

## Curriculum Vitae



**First name:** Seong-Hyop

**Family name:** Kim

**Birth:** 13.05.1975 in Korea

### **Academic background:**

03.1993 - 02.1999, College of Medicine, Konkuk University, Seoul, Korea (Bachelor of Medicine)

09.2000 - 08.2002, College of Medicine, Konkuk University, Seoul, Korea (Master of Medicine)

09.2002 - 08.2006, College of Medicine, Konkuk University, Seoul, Korea (Doctor of Medicine)

### **Occupational background:**

03.1999 - 02.2000, Konkuk University Medical Center, 4-12, Hwayang-dong, Gwangjin-gu, Seoul,  
Korea (Internship)

03.2000 - 02.2004, Konkuk University Medical Center, 4-12, Hwayang-dong, Gwangjin-gu, Seoul,

Korea (Department of Anesthesiology and Pain medicine → Residency)

04.2004 - 04.2007, Cheongdo Daenam Hospital, 100-1, Beomgok-ri, Hwayang-eup, Cheongdo-gun,

Gyeongsangbuk-do, Korea (Department of Anesthesiology and Pain medicine → Director)

05.2007 - 10.2007, Seoul National University Hospital, 28, Yeongeon-dong, Jongno-gu, Seoul, Korea

(Division of Cardiovascular and Thoracic Anesthesia, Department of Anesthesiology and Pain

medicine → Clinical instructor)

11.2007 - 10.2008, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12,

Hwayang-dong, Gwangjin-gu, Seoul, Korea (Division of Cardiovascular and Thoracic Anesthesia,

Department of Anesthesiology and Pain medicine → Clinical instructor)

11.2008 - 02.2009, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12,

Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine →

Clinical instructor)

03.2009 - 02.2010, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12,

Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine →

Clinical assistant professor)

03.2010 - 02.2013, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12,

Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine →

Assistant professor)

08.2011 - 08.2017, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12, Hwayang-dong, Gwangjin-gu, Seoul, Korea (Institutional Review Board for Human Research → board member)

03.2013 - 02.2019, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12, Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine → Associate professor)

03.2015 - present, Konkuk University, 120 Neungdong-ro, Gwangjin-gu, Seoul 05029, Korea (Faculty association of Konkuk University → board member)

09.2016 - 07.2017, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12, Hwayang-dong, Gwangjin-gu, Seoul, Korea (deputy of chief information officer)

09.2017 - 08.2018, Duke University Medical Center, 2301 Erwin road, Durham, North Carolina, 27710, United States of America (Duke Center for Hyperbaric Medicine and Environmental Physiology → visiting scholar)

03.2019 - present, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12, Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine → Professor)

08.2019 - present, Konkuk University Medical Center, Konkuk University School of Medicine, 4-12, Hwayang-dong, Gwangjin-gu, Seoul, Korea (Department of Anesthesiology and Pain medicine →

Chief)

02.2021 - present, Konkuk University School of Medicine, 120-1, Neungdong-ro, Gwangjin-gu, Seoul,

Korea (deputy of vice dean for education)

**Institutional related information:**

**Position:** Professor

**Institution:** Konkuk University School of Medicine, Seoul, Korea (**homepage:**

<http://medicine.kku.ac.kr>)

**Department:** Department of Anesthesiology and Pain medicine (**homepage:**

<http://www.kuh.ac.kr/depthome/anes>)

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**Qualification**

Medical doctor by Korean Medical Association: 1999 (Number 66415)

Anesthesiology and Pain medicine specialist by Korean Society of Anesthesiologists: 2004 (Number

2596)

Geriatric Specialist by Korean Geriatric Society: 2005 (Number 05-061)

Subspecialist by Korean Society of Critical Care Medicine (Number 1200)

## **Society**

### **Korea**

Korean Medical Association

Korean Society of Anesthesiologists

(2007 ~ present, reviewer of Korean Journal of Anesthesiology)

(2007 ~ present, reviewer of Anesthesia and Pain Medicine)

(2012 ~ present, member of committee for standardization development)

