Facility. St. Louis, Missouri. February 22,2003.
- 31 Khoo L. "Use of dynamic plating in cervical traumatic corpectomies" & "Biomechanical considerations in anterior cervical plating" (Invited Lecturer) Aesculap Comprehensive Spine Workshop. Snowbird, Utah. March 29, 2003.
- 32 Khoo L. "Introduction to the PathFinder Minimally Invasive Pedicle Fixation System." (Course Faculty, Lecturer) Spinal Concepts Annual Phoenix Comprehensive Review of Spinal Surgery. Phoenix, Arizona. April 1, 2003.
- 33 Khoo L. "A new minimally-invasive percutaneous lumbar fixation system – Pathfinder." (Guest Lecturer-In Booth Presentation, Spinal Concepts). American Academy of Neurological Surgery 2003 Annual Meeting. San Diego, California. April 28,2003.
- 34 Khoo L. "Minimally Invasive Spinal Surgery Overview." "Minimally Invasive Pedicle Screw Fixation." (Course Faculty & Lecturer) Spinal Concepts Minimally Invasive Spinal Surgery Course. George Washington University. Washington, D.C. May 30, 2003.
- 35 Khoo L. "An Introduction to Minimally Invasive Pedicle Screw Fixation." (Faculty & lecturer) Spinal Concepts Dinner Seminar on Spinal Technologies. North American Spine Society: Spine Across the Sea 2003. Kapalua, Maui. July 29, 2003.
- 36 Khoo L. "Posterior Cervical Foraminotomy vs. ACDF for Radiculopathy, Foraminotomy technique" (Faculty and Lecturer). Advanced Spinal Techniques Cadaver Workshop (Depuy Acromed). Stanford University Medical Center. Palo Alto, CA. August 22, 2003.
- 37 Khoo L. "Minimally Invasive Pedicle and Interbody fusion techniques." (Course Chairman). Minimally Invasive Spinal Workshop. St. Louis Anatomical Cadaver Lab. Spinal Concepts. St. Louis, MO. September 6, 2003.
- 38 Khoo L. "Minimally Invasive Spinal Surgery-Pathfinder" (In-booth lecturer). Spinal Concepts. North American Spine Society Annual Meeting. San Diego, CA. October 23-24, 2003.
- 39 Khoo L. "Management of Spinal Cord Injury" "Management of Cervical Jumped Facets." (Faculty & lecturer) AO ASIF Residents & Fellows Course on Spinal Surgery. Portland, Oregon. November 15, 2003.
- 40 Khoo L. "Posterior Cervical Foraminotomies" "Minimally Invasive Interbody Techniques." (lecturer & instructor) All Pathologies Spine Course (Depuy Acromed). ARI Center. Phoenix, Arizona. February 6, 2004.
- 41 Khoo L. "Pedicle Fixation & Interbody Fusion for the New Millenium" (Guest Lecturer) Spinal Concepts Annual Sales Force Meeting. Austin, Texas. February 27, 2004.
- 42 Khoo L. "Thoracoscopic and Open Anatomy of the Thoracic Spine." (Lecturer/Instructor). Thoracoscopic Techniques for Spinal Surgery (Aesculap). Barrow Neurological Institute. Phoenix, Arizona. May 15, 2004.

- 43 Khoo L. "Minimally Invasive Posterior Lumbar Interbody Fusion." (Lecturer & Hands on Instructor-cadaver lab) Controversies in Spinal Neurosurgery. Depuy Spine Attending Course. Orthopedic Learning Center. Chicago, Illinois. September 9-10,2004.
- 44 Khoo L. "Minimally-Invasive Treatments of Spinal Stenosis." UCLA Healthcare Community Seniors Program. UCLA- Los Angeles, California. August 10, 2004.
- 45 Khoo L. "Minimally Invasive Pedicle Screw Fixation and Decompression" (Course Chairman) Instructional Course on Minimally Invasive Spinal Surgery. Abbott Spine. PIMIT Center. Dallas, Texas. August 13, 2004.
- 46 Khoo L. "Percutaneous Spinal Fusion Techniques: An Overview." (Course Chairman & Hands on lecturer/instructor). Minimally Invasive Spinal Fusion Techniques Course. Abbot Spine. PIMIT Center. Dallas, Texas. September 18, 2004.
