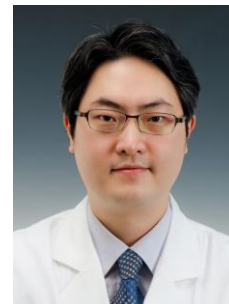


Curriculum Vitae

Seung-Jae (SJ) Hyun, M.D., Ph.D. (玄承宰)



BUSINESS ADDRESS

Seoul National University Bundang Hospital,
Department of Neurosurgery, Spine Center
300 Gumi-dong, Bundang, Seongnam, Gyeonggi 463-707, South Korea
+82-31-787-7164 (Office)
+82-31-787-4097 (FAX)
E-mail: hyunsj@snu.ac.kr

PRESENT POSITION

Associate Professor Sep. 2015 – Present
Department of Neurosurgery, Seoul National University Bundang Hospital,
Seoul National University College of Medicine, Seongnam, Korea

Secretary Professor of Neurosurgical Department Jan. 2014 – Jun. 2017
Department of Neurosurgery, Seoul National University Bundang Hospital,
Seoul National University College of Medicine, Seongnam, Korea

Secretary Professor of Spine Center Aug. 2015 – Present
Mar. 2012 – Jul. 2012
Spine Center, Seoul National University Bundang Hospital,
Seoul National University College of Medicine, Seongnam, Korea

ACADEMIC POSITIONS/EMPLOYMENT

Visiting Research Scholar Jul. 2012 – Jul. 2013
Department of Orthopaedic Surgery, Barnes Jewish Hospital/St. Louis Children's Hospital,
Washington University School of Medicine, St. Louis, MO (Instructed by professor Lawrence
G. Lenke, M.D.)

Assistant Professor Sep. 2010 – Aug. 2015
Department of Neurosurgery, Seoul National University Bundang Hospital,
Seoul National University College of Medicine, Seongnam, Korea

Instructor (Spine) Dec. 2009 - Aug. 2010
Department of Neurosurgery, Spine Center, Seoul National University Bundang Hospital,
Seoul National University College of Medicine, Seongnam, Korea

Research and Neurovascular Fellow Mar. 2009 - Nov. 2009
Department of Neurosurgery, Samsung Medical Center, Sungkyunkwan University School of
Medicine, Seoul, Korea

Spine and Spinal Deformity Fellow Mar. 2008 - Feb. 2009
Department of Neurosurgery, Asan Medical Center, University of Ulsan College of Medicine,
Seoul, South Korea (Instructed by professor Seung-Chul Rhim, M.D., Ph.D.)

POSTDOCTORAL TRAINING

Neurological Surgery Resident Mar. 2004- Feb. 2008

Departments of Neurosurgery, Chung-Ang University Hospital, Chung-Ang University
College of Medicine, Seoul, South Korea

General Intern Mar. 2003- Feb. 2004
Chung-Ang University Hospital, Chung-Ang University College of Medicine, Seoul, South
Korea

MEDICAL LICENSURE / CERTIFICATION

Certification: Korean Board of Neurosurgery, No.2086
Feb. 2008
Licensure; Republic of Korea, No. 79994
Feb. 2003

EDUCATION

Ph.D., Aug. 2007 – Jun. 2009
Chung-Ang University College of Medicine, Seoul, South Korea
(Instructed by professor Young-Baeg Kim, M.D., Ph.D.)

M.S., Aug. 2004 – Feb. 2007
Chung-Ang University College of Medicine, Seoul, South Korea
(Instructed by professor Jong-Sik Suk, M.D., Ph.D.)

B.S., Mar. 1999 – Feb. 2003
Chung-Ang University College of Medicine, Seoul, South Korea

PreMedic School, Mar. 1997 – Feb. 1999
Chung-Ang University College of Nature and Science, Seoul, South Korea

HRPP IRB EDUCATIONS

1. AAHRPP and KGCP education ([on]-17-CRI-00005538), Jun. 12, 2017
2. AAHRPP and KGCP education ([on]-16-CRI-00006726), Jun. 17, 2016
3. AAHRPP and GCP education, Feb. 27, 2015
4. GCP education, Consent under particular situation, Oct. 31, 2013
5. AAHRPP and GCP education, Sep. 8, 2011

HONORS and AWARDS

2018 Winner at Best Poster Award, AOSpine Korean Spine Congress for “Bicortical screw purchase at UIV can cause UIV fracture after adult spinal deformity surgery: Finite element analysis study”.

2018 Best Research Paper Award Winner, Annual Meeting of Korean Cervical Spine Research Society (KOCRS) for “Relationship Between Cervical Sagittal Alignment and Patient Outcomes Following Anterior Cervical Fusion Surgery Involving Three or More Levels”.

2017 Louis A. Goldstein Best Clinical Research Poster Nominated, Annual Meeting of Scoliosis Research Society (SRS) for “Clinical Impact of T1 Slope Minus Cervical Lordosis Following Multilevel Posterior Cervical Fusion Surgery: Long-Term Follow-Up Data”.

2017 Best Research Paper Award Winner (NANURI Academic Award), Annual Meeting of the Korean Spinal Neurosurgery Society for “Revision of a cervical spine deformity

classification system using a long-term follow-up data after multilevel posterior cervical fusion surgery”.

2015 Best Paper Award Nominated (Whitecloud Award), Annual Meeting of International Meeting on Advanced Spine Techniques (IMAST) for “Efficiency of lead aprons in blocking radiation – how protective are they?”.

2015 Best Academic Award (MANSUN Academic Award), Annual Meeting of the Korean Minimally Invasive Spine Surgery Research Society for “Minimally invasive, robotic- vs. open fluoroscopic-guided spinal instrumented fusions – a randomized, controlled trial”.

2014 Best Paper Award Nominated (NANURI Academic Award), Annual Meeting of the Korean Spinal Neurosurgery Society for “The relationship between T1 slope and cervical alignment following multilevel posterior cervical fusion surgery: The impact of T1 slope minus cervical lordosis”.

2013 Best Academic Award (LAMI Academic Award), Annual Meeting of the Korean Spinal Neurosurgery Society for “Comparative analysis between thoracic spinal cord and sacral neuromodulation in a rat spinal cord injury model: a preliminary report of a rat spinal cord stimulation model”.