(2012 ~ 2014, member of committee for medicolegal affairs)

(2012 ~ 2014, board member, executive secretary)

(2018 ~ present, member of committee for public relation)

(2019 ~ 2020, member of committee of patient safety)

(2019 ~ present, board of trustee)

(2020 ~ present, member of committee of publication = editor of Korean Journal of Anesthesiology)

(2020 ~ present, member of committee of publication = section editor of Korean Journal of

Anesthesiology)

(2023 ~ present, secretary general)

Korean Society of Cardiothoracic and Vascular Anesthesiologists

(2014 ~ 2020, board member, director of public relation)

(2020 ~ present, board member, director of international cooperation)

Korean Society for Anesthetic Pharmacology

(2012 ~ 2013, member of committee for planning)

(2013 ~ 2014, member of committee for academic affairs)

(2014 ~ 2017, auditor)

(2019 ~ present, member of committee for academic affairs)

(2019 ~ present, board member, director without portfolio)

(2022 ~ present, director of strategy and planning)

Korean Society of Critical Care Medicine

## **Social**

ISO/TC121 member (Korean Agency for technology and standards, 2012 ~ present)

Medical device clinical expert member (Ministry of food and drug safety, 2012 ~ present)

## **Areas of Interest or Expertise:**

Adult cardiovascular and thoracic surgery

Clinical pharmacology

Postoperative nausea and vomiting

Anesthesia & immune system

**Patent:**

1. Patent number in Korean Intellectual Property Office: 10-2105768

**Paper:**

1. Involvement of protein kinase C isoforms and Rho GTPase in contractile response of swine pulmonary artery. Korean J Anesthesiol 2001; 040: 229-37. (Co-author)
2. Evaluation of the therapeutic effects in pain management using infrared thermal imaging. Korean J Pain 2001; 014: 164-70. (Co-author)
3. Intramuscular stimulation in chronic pain patients. Korean J Pain 2002; 015: 139-45. (Co-author)
4. Correlation between pain scale and infrared thermography in unilateral pain patients after nerve block. Korean J Anesthesiol 2003; 044: 659-66. (Co-author)
5. The effects of the induction of anesthesia and tracheal intubation with sevoflurane on blood pressure, heart rate and BIS value in adults. Korean J Anesthesiol 2003; 044: 799-804. (Co-

- author)
6. Ketamine blocks voltage-gated K<sup>+</sup> channels and causes membrane depolarization in rat mesenteric artery myocytes. *Pflugers Arch* 2007; 454: 891-902. (First author)
  7. Association of tissue factor polymorphism with fibrinolysis and excessive bleeding after open heart surgery. *Korean J Anesthesiol* 2007; 053: 720-6. (Co-author)
  8. Left ventricular rupture immediately after mitral valve replacement. *Korean J Anesthesiol* 2008; 054: 363-5. (First author)
  9. Folding of right atrium misdiagnosed as a thrombus after mitral valve repair surgery -A case report- *Korean J Anesthesiol* 2008; 054: 566-8. (First author)
  10. Three-dimesional transesophageal echocardiography for mitral valve repair surgery -A case report- *Korean J Anesthesiol* 2008; 054: 685-8. (First author)
  11. Anesthesia for noncardiac surgery in a neonate with interrupted aortic arch -A case report- *Korean J Anesthesiol* 2008; 055: 358-62. (Co-author)
  12. Early detection of ruptured bulla by capnography during off pump coronary artery bypass grafting surgery -A case report- *Korean J Anesthesiol* 2009; 056: 83-6. (First author)
  13. Diagnostic predictor of difficult laryngoscopy: the hyomental Distance ratio. *Anesth Analg* 2009; 108: 544-8. (Co-author)
  14. Anesthetic managements for repair of atrial septal defect in a patient with Young-Simpson



