

CURRICULUM VITAE



NAME: Dong-Hwa Heo, MD, PhD.

spinesurgery@naver.com

spineneurosurgeon@gmail.com

EDUCATION:

- 1998 M.D. Wonju college of Medicine, Yonsei University, Korea
- 2002 M.S. College of Medicine, Yonsei University, Korea
- 2005 A bachelor's degree, Dept of Media arts and sciences, Open University, Korea
- 2010 Ph.D. College of Medicine, Yonsei University, Korea

PROFESSIONAL ACTIVITIES:

- 1998-1999 Internship, Ewha medical center, Ewha university.
- 1999-2002 Resident, Department of Neurosurgery, Wonju Severance Hospital, Yonsei University
- 2002-2005 Army Surgeon, Department of Neurosurgery, Korean Military Manpower Administration office
- 2005-2006 Clinical Fellow, Dept. of Spine-neurosurgery, Gangnam severance hospital, Yonsei University
- 2006-2012 Assistant professor, Department of Neurosurgery, Spine center, Hallym University Medical Center
- 2012-2013 Assitant professor, Department of Neurosurgery, Spine center, CHA medical Center, CHA University.
- 2013-2019 Spine Center, Neurosurgery, The Leon Wiltse Memorial Hospital
- 2019-2020 Spine Center, Neurosurgery, Gangnam Nanoori Hospital. Seoul
- 2020~ Endoscopic spine surgery center, Spine Center, Seoul Bumin Hospital

FIELDS OF INTEREST:

Minimally invasive spine surgery
Biportal endoscopic surgery
Minimally invasive fusion surgery
Endoscopic fusion surgery

PUBLICATIONS [First author or Corresponding author only]

1. Neurospine 2022
Comparative Analysis With Modified Inclined Technique for Posterior Endoscopic Cervical Foraminotomy in Treating Cervical Osseous Foraminal Stenosis: Radiological and Midterm Clinical Outcomes
Kim JY, **Heo DH**, Lee DC, Kim TH, Park CK.
2. World Neurosurgery 2022
Surgical Removal of Cervical Extradural Cysts Using the Biportal Endoscopic Approach.
Kim JY, **Heo DH**, Lee DC, Park CK. Chung H.
3. Operative Neurosurgery, 2022
Clinical Experiences of 3-Dimensional Biportal Endoscopic Spine Surgery for Lumbar Degenerative Disease
Heo DH, JY Kim, JY Park, JS Kim, HS Kim, J Roh, CK Park, H Chung
4. International Journal of Spine Surgery 15 (suppl 3), 2021
Biportal Endoscopic Technique for Transforaminal Lumbar Interbody Fusion: Review of Current Research
MS Kang, **DH Heo**, HB Kim, HT Chung
5. Acta neurochirurgica 2021
Contralateral sublaminar approach for decompression of the combined lateral recess, foraminal, and extraforaminal lesions using biportal endoscopy: a technical report
JY Kim, **DH Heo**
6. Applied Sciences 11 (4), 2021
Advances in tissue engineering for disc repair
CK Lee, **DH Heo**, H Chung, EJ Roh, A Darai, JW Kyung, H Choi, SY Kwon
7. Acta Neurochirurgica 2021
Biportal endoscopic unilateral laminotomy with bilateral decompression for the treatment of cervical spondylotic myelopathy
J Kim, **DH Heo**, DC Lee, HT Chung

8. Acta Neurochir (Wien). 2021 Apr
Modified far lateral endoscopic transforaminal lumbar interbody fusion using a biportal endoscopic approach: technical report and preliminary results.
Heo DH, Eum JH, Jo JY, Chung H.
9. Global Spine J. 2020 Nov
Repair of Incidental Durotomy Using Sutureless Nonpenetrating Clips via Biportal Endoscopic Surgery.
Heo DH, Ha JS, Lee DC, Kim HS, Chung HJ
10. World Neurosurg. 2021 Jan
Clinical Results and Complications of Endoscopic Lumbar Interbody Fusion for Lumbar Degenerative Disease: A Meta-Analysis.
Heo DH, Lee DC, Kim HS, Park CK, Chung H.
11. Neurospine. 2020 Jul
Technique of Biportal Endoscopic Transforaminal Lumbar Interbody Fusion.
Heo DH, Hong YH, Lee DC, Chung HJ, Park CK.
12. Brain Sci. 2020 Jun
Fully Endoscopic Transforaminal Lumbar Discectomy for Upward Migration of Upper Lumbar Disc Herniation: Clinical and Radiological Outcomes and Technical Considerations.
Heo DH, Lee DK, Lee DC, Kim HS, Park CK.
13. World Neurosurgery 2020
Endoscopic unilateral laminotomy with bilateral discectomy using biportal endoscopic approach: technical report and preliminary clinical results
Heo DH, Lee N, Park CW, Kim HS, Chung HJ.
14. J clin Neurosci. 2019 Jun
Slippage reduction of lumbar spondylolisthesis using percutaneous pedicle screw with reduction fixation system after interbody fusion: A comparison with traditional open fusion and pedicle screw fixation.
Heo DH, Jang JW, Lee JK, Park CK.
15. Neurospine. 2019. Apr.
Comparative Finite Element Analysis of Lumbar Cortical Screws and Pedicle Screws in Transforaminal and Posterior Lumbar Interbody Fusion.
Sin DA, **Heo DH**.
16. Neurosurg Focus. 2019 May