- 47 Khoo L. "Dynamic Anterior Plating: New Techniques and Technologies- a Critical Update." Sales Force Training Course. Los Angeles, California. October 3, 2004.
- 48 Khoo L. "The complete MIS Package: Traxis and Pathfinder" (In-booth lecture and demonstration). Abbott Spine. North American Spine Society Annual Meeting. Chicago, Illinois. October 27, 2004.
- 49 Khoo L. "The Art of Minimally Invasive Surgery." (Chairman) Special Reception on Spinal Surgical Innovations. Chicago Art Museum. Chicago, Illinois. October 27, 2004.
- 50 Khoo L. "Charite Artificial Discs: Techniques" (lecturer) UCLA OR Staff Training Symposium (Depuy Spine). UCLA, Los Angeles, California. November 24, 2004.
- 51 Khoo L, Gravari T, Gonzalez N "Case Presentations: Spinal Surgery" (lecturer) UCLA Neurosurgical Grand Rounds. UCLA Los Angeles, California, December 1, 2004.
- 52 Khoo L. "Minimally Invasive Cervical Spinal Surgical Techniques." (Invited Lecturer). American Assoc Of Neurological Surgeons Minimally Invasive 1<sup>st</sup> Annual Instructional Course (CME Event). Memphis, TN. December 3, 2004.
- 53 Khoo L. "Percutaneous pathfinder pedicle screw Fixation and kyphoplasty techniques." (Hands on cadaver instructor). American Assoc Of Neurological Surgeons Minimally Invasive 1<sup>st</sup> Annual Instructional Course (CME Event). Memphis, TN. December 4, 2004.
- 54 Khoo L. "Dynamic Imaging and Diagnostic Modalities." "Percutaneous Spinal Fixation" (C0-chairman & Keynote lecturer). University of Monterrey Medical School Annual Spinal Symposium, Nuevo Leon. Monterrey, Mexico. December 9-11, 2004.
- 55 Khoo L. "Minimally Invasive Pedicle Screw Fixation- Viper & Concorde." (Invited Faculty) University of South Florida Annual Whistler Spine & Ski Meeting. (CME Event) Whistler , Canada. January 19,2005.
- 56 Khoo L. "A critical update on Minimally Invasive Interbody Fusions." (Invited Lecturer) Spinal Concepts Annual Sales Force Meeting. Austin, Texas. February 4, 2005.
- 57 Khoo L. "Minimally invasive cervical spinal surgery." (Invited Lecturer) North American Spine Society Annual Minimally Invasive Spinal Surgery Hands-on Instructional Course. Orthopedic Learning Center (CME Event). Chicago, Illinois. March 4, 2005.

- 58 Khoo L. "Transforaminal interbody fusion techniques." (Invited Lecturer) North American Spine Society Annual Minimally Invasive Spinal Surgery Hands-on Instructional Course. Orthopedic Learning Center (CME Event). Chicago, Illinois. March 5, 2005.
- 59 Khoo L. "Outcomes & Guidelines: Fusion for Spondylolisthesis and Stenosis." (Invited Lecturer) Special Symposium: Lumbar Fusions Guidelines Committee. 21st Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerve. Phoenix, AZ. March 9, 2005.
- 60 Khoo L. "Minimally Invasive TLIF-Techniques." Luncheon-Whats New Symposium lecture. 21st Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerve. Phoenix, AZ. March 10, 2005.
- 61 Khoo L. "Spinal Fusions Guidelines." (Course Co-Chairman) Nursing and Physician Extender Symposiums. 21st Annual Meeting – AANS/CNS Section on Disorders of the Spine and Peripheral Nerve. Phoenix, AZ. March 11, 2005.
- 62 Khoo L. "Dynamic Plating in Cervical Traumatic Fractures." (Invited lecturer) Aesculap Comprehensive Spine Workshop. Snowbird, Utah. March 14, 2005.
- 63 Khoo L. "Tricks and Tips of the Minimally Invasive TLIF." (Invited Lecturer) Sales Force Training Lectures. Abbot Spine. New Brunswick, NJ. March 18, 2005.
- 64 Khoo L. "Giving Scientific and Academic Lectures and Presentations" (Invited Lecturer & hands on instructor) 1st annual DePuy Spine Neurosurgery Residents Spine Education Summit. Phoenix, AZ. March 31, 2005.