- syndrome -A case report- Korean J Anesthesiol 2009; 056: 225-9. (First author)
15. Cerebral oxygen saturation for off-pump coronary bypass graft surgery with moyamoya disease -  
A case report- Korean J Anesthesiol 2009; 056: 433-7. (First author)
  16. Desflurane requirements for laryngeal mask airway insertion during inhalation induction. J  
Anesth 2009; 23: 209-14. (Co-author)
  17. Cardiac arrest that developed during anesthetic induction in a patient with abdominal gas  
gangrene -A case report- Korean J Anesthesiol 2009; 057; 127-31. (Co-author)
  18. The vasodilatory effect of ketamine is independent the N-methyl-D-aspartate receptor: lack of  
functional N-methyl-D-aspartate receptors in rat mesenteric artery smooth muscle. Eur J  
Anaesthesiol 2009; 26: 676-82. (Co-author)
  19. Anesthetic managements for correction of aortic valve regurgitation in a patient with Loeys-  
Dietz syndrome -A case report- Korean J Anesthesiol 2009; 057; 371-5. (First author)
  20. Placing a saline bag underneath the displaced heart enhances transgastric transesophageal  
echocardiographic imaging during off-pump coronary artery bypass surgery. Anesth Analg 2009;  
109: 1038-40. (First Author)
  21. An evaluation of perioperative pregabalin for prevention and attenuation of postoperative  
shoulder pain after laparoscopic cholecystectomy. Anesth Analg 2009; 109: 1284-6. (Co-author)
  22. Haemodynamic effects during endoscopic vein harvest of the saphenous vein for off-pump

- coronary artery bypass grafting surgery. *Eur J Anaesthesiol* 2009; 26: 969-73. (First author)
23. Cerebral oximetry monitoring during aortic arch aneurysm replacement surgery in Jehovah's witness patient -A case report- *Korean J Anesthesiol* 2010; 058; 191-6. (First author)
24. Entrapment of a pulmonary artery catheter by invagination of a percutaneous introducer sheath. *Anaesth Intensive Care* 2010; 38: 393. (First & Corresponding author)
25. Abdominal compartment syndrome occurring due to uterine perforation during a hysteroscopy procedure. *J Anesth* 2010; 24: 280-3. (Co-author)
26. Combined general-epidural anesthesia for cesarean section in acute fatty liver of pregnancy under monitoring bispectral index -A case report- *Anesth Pain Med* 2010; 05: 155-8. (First author)
27. Pneumothorax during laparoscopic totally extraperitoneal inguinal hernia repair -A case report- *Korean J Anesthesiol* 2010; 058; 490-4. (Co-author)
28. Abrupt formation and spontaneous resolution of a right atrial thrombus detected by intraoperative transesophageal echocardiography during replacement of an abdominal aortic aneurysm. *J Anesth* 2010; 24: 456-9. (Corresponding author)
29. Continuous nimodipine infusion during mitral valvuloplasty for infective endocarditis after mycotic aneurysmal clipping -A case report- *Anesth Pain Med* 2010; 05: 231-5. (Corresponding author)

30. The effect of mechanical ventilation tidal volume during pneumoperitoneum on shoulder pain after a laparoscopic appendectomy. *Surg Endosc* 2010; 24: 2002-7. (Co-author)
31. Paradoxical carbon dioxide embolism during endoscopic thyroidectomy confirmed by transesophageal echocardiography. *J Anesth* 2010; 24: 774-7. (First author)
32. Deep hypothermic circulatory arrest for thoracoabdominal aortic aneurysm repair in a patient with a large intracranial anterior communicating artery aneurysm. *J Clin Anesth* 2010; 22: 546-8. (First author)
33. Anthropometric Estimation of Femoral Venous Cannula Length for Cardiovascular Surgery. *J Card Surg* 2011; 26: 16-21. (Corresponding author)
34. In vitro effects of ulinastatin on blood coagulation using thromboelastography. *Minerva Med* 2011; 102: 109-14. (Corresponding author)
35. Myocardial injury in remifentanyl-based anaesthesia for off-pump coronary artery bypass surgery: an equipotent dose of sevoflurane versus propofol -A randomised controlled trial-. *Anaesth Intensive Care* 2011; 39: 418-25. (Corresponding author)
36. The effect of ulinastatin on postoperative blood loss in patients undergoing open heart surgery with cardiopulmonary bypass. *J Int Med Res* 2011; 39: 1201-10. (Corresponding author)
37. Does near-infrared spectroscopy provide an early warning of low haematocrit following the initiation of hypothermic cardiopulmonary bypass in cardiac surgery? *J Int Med Res* 2011; 39:

- 1497-1503. (Corresponding author)
38. The effects of magnesium on the course of atrial fibrillation and coagulation in patients with atrial fibrillation undergoing mitral valve annuloplasty. *Korean J Anesthesiol* 2011; 061; 210-5.  
(Corresponding author)
39. Comparison of the PaO<sub>2</sub>/FiO<sub>2</sub> ratio in sternotomy vs. thoracotomy in mitral valve repair: a randomised controlled trial. *Eur J Anaesthesiol* 2011; 28: 807-12. (Corresponding author)
40. Intraoperative transesophageal echocardiographic imaging of double valve repair for aortic and mitral stenosis. *Echocardiography* 2012; 29: 187-91. (Co-author)
41. The effect of dexmedetomidine on the adjuvant propofol requirement and intraoperative hemodynamics during remifentanyl-based anesthesia. *Korean J Anesthesiol* 2012; 62: 113-8.  
(Co-author)
42. Abrupt formation of intracardiac thrombus during cardiopulmonary bypass with full heparinization -A case report- *Korean J Anesthesiol* 2012; 62: 175-8. (First author)
43. Assessment of coagulation with 6% hydroxyethyl starch 130/0.4 in cesarean section. *Korean J Anesthesiol* 2012; 62: 337-42. (Co-author)
44. Long thoracic nerve block in video-assisted thoracoscopic wedge resection for pneumothorax. *Anaesth Intensive Care* 2012; 40: 773-9. (Corresponding author)
45. Noninvasive cardiac output monitoring in paediatric cardiac surgery: correlation between change

in thoracic fluid content and change in patient body weight. *J Int Med Res* 2012; 40: 2295-304.

(Co-author)

46. Bedside approach to optimizing the positioning of intra-aortic balloon pumps. *Br J Anaesth*

2013; 110: 316-7. (First author)

47. Determination of mitral valve area with echocardiography, using intra-operative 3-dimensional versus intra- & post-operative pressure half-time technique in mitral valve repair surgery. *J*

*Cardiothorac Surg* 2013; 8: 98. (Corresponding author)

48. Effect of ulinastatin on perioperative organ function and systemic inflammatory reaction during cardiac surgery: a randomized double-blinded study. *Korean J Anesthesiol* 2013; 64: 334-40.

(Co-author)

49. Effects of ulinastatin on postoperative blood loss and hemostasis in atrioventricular valve

surgery with cardiopulmonary bypass. *Korean J Thorac Cardiovasc Surg* 2013; 46: 185-91. (Co-author)

50. Anesthesia under cardiopulmonary bypass for video assisted thoracoscopic wedge resection in patient with spontaneous pneumothorax and contralateral post-tuberculosis destroyed lung -A

case report- *Korean J Anesthesiol* 2013; 65: 174-76. (Corresponding author)

51. Clinical effects of intrathecal fentanyl on shoulder tip pain in laparoscopic total extra-peritoneal inguinal hernia repair under spinal anaesthesia. *J Int Med Res* 2013; 41: 1160-70.

(Corresponding author)

52. Usefulness of intraoperative real-time three-dimensional transesophageal echocardiography for pre-procedural evaluation of cotriatrium -A case report- Korean J Anesthesiol 2013; 65: 565-8.