2011 Best Academic Award (HAN-GOK Medical Award), Annual Meeting of the Korean Spinal Neurosurgery Society for “Progression of Lumbar Spinal Stenosis is Influenced by Variation of Inflammatory Genes”.

2008 First place among all participants. **Korean Neurosurgical Board Examination;** The Korean Neurosurgical Society.

2007 Best Poster Award, Spring Meeting of the Korean Neurosurgical Society for “Novel Entry Point for Intraoperative Ventricular Puncture During the Transylvian Approach”.

2007 Second place among all participants. **Korean Neurosurgery In-Training Examination;** The Korean Neurosurgical Society.

PROFESSIONAL SOCIETIES

2012- Scoliosis Research Society (Active fellow, since Sep. 2017, Candidate fellow, since Mar. 2012)

2015- Cervical Spine Research Society (Corresponding member since 2015)

2016-2017 Board member of Mortality and Morbidity committee, Scoliosis Research Society

2016-2017 Board member of Global Outreach Program (GOP) committee, Scoliosis Research Society

2014-2015 Korean Minimally Invasive Spine Surgery Research Society (Secretary of academic committee)

2013- Korean American Spinal Society (A professional member, since Jul/16/2013)

2015- Cervical Spine Research Society Asia Pacific (Active member since 2015)

2010-2018 AOSPINE international: A member of AO Spine in Asia Pacific, Expiry date: 9/8/2018 (Membership No. 25426)

2010- Asia Pacific Cervical Spine Society

2010- Korean Cervical Spine Research Society

2010- Korean Spinal Basic Research Society (Chair of membership committee 2012, executive committee member since 2010)

2009- Korean Spinal Deformity Society (Board member since 2011, Academic committee member since 2013, 2017-2019 Committee chair of KSDS history edition)

2008- Korean Spinal Neurosurgery Society (Academic committee member 2014-2015, Secretary committee member 2015-2016, Textbook editorial board member 2016-2017)

2008- Korean Neurosurgical Society (Fellowship task force board member 2016-2018)

EDITORIAL BOARD OF JOURNALS

Associate Editor of **Neurospine** (Official Journal of ASIA SPINE, Japanese Spinal Neurosurgical Society, Taiwan Spinal Neurosurgical Society, Korean Spinal Neurosurgical Society), Jan. 2018 to present

Editor and Secretary of **Korean Journal of Spine** (Official Journal of Korean Spinal Neurosurgical Society), Jan. 2015 to Dec. 2017

Asian Spine Journal (Official Journal of APSS, MESS, ASSI, TWSS, KSSS), Nov. 2016 to present

World Journal of Clinical Cases (WJCC, Baishideng Publishing Group Co., Limited, www.wjnet.com), 2012-2016, 2017-Apr. 7th, 2018

Journal of Advanced Spine Surgery (JASS, Official Journal of Korean Society for the Advancement of Spine Surgery), Nov. 2016 to present

REVIEWER OF JOURNALS

Journal of Korean Medical Science (Official Journal of Korean Academy of Medicine), 2014 to present

Journal of Korean Neurosurgical Society (Official Journal of Korean Neurosurgical Society), 2015 to present

Asian Spine Journal (Official Journal of APSS, MESS, ASSI, TWSS, KSSS), 2014 to present

PEER REVIEWED BIBLIOGRAPHY/ PUBLISHED or IN PRESS

1. **Hyun SJ**, Han S, Yongjung J Kim. Corrigendum to "In Reply to "Defining the Pros and Cons of AIS Surgery: Bringing Truth to the Neurosurgery Community and the Public" [World Neurosurgery 113 (2018) 395]. **World Neurosurg**. 2018 May 14.
2. **Hyun SJ**, Han S, Kim YJ. In Reply to "Defining the Pros and Cons of AIS Surgery: Bringing Truth to the Neurosurgery Community and the Public". **World Neurosurg**. 2018 May;113:395.
3. **Hyun SJ**, Han S, Kim KJ, Jahng TA, Kim HJ. Assessment of T1 Slope Minus Cervical Lordosis and C2-7 Sagittal Vertical Axis Criteria of a Cervical Spine Deformity Classification System Using Long-Term Follow-up Data After Multilevel Posterior Cervical Fusion Surgery. **Oper Neurosurg (Hagerstown)**. 2018 Mar 29. doi:

- 10.1093/ons/opy055. [Epub ahead of print]
4. Lee BH, **Hyun SJ**, Kim KJ, Jahng TA, Kim YJ, Kim HJ. Clinical and Radiological Outcomes of Posterior Vertebral Column Resection for Severe Spinal Deformities. **J Korean Neurosurg Soc**. 2018 Mar;61(2):251-257.
 5. Makhni MC, Shillingford JN, Laratta JL, **Hyun SJ**, Kim YJ. Restoration of Sagittal Balance in Spinal Deformity Surgery. **J Korean Neurosurg Soc**. 2018 Mar;61(2):167-179.
 6. Jeon SI, **Hyun SJ**, Han S, Lee BH, Kim KJ, Jahng TA, Kim HJ. Relationship Between Cervical Sagittal Alignment and Patient Outcomes Following Anterior Cervical Fusion Surgery Involving Three or More Levels. **World Neurosurg**. 2018 May;113:e548-e554.
 7. Choi HY, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Freehand S2 Alar-Iliac Screw Placement Using K-Wire and Cannulated Screw : Technical Case Series. **J Korean Neurosurg Soc**. 2018 Jan;61(1):75-80.
 8. **Hyun SJ**, Lee BH, Park JH, Kim KJ, Jahng TA, Kim HJ. Proximal Junctional Kyphosis and Proximal Junctional Failure Following Adult Spinal Deformity Surgery. **Korean J Spine**. 2017 Dec;14(4):126-132.
 9. **Hyun SJ**, Han S, Kim KJ, Jahng TA, Kim YJ, Rhim SC, Kim HJ. Adolescent Idiopathic Scoliosis Surgery by a Neurosurgeon: Learning Curve for Neurosurgeons. **World Neurosurg**. 2018 Feb;110:e129-e134.
 10. Lee BH, **Hyun SJ**, Park JH, Kim KJ. Single Stage Posterior Approach for Total Resection of Presacral Giant Schwannoma: A Technical Case Report. **Korean J Spine**. 2017 Sep;14(3):89-92.
 11. **Hyun SJ**, Kim JW, Kim KJ, Jahng TA, Roh SW, Ra YS, Kim HJ, Rhim SC. Long-Term Results Following Surgical Resection of Chordomas in the Craniocervical Junction and the Upper Cervical Spine: Review of 12 Consecutive Cases. **Oper Neurosurg (Hagerstown)**. 2018 Feb 1;14(2):112-120.
 12. Han S, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ, Lee BH, Choi HY. Multilevel Posterior Column Osteotomies Are Not Inferior For the Correction of Rigid Adult Spinal Deformity Compared with Pedicle Subtraction Osteotomy. **World Neurosurg**. 2017 Nov;107:839-845.
 13. Lee CH, Chung CK, Jang JS, Kim SM, Chin DK, Lee JK, Yoon SH, Hong JT, Ha Y, Kim CH, **Hyun SJ**. Effectiveness of deformity-correction surgery for primary degenerative sagittal imbalance: a meta-analysis. **J Neurosurg Spine**. 2017 Nov;27(5):540-551.
 14. Kwon JW, **Hyun SJ**, Han SH, Kim KJ, Jahng TA. Pyogenic Vertebral Osteomyelitis: Clinical Features, Diagnosis, and Treatment. **Korean J Spine**. 2017 Jun;14(2):27-34.
 15. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Clinical Impact of T1 Slope Minus Cervical Lordosis Following Multilevel Posterior Cervical Fusion Surgery: A Minimum 2-year Follow-Up Data. **Spine (Phila Pa 1976)**. 2017 Dec 15;42(24):1859-1864.
 16. Han S, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Comparative Study between Cobalt Chrome and Titanium Alloy Rods for Multi-level Spinal Fusion: Proximal Junctional Kyphosis More Frequently Occurred in Patients Having Cobalt Chrome Rods. **World Neurosurg**. 2017 Apr 17.
 17. Park YS, **Hyun SJ**, Choi HY, Kim KJ, Jahng TA. Association between bicortical screw fixation at upper instrumented vertebra and risk for upper instrumented vertebra fracture. **J Neurosurg Spine**. 2017 May;26(5):638-644..
 18. **Hyun SJ**, Kim KJ, Jahng TA. S2 alar iliac screw placement under robotic guidance for adult spinal deformity patients: technical note. **Eur Spine J**. 2017 Feb 28.
 19. Han S, **Hyun SJ**, Kim KJ, Jahng TA, Lee S, Rhim SC. Rod stiffness as a risk factor of proximal junctional kyphosis after adult spinal deformity surgery: comparative study

- between cobalt chrome multiple-rod constructs and titanium alloy two-rod constructs. **Spine J.** 2017 Feb 24.
20. Park YS, **Hyun SJ**, Park JH, Kim KJ, Jahng TA, Kim HJ. Radiographic and Clinical Results of Freehand S2 Alar-Iliac Screw Placement for Spinopelvic Fixation: An Analysis of 45 Consecutive Screws. **Clin Spine Surg.** 2017 Feb 23.
 21. **Hyun SJ**, Bae CW, Lee SH, Rhim SC. Fatty Degeneration of the Paraspinal Muscle in Patients With Degenerative Lumbar Kyphosis: A New Evaluation Method of Quantitative Digital Analysis Using MRI and CT Scan. **Clin Spine Surg.** 2016 Dec;29(10):441-447.
 22. Park JH, **Hyun SJ**, Kim KJ, Jahng TA. Comparative Study Between Pedicle Subtraction Osteotomy (PSO) and Closing-Opening Wedge Osteotomy (Fish-mouth PSO) for Sagittal Plane Deformity Correction. **Spine (Phila Pa 1976).** 2017 Aug 1;42(15):E899-E905.
 23. Choi HY, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Effectiveness and Safety of Tranexamic Acid in Spinal Deformity Surgery. **J Korean Neurosurg Soc.** 2017 Jan 1;60(1):75-81.
 24. Choi HY, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Surgical and Radiographic Outcomes After Pedicle Subtraction Osteotomy According to Surgeon's Experience. **Spine (Phila Pa 1976).** 2017 Jul 1;42(13):E795-E801.
 25. Lee SE, Jahng TA, Kim KJ, **Hyun SJ**, Kim HJ, Kawaguchi Y. Research articles published by Korean spine surgeons: Scientific progress and the increase in spine surgery. **J Clin Neurosci.** 2017 Feb;36:6-11.
 26. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Efficiency of lead aprons in blocking radiation - how protective are they? **Heliyon.** 2016 May 27;2(5):e00117
 27. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Minimally Invasive, Robotic-vs. Open Fluoroscopic-guided Spinal Instrumented Fusions-a Randomized, Controlled Trial. **Spine (Phila Pa 1976).** 2017 Mar 15;42(6):353-358.
 28. **Hyun SJ**, Kim YJ, Rhim SC. Patients with proximal junctional kyphosis after stopping at thoracolumbar junction have lower muscularity, fatty degeneration at the thoracolumbar area. **Spine J.** 2016 Sep;16(9):1095-101.
 29. Lee CH, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Can Interspinous Device, SPIRE™, Be An Alternative Fixation Modality in Posterior Lumbar Fusion Instead of Pedicle Screw? **Turk Neurosurg.** 2017;27(3):408-413.
 30. Kim WB, **Hyun SJ**, Choi H, Kim KJ, Jahng TA, Kim HJ. Long-Term Follow-Up Results of Anterior Cervical Inter-Body Fusion with Stand-Alone Cages. **J Korean Neurosurg Soc.** 2016 Jul;59(4):385-91.
 31. Kim YJ, **Hyun SJ**, Cheh G, Cho SK, Rhim SC. Decision Making Algorithm for Adult Spinal Deformity Surgery. **J Korean Neurosurg Soc.** 2016 Jul;59(4):327-33.
 32. **Hyun SJ**, Kim HK, Kim KJ, Jahng TA, Kim HJ. Posterior Trans-Dural Repair of Iatrogenic Spinal Cord Herniation after Resection of Ossification of Posterior Longitudinal Ligament. **Asian Spine J.** 2016 Apr;10(2):355-9.
 33. Kim YC, Lenke LG, Bridwell KH, **Hyun SJ**, You KH, Kim YW, Chang HG, Kelly MP, Koester LA, Blanke KM, Bumpass DB. Results of Revision Surgery for Proximal Junctional Kyphosis Following Posterior Segmental Instrumentation: Minimum 2-Year Post-Revision Follow-up. **Spine (Phila Pa 1976).** 2016 Apr 26. [Epub ahead of print]
 34. Park YS, **Hyun SJ**, Kim KJ, Jahng TA. Multiple Intradural Disc Herniations Masquerading as Intradural Extramedullary Tumors: A Case Report and Review of the Literature. **Korean J Spine.** 2016 Mar;13(1):30-2.
 35. Park YS, **Hyun SJ**, Kim KJ, Jahng TA. Plasmacytoma to the Axis Mimicking Metastatic Paraganglioma: Circumferential Reconstruction via Posterior Approach. **Korean J Spine.** 2015 Dec;12(4):283-6.

