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Education & Qualifications

- 2012 Certified Thai board of Emergency medicine. The Medical Council of Thailand.
- 2010 Certified Research visiting scholar Spine Fellowship program, Rothman Institute, Philadelphia, PA, USA
- 2009 Certified Spine Research fellow, Northshore University Health System, University of Chicago, Evanston, Illinois, USA
- 2006 Certified Thai Board of Orthopaedic Surgery. The Medical Council of Thailand and Royal Thai College of Orthopedic Surgeons
- 1999 Doctor of Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand

Diplomats, Certifications and Fellowships

- 2012 Certified Pediatric Advance Life Support (PALS) program, American Heart Association
- 2009 Certified ECFMG
- 2007 Certified Advance Trauma Life Support (ATLS) Instructor Program
- 2007 Certified Advance Trauma Life Support (ATLS) Student Program
- 2006 Higher Grade Diploma in Clinical Science Program in Orthopedic Surgery, Chulalongkorn University, Bangkok, Thailand
- 2002 Diploma in Clinical Science Program in Surgery, Chulalongkorn University, Bangkok, Thailand

Professional Appointments

2024- current	Director at Large	Society of Minimally Invasive Spine Surgery (SMISS) Asia/Pacific section
2024- current	Vice president	International Affairs, Spine Society of Thailand (SST)
2023- current	Assistant Director for Quality and Risk Management	King Chulalongkorn Memorial Hospital
2022- 2024	Vice president	Academic Affairs, Spine Society of Thailand (SST)
2021- current	Assistant Head	Academic Affairs and education Department of Orthopaedics, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
2020- current	Director	Center of Excellence in Biomechanics and Innovative Spine Surgery Chulalongkorn University
2020- 2022	Vice President	Spine fellowship training, Spine Society of Thailand (SST)
2018-2020	Vice President	Academic affairs, Spine Society of Thailand (SST)
2016-2018	Director	Spine Surgery Unit, Department of Orthopaedics, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
2014-current	Associate Professor	Department of Orthopaedics, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand
2013-current	Editorial Board	The Thai Journal of Orthopaedic Surgery
2012-2014	Director	Patient Care Team of Emergency Room (PCT-ER), King Chulalongkorn Memorial Hospital, Bangkok, Thailand

BOOK CHAPTER

1. Classification of Spinal Injury (Kris Radcliff, MD; **Worawat Limthongkul, MD**; Lawrence Delasotta, MD, MPH; Jeffrey Moore, BS; Alan Levine, MD; Alexander R. Vaccaro, MD, PhD), Spine Trauma, 2nd Edition