(Co-author)

53. Large left atrial myxoma causing mitral annular dilation, functional mitral stenosis with concealed atrial septal defects. Korean J Anesthesiol 2013; 65: S67-9. (Corresponding author)

54. Usefulness of intraoperative real-time three-dimensional transesophageal echocardiography for pre-procedural evaluation of mitral valve cleft -a case report- Korean J Anesthesiol 2014; 66: 75-

9. (Co-author)

55. Placing a saline bag underneath the heart enhances transgastric transesophageal echocardiographic imaging during cardiac displacement for off-pump coronary artery bypass surgery. J Cardiothor Vasc An 2014; 28: 42-8. (Co-author)

56. Postoperative pharyngolaryngeal adverse events with laryngeal mask airway (LMA Supreme™) in laparoscopic surgical procedures with cuff pressure limiting 25 cmH<sub>2</sub>O -prospective, blind and randomised study- Sci World J 2014, article ID 709801. (Corresponding author)

57. Imaging of coronary artery fistulae by using intraoperative three-dimensional transesophageal echocardiography. Anesth Analg 2014; 118: 721-4. (Co-author)

58. Intraoperative blood salvage without simultaneous fluids replacement could be substituted for

- acute normovolemic haemodilution in off-pump coronary artery bypass grafting surgery. *Exp Clin Cardiol* 2014; 20: 896-903. (Corresponding author)
59. The effect of sufentanil administration on remifentanil-based anaesthesia during laparoscopic gynaecological surgery: A double-blind randomised controlled trial. *Sci World J* 2014, article ID 701329. (Corresponding author)
60. Total intravenous anaesthesia with high-dose remifentanil does not aggravate post-operative nausea and vomiting & pain, compared with low-dose remifentanil (double-blind and randomized trial). *Sci World J* 2014, article ID 724753. (First & Corresponding author)
61. Comparison of pulmonary gas exchange function according to intra-operative ventilation modes for mitral valve repair surgery under thoracotomy with one-lung ventilation. *J Cardiothor Vasc An* 2014; 28: 920-5. (Corresponding author)
62. The influence of positive end-expiratory pressure on stroke volume variation in cardiac surgery patients: an observational study. *J Thorac Cardiovasc Surg* 2014; 148: 3139-45. (Corresponding author)
63. Analysis of anesthesia-related medical disputes in the 2009-2014 period using the Korean society of anesthesiologists database. *J Korean Med Sci* 2015; 30: 207-13.
64. Warfarin therapy and perioperative transfusion requirement with bleeding amount in patients undergoing cardiac surgery with cardiopulmonary bypass: A retrospective study. *Transfusion*

- Med 2015; 25: 33-7. (Corresponding author)
65. Effects of  $\mu$ -opioid receptor gene polymorphism on postoperative nausea and vomiting in patients undergoing general anesthesia with remifentanyl - double blinded randomized trial -. J Korean Med Sci 2015; 30: 651-7. (Corresponding author)
66. Efficacy of palonosetron and ramosetron on postoperative nausea and vomiting related to intravenous patient-controlled analgesia with opioids, after gynecological laparoscopic surgery (double-blinded prospective randomised controlled trial). J Anesth 2015; 29: 585-92. (Corresponding author)
67. Effect of nefopam- versus fentanyl-based patient-controlled analgesia on postoperative nausea and vomiting in patients undergoing gynaecological laparoscopic surgery: A prospective double-blind randomised controlled trial. Curr Med Res Opin 2015; 31: 1599-1607. (Corresponding author)
68. Postoperative delirium in elderly patients undergoing hip fracture surgery in the sugammadex era: A retrospective study. Biomed Res Int 2016, article ID 1054597. (Corresponding author)
69. Impact of effect-site concentration of propofol on cardiac systolic function assessed by tissue Doppler imaging. J Int Med Res 2016; 44: 453-61. (Corresponding author)
70. The effect of mechanical ventilation mode type on intra- & post-operative blood loss in patients undergoing posterior lumbar interbody fusion surgery -A randomized controlled trial-



