

# CURRICULUM VITAE

Feb 6th, 2023

**Name** Lee, Jae Hoon  
**Position** Professor  
Department of Anesthesiology and Pain Medicine,  
Severance Hospital, Yonsei University Health System, Seoul, Korea

**Current Address** Department of Anesthesiology and Pain Medicine,  
Yonsei University College of Medicine  
50-1 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea  
Telephone: 82-2-2228-2420  
Fax: 82-2-312-7185  
E-mail: [neogens@yuhs.ac](mailto:neogens@yuhs.ac)

## Education

Mar. 1995 - Feb. 2001	Bachelor's Degree, Yonsei University College of Medicine, Seoul, Korea
Mar. 2003 - Feb. 2005	Master's Degree of Medical Science, Yonsei University College of Medicine, Seoul, Korea
Sep. 2009 – Feb. 2014	Ph.D. Degree of Medical Science, Yonsei University College of Medicine, Seoul, Korea

## License

2001 Licensed to Practice Medicine in Korea. #72366  
2006 Korean Board of Anesthesiology and Pain Medicine. #3018

## Training & Employment

Mar 2001 - Feb 2002 Internship, Severance Hospital,  
Yonsei University College of Medicine, Seoul, Korea  
Mar 2002 - Feb 2006 Residency, Severance Hospital, Department of Anesthesiology and  
Pain Medicine,  
Yonsei University College of Medicine, Seoul, Korea  
May 2009 - Feb 2010 Clinical and Research Fellowship, Severance Hospital,  
Department of Anesthesiology and Pain Medicine,  
Yonsei University College of Medicine, Seoul, Korea  
Mar 2010 - Feb 2013 Assistant Clinical Professor, Department of Anesthesiology and Pain  
Medicine,  
Yonsei University College of Medicine, Seoul, Korea  
Mar 2013 - Feb 2016 Assistant Professor, Department of Anesthesiology and Pain  
Medicine,  
Yonsei University College of Medicine, Seoul, Korea  
Mar 2016 – Feb 2021 Associate Professor, Department of Anesthesiology and Pain  
Medicine,  
Yonsei University College of Medicine, Seoul, Korea

Mar 2021 – Present            Professor, Department of Anesthesiology and Pain Medicine,  
Yonsei University College of Medicine, Seoul. Korea  
Sep 2016 – Aug 2018        Visiting Associate Professor, Department of Anesthesiology and  
Perioperative Care,  
University of California San Francisco, San Francisco, USA