36. Park JH, **Hyun SJ**, Kim KJ, Jahng TA. Free Hand Insertion Technique of S2 Sacral Alar-Iliac Screws for Spino-Pelvic Fixation: Technical Note, A Cadaveric Study. **J Korean Neurosurg Soc.** 2015 Dec;58(6):578-81.
37. Lee CH, **Hyun SJ**. Spinal intradural metastasis via the brachial plexus. **Spine J.** 2016 Jun;16(6):e397-8.
38. Lee CH, Jahng TA, **Hyun SJ**, Kim CH, Park SB, Kim KJ, Chung CK, Kim HJ, Lee SE. Dynamic stabilization using the Dynesys system versus posterior lumbar interbody fusion for the treatment of degenerative lumbar spinal disease: a clinical and radiological outcomes-based meta-analysis. **Neurosurg Focus.** 2016 Jan;40(1):E7.
39. Kim DG, Son YR, Park YS, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ, Park KS. Differences in Multimodality Intraoperative Neurophysiological Monitoring Changes Between Spinal Intramedullary Ependymoma and Hemangioblastoma. **J Clin Neurophysiol.** 2016 Apr;33(2):120-6.
40. Han SH, **Hyun SJ**, Jahng TA, Kim KJ. Posterior osteosynthesis of a spontaneous bilateral pedicle fracture of the lumbar spine. **J Neurosurg Spine.** 2016 Mar;24(3):398-401.
41. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Relationship between T1 slope and cervical alignment following multi-level posterior cervical fusion surgery: Impact of T1 Slope Minus Cervical Lordosis. **Spine (Phila Pa 1976).** 2016 Apr;41(7):E396-402.
42. Kim CH, Chung CK, Lee SH, Jahng TA, **Hyun SJ**, Kim KJ, Yoon SH, Kim ES, Eoh W, Kim HJ, Kim KT, Sung JK, Choi Y. Long-term recurrence rates after the removal of spinal meningiomas in relation to Simpson grades. **Eur Spine J.** 2015 Nov 5. [Epub ahead of print]
43. Kim WB, Park YS, Park JH, **Hyun SJ**. Posterior Spinal Reconstruction with Pedicle Screws, Multiple Iliac Screws and Wisconsin Spinal Wires in a Patient with Neurofibromatosis Scoliosis: A Case Report. **Korean J Spine.** 2015 Sep;12(3):181-4. doi: 10.14245/kjs.2015.12.3.181. Epub 2015 Sep 30.
44. Park JH, **Hyun SJ**. Intraoperative neurophysiological monitoring in spinal surgery. **World J Clin Cases.** 2015 Sep 16;3(9):765-73. doi: 10.12998/wjcc.v3.i9.765. Review.
45. **Hyun SJ**, Kim WB, Park YS, Kim KJ, Jahng TA, Kim YJ. Adolescent Idiopathic Scoliosis Treatment by a Korean Neurosurgeon: The Changing Role for Neurosurgeons. **J Korean Neurosurg Soc.** 2015 Jul;58(1):50-3.
46. **Hyun SJ**, Kim YJ, Rhim SC, Cheh G, Cho SK. Pedicle Screw Placement in the Thoracolumbar Spine Using a Novel, Simple, Safe, and Effective Guide-Pin : A Computerized Tomography Analysis. **J Korean Neurosurg Soc.** 2015 Jul;58(1):9-13.
47. Han SH, **Hyun SJ**, Jahng TA, Kim KJ. A Comparative Radiographic Analysis of Fusion Rate between L4-5 and L5-S1 in a Single Level Posterior Lumbar Interbody Fusion. **Korean J Spine.** 2015 Jun;12(2):60-7.
48. Lee CH, Chung CK, **Hyun SJ**, Kim CH, Kim KJ, Jahng TA. A longitudinal study to assess the volumetric growth rate of spinal intradural extramedullary tumour diagnosed with schwannoma by magnetic resonance imaging. **Eur Spine J.** 2015 Jun 25. [Epub ahead of print]
49. Lee CH, Kim KJ, **Hyun SJ**, Yeom JS, Jahng TA, Kim HJ. Subsidence as of 12 months after single-level anterior cervical inter-body fusion. Is it related to clinical outcomes? **Acta Neurochir (Wien).** 2015 Jun;157(6):1063-8.
50. Lee CH, Chung CK, Jahng TA, Kim KJ, Kim CH, **Hyun SJ**, Kim HJ, Jeon SR, Chang UK, Lee SH, Moon SH, Majeed H, Zhang D, Gravis G, Wibmer C, Kumar N, Moon KY, Park JH, Tabouret E, Fuentes S. Which one is a valuable surrogate for predicting survival between Tomita and Tokuhashi scores in patients with spinal metastases? A meta-analysis for diagnostic test accuracy and individual participant data analysis. **J**