- Anesthesiology 2016; 125: 115-23. (Corresponding author)
71. Mu-opioid receptor polymorphisms and breast cancer in a Korean female adult population: A retrospective study. J Breast Cancer 2016; 19: 206-9. (Corresponding author)
72. Three-Dimensional transesophageal echocardiography for determination of mitral valve area after mitral valve repair surgery for mitral stenosis. J Cardiovasc Surg 2016; 57: 606-14. (Co-author)
73. Assessment of thrombosis in right internal jugular vein after percutaneous superior vena cava catheter insertion in cardiovascular surgery with cardiopulmonary bypass. J Thorac Cardiovasc Surg 2016; 152: 1592-99. (Corresponding author)
74. Diagnosis accuracy of mean arterial pressure variation during a lung recruitment maneuver to predict fluid responsiveness in thoracic surgery with one-lung ventilation. Biomed Res Int 2016, article ID 3623710. (Corresponding author)
75. In reply. Anesthesiology 2017; 126: 196. (Corresponding author)
76. Impact of remote ischaemic preconditioning on cerebral oxygenation during total knee arthroplasty. Int J Med Sci 2017; 14: 115-22. (Co-author)
77. Intraoperative management of critical arrhythmia. Korean J Anesthesiol 2017; 70: 120-6. (Corresponding author)
78. Impact of circulating T helper 1 and 17 cells in the blood on regional lymph node invasion in

- colorectal cancer. *J Cancer* 2017; 8: 1249-54. (Corresponding author)
79. Effects of glycyrrhizin on the differentiation of myeloid cells of the heart and lungs in lipopolysaccharide-induced septic mice. *Shock* 2017; 48: 371-6. (Corresponding author)
80. Comparison of the analgesic properties of sevoflurane and desflurane using surgical pleth index at equi-minimum alveolar concentration. *Int J Med Sci* 2017; 14: 994-1001. (Corresponding author)
81. Postoperative delirium in patients undergoing off-pump coronary artery bypass grafting according to the anesthetic agent: a retrospective study. *J Cardiothor Vasc An* 2017; 31: 1988-95. (Corresponding author)
82. The effect of propofol and sevoflurane on cancer cell, natural killer cell, and cytotoxic T lymphocyte function in patients undergoing breast cancer surgery: An in vitro analysis. *BMC Cancer* 2018; 18: 159. (Corresponding author)
83. Receptor for activated C kinase 1 in rats with ischemia-reperfusion injury: intravenous versus inhalation anaesthetic agents. *Int J Med Sci* 2018; 15: 352-8. (Corresponding author).
84. The effects of crystalloid versus synthetic colloid in vitro on immune cells, co-cultured with mouse splenocytes. *Sci Rep* 2018; 8: 4794. (Corresponding author)
85. The correlation between the change in thoracic fluid content and the change in patient body weight in Fontan procedure. *Biomed Res Int* 2018, article ID 3635708. (Co-author)

86. Association of chemokines and chemokine receptor expression with monocytic-myeloid-derived suppressor cells during tumor progression. *Immune Netw.* 2018; 1: e23. (Co-author)
87. Comparison of the expression of cluster of differentiation (CD)39 and CD73 between propofol- and sevoflurane-based anaesthesia during open heart surgery. *Sci Rep* 2018; 8: 10197.  
(Corresponding author)
88. Reply to Grocott HP: “Anesthetic agents and postoperative delirium after off-pump coronary bypass graft surgery: an insufficiently complex approach to a complex problem” *J Cardiothor Vasc An* 2018; 32: e88. (Corresponding author)
89. Preoperative FIBTEM predicts postoperative haemorrhage in total knee arthroplasty. *J Knee Surg* 2018; 31: 889-94. (First author)
90. The effect of equipotent doses of propofol versus sevoflurane anesthesia on regulatory T cells after breast cancer surgery. *Anesthesiology* 2018; 129: 921-31. (Corresponding author)
91. Impact of general anaesthesia on endoplasmic reticulum stress: propofol vs. isoflurane. *Int J Med Sci* 2019; 16: 1287-94. (Corresponding author)
92. Deep neuromuscular blockade during spine surgery reduces intraoperative blood loss: A randomized clinical trial. *Eur J Anaesthesiol* 2020; 37: 187-95. (Corresponding author)
93. The effect of repetitive exposure to intravenous anesthetic agents on the immunity in mice. *Int J Med Sci* 2020; 17: 428-36. (Corresponding author)