## **Bibliography**

### Original Articles

1. **Lee JH**, Koo BN, Jeong JJ, Kim HS, Lee JR. Differential effects of lidocaine and remifentanyl on response to the tracheal tube during emergence from general anaesthesia. *Br J Anaesth*. 2011 Mar;106(3):410-5.
2. **Lee JH**, Kwon TD, Kim HJ, Kang B, Koo BN. Multiple cerebral infarction and paradoxical air embolism during hepatectomy using the Cavitron Ultrasonic Surgical Aspirator -A case report-. *Korean J Anesthesiol*. 2010 Dec;59 Suppl:S133-6.
3. **Lee JH**, Min KT, Chun YM, Kim EJ, Choi SH. Effects of beach-chair position and induced hypotension on cerebral oxygen saturation in patients undergoing arthroscopic shoulder surgery. *Arthroscopy*. 2011 Jul;27(7):889-94.
4. Cui H, **Lee JH**, Kim JY, Koo BN, Lee JE. The neuroprotective effect of agmatine after focal cerebral ischemia in diabetic rats. *J Neurosurg Anesthesiol*. 2012 Jan;24(1):39-50.
5. **Lee JH**, Yoon DM, Kwon TD, Yoon KB. An evaluation of contrast medium spread on caudal epidurography with the needle positioned toward the affected side in patients with unilateral lumbosacral radiculopathy. *Skeletal Radiol*. 2012 Dec;41(12):1613-8.
6. Kim H, Choi SH, Choi YS, **Lee JH**, Kim NO, Lee JR. Comparison of the antitussive effect of remifentanyl during recovery from propofol and sevoflurane anaesthesia. *Anaesthesia*. 2012 Jul;67(7):765-70.
7. Park JH, **Lee JH**, Joo DJ, Song KJ, Kim YS, Koo BN. Effect of sevoflurane on grafted kidney function in renal transplantation. *Korean J Anesthesiol*. 2012 Jun;62(6):529-35.
8. Koo BN, Lee JR, Noh GJ, **Lee JH**, Kang YR, Han DW. A pharmacodynamic analysis of factors affecting recovery from anesthesia with propofol-remifentanyl target controlled infusion. *Acta Pharmacol Sin*. 2012 Aug;33(8):1080-4.
9. **Lee JH**, Joo DJ, Kim JM, Park JH, Kim YS, Koo BN. Preconditioning effects of the anesthetic administered to the donor on grafted kidney function in living donor kidney transplantation recipients. *Minerva Anestesiologica* 2013; 79: 504-14.
10. **Lee JH**, Kim MS, Na S, Koh SO, Sim J, Choi YS. Evaluation of acid-base status in brain dead donors and the impact of metabolic acidosis on organ retrieval. *Minerva Anestesiologica* 2013; 79: 1101-20.
11. **Lee JH**, Cui HS, Shin SK, Kim JM, Kim SY, Lee JE, Koo BN. Effect of Propofol Post-treatment on Blood-Brain Barrier Integrity and Cerebral Edema After Transient Cerebral Ischemia in Rats. *Neurochemical Research* 2013; 38: 2276-86.
12. Kim EM, Yoon KB, **Lee JH**, Yoon DM, Kim DH. The effect of oxygen administration on regional cerebral oxygen saturation after stellate ganglion block on the non-blocked side. *Pain Physician* 2013; 16: 117-24.
13. Kim JM, **Lee JH**, Lee HJ, Koo BN. Comparison of emergence time in children undergoing minor surgery according to anesthetic: desflurane and sevoflurane. *Yonsei Medical Journal* 2013; 54: 732-8.
14. Kim SY, Kim JM, **Lee JH**, Kang YR, Jeong SH, Koo BN. Perioperative respiratory adverse