2. Oblique lumbar interbody fusion, **Worawat Limthongkul**, ISBN 978-616-407-683-9

PEER REVIEW PUBLICATIONS

1. Karaikovic EE, Rattner Z, Bilimoria MM, Sener SF, McGee JP, Metrick LB, Szokol JW, **Limthongkul W**. Coil embolization of a lumbar artery to control vascular injury during intradiscal surgery. *Spine (Phila Pa 1976)*. 2010;35(5):E163-6.
2. **Limthongkul W**, Karaikovic EE, Savage JW, Markovic A. Volumetric analysis of thoracic and lumbar vertebral bodies. *Spine J*. 2010;10(2):153-8.
3. **Limthongkul W**, Savage J, Nenonene EK, Karaikovic EE. Evaluation of the intrinsic properties of pedicle screws: do diameter, manufacturing and screw design affect resistance and/or resistivity. *Bosn J Basic Med Sci*. 2009;9 Suppl 1:77-82.
4. Li J, Dumonski ML, Liu Q, Lipman A, Hong J, Yang N, Jin Z, Ren Y, **Limthongkul W**, Bessey JT, Thalgott J, Gebauer G, Albert TJ, Vaccaro AR. A multicenter study to evaluate the safety and efficacy of a stand-alone anterior carbon I/F Cage for anterior lumbar interbody fusion: two-year results from a Food and Drug Administration investigational device exemption clinical trial. *Spine* 2010. Dec 15;35(26):E1564-70.
5. Savage JW, **Limthongkul W**, Park HS, Zhang LQ, Karaikovic EE. A comparison of biomechanical stability and pullout strength of two C1-C2 fixation constructs. *Spine J*. 2011 Jul;11(7):654-8.
6. **Limthongkul W**, Yingsakmongkol W. Case Report: Cauda Equina Syndrome Associated With an Interspinous Device. *Clin Orthop Relat Res*. 2012 Jun;470(6):1668-72.
7. Anderson DG, **Limthongkul W**, Sayadipour A, Kepler CK, Harrop JS, Maltenfort M, Vaccaro AR, Hilibrand A, Rihn JA, Albert TJ. A radiographic analysis of degenerative spondylolisthesis at the L4-5 level. *J Neurosurg Spine*. 2012 Feb;16(2):130-4.
8. Radcliff KE, **Limthongkul W**, Kepler CK, Sidhu GD, Anderson DG, Rihn JA, Hilibrand AS, Vaccaro AR, Albert TJ. Cervical Laminectomy Width and Spinal Cord Drift Are Risk Factors for Postoperative C5 Palsy. *J Spinal Disord Tech*. 2012 Mar 20. [Epub ahead of print]
9. Liu Q, **Limthongkul W**, Sidhu G, Zhang J, Vaccaro A, Shenck R, Hickok N, Shapiro I, Freeman T. Covalent attachment of P15 peptide to titanium surfaces enhances cell attachment, spreading, and osteogenic gene expression. *J Orthop Res*. 2012 Oct;30(10):1626-33
10. Vaccaro AR, Kepler CK, Rihn JA, Suzuki H, Ratliff JK, Harrop JS, Morrison WB, **Limthongkul W**, Albert TJ. Anatomical relationships of the anterior blood vessels to the lower lumbar intervertebral discs: analysis based on magnetic resonance imaging of patients in the prone position. *J Bone Joint Surg Am*. 2012 Jun 20;94(12):1088-94.
11. Anderson DG, Sayadipour A, **Limthongkul W**, Martin ND, Vaccaro A, Harrop JS. Traumatic central cord syndrome: neurologic recovery after surgical management. *Am J Orthop (Belle Mead NJ)*. 2012 Aug;41(8):E104-8.
12. Honsawek S, Poonpukdee J, Chalermpanpipat C, Payungporn S, **Limthongkul W**, Yingsakmongkol W, Thanakit V, Parkpian V. Hypertrophy of the ligamentum flavum in lumbar spinal canal stenosis is associated with increased bFGF expression. *Int Orthop*. 2013 Jul;37(7):1387-92.
13. Yingsakmongkol W, Chaichankul C, **Limthongkul W**. Percutaneous interspinous distraction device for the treatment of lumbar spinal canal stenosis: clinical and radiographic results at 2-year follow-up. *Int J Spine Surg*. 2014 Dec 1;8.
14. Kristjánsson B, **Limthongkul W**, Yingsakmongkol W, Thantiworasit P, Jirathanathornnukul N, Honsawek S. Isolation and Characterization of Human Mesenchymal Stem Cells From Facet Joints and Interspinous Ligaments. *Spine*. 2016 Jan;41(1):E1-7.
15. Jirathanathornnukul N, **Limthongkul W**, Yingsakmongkol W, Singhatanadgige W, Parkpian V, Honsawek S. Increased expression of vascular endothelial growth factor is associated with hypertrophic ligamentum flavum in lumbar spinal canal stenosis. *J Investig Med*. 2016 Apr;64(4):882-7.
16. Singhatanadgige W, **Limthongkul W**, Valone F 3rd, Yingsakmongkol W, Riew KD. Outcomes following Laminoplasty or Laminectomy and Fusion in Patients with Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament: A Systematic Review. *Globe Spine J*. 2016 Nov;6(7):702-709.
17. Mabey T, Singhatanadgige W, Yingsakmongkol W, **Limthongkul W**, Honsawek S. Vitamin D and spine surgery. *World J Orthop*. 2016 Nov 18;7(11):726-730. Review.
18. Amarase C, Thimasarn W, Tantavisut S, Huanmanop T, Wangroongsab Y, **Limthongkul W**. Different effect of percutaneous plate insertion via anteromedial vs anterolateral approach on intracompartmental pressure of the leg: A cadaveric study. *Injury*. 2017 Nov;48(11):2407-2410. doi: 10.1016/j.injury.2017.08.070. Epub 2017 Sep 6
19. Singhatanadgige W, Kang DG, Wiranuwat D, Tanavalee C, Yingsakmongkol W, **Limthongkul W**. Awareness of middle sacral artery pathway: A cadaveric study of the presacral area. *J Orthop Surg (Hong Kong)*. 2018 Jan-Apr;26(1):2309499017754094. doi: 10.1177/2309499017754094.
20. Dechsupa S, Yingsakmongkol W, **Limthongkul W**, Singhatanadgige W, Honsawek S. Relative telomere length and oxidative DNA damage in hypertrophic ligamentum flavum of lumbar spinal stenosis. *PeerJ*. 2018 Aug 9;6:e5381. eCollection 2018.