- 65 Khoo L. "Dynamic Imaging Modalities for Spinal Arthroplasty" (Invited lecturer). Annual North American Spine Society Spring Break Meeting (CME Event). Bal Harbour, FL. April 8, 2005.
- 66 Khoo L." Thoracic and Lumbar Stabilization." (Invited lecturer & cadaver instructor). Pre-Course Practical Clinic (CME Event) Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 16, 2005.
- 67 Khoo L." The Trans S1 minimally invasive fusion technique." (Invited lecturer & cadaver instructor). Pre-Course Minimally Invasive Symposium (CME Event). Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 16, 2005.
- 68 Khoo L. "Minimally Invasive Surgical Powered tools and MIS decompressive spinal surgery." (Invited lecturer) Pre-Course Training Symposium. Anspach Inc. Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 16, 2005.
- 69 Khoo L. (Instructor) Cervical Instability Pre-course Clinic. (CME Event) Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 17, 2005.
- 70 Khoo L. "Clinical Outcomes of Minimally invasive interbody fusion." (Invited in-booth lecture). Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 19, 2005.
- 71 Khoo L. (Moderator) Spinal Arthroplasty Session. (CME Event) Annual American Association of Neurological Surgeons Meeting. New Orleans, LA. April 20, 2005.
- 72 Khoo L. "Minimally Invasive Spinal Surgery: An Overview" "Minimally invasive dynamic diagnostic modalities" (Invited Lecturer & Hands on instructor. Update on Spinal Surgery. Southeastern Spine Center & Research Institute (CME Event). Sarasota, Florida April 22, 2005.

- 73 Khoo L. "TLIF: Use of percutaneous Viper Screws and a novel distracting inserter with Concorde." "The XLIF Far lateral procedure." 4<sup>th</sup> Annual Controversies in Lumbar Spine Surgery Symposium. Depuy Spine. Las Vegas, NV. April 28, 2005.
- 74 Khoo L. "Beyond the Disc: The Role of Posterior Arthroplasty." (Invited lecturer) Special Symposium. Spine Arthroplasty Society 5<sup>th</sup> Annual Meeting. (CME Event). New York, NY May 6, 2005.
- 75 Khoo L, Gonzalez, N "Case Presentations: Cervical Laminoplasty." UCLA Neurosurgical Grand Rounds. Los Angeles, California. May 11, 2005.
- 76 Khoo L. "The Future of Posterior Spinal Arthroplasty." (CME Event) UCLA Neurosurgical Symposium Series. Los Angeles, CA. May 18, 2005.
- 77 Khoo L. "The Role of Biologics in Spinal Regeneration" (Symposia Chairman & lecturer). Abbott Spine Annual Emerging Technologies Symposium. (CME Event). Las Vegas, NV. June 10, 2005.
- 78 Khoo L. "Posterior Cervical C1-2 Fixation." (Lecturer & Co-Chairman) Residents & fellows Synthes UCLA sponsored cadaver lab. CAST Center. Los Angeles, CA. June 18, 2005.
- 79 Khoo L. "Minimally Invasive Transforaminal Lumbar Interbody Fusion." (Invited Lecturer & Hands-on Instructor). Depuy Spine Minimally Invasive Surgery Course. Phoenix, AZ. June 24-25, 2005.
- 80 Khoo L. "Minimally invasive Spinal Surgery: techniques and pearls." (Course Chairman & lecturer & handson instructor) Abbott Spine/UCLA Minimally Invasive Spinal Surgery Symposium. Los Angeles, CA. July 16, 2005.
- 81 Khoo L. "Minimally Invasive Spinal Surgery and Emerging Arthroplasty Technologies." (Invited Lecturer). Queens Medical Center Neurosurgical Grand Rounds (CME Event). Honolulu, HI. July 20, 2005.
- 82 Khoo L, Pimenta L. "Outcomes of the Trans-sacral Trans S1 Fusion Technique: A preliminary Experience." (Lecture). Sprcial Symposium. Annual International Meeting on Advanced Spinal Techniques. (CME Event). Banff, Canada. July 8, 2005.