- events in children with active upper respiratory tract infection who received general anesthesia through an orotracheal tube and inhalation agents. *Korean Journal of Anesthesiology* 2013; 65: 136-41.
15. Kim SY, Kim JM, **Lee JH**, Song BM, Koo BN. Efficacy of intraoperative dexmedetomidine infusion on emergence agitation and quality of recovery after nasal surgery. *British Journal of Anaesthesia* 2013; 111: 222-8.
  16. Park JS, Kim KJ, **Lee JH**, Jeong WY, Lee JR. A Randomized Comparison of Remifentanyl Target-Controlled Infusion Versus Dexmedetomidine Single-Dose Administration: A Better Method for Smooth Recovery From General Sevoflurane Anesthesia. *American Journal of Therapeutics* E-pub ahead of print.
  17. Kim EM, Lee JR, Koo BN, Im YJ, Oh HJ, **Lee JH**. Analgesic efficacy of caudal dexamethasone combined with ropivacaine in children undergoing orchiopexy. *British Journal of Anaesthesia* 2014; 112: 885-91.
  18. **Lee JH**, Park JH, Kil HK, Choi SH, Noh SH, Koo BN. Efficacy of Intrathecal Morphine Combined with Intravenous Analgesia versus Thoracic Epidural Analgesia after Gastrectomy. *Yonsei Medical Journal* 2014; 55: 1106-14.
  19. **Lee JH**, Choi SH, Choi YS, Lee B, Yang SJ, Lee JR. Does the type of anesthetic agent affect remifentanyl effect-site concentration for preventing endotracheal tube-induced cough during anesthetic emergence? Comparison of propofol, sevoflurane, and desflurane. *Journal of Clinical Anesthesia* 2014; 26: 466-74.
  20. Choi SH, Min KT, Lee JR, Choi KW, Han KH, Kim EH, Oh HJ, **Lee JH**. Determination of EC95 of Remifentanyl for Smooth Emergence From Propofol Anesthesia in Patients Undergoing Transsphenoidal Surgery. *Journal of Neurosurgical Anesthesiology* 2015; 27: 160-6.
  21. Kim J, Kim SY, **Lee JH**, Kang YR, Koo BN. Low-dose dexmedetomidine reduces emergence agitation after desflurane anaesthesia in children undergoing strabismus surgery. *Yonsei Medical Journal* 2014; 55: 508-16.
  22. Kim EM, Kim MS, Koo BN, Lee JR, Lee YS, **Lee JH**. Clinical efficacy of the classic laryngeal mask airway in elderly patients: a comparison with young adult patients. *Korean J Anesthesiol* 2015; 68: 568-74.
  23. Kim MS, **Lee JH**, Han SW, Im YJ, Kang HJ, Lee JR. A randomized comparison of the i-gel with the self-pressurized air-Q intubating laryngeal airway in children. *Paediatr Anaesth* 2015; 25: 405-12.
  24. Kim EJ, Kim SY, **Lee JH**, Kim JM, Kim JS, Byun JI, Koo BN. Effect of isoflurane post-treatment on tPA-exaggerated brain injury in a rat ischemic stroke model. *Korean J Anesthesiol* 2015; 68: 281-6.
  25. Kim JM, Lee JE, Cheon SY, **Lee JH**, Kim SY, Kam EH, Koo BN. The Anti-inflammatory Effects of Agmatine on Transient Focal Cerebral Ischemia in Diabetic Rats. *J Neurosurg Anesthesiol* 2016; 28: 203-13.
  26. Cho JS, Kim EJ, **Lee JH**, Kim SY, Kim JM, Byun JI, Nam EJ, Koo BN. Betahistine reduces postoperative nausea and vomiting and dizziness after laparoscopic gynecological surgery. *Minerva Anesthesiol* 2016; 82: 649-56.
  27. Kim MH, Im YJ, Kil HK, Han SW, Joe YE, **Lee JH**. Impact of caudal block on postoperative complications in children undergoing tubularised incised plate urethroplasty for hypospadias repair: a retrospective cohort study. *Anaesthesia*. 2016; 71: 773-8.
  28. **Lee JH**, Kam EH, Kim JM, Kim SY, Kim EJ, Cheon SY, Koo BN. Intranasal Administration of Interleukin-1 Receptor Antagonist in a Transient Focal Cerebral Ischemia Rat Model. *Biomol Ther (Seoul)*. 2017; 25: 149-157.
  29. Kim EJ, Soh S, Kim SY, Kil HK, **Lee JH**, Kim JM, Kim TW, Koo BN. Impact of Diabetes Mellitus on Radial and Ulnar Arterial Vasoreactivity after Radial Artery Cannulation: A Randomized

Controlled trial. *Int J Med Sci.* 2016; 13: 701-7.

30. Choi KW, Nam KH, Lee JR, Chung WY, Kang SW, Joe YE, **Lee JH**. The Effects of Intravenous Lidocaine Infusions on the Quality of Recovery and Chronic Pain After Robotic Thyroidectomy: A Randomized, Double-Blinded, Controlled Study. *World J Surg.* 2017; 41: 1305-1312.

31. Kim MH, Kim MS, **Lee JH**, Seo JH, Lee JR. Can quality of recovery be enhanced by premedication with midazolam?: A prospective, randomized, double-blind study in females undergoing breast surgery. *Medicine (Baltimore).* 2017; 96: e6107.