21. Mahatthanatrakul A, Itthipanichpong T, Ratanakornphan C, Numkarunrunrote N, Singhatanadgige W, Yingsakmongkol W, **Limthongkul W**. Relation of lumbar sympathetic chain to the open corridor of retroperitoneal oblique approach to lumbar spine: an MRI study. *Eur Spine J*. 2018 Oct 16. doi: 10.1007/s00586-018-5779-6. Epub 2018 Oct 16.
22. Singhatanadgige W, Suebsombut Y, Riew KD, Tanavalee C, Yingsakmongkol W, **Limthongkul W**. Cervical paraspinal muscle compartment pressure after laminoplasty: A cadaveric study. *J Clin Neurosci*. 2018 Nov 21. pii: S0967-5868(18)31722-3. doi: 10.1016/j.jocn.2018.11.047. Epub 2018 Nov 22.
23. Kaliya-Perumal AK, **Limthongkul W**, Oh JY. Utilization of Spinal Navigation to Facilitate Hassle-Free Rod Placement during Minimally-Invasive Long-Construct Posterior Instrumentation. *Asian Spine J*. 2019 Jan 30. doi: 10.31616/asj.2018.0233. Epub 2019 Jan 30.
24. Tanavalee C, **Limthongkul W**, Yingsakmongkol W, Luksanapruksa P, Singhatanadgige W. A comparison between repeat discectomy versus fusion for the treatment of recurrent lumbar disc herniation: Systematic review and meta-analysis. *J Clin Neurosci*. 2019 Aug;66:202-208. doi: 10.1016/j.jocn.2019.05.004. Epub 2019 May 27.
25. **Limthongkul W**, Tanasansomboon T, Yingsakmongkol W, Tanaviriyachai T, Radcliff K, Singhatanadgige W. Indirect Decompression Effect to Central Canal and Ligamentum Flavum After Extreme Lateral Lumbar Interbody Fusion (XLIF) and Oblique Lumbar Interbody Fusion (OLIF). *Spine (Phila Pa 1976)*. 2020 Apr 23. doi: 10.1097/BRS.0000000000003521. Online ahead of print.
26. Tejapongvorachai T, Tanaviriyachai T, Daniel Riew K, **Limthongkul W**, Tanavalee C, Keeratihattayakorn S, Buttongkum D, Singhatanadgige W. Curved versus straight-cut hinges for open-door laminoplasty: A finite element and biomechanical study. *J Clin Neurosci*. 2020 May 5:S0967-5868(20)30374-X. doi: 10.1016/j.jocn.2020.04.056.
27. Singhatanadgige W, Chanchaoenchai T, Honsawek S, Kotheeranurak V, Tanavalee C, **Limthongkul W**. No Difference in Pain After Spine Surgery with Local Wound Filtration of Morphine and Ketorolac: A Randomized Controlled Trial. *Clin Orthop Relat Res*. 2020 Jun 4. doi: 10.1097/CORR.0000000000001354.
28. Kotheeranurak V, Singhatanadgige W, Ratanakornphan C, Yingsakmongkol W, Hynes RA, **Limthongkul W**. Neutral hip position for the oblique lumbar interbody fusion (OLIF) approach increases the retroperitoneal oblique corridor. *BMC Musculoskelet Disord*. 2020 Aug 31;21(1):583. doi: 10.1186/s12891-020-03592-9.PMID: 32867737
29. Tanasansomboon T, Tejapongvorachai T, Yingsakmongkol W, **Limthongkul W**, Kotheeranurak V, Singhatanadgige W. Minimally Invasive Percutaneous Modified Iliac Screw Placement Using Intraoperative Navigation: A Technical Note. *World Neurosurg*. 2021 Feb;146:240-245. doi: 10.1016/j.wneu.2020.11.112. Epub 2020 Nov.
30. Singhatanadgige W, Songthong K, Pholprajug P, Yingsakmongkol W, Kotheeranurak V, **Limthongkul W**. Trajectory of Lumbar Translaminar Facet Screw Under Navigation: A Cadaveric Study. *Global Spine J*. 2020. doi: 10.1177/2192568220962444.
31. Singhatanadgige W, Promsuwan M, Tanasansomboon T, Yingsakmongkol W, **Limthongkul W**. Is Unilateral Minimally Invasive Transforaminal Lumbar Interbody Fusion Sufficient in Patients with Claudication? A Comparative Matched Cohort Study. *World Neurosurg*. 2021 Jun;150:e735-e740. doi: 10.1016/j.wneu.2021.03.116. Epub 2021 Mar 30.
32. Yingsakmongkol W, Wathanavasin W, Jitpakdee K, Singhatanadgige W, **Limthongkul W**, Kotheeranurak V. Psoas Major Muscle Volume Does Not Affect the Postoperative Thigh Symptoms in XLIF Surgery. *Brain Sci*. 2021 Mar 11;11(3):357. doi: 10.3390/brainsci11030357.
33. Singhatanadgige W, Sukthuyat A, Tanaviriyachai T, Kongtharvonskul J, Tanasansomboon T, Kerr SJ, **Limthongkul W**. Risk factors for polyetheretherketone cage subsidence following minimally invasive transforaminal lumbar interbody fusion. *Acta Neurochir (Wien)*. 2021 Jul 23. doi: 10.1007/s00701-021-04923-y.
34. Kotheeranurak V, Jitpakdee K, Lin GX, Mahatthanatrakul A, Singhatanadgige W, **Limthongkul W**, Yingsakmongkol W, Kim JS. Subsidence of Interbody Cage Following Oblique Lateral Interbody Fusion: An Analysis and Potential Risk Factors. *Global Spine J*. 2021 Dec 17:21925682211067210. doi: 10.1177/21925682211067210. Online ahead of print.
35. **Limthongkul W**, Chantharakomen R, Tanasansomboon T, Yingsakmongkol W, Yoong-Leong Oh J, Kotheeranurak V, Singhatanadgige W. Comparison of unremoved intervertebral disc location between two lateral lumbar interbody fusion (LLIF) techniques. *World Neurosurg*. 2022 Jan 8:S1878-8750(22)00014-6. doi: 10.1016/j.wneu.2022.01.011. Online ahead of print.
36. Yingsakmongkol W, Jitpakdee K, Varakornpipat P, Choentrakool C, Tanasansomboon T, **Limthongkul W**, Singhatanadgige W, Kotheeranurak V. Clinical and Radiographic Comparisons among Minimally Invasive Lumbar Interbody Fusion: A Comparison with Three-Way Matching. *Asian Spine J*. 2022 Jan 25. doi: 10.31616/asj.2021.0264. Online ahead of print.
37. Yingsakmongkol W, Poriswanich K, Kotheeranurak V, Numkarunrunrote N, **Limthongkul W**, Singhatanadgige W. How Prone Position Affects the Anatomy of Lumbar Nerve Roots and Psoas Morphology for Prone Transpsoas Lumbar Interbody Fusion. *World Neurosurg*. 2022 Apr;160:e628-e635. doi: 10.1016/j.wneu.2022.01.104. Epub 2022 Jan 30.PMID: 35108649
38. Kotheeranurak V, Jitpakdee K, Singhatanadgige W, **Limthongkul W**, Yingsakmongkol W, Kim JS. Anterior transcorporeal full-endoscopic drainage of a long-span ventral cervical epidural abscess: A novel surgical technique. *N Am Spine Soc J*. 2021 Feb 12;5:100052. doi: 10.1016/j.xnsj.2021.100052. eCollection 2021 Mar.