- Neurooncol.** 2015 Jun;123(2):267-75.
51. Park JH, **Hyun SJ**, Kim KJ, Jahng TA. Total en bloc thoracic and lumbar spondylectomy for non-small cell lung cancer with favorable prognostic indicators: is it merely indicated for solitary spinal metastasis? **J Korean Neurosurg Soc.** 2014 Nov;56(5):431-5.
 52. **Hyun SJ**, Lenke LG, Kim YC, Koester LA, Blanke KM. Long-term radiographic outcomes of a central hook-rod construct for osteotomy closure: minimum 5-year follow-up. **Spine (Phila Pa 1976).** 2015 Apr 1;40(7):E428-32.
 53. Lee CH, Lee J, Kang JD, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Laminoplasty versus laminectomy and fusion for multilevel cervical myelopathy: a meta-analysis of clinical and radiological outcomes. **J Neurosurg Spine.** 2015 Jun;22(6):589-95.
 54. **Hyun SJ**, Lenke LG, Kim YC, Koester LA, Blanke KM. Comparison of standard 2-rod constructs to multiple-rod constructs for fixation across 3-column spinal osteotomies. **Spine (Phila Pa 1976).** 2014 Oct 15;39(22):1899-904.
 55. Yoo M, Kim WH, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Comparison between Two Different Cervical Interbody Fusion Cages in One Level Stand-alone ACDF: Carbon Fiber Composite Frame Cage Versus Polyetheretherketone Cage. **Korean J Spine.** 2014 Sep;11(3):127-35.
 56. Yoo MW, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Does obesity make an influence on surgical outcomes following lumbar microdiscectomy? **Korean J Spine.** 2014 Jun;11(2):68-73.
 57. Lee CH, Jahng TA, **Hyun SJ**, Kim KJ, Kim HJ. Expansive Laminoplasty Versus Laminectomy Alone Versus Laminectomy and Fusion for Cervical Ossification of the Posterior Longitudinal Ligament: Is There a Difference in the Clinical Outcome and Sagittal Alignment? **J Spinal Disord Tech.** 2014 Jul 29. [Epub ahead of print]
 58. Kim YC, Lenke LG, **Hyun SJ**, Lee JH, Koester LA, Blanke KM. Results of Revision Surgery After Pedicle Subtraction Osteotomy for Fixed Sagittal Imbalance With Pseudarthrosis at the Prior Osteotomy Site or Elsewhere: Minimum 5 Years Post-revision. **Spine (Phila Pa 1976).** 2014 Oct 1;39(21):1817-28.
 59. Gu BS, Park JH, Roh SW, Jeon SR, Jang JW, **Hyun SJ**, Rhim SC. Surgical strategies for removal of intra- and extraforaminal dumbbell-shaped schwannomas in the subaxial cervical spine. **Eur Spine J.** 2014 Jul 14. [Epub ahead of print]
 60. Choi I, **Hyun SJ**, Kang JK, Rhim SC. Combined muscle motor and somatosensory evoked potentials for intramedullary spinal cord tumour surgery. **Yonsei Med J.** 2014 Jul;55(4):1063-71.
 61. Park JH, **Hyun SJ**, Lee CH, Kim KJ, Yeom JS, Jahng TA, Kim HJ. Efficacy of a Short Plate with an Oblique Screw Trajectory for Anterior Cervical Plating: A Comparative Study with a Two-year Minimum Follow-up. **J Spinal Disord Tech.** 2014 Jun 4. [Epub ahead of print]
 62. O'Neill KR, Lenke LG, Bridwell KH, **Hyun SJ**, Neuman B, Dorward I, Koester L. Clinical and Radiographic Outcomes After 3-Column Osteotomies With 5-Year Follow-up. **Spine (Phila Pa 1976).** 2014 Mar 1;39(5):424-32.
 63. Lee CH, Kwon J, Lee J, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Direct Decompressive Surgery Followed by Radiotherapy Versus Radiotherapy Alone for Metastatic Epidural Spinal Cord Compression: A Meta-Analysis. **Spine (Phila Pa 1976).** 2014 Feb 5. [Epub ahead of print]
 64. **Hyun SJ**, Kim YJ, Rhim SC. Spinal pedicle subtraction osteotomy for fixed sagittal imbalance patients. **World J Clin Cases.** 2013 Nov 16;1(8):242-248. Review.
 65. Lee CH, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. Decompression Only Versus Fusion Surgery for Lumbar Stenosis in Elderly Patients Over 75 Years Old: Which is Reasonable? **Neurol Med Chir (Tokyo).** 2013 Oct 29. [Epub ahead of print]