32. Kim SY, Cheon SY, Kim EJ, **Lee JH**, Kam EH, Kim JM, Park M, Koo BN. Isoflurane Postconditioning Inhibits tPA-Induced Matrix Metalloproteinases Activation After Hypoxic Injury via Low-Density Lipoprotein Receptor-Related Protein and Extracellular Signal-Regulated Kinase Pathway. *Neurochem Res.* 2017; 42: 1533-1542.

33. Lee HJ, Choi YS, Koo BN, Han SW, Cho YE, Im YJ, **Lee JH**. Influence of caudal block on postoperative oliguria in infants undergoing bilateral ureteroneocystostomy: a retrospective analysis. *Paediatr Anaesth.* 2017; 27: 695-701.

34. Lee B, Koo BN, Choi YS, Kil HK, Kim MS, **Lee JH**. Effect of caudal block using different volumes of local anaesthetic on optic nerve sheath diameter in children: a prospective, randomized trial. *Br J Anaesth.* 2017; 118: 781-787.

35. Cheon SY, Kim SY, Kam EH, **Lee JH**, Kim JM, Kim EJ, Kim TW, Koo BN. Isoflurane preconditioning inhibits the effects of tissue-type plasminogen activator on brain endothelial cell in an in vitro model of ischemic stroke. *Int J Med Sci.* 2017; 14: 425-433.

36. Kim MH, **Lee JH**, Choi YS, Park S, Shin S. Comparison of the laryngeal mask airway supreme and the i-gel in paralysed elderly patients: A randomised controlled trial. *Eur J Anaesthesiol.* 2018; 35: 598-604.

37. **Lee JH**, Kam EH, Kim SY, Cheon SY, Kim EJ, Chung S, Jeong JH, Koo BN. Erythropoietin Attenuates Postoperative Cognitive Dysfunction by Shifting Macrophage Activation toward the M2 Phenotype. *Front Pharmacol.* 2017; 8: 839.

38. Kim MH, Kim MS, **Lee JH**, Kim ST, Lee JR. Intravenously Administered Lidocaine and Magnesium During Thyroid Surgery in Female Patients for Better Quality of Recovery After Anesthesia. *Anesth Analg.* 2018; 127: 635-641.

39. Kim DH, Kim N, **Lee JH**, Jo M, Choi YS. Efficacy of preemptive analgesia on acute postoperative pain in children undergoing major orthopedic surgery of the lower extremities. *J Pain Res.* 2018; 11: 2061-2070.

40. Lee B, **Lee JH**, Kim MS, Kim SJ, Song J, Kim DH, Choi YS. Epidural bolus versus continuous epidural infusion analgesia on optic nerve sheath diameter in paediatric patients: A prospective, double-blind, randomised trial. *Sci Rep.* 2020; 10: 5477.

41. **Lee JH**, Liu A, Park JH, Kato H, Hao Q, Zhang X, Zhou L, Lee JW. Therapeutic Effects of Hyaluronic Acid in Peritonitis-Induced Sepsis in Mice. *Shock.* 2020; 54: 488-497

42. Lee JR, **Lee JH**, Lee HM, Kim N, Kim MH. Independent risk factors for adverse events associated with propofol-based pediatric sedation performed by anesthesiologists in the radiology suite: a prospective observational study. *Eur J Pediatr.* 2021; 180: 1413-1422.

43. Park S, **Lee JH**, Kim HJ, Choi H, Lee JR. Optimal positive end-expiratory pressure to prevent anaesthesia-induced atelectasis in infants: A prospective, randomised, double-blind trial. *Eur J Anaesthesiol.* 2021; 38: 1019-1025.

## Review Articles

1. Park JH, Lee JS, **Lee JH**, Shin S, Min NH, Kim MS. Effect of the Prolonged Inspiratory to

Expiratory Ratio on Oxygenation and Respiratory Mechanics During Surgical Procedures. *Medicine (Baltimore)*. 2016; 95: e3269.

2. **Lee JH**, Park J, Lee JW. Therapeutic use of mesenchymal stem cell-derived extracellular vesicles in acute lung injury. *Transfusion*. 2019;59(S1):876-883.