- Comparative analysis of three types of minimally invasive decompressive surgery for lumbar central stenosis: biportal endoscopy, uniportal endoscopy, and microsurgery.
Heo DH, Lee DC, Park CK.
17. Neurospine. 2019 Mar
Endoscopic Treatment of Extraforaminal Entrapment of L5 Nerve Root (Far Out Syndrome) by Unilateral Biportal Endoscopic Approach: Technical Report and Preliminary Clinical Results.
Heo DH, Sharma S, Park CK.
 18. Neurosurg Focus. 2019 Apr
Clinical results of percutaneous biportal endoscopic lumbar interbody fusion with application of enhanced recovery after surgery.
Heo DH, Park CK.
 19. World Neurosurg. 2018 Nov
Contra-lateral sublaminar endoscopic approach for removal of lumbar juxtafacet cysts using percutaneous biportal endoscopic surgery: Technical report and preliminary results.
Heo DH, Kim JS, Park CW, Quillo-Olvera J, Park CK.
 20. J Neurol Surg A Cent Eur Neurosurg. 2019 Jan
Concomitant Occlusive Vascular Lesions of Legs in Patients with Degenerative Lumbar Diseases: Do These Lesions Influence Treatment?
Lee DC, **Heo DH**, Cho KS.
 21. World Neurosurg. 2018 Dec
Can Percutaneous Biportal Endoscopic Surgery Achieve Enough Canal Decompression for Degenerative Lumbar Stenosis? Prospective Case-Control Study.
Heo DH, Quillo-Olvera J, Park CK.
 22. Asian Spine J. 2018 Jun
Usefulness of Oblique Lumbar Magnetic Resonance Imaging for Nerve Root Anomalies and Extraforaminal Entrapment Lesions.
Heo DH, Kim SW, Chang HH, Park CK.
 23. Neurosurg Focus. 2017 Aug
Fully endoscopic lumbar interbody fusion using a percutaneous unilateral biportal endoscopic technique: technical note and preliminary clinical results.
Heo DH, Son SK, Eum JH, Park CK.
 24. Neurosurg Focus. 2017 Aug
Clinical and radiological outcomes of spinal endoscopic discectomy-assisted oblique lumbar interbody fusion: preliminary result
Heo DH, Kim JS.

25. Pain Physician. 2017 Feb
Percutaneous Sacroplasty for Non-neoplastic Osteoporotic Sacral Insufficiency Fractures.
Heo DH, Park CK.
26. Neurosurg Focus. 2017 Feb
Bone loss of vertebral bodies at the operative segment after cervical arthroplasty: a potential complication?
Heo DH, Lee DC, Oh JY, Park CK.
27. World Neurosurg. 2016 Dec
Minimally Invasive Oblique Lumbar Interbody Fusion with Spinal Endoscope Assistance: Technical Note.
Heo DH, Choi WS, Park CK, Kim JS.
28. Biomed Res Int. 2016
Percutaneous Pedicle Screw Fixation with Polymethylmethacrylate Augmentation for the Treatment of Thoracolumbar Intravertebral Pseudoarthrosis Associated with Kummell's Osteonecrosis.
Kim HS, **Heo DH**.
29. Journal of Neurosurgery, Spine 2016 E-pub
Percutaneous biportal endoscopic decompression for lumbar spinal stenosis: a technical note and preliminary clinical results.
Eum JH, **Heo DH**, Son SK, Park CK
30. European spine journal 2015 May
Whole cerebral axis infection after lumbar epidural injection. A case report.
Noh SH, **Heo DH**
31. Journal of Spinal disorder and technique. 2013. Nov
Do Postoperative Biomechanical Changes Induce Heterotopic Ossification After Cervical Arthroplasty? A 5-year Follow-Up Study.
Kim KS, **Heo DH**.
32. J Neurooncol. 2012 May
A histopathological diagnostic marker for human spinal astrocytoma: expression of glial fibrillary acidic protein- δ .
Heo DH, Kim SH, Yang KM, Cho YJ, Kim KN, Yoon DH, Kang TC.
33. Neuroscience letter 2012 Jan
The changes of ERG channel expression after administration of antiepileptic drugs in the hippocampus of epilepsy gerbil model.
Heo DH, Kang TC