66. **Hyun SJ**, Bae CW, Lee SH, Rhim SC. Fatty degeneration of paraspinal muscles in patients with degenerative lumbar kyphosis: A new quantitative digital analysis method using magnetic resonance imaging and computed tomography scanning. **J Spinal Disord Tech**. [In press]
67. Lee CH, **Hyun SJ**, Kim YJ, Kim KJ, Jahng TA, Kim HJ. Accuracy of Free Hand Pedicle Screw Placement in the Thoracic and Lumbar Spine by a Junior Surgeon: An Analysis of the First Consecutive 306 Screws Using Computed Tomography. **Asian Spine J**. 2014 Jun;8(3):237-43.
68. **Hyun SJ**, Moon KY, Kwon JW, Lee CH, Kim J, Kim KJ, Jahng TA, Chung CK, Kim HJ. Chiari I malformation associated with syringomyelia: can foramen magnum decompression lead to restore cervical alignment? **Eur Spine J**. 2013 Jul 4. [Epub ahead of print]
69. **Hyun SJ**, Park BG, Rhim SC, Jang JW, Jeon SR, Roh SW. Progression of lumbar spinal stenosis is influenced by polymorphism of thrombospondin 2 gene in the Korean population. **Eur Spine J**. 2013 Jun 27. [Epub ahead of print]
70. Lee SH, Chung CK, Kim CH, Yoon SH, **Hyun SJ**, Kim KJ, Kim ES, Eoh W, Kim HJ. Long-term outcomes of surgical resection with or without adjuvant radiation therapy for treatment of spinal ependymoma: a retrospective multicenter study by the Korea Spinal Oncology Research Group. **Neuro Oncol**. 2013 Apr 10. [Epub ahead of print]
71. **Hyun SJ**, Lee CH, Kwon JW, Yoon CY, Lim JY, Kim KJ, Jahng TA, Kim HJ. Comparative analysis between thoracic spinal cord and sacral neuromodulation in a rat spinal cord injury model: a preliminary report of a rat spinal cord stimulation model. **Korean Journal of Spine**. 2013 Mar 10(1):14-18
72. Lee CH, **Hyun SJ**, Lee JW, Rhim SC. Granular cell tumor of the intradural extramedullary spinal cord : report of two cases with respect to radiological differential diagnosis. **J Korean Neurosurg Soc**. 2013 Feb;53(2):121-4. doi: 10.3340/jkns.2013.53.2.121. Epub 2013 Feb 28.
73. Lee CH, **Hyun SJ**, Kim KJ, Jahng TA, Yoon SH, Kim HJ. The Efficacy of Lumbar Hybrid Stabilization Using the DIAM™ to Delay Adjacent Segment Degeneration: An Intervention Comparison Study with a Minimum Two-Year Follow-up. **Neurosurgery** 2013 Mar 5. [Epub ahead of print]
74. Kim T, Lee CH, **Hyun SJ**, Yoon SH, Kim KJ, Kim HJ. Clinical outcomes of spontaneous spinal epidural hematoma: a comparative study between conservative and surgical treatment. **J Korean Neurosurg Soc** Dec;52(6):523-7, 2012
75. Lee CH, **Hyun SJ**, Yoon CY, Lim JY, Jahng TA, Kim KJ. Neuroprotective Effects of Sacral Epidural Neuromodulation Following Spinal Cord Injury: An Experimental Study in Rats. **J Korean Neurosurg Soc** Dec;52(6):509-12, 2012
76. **Hyun SJ**, Riew KD, Rhim SC. Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 5 Year Follow-up Data. **Spine J** Dec 6 S1529-9430(12) 01313-7, 2012.
77. Lee CH, **Hyun SJ**, Kim MJ, Yeom JS, Kim WH, Kim KJ, Jahng TA, Kim HJ, Yoon SH. Comparative Analysis of Three Different Construct Systems for Single-Level Anterior Cervical Discectomy and Fusion: Stand-alone Cage, Iliac Graft Plus Plate Augmentation, and Cage Plus Plating. **J Spinal Disord Tech** 2013 Apr;26(2):112-8.
78. Park CH, Lee CH, **Hyun SJ**, Jahng TA, Kim HJ, Kim KJ. Surgical outcome of spinal cord hemangioblastomas. **J Korean Neurosurg Soc** Sep;52(3):221-7, 2012.
79. Jang JW, Park JH, **Hyun SJ**, Rhim SC. Clinical Outcomes and Radiologic Changes Following Microsurgical Bilateral Decompression via a Unilateral Approach in Patients With Lumbar Canal Stenosis and Grade I Degenerative Spondylolisthesis With a Minimum 3-year Follow-up. **J Spinal Disord Tech** 2012 Oct 15. [Epub ahead of print]

80. Park CH, **Hyun SJ**, Kim KJ, Kim HJ. Spinal intramedullary ependymal cysts : a case report and review of the literature. **J Korean Neurosurg Soc** 2012 Jul;52(1):67-70.
81. Jung JM, Yoon SH, **Hyun SJ**, Kim KJ, Park KU, Wang KC, Kim HJ. Extraosseous multiple myeloma mimicking spinal epidural metastasis. **J Clin Neurosci** 2012 Oct;19(10):1448-50.
82. **Hyun SJ**, Kim YJ, Cheh G, Yoon SH, Rhim SC. Free Hand Pedicle Screw Placement in the Thoracic Spine without Any Radiographic Guidance: Technical Note, a Cadaveric Study. **J Korean Neurosurg Soc** 51(1):66-70, 2012.
83. Lee CH, **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ. What is a reasonable surgical procedure for spinal extradural arachnoid cysts: Is cyst removal mandatory? Eight consecutive cases and a review of the literature. **Acta Neurochir (Wien)** 154(7):1219-27, 2012.
84. Park JH, **Hyun SJ**, Roh SW, Rhim SC. A Comparison of Unilateral Laminectomy with Bilateral Decompression and Fusion Surgery in the Treatment of Grade I Lumbar Degenerative Spondylolisthesis. **Acta Neurochir (Wien)** 154(7):1205-12, 2012.
85. Kim SM, Yang H, Park SB, Han SG, Park KW, Yoon SH, **Hyun SJ**, Kim HJ, Park KS, Lee KW. Pattern-specific changes and discordant prognostic values of individual leg-muscle motor evoked potentials during spinal surgery. **Clin Neurophysiol** 123(7):1465-70, 2012.
86. **Hyun SJ**, Kong DS, Lee JI, Kim JS, Hong SC. Cerebral arteriovenous malformations and seizures: differential impact on the time to seizure-free state according to the treatment modalities. **Acta Neurochir (Wien)** 154(6):1003-10, 2012.
87. Lee CH, Cho JH, **Hyun SJ**, Yoon SH, Kim KJ, Kim HJ. Symptomatic Gas-containing Herniated Disc with a Vacuum Phenomenon: Mechanism and Treatment. **Neurol Med Chir (Tokyo)** 52(2):106-8, 2012.
88. **Hyun SJ**, Rhim SC. Giant Cauda Equina Schwannoma with Dystrophic Calcifications: Case Report and Review of the Literature. **J Korean Neurosurg Soc** 51(2):105-8, 2012.
89. Oh SI, Choi CM, Kim CY, Yang HJ, **Hyun SJ**, Kim CY, Oh CW. Improvement of Accuracy of Image Guided Surgery Designing New Fiducial Marker. **J Kor PACS Soc** 17: 86-92, 2011.
90. **Hyun SJ**, Park BG, Rhim SC, Bae CW, Lee JK, Roh SW, Jeon SR. A Haplotype at the COL9A2 Gene Locus Contributes to the Genetic Risk for Lumbar Spinal Stenosis in the Korean Population. **Spine (Phila Pa 1976)** 36(16):1273-8, 2011.
91. **Hyun SJ**, Hwang SN, Nam TK, Park SW, Byun JS. Takayasu's arteritis complicated with subarachnoid hemorrhage and hematomyelia--case report. **Neurol Med Chir (Tokyo)** 51(2):119-22, 2011.
92. **Hyun SJ**, Rhim SC, Kim YJ, Kim YB. A Mid-Term Follow-Up Result of Spinopelvic Fixation Using Iliac Screws for Lumbosacral Fusion. **J Korean Neurosurg Soc** 48(4):347-53, 2010.
93. Cho SH, Rhim SC, **Hyun SJ**, Bae CW, Khang SK. Intradural involvement of multicentric myxoid liposarcoma. **J Korean Neurosurg Soc** 48(3): 276-280, 2010.
94. **Hyun SJ**, Rhim SC, Huh J. Simultaneous occurrence of Hodgkin's lymphoma and Langerhans cell histiocytosis of the spine: a rare combination. **J Korean Neurosurg Soc** 47(4):302-5, 2010.
95. **Hyun SJ**, Kim JS, Hong SC. Prognostic factors associated with perioperative ischemic complications in adult-onset moyamoya disease. **Acta Neurochir (Wien)** 152(7):1181-8, 2010.
96. **Hyun SJ**, Kong DS, Park K. Microvascular decompression for treating hemifacial spasm: lessons learned from a prospective study of 1174 operations. **Neurosurg Rev** 33(3):325-34, 2010.