39. Singhatanadgige W, Pholprajug P, Songthong K, Yingsakmongkol W, Triganjananun C, Kotheeranurak V, **Limthongkul W**. Comparative Radiographic Analyses and Clinical Outcomes Between O-Arm Navigated and Fluoroscopic-Guided Minimally Invasive Transforaminal Lumbar Interbody Fusion. *Int J Spine Surg*. 2022 Feb;16(1):151-158. doi: 10.14444/8183. Epub 2022 Feb 17.
40. Chalermkitpanit P, **Limthongkul W**, Yingsakmongkol W, Thepsoparn M, Pannangpetch P, Tangchitcharoen N, Tanasansomboon T, Singhatanadgige W. Analgesic Effect of Intravenous Nefopam for Postoperative Pain in Minimally Invasive Spine Surgery: A Randomized Prospective Study. *Asian Spine J*. 2022 Mar 11. doi: 10.31616/asj.2021.0337. Online ahead of print.
41. Kotheeranurak V, Jitpakdee K, Rujiramongkolchai N, Atikankul T, Singhatanadgige W, **Limthongkul W**, Tejapongvorachai T, Kim JS. Remodeling of the Lumbar Facet Joint After Full Endoscopic Resection for Lumbar Osteoid Osteoma: Case Report and Literature Review. *Int J Spine Surg*. 2022 Apr;16(2):378-383. doi: 10.14444/8210. Epub 2022 Mar 10.
42. Kotheeranurak V, Liawrungrueang W, Kuansongtham V, Sriphirom P, Bamrunghin N, Keorochana G, Pruttikul P, **Limthongkul W**, Singhatanadgige W, Pongmanee S, Arunakul R, Ruangchainikom M, Sasiprapha P, Chitragarn R, Pairuchvej S, Tanasansomboon T, Jitpakdee K. Surgeons' Perspective, Learning Curve, Motivation, and Obstacles of Full-Endoscopic Spine Surgery in Thailand: Results From A Nationwide Survey. *Biomed Res Int*. 2022 Mar 11;2022:4971844. doi: 10.1155/2022/4971844. eCollection 2022.
43. Tanasansomboon T, Kittipibul T, **Limthongkul W**, Yingsakmongkol W, Kotheeranurak V, Singhatanadgige W. Thoracolumbar Burst Fracture without Neurological Deficit: Review of Controversies and Current Evidence of Treatment. *World Neurosurg*. 2022 Jun;162:29-35. doi: 10.1016/j.wneu.2022.03.061. Epub 2022 Mar 19.
44. Kotheeranurak V, Pholprajug P, Jitpakdee K, Pruttikul P, Chitragarn R, Singhatanadgige W, **Limthongkul W**, Yingsakmongkol W, Kim JS. Full-Endoscopic Anterior Odontoid Screw Fixation: A Novel Surgical Technique. *Orthop Surg*. 2022 May;14(5):990-996. doi: 10.1111/os.13271. Epub 2022 Apr 20.
45. Singhatanadgige W, Jaruprat P, Kerr SJ, Yingsakmongkol W, Kotheeranurak V, **Limthongkul W**. Incidence and risk factors associated with superior-segmented facet joint violation during minimal invasive lumbar interbody fusion. *Spine J*. 2022 Apr 18:S1529-9430(22)00149-8. doi: 10.1016/j.spinee.2022.04.002. Online ahead of print.
46. Singhatanadgige W, Chamadol H, Tanasansomboon T, Kang DG, Yingsakmongkol W, **Limthongkul W**. Surgical Outcomes of Minimally Invasive Transforaminal Lumbar Interbody Fusion Using Surgical Microscope vs Surgical Loupes: A Comparative Study. *Int J Spine Surg*. 2022 Jul 14:8303. doi: 10.14444/8303. Online ahead of print.