34. Joint Bone Spine 2011
Lumbar epidural gas-containing pseudocysts as a cause of severe radicular pain.
Kuh SU, **Heo DH**, Kim KS, Cho YJ.
35. Joint Bone Spine 2011 Jan
Spontaneous migration of a polymethylmethacrylate mass after vertebroplasty in osteoporotic lumbar compression fracture with avascular osteonecrosis: a case report.
Cho SM, **Heo DH**, Cho YJ.
36. Spine 2011 Oct
Therapeutic Efficacy of Vertebroplasty in Osteoporotic Vertebral Compression Fractures with Avascular Osteonecrosis: A Minimum 2 Year Follow Up Study.
Heo DH, Choi JH, Kim MK, Choi HC, Jung JH, Chin DK, Cho YJ.
37. Journal of Spinal Disorder and Technique 2011 Oct
Adjacent Segment Degeneration After Lumbar Dynamic Stabilization Using Pedicle Screws and a Nitinol Spring Rod System With 2-year Minimum Follow-up.
Heo DH, Cho YJ, Cho SM, Choi HC, Kang SH.
38. Am Journal of Neuroradiology 2010 Oct
3D reconstructions of spinal segmental arteries using CT angiography: applications in minimally invasive spinal procedures.
Heo DH, Cho YJ, Sheen SH, Hong MS, Cho SM, Park SH.
39. Journal of Neurology
Magnetic resonance neurography findings in herpetic brachial plexopathy.
Heo DH, Jun AY, Cho YJ.
40. Osteoporosis International. 2009 Mar 20.
Morphological changes of injected calcium phosphate cement in osteoporotic compressed vertebral bodies.
Heo DH, Cho YJ, Sheen SH, Kuh SU, Cho SM, Oh SM.
41. Surgical Neurology. 2009 Oct 12.
Heterotopic ossifications after vertebroplasty using calcium phosphate in osteoporotic vertebral compression fractures Report of 2 cases.
Heo DH, Cho SM, Cho YJ, Cho JH, Sheen SH.
42. Spine. 2009 Oct 15;34(22):2419-23.
Simple oblique lumbar magnetic resonance imaging technique and its diagnostic value for extraforaminal disc herniation.
Heo DH, Lee MS, Sheen SH, Cho SM, Cho YJ, Oh SM.

43. Osteoporosis International. 2009 Mar;20(3):473-80.
Recollapse of previous vertebral compression fracture after percutaneous vertebroplasty.
Heo DH, Chin DK, Yoon YS, Kuh SU.
44. Journal of Neurosurgery, Spine. 2007 Jun;6(6):559-62.
Progressive, repeated lumbar compression fracture at the same level after vertebral
kyphoplasty with calcium phosphate cement. Case report.
Heo DH, Kuh SU.
45. J Korean Neurosurg Soc. 2008 Nov
Posterior cervical fixation with nitinol shape memory loop in the anterior-posterior
combined approach for the patients with three column injury of the cervical spine :
preliminary report.
Yu DK, **Heo DH**, Cho SM, Choi JH, Sheen SH, Cho YJ.
46. J Korean Neurosurg Soc. 2011. Feb
Segmental artery injury following percutaneous vertebroplasty using extrapedicular
approach.
Heo DH, Cho YJ

Publication TEXT

1. Advanced techniques of endoscopic lumbar spine surgery 2020
Biportal Endoscopic Approach for Lumbar Central Stenosis
Biportal Endoscopic Transforaminal Lumbar Interbody Fusion
Contralateral Sublaminar Approach for Lumbar Foraminal Stenosis Using Biportal
Endoscopic Surgery
Biportal Endoscopic Approach (Biportal Endoscopic Lumbar Discectomy)
Biportal Endoscopic Paraspinal Approach for Foraminal and Extraforaminal Disc
Herniations
Paradigm Shifting of Endoscopic Spine Surgery
2. Endoscopic spine procedures on the spine, 1st edition, 2019
Chapter 19: Percutaneous biportal endoscopic discectomy for lumbar disc herniation
Chapter 20: Percutaneous biportal endoscopic decompression for lumbar central and
foraminal stenosis.
3. Endoscopic spine surgery 2nd edition, 2018
Chapter 11: Percutaneous Unilateral Biportal Endoscopic Discectomy and Decompression
for Lumbar Degenerative Disease
4. 척추학 2 판, 대한 척추신경외과학회, 2018
Intra-discal therapy

5. Surgical atlas of spine. 2010

Chapter 31. Fixation of the Thoracic Thoracolumbar Junction - Anterior fixation