97. **Hyun SJ**, Rhim SC. Clinical Outcomes and Complications After Pedicle Subtraction Osteotomy for Fixed Sagittal Imbalance Patients: A long-term Follow-up Data. **J Korean Neurosurg Soc** 47(2): 95-101, 2010.
98. **Hyun SJ**, Hwang SN, Park SW, Nam TK, Lee YS. The Effect of Preoperative Short-term Use of Tranexamic Acid in Patients with Aneurysmal Subarachnoid Hemorrhage. **Kor J Cerebrovascular Surg** 12(1): 5-9, 2010.
99. **Hyun SJ**, Hong SC, Kim JS. Side Selection of the Pterional Approach for Superiorly Projecting Anterior Communicating Artery Aneurysms. **J Clin Neurosci** 17(5):592-596, 2010.
100. **Hyun SJ**, Kim JS, Hong SC. Late Occurrence of Cervicothoracic Ossification of Posterior Longitudinal Ligaments in a Surgically Treated Thoracic OPLL Patient. **Korean Neurosurg Soc** 47(1): 515-521, 2010.
101. **Hyun SJ**, Rhim SC, Ra YS. Repair of a Cerebrospinal Fluid Fistula using a Muscle Pedicle Flap: Technical Case Report. **Neurosurgery** 65(6):E1214-E1215, 2009.
102. **Hyun SJ**, Rhim SC, Riew KD. A Combined Posterior, Lateral and Anterior Approach to Ventrolaterally Situated Chordoma of the Upper Cervical Spine: Technical Case Report. **Surg Neurol** 72(4):409-13, 2009.
103. **Hyun SJ**, Rhim SC. Combined Motor and Somatosensory Evoked Potential Monitoring for Intramedullary Spinal Cord Tumor Surgery: Correlation of Clinical and Neurophysiological Data in 17 Consecutive Procedures. **Br J Neurosurg** 23(4):393-400, 2009.
104. **Hyun SJ**, Rhim SC, Roh SW, Kang SH, Riew KD. The Time Course of Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 2 Year Follow-up. **Spine (Phila Pa 1976)** 15;34(11):1134-9, 2009.
105. **Hyun SJ**, Rhim SC, Kang JK, Hong SH, Park BR. Combined motor- and somatosensory-evoked potential monitoring for spine and spinal cord surgery: correlation of clinical and neurophysiological data in 85 consecutive procedures. **Spinal Cord** 47(8):616-22, 2009.
106. Hwang SW, Rhim SC, Roh SW, Jun SR, **Hyun SJ**. Outcomes of Unilateral Approach for Bilateral Decompression of Lumbar Spinal Stenosis: Comparison between Younger and Geriatric Patients. **Korean J Spine** 5(2):51-57, 2008.
107. Kim YB, **Hyun SJ**. Clinical Applications of the Tubular Retractor on Spinal Disorders (Review article) **Korean Neurosurg Soc** 42(4):245-250, 2007.
108. **Hyun SJ**, Suk JS, Kwon JT, Kim YB. Novel Entry Point for Intraoperative Ventricular Puncture During the Transylvian Approach. **Acta Neurochir (Wien)**149(10):1049-1051, 2007.
109. **Hyun SJ**, Hwang SN, Park SW, Nam TK. A Case of Pineal Ependymoma. **Korean Neurosurg Soc** 42(2):56-58, 2007.
110. **Hyun SJ**, Kim YB, Kim YS, Park SW, Nam TK, Hong HJ, Kwon JT. Postoperative Changes in Paraspinal Muscle Volume : Comparison of Paramedian Interfascial Approach and Midline Approach for lumbar Fusion. **J Korean Med Sci** 22:646-51, 2007.
111. **Hyun SJ**, Kim YB, Hong HJ, Kwon JT, Suk JS, Min BK. Predictable Risk Factors for Adjacent Segment Degeneration After Lumbar Fusion. **Korean Neurosurg Soc** 41(2):88-94, 2007.
112. **Hyun SJ**, Kim YB, Kwon JT, Hong HJ, Suk JS. Transverse Myelitis that is Taken for Intramedullary spinal tumor before Operation. **Chung-Ang Med J** 31(2):19-23, 2006.
113. **Hyun SJ**, Kim YB, Yoo H, Hong HJ. Central Nervous System Involvement of Acute Lymphoblastic Leukemia (Case Report) **Korean Neurosurg Soc** 40(1):54-57, 2006.

114. **Hyun SJ**, Suk JS, Kwon JT, Hong HJ, Kim YB. Risk Factors for Ischemic Lesions on Computerized Tomography in the Patients with Aneurysmal Subarachnoid Hemorrhage. **Kor J Cerebrovascular Surg** 8(1):56-62, 2006.
115. **Hyun SJ**, Cho TK, Kwon JT, Hong HJ, Kim YB, Suk JS. Central Neurocytoma: Case Report. **Chung-Ang Med J** 30(2):69-72, 2005.