47. Yingsakmongkol W, Jitpakdee K, Kerr S, **Limthongkul W**, Kotheeranurak V, Singhatanadgige W. Successful Criteria for Indirect Decompression With Lateral Lumbar Interbody Fusion. *Neurospine*. 2022 Sep;19(3):805-815. doi: 10.14245/ns.2244058.029. Epub 2022 Aug 10.
48. Singhatanadgige W, Suranaowarat P, Jaruprat P, Kerr SJ, Tanasansomboon T, **Limthongkul W**. Indirect Effects on Adjacent Segments After Minimally Invasive Transforaminal Lumbar Interbody Fusion. *World Neurosurg*. 2022 Aug 25:S1878-8750(22)01197-4. doi: 10.1016/j.wneu.2022.08.087. Online ahead of print.
49. Singhatanadgige W, Tangchitcharoen N, Kerr SJ, Tanasansomboon T, Yingsakmongkol W, Kotheeranurak V, **Limthongkul W**. Comparison of PEEK and TiPEEK in Minimally Invasive Transforaminal Lumbar Interbody Fusion: a Randomized Clinical Trial. *World Neurosurg*. 2022 Oct 7:S1878-8750(22)01411-5. doi: 10.1016/j.wneu.2022.10.006. Online ahead of print.
50. **Limthongkul W**, Wannaratsiri N, Sukjamsri C, Benyajati CN, Limthongkul P, Tanasansomboon T, Yingsakmongkol W, Singhatanadgige W. Biomechanical Comparison Between Posterior Long-Segment Fixation, Short-Segment Fixation, and Short-Segment Fixation With Intermediate Screws for the Treatment of Thoracolumbar Burst Fracture: A Finite Element Analysis. *Int J Spine Surg*. 2023 Jan 23:8441. doi: 10.14444/8441. Online ahead of print.
51. Dechsupa S, Yingsakmongkol W, **Limthongkul W**, Singhatanadgige W, Jitjumnong M, Honsawek S. Vitamin D Inadequacy Affects Skeletal Muscle Index and Physical Performance in Lumbar Disc Degeneration. *Int J Mol Sci*. 2023 Feb 5;24(4):3152. doi: 10.3390/ijms24043152.
52. Kotheeranurak V, Tangdamrongtham T, Lin GX, Singhatanadgige W, **Limthongkul W**, Yingsakmongkol W, Kim JS, Jitpakdee K. Comparison of full-endoscopic and tubular-based microscopic decompression in patients with lumbar spinal stenosis: a randomized controlled trial. *Eur Spine J*. 2023 Apr 3:1-12. doi: 10.1007/s00586-023-07678-5. Online ahead of print.
53. Itthipanichpong T, Tanasansomboon T, Jaruthien N, Jenvorapoj S, Singhatanadgige W, Yingsakmongkol W, **Limthongkul W**. Lumbar Sympathetic Chain Tract and Mobility of Oblique Lumbar Interbody Fusion Approach: A Cadaveric Study. *World Neurosurg*. 2023 Jul;175:e775-e779. doi: 10.1016/j.wneu.2023.04.017. Epub 2023 Apr 8. PMID: 37037371
54. **Limthongkul W**, Wathanavasin W, Kotheeranurak V, Tangdamrongtham T, Tanasansomboon T, Yingsakmongkol W, Singhatanadgige W. Comparing Efficacy of Lumbar Disc Space Preparation via an Anterior-to-Psoas Approach Between Intraoperative Conventional Fluoroscopy and Computed Tomographic-Based Navigation System: A Cadaveric Study. *World Neurosurg*. 2023 Aug;176:e226-e231. doi: 10.1016/j.wneu.2023.05.035. Epub 2023 May 16. PMID: 37201786
55. Chalermkitpanit P, Yingsakmongkol W, **Limthongkul W**, Tanasansomboon T, Pannangpetch P, Tangchitcharoen N, Singhatanadgige W. Perioperative Intravenous Nefopam on Pain Management and Ambulation after Open Spine Surgery:

A Randomized Double-Blind Controlled Study. Asian Spine J. 2023 Aug;17(4):632-638. doi: 10.31616/asj.2022.0358. Epub 2023 Jul 6. PMID: 37408291

56. Singhatanadgige W, Chatareeyagul P, Tanasansomboon T, Phutrakool P, Kotheeranurak V, Yingsakmongkol W, **Limthongkul W**. Should a Narrow Corridor Be a Contraindication for Performing Oblique Lateral Interbody Fusion Procedure or Not? Global Spine J. 2023 Nov 14;21925682231216049. doi: 10.1177/21925682231216049. Online ahead of print.
57. **Limthongkul W**, Praisarnti P, Tanasansomboon T, Prasertkul N, Kotheeranurak V, Yingsakmongkol W, Singhatanadgige W. An Expanded Surgical Corridor of Oblique Lateral Interbody Fusion at L4-5: A Magnetic Resonance Imaging Study. Neurospine. 2023 Dec;20(4):1450-1456. doi: 10.14245/ns.2346678.339. Epub 2023 Dec 31.
58. **Limthongkul W**, Thanapura C, Jitpakdee K, Praisarnti P, Kotheeranurak V, Yingsakmongkol W, Tanasansomboon T, Singhatanadgige W. Is Direct Decompression Necessary for Lateral Lumbar Interbody Fusion (LLIF)? A Randomized Controlled Trial Comparing Direct and Indirect Decompression With LLIF in Selected Patients. Neurospine. 2024 Mar;21(1):342-351. doi: 10.14245/ns.2346906.453. Epub 2024 Mar 31.
59. Riewruja K, Tanasansomboon T, Yingsakmongkol W, Kotheeranurak V, **Limthongkul W**, Chokesuwattanaskul R, Kerr SJ, Singhatanadgige W. A Network Meta-Analysis Comparing the Efficacy and Safety of Pedicle Screw Placement Techniques Using Intraoperative Conventional, Navigation, Robot-Assisted, and Augmented Reality Guiding Systems. Int J Spine Surg. 2024 Nov 8;18(5):551-570. doi: 10.14444/8618.
60. Tanasansomboon T, Khandehroo B, **Limthongkul W**, Yingsakmongkol W, Anand N. Prevalence and Clinical Impact of Coronal Malalignment Following Circumferential Minimally Invasive Surgery (CMIS) for Adult Spinal Deformity Correction. Global Spine J. 2024 Oct 3;21925682241290759. doi: 10.1177/21925682241290759. Online ahead of print.
61. Singhatanadgige W, Tangdamrongtham T, **Limthongkul W**, Yingsakmongkol W, Kerr SJ, Tanasansomboon T, Kotheeranurak V. Incidence and Risk Factors for Lumbar Sympathetic Chain Injury After Oblique Lumbar Interbody Fusion. Neurospine. 2024 Sep;21(3):820-832. doi: 10.14245/ns.2448536.268. Epub 2024 Sep 30.
62. **Limthongkul W**, Chaiwongwattana B, Kerr SJ, Tanasansomboon T, Kotheeranurak V, Yingsakmongkol W, Singhatanadgige W. Risk Factors of Unsatisfactory Outcomes Requiring Additional Intervention Following Oblique Lateral Interbody Fusion. Neurospine. 2024 Sep;21(3):845-855. doi: 10.14245/ns.2448344.172. Epub 2024 Sep 30.
63. Kotheeranurak V, Jitpakdee K, Lewandrowski KU, Lin GX, Singhatanadgige W, **Limthongkul W**, Yingsakmongkol W, Kim JS, Liawrungrueang W. Clinical and Radiographic Outcomes of Cervical Disc Replacement Versus Posterior Endoscopic Cervical Decompression: A Matched-Pair Comparison Analysis.