- 83 Khoo L. "Minimally Invasive Cervical Spinal Surgery." (Invited Lecturer). Innovative Techniques in Spine Surgery Meeting. (CME Event) Cabos San Lucas, Mexico. July 21, 2005.
- 84 Khoo L. "Cervical Minimally invasive foraminotomy and stabilization techniques" – Special Symposium: Cervical Arthroplasty Symposium. (Invited lecturer) World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. July 31, 2005.
- 85 Khoo L. "Lumbar Fusions Outcomes and Guidelines" (Plenary Session Invited lecture). World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 1, 2005.
- 86 Khoo L. (Moderator) Minimally Invasive Spinal Surgery Session I. World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 1, 2005.
- 87 Khoo L. "Indications for Facet Arthroplasty: Physiology and Pathology." "The M-Brace neutralization system." – Special Symposium: Posterior Lumbar Motion Preservation Symposium. (Symposium Chairman/lecturer) World Spine III/NASS International Meeting. (CME Event). Rio de Janeiro, Brazil. August 3, 2005.
- 88 Khoo L "Minimally Invasive Lumbar Spinal Decompression." "TLIF technique" (Course Chairman & Handson instructor) Depuy Minimally Invasive Spine Training Course. Denver CO . August 26-27, 2005.

- 89 Khoo L “Minimally invasive cervical surgery” “ The Art of Minimally Invasive Surgery.” (Invited lecturer). WoodHill Hospital Spine Symposium. Mexico City, Mexico. September 2-3, 2005.
- 90 Khoo L “Posterior Arthroplasty: Indications and Emerging Concepts.” (Invited Lecturer) 7<sup>th</sup> Annual Loma Linda University Orthopedics Symposium (CME Event). Mammoth Lakes, CA. September 10-11, 2005.
- 91 Khoo L. “Minimally invasive transforminal interbody fusion: Technique and Outcomes.” (Invited lecture) Emerging Technologies in Spinal Surgery (CME Event). Washington,DC. September 15, 2005.
- 92 Khoo L. “Minimally Invasive Spinal Fusion” Symposia on the Optimesh Interbody System. (Invited lecture and symposia chairman). Eurospine Annual Spine Congress. Barcelona, Spain. September 22, 2005.
- 93 Khoo L. “Minimally Invasive Pathfinder Fusions and Outcomes.” (Symposia chair and lecturer). Eurospine Annual Spine Congress. Barcelona, Spain. September 22, 2005.
- 94 Khoo L.(moderator). “Special Interest Posters: Session II” 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 95 Khoo L. “Minimally invasive Pathfinder and Traxis Fusions” (lecture, in-booth invited talk). 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 96 Khoo L. “Minimally invasive interbody fusion.” (Depuy Spine lecture). . 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 97 Khoo L. “The Art and Intuition of Minimally Invasive Spinal Surgery.” Chicago Art Museum (invited lecturer and symposia host). Abbott Spine Symposia. 20<sup>th</sup> Annual North American Spine Society Meeting. Philadelphia, PA. September 27, 2005.
- 98 Khoo L. “Lumbar Fusion Outcomes for the treatment of stenosis with and without spondylolisthesis.” (Invited lecture). Symposia on Lumbar Fusions Outcomes. Congress of Neurological Surgeons Annual Meeting. Boston, Massachusetts. October 9, 2005.
- 99 Khoo L. “Minimally Invasive Spinal Fusion and Percutaneous Fixation Techniques.” (Invited lecturer). AMSICO Mexican Annual Spine Congress. Merida, Yucatan; Mexico. October 14, 2005.
- 100 Pimenta, L, Rodriguez, R, Khoo L. “Results of the TOPS Facet Replacement System.” (Invited lecturer). AMSICO Mexican Annual Spine Congress. Merida, Yucatan; Mexico. October 14, 2005.
- 101 Khoo L. “Pearls and pitfalls of the min invasive TLIF technique.” Training Course. Abbott Spine. Science Care , Phoenix Arizona. October 28, 2005.
- 102 Khoo L. “Posterior Arthroplasty: Rationale and Classifications.” (Invited Lecturer & practical instructor) Lumbar Fusion Techniques and Emerging Technologies. (CME Event). St. Louis University;; St. Louis, MO. November 3, 2005.
