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**Education**

MD (1997.02): College of Medicine, Chung-Ang University

PhD (2011.08): Chung-Ang University

**Training and work experience**

Resident, Orthopedic Surgery – Chung-Ang University Hospital (2005.02-2009.02)

Fellow, Orthopedic Surgery, Spine – Seoul National University Hospital (2009.03-2010.02)

Clinical assistant professor – Chung-Ang University Hospital (2010.03-2012.02)

Associate professor, Orthopedic Surgery, Spine – Dongguk University Ilsan Hospital

**Academic activities**

Active member, Korean Orthopedic Association and Korean Society of Spine Surgery

Vice secretary, Member of Scientific committee and insurance committee, Korean Society of Spine Surgery

Editor, Journal of Korean Society of Spine Surgery

Active member, Korean Society for the Advancement of Spine Surgery (KOSASS)

AO Spine faculty

Asia Pacific Spine Society (APSS) member

**Publication**

1. Anterior decompression and fusion for the treatment of cervical myelopathy caused by ossification of the posterior longitudinal ligament: A narrative review. *Asian Spine J.* 2023 Jan 17. doi:10.31616/asj.2022.0003. Online ahead of print.
2. Which radiographic parameter can aid in deciding optimal allograft height for anterior cervical discectomy and fusion? *Clin Spine Surg.* 2023;36:75-82.
3. Mid-term efficacy and safety of Escherichia coli-derived rhBMP-2/hydroxyapatite carrier in lumbar posterolateral fusion: a randomized, multicenter study. *Eur Spine J.* 2023;32:353-360.
4. Foraminal restenosis after posterior cervical foraminotomy for the treatment of cervical radiculopathy. *Global Spine J.* 2022 Mar 24:21925682221083268. doi: 10.1177/21925682221083268. Online ahead of print.
5. Morphologic change of corticocancellous allograft used for anterior cervical discectomy and fusion. *Spine.*

- 2022;47:944-953.
6. Assessment of fusion after anterior cervical discectomy and fusion using convolutional neural network algorithm. *Spine*. 2022;47:1645-1650.
  7. The Kappa line as a regional modification of the K-line: A predictor of neurological outcome and indicator of the adequate level of decompression in selective laminoplasty. *Clin Spine Surg*. 2022;35:E7-E12.
  8. Anatomical considerations for appropriate mini-plate positioning in open-door laminoplasty to avoid plate impingement and screw facet violation. *Sci Rep*. 2022;12:5560.
  9. Factors affecting the prognosis of recovery of motor power and ambulatory function after surgery for metastatic epidural spinal cord compression. *Neurosurg*. 2022;53:E11.
  10. Efficacy and safety of oblique posterior endplate resection for wider decompression (trumpet-shaped decompression) during anterior cervical discectomy and fusion. *J Neurosurg Spine*. 2022;38:157-164.
  11. Significance of Vertebral Body Sliding Osteotomy as a Surgical Strategy for the Treatment of Cervical Ossification of the Posterior Longitudinal Ligament. *Global spine J*. 2022;12:1074-1083.
  12. Fusion and subsidence rates of vertebral body sliding osteotomy: Comparison of 3 reconstructive techniques for multilevel cervical myelopathy. *Spine J*. 2021;21:1089-1098.
  13. Comparison between selective caudal fixed screw construct and all variable screw construct in anterior cervical discectomy and fusion. *Sci Rep*. 2021;11:10573.
  14. Segmental height decrease adversely affects foraminal height and cervical lordosis, but not clinical outcome after anterior cervical discectomy and fusion using allografts. *World Neurosurg*. 2021;154:e555-e565.
  15. Fat quantification of multifidus muscle using T2-weighted Dixon: which measurement methods are best suited for revealing the relationship between fat infiltration and herniated nucleus pulposus. *Skeletal Radiol*. 2020. 49: 263-271.
  16. Intradural Extramedullary Metastatic Conjunctival Malignant Melanoma. *World Neurosurg*. 2020;138:444-448.
  17. Temporary bridge occipocervical fixation for comminuted atlantoaxial fracture. *World Neurosurg*. 2020;139:330-336.
  18. Efficacy of postural reduction of vertebral compression fracture with extension lateral radiograph before vertebroplasty. *World Neurosurg*. 2020;143:e430-e441.
  19. Association between vertebral rotation pattern and curve morphology in adolescent idiopathic scoliosis. *World Neurosurg*. 2020;143:e243-e252.
  20. Fat quantification of multifidus muscle using T2-weighted Dixon: which measurement methods are best suited for revealing the relationship between fat infiltration and herniated nucleus pulposus. *Skeletal Radiol*. 2020;49(2):263-271.
  21. Feasibility of CaO-SiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub>-B<sub>2</sub>O<sub>3</sub> Bioactive Glass Ceramic Cage in Anterior Cervical Discectomy and Fusion. *World Neurosurg*. 2020;141:e358-e366.