International Membership Spine community

- EUROSPINE
- AO Spine
- Society for Minimally Invasive Spine Surgery (SMISS)
- Pacific and Asian Society of Minimally Invasive Spine Surgery (PASMISS)
- NASS
- ISASS
- APSS
- NASSi
- ISASS-AP
- SMISS-AP

OTHER PUBLICATIONS

1. Eldin E. Karaikovic, **Worawat Limthongkul**, Thomas Hearty, Steven Goldberg. Pyogenic discitis in adolescence: a case report and review of the literature. Acta Medica Academica. 2010;39(2):194-198
2. Radcliff K, **Limthongkul W**, Gruskay J, Sidhu G, Miller L. Surgical planning for the treatment of thoracolumbar fractures: Anterior, posterior, or combined approach? Semin Spine Surg. 2012 Dec;24(4):244-251
3. **Limthongkul W**, Singhatanadgige W, Vaccaro AR, Albert TJ, Radcliff K. Health-related quality of life and cost after cervical spine trauma. Semin Spine Surg. 2014 Mar;26(1):30-37

REVIEWER

1. Clinical Orthopaedics and Related Research
2. Spine journal
3. The Spine Journal

4. International Journal of Spine Surgery
5. Journal of Spine
6. Clinical Biomechanics
7. Journal of Orthopaedic Surgery and Research
8. World Journal of Clinical Cases.

AWARD

1. Runner up: Spine paper contest, Operative Spine course 2017
2. Best Paper Award, KSSS 2023
3. Best Oral Presentation Award, RCOST 2023

Special Interests

1. Minimal invasive spinal surgery: OLIF, MIS TLIF, Endoscopic
2. Spinal deformity
3. Spinal Trauma