- 103 Khoo L. “The M-Brace Posterior Lumbar Arthroplasty System.” (Invited lecturer) 3<sup>rd</sup> Annual Transatlantic Congress of Spine Surgery (CME Event). Dallas, Texas; Zurich, Switzerland. November 4, 2005.
- 104 Khoo L. “The Transsacral route of fixation: Techniques and Outcomes.” (Invited lecturer & symposia chairman.” 3<sup>rd</sup> Annual Transatlantic Congress of Spine Surgery (CME Event). Dallas, Texas; Zurich, Switzerland. November 5, 2005.

- 105** Khoo L. “Minimally invasive interbody fusion techniques and implants.” (Invited lecturer and hands on instructor). Abbott Spine Attending and Residents Course. Boca Raton, Florida. November 12, 2005.
- 106** Khoo L. “Evolution of Minimally Invasive Cervical Spinal Surgery Techniques.” (Grand Rounds lecture + Visiting Professor). University of Monterrey Medical School Annual Spinal Symposium, Nuevo Leon. Monterrey, Mexico. December 10, 2005.
- 107** Khoo L “Posterior Arthroplasty and Emerging Technologies.” “Minimally Invasive Cervical Surgery.” The 6<sup>th</sup> Pacific Asian Society of Minimally Invasive Spine Surgery. Kenting, Taiwan, August 17-19,2006.
- 108** Khoo L “Minimally invasive Paramount Pedicle Fixation and VBR system” CAST Surgery Center, Instructor. Los Angeles, CA. Saturday January 6, 2007.
- 109** Khoo L “Depuy MIS Instrumentation” (Clinical Instructor) Whistler 20<sup>th</sup> Annual Ski & Spine Meeting. Whistler, Canada. January 13-19, 2007.\
- 110** Khoo L” Allograft Donation, Recovery, Processing” (CME Lecturer). Whistler 20<sup>th</sup> Annual Ski & Spine Meeting. Whistler, Canada. January 15, 2007.
- 111** Khoo L “Treatment of the Painful Degenerative Disc” (CME Event, Course Co-Chairman) World Spine Meeting Istanbul, Turkey. July 27, 2007. Lectures “ Minimally Invasive Lumabr Spinal Decompression” “ Lumbar Nucleus replacement.”
- 112** Khoo L “Minimally Invasive Cervical Surgery” , “Minimally Invasive Lumbar Spinal Surgery”, “Techniques and Outcomes of Minimally Invasive TLIF” (lectures, Invited Visiting Professor and Keynote Speaker) University of Sao Paolo Brazil, Department of Orthopedic and Traumatology Surgery. August 3,4,3007- Sao Paolo Brazil.
- 113** Khoo L”Minimally Invasive Spinal Surgery History” “TLIF Techniques and Outcomes.” (Visiting Professor, Cadaver Instruction, Lecturer). Lumbar Minimally Invasive Surgical Course. CME. University of Brussels Erasmus University Department of Neurological Surgery. Host Dr Alphonse Lubansu. Brussels, Belgium. October 2, 2007.
- 114** Khoo L” Lumbar MIS Surgical Techniques and outcomes.” “Transsacral techniques of MIS Spinal fixation.:(Luncheon Workshop Seminar, Course Chair and faculty) Eurospine Spinal Surgical Congress. Brussels, Belgium. October 3-5, 2007.
- 115** Khoo L “Posterior Cervical Surgery and Fixation Techniques.” (lecture, invited) Aesculap Spine Course. Hollywood, Florida. October 12,2007.
- 116** Khoo L “MIS Techniques of TLIF decompression and fixation.” (lecture, cadaver course instruction, visiting professor) La Universita Autonoma de La Guadalajara. Guadalajara, Mexico. October 16, 2007.
- 117** Khoo L “Futura y Conceptos de la Cirugia Minimente Invasiva de la Lumbar” “Tecnicas de la Minamente Invasiva de La Cirugia Posterior Cervical” (Keynote speaker). Il Congreso Interamericano de Cirugia Minimamente Invasiva de la Columna Vertebral (Latin American MIS Spien Congress). Puerto Vallarta, Mexico. October 17, 2007.
- 118** Khoo L “ Minimally Invasive Spinal deformity Surgery” (Keynote Speaker) Taiwanese National Neurological Surgery Spine Society Meeting. Taipei Taiwan. June 5-6, 2009.