94. Effects of remote ischemic preconditioning on regional cerebral oxygen saturation in patients in the beach chair position during shoulder surgery: A double-blind randomized controlled trial. *J Clin Anesth* 2020; 61: 109661. (Corresponding author)
95. Immune response in fluid therapy with crystalloids of different ratios or colloid for rats in haemorrhagic shock. *Sci Rep* 2020; 10: 8067. (Corresponding author)
96. Assessment of the effects of sugammadex on coagulation profiles using thromboelastographic parameters. *Sci Rep* 2020; 10: 11179. (Corresponding author)
97. Reply to: Deep neuromuscular blockade during spine surgery reduces intraoperative blood loss: A randomized clinical trial. *Eur J Anaesthesiol* 2020; 37: 820-1. (Corresponding author)
98. Mu-opioid receptor polymorphisms and breast cancer recurrence in adult Korean women undergoing breast cancer surgery: a retrospective study. *Int J Med Sci* 2020; 17: 2941-6. (Corresponding author)
99. Impact of anesthetic agents on endothelial glycocalyx injury during total knee arthroplasty: desflurane- vs. propofol-based anesthesia: a prospective randomized controlled trial. *Biomed Res Int* 2021, article ID 8880267. (Corresponding author)
100. The effects of endoplasmic reticulum stress on the expression of exosomes in ventilator-induced lung injury. *Ann Palliat Med* 2021; 10: 1050-8. (Corresponding author)
101. Effect of deep neuromuscular blockade on serum cytokines and postoperative delirium in elderly

- patients undergoing total hip replacement: A prospective single-blind randomised controlled trial.  
Eur J Anaesthesiol 2021; 38: S58-66. (Corresponding author)
102. Determinants for the duration of a single-shot interscalene brachial plexus block: concentration vs. volume of local anesthetics. Korean J Anesthesiol 2021; 74: 189-90. (First & Corresponding author)
103. The effect of the phenotype of tumour-associated macrophages, regulated by cluster differentiation (CD)39, on colon cancer in mice. Int J Mol Sci 2021; 22: 7478. (Corresponding author)
104. Expression profiles of immune cells after propofol or sevoflurane anesthesia for colorectal cancer surgery: a prospective double-blind randomized trial. Anesthesiology 2022; 136: 448-58.  
(Corresponding author)
105. Reply to: Effect of deep neuromuscular blockade on serum cytokines and postoperative delirium in elderly patients undergoing total hip replacement. Eur J Anaesthesiol 2022; 39: 483.  
(Corresponding author)
106. Perioperative and anesthetic management for the patient with rheumatoid arthritis. Korean J Intern Med 2022; 37: 732-9. (Corresponding author)
107. Remimazolam – current knowledge on a new benzodiazepine intravenous anesthetic agent.  
Korean J Anesthesiol 2022; 75: 307-15. (First author)

108. Effects of general anaesthesia with an inhalational anaesthetic agent on the expression of exosomes in rats. *Int J Med Sci* 2022; 19: 1399-1407. (Corresponding author)
109. Effects of compression of the ulnar artery on the radial artery catheterization. *J Clin Med* 2022; 11: 5476. (Corresponding author) (Corresponding author)
110. General anesthesia, using remimazolam, for the patient with myelin oligodendrocyte glycoprotein antibody associated disease (MOGAD) -case report- *Medicine* 2022; 101: 46. (Corresponding author)
111. The effect of equipotent dose of propofol and sevoflurane on endoplasmic reticulum stress during breast cancer surgery. *Korean J Anesthesiol* 2022; 75: 487-95. (Corresponding author)
112. The neutrophil-to-lymphocyte ratio and preoperative pulmonary function test results as predictors of in-hospital postoperative complications after hip fracture surgery in older adults. *J Clin Med* 2023; 12: 108. (Corresponding author)
113. Comparison of thromboelastographic profiles in pediatric patients with congenital heart disease according to existence of cyanosis. *J Anesth* 2023; 37: 32-8. (Corresponding author)
114. Prediction of postoperative pulmonary complications in older patients undergoing lobectomy for lung cancer based on skeletal muscle mass. *J Thorac Dis* 2023 (in press) (Corresponding author)