PODIUM PRESENTATION

1. **Hyun SJ**: Spinal deformity correction using various methods other than surgery. The 26th KU Postgraduate Neurosurgical Update Course, Seoul, Mar. 9th, 2019.
2. **Hyun SJ**: Surgical Decision for Myelopathy and Thoracic OLF. The 18th Severance Spine and Spinal Cord Institute Symposium, Gangnam Severance Hospital, Seoul, Feb 9th, 2019.
3. **Hyun SJ**: PJK: How Does It Happen and Current Techniques for the Prevention. The 11th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan, 26th, 2019.
4. **Hyun SJ**: Surgical Treatment of Severe NF Kyphoscoliosis Using Halo Gravity Traction. The 11th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan, 26th, 2019.
5. **Hyun SJ**: The Pioneer of Korean Spinal Deformity Neurosurgeon. ASAN Neurosurgical Forum, Retirement ceremony of Prof. SC Rhim, Seoul, Jan, 25th, 2019.
6. **Hyun SJ**: My worst case of CSF leakage, The 11th SNUBH Spine Center Symposium, Seoul, Jan, 19th, 2019.
7. **Hyun SJ**: Spinal balance and spinal deformity. Bokang Hospital Spine Conference, Daegu, Dec, 2018.
8. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Revision of a Cervical Spine Deformity Classification System Using a Long-term Follow-Up Data After Multilevel Posterior Cervical Fusion Surgery. Annual Meeting of Cervical Spine Research Society (**CSRS**), Scottsdale, AZ, USA, Dec. 7th, 2018.
9. **Hyun SJ**: Adolescent idiopathic scoliosis: diagnosis and treatment. Cho Ray Hospital Spine Symposium and Live Surgery, HCM city, Vietnam, Nov. 23, 2018.
10. **Hyun SJ**: Spinal Deformity. The Spine Section of 2018 **KNS** Official Lecture for National Neurosurgical Residents, Pusan, Korea, Nov. 17th 2018.
11. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The spine conference of Klinik St. Ann Hospital in Luzern, Switzerland, Nov. 5th 2018.
12. **Hyun SJ**, Lenke LG, et al: The Prevalence of Adding-On or Distal Junctional Kyphosis in Adolescent Idiopathic Scoliosis Treated By Anterior Spinal Fusion to L3 was Significantly Higher than By Posterior Spinal Fusion to L3, PAPER No.108, Annual Meeting of Scoliosis Research Society (**SRS**), Bologna, Italy, Oct. 12th, 2018.
13. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Assessment of T1 Slope Minus Cervical Lordosis and C2-7 Sagittal Vertical Axis Criteria of a Cervical Spine Deformity Classification System Using a Long-term Follow-Up Data After Multilevel Posterior Cervical Fusion Surgery (Paper No. 132). Annual Meeting of Scoliosis Research Society (**SRS**), Bologna,

Italy, Oct. 13th, 2018.

14. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The NGR conference of Bern University, Switzerland, Oct. 2nd, 2018.
15. **Hyun SJ**: Sagittal Spinal Balance in Spinal Deformity Surgery. The 32nd Annual Meeting of the Korean Spinal Neurosurgery Society (**KSNS**), Pusan, Korea, Sep. 14-15th 2018.
16. **Hyun SJ**: Spinal Deformity Correction using Poly- and Mono- axial Changeable Screws. Luncheon Seminar I, The 32nd Annual Meeting of the Korean Spinal Neurosurgery Society (**KSNS**), Pusan, Korea, Sep. 14-15th 2018.
17. **Hyun SJ**: Reciprocal changes evaluation using whole body imaging after realignment surgery. The Gangnam Severance Spine Center Symposium, Gangnam Severance Hospital, Seoul, Korea, Sep. 1st, 2018.
18. **Hyun SJ**: Spinal trauma and its surgical treatment. The annual meeting of Korean spinal cord injury society, Severance Hospital, Seoul, Korea, Sep. 1st, 2018.
19. **Hyun SJ**: Myelomeningocele kyphosis, The Cervical-Deformity Case Conference, **KOCSRS-KSDS joint conference**, Gangneung, Korea, Aug. 25th 2018.
20. **Hyun SJ**: Validation of a Cervical Spine Deformity Classification System Using a Long-term Follow-Up Data After Multilevel Posterior Cervical Fusion Surgery, **AOSPINE Korean Spine Congress**, Seoul, Korea, Jul. 7th 2018.
21. **Hyun SJ**: Ideal LL, Lower LL and Lordosis Distribution Index Determined by Individual Pelvic Incidence in Asymptomatic Elderly Population, **AOSPINE Korean Spine Congress**, Seoul, Korea, Jul. 7th 2018.
22. **Hyun SJ**: Fishmouth PSO, case presentation, **Niigata Spine Surgery Center**, Niigata, Japan, Jul. 2nd 2018.
23. **Hyun SJ**: Consideration of Rods Material Property to Optimize Outcomes After Spinal Instrumented Fusion, **KOSASS**, Seoul, Korea, Jun. 16th 2018.
24. **Hyun SJ**: Three or More Level ACDF Under Neutral Supine Position Did Not Significantly Change the Postoperative Cervical Alignment, **KOSASS**, Seoul, Korea, Jun. 16th 2018.
25. **Hyun SJ**: Validation of a Cervical Spine Deformity Classification System Using a Long-term Follow-Up Data After Multilevel Posterior Cervical Fusion Surgery, **KOSASS**, Seoul, Korea, Jun. 16th 2018.
26. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The **ASIA SPINE** 2018, Taipei, Taiwan, Jun. 9th 2018.
27. **Hyun SJ**: Relationship Between Cervical Sagittal Alignment and Patient Outcomes Following Anterior Cervical Fusion Surgery Involving Three or More Levels, **KOCSRS**, Seoul, Korea, Jun. 2nd 2018.
28. **Hyun SJ**: The Present and Future of Pediatric Spinal Neurosurgery, The 30th Annual Meeting of Korean Society of Pediatric Neurosurgery (**KSPN**), Korea University, Seoul, Korea, May 19th 2018.
29. **Hyun SJ**: Myelomeningocele kyphosis, The 30th Annual Meeting of Korean Society of Pediatric Neurosurgery (**KSPN**), Korea University, Seoul, Korea, May 19th 2018.

30. **Hyun SJ**: Multilevel Posterior Column Osteotomies Are Not Inferior For the Correction of Rigid Adult Spinal Deformity Comparing to Pedicle Subtraction Osteotomy, World Spine Essay (**WSE**), Danang, Vietnam, May 10th 2018.
31. **Hyun SJ**: Consideration of Rods Material Property to Optimize Outcomes After Spinal Instrumented Fusion, **Biospine AP**, Seoul, Korea, Apr. 27th 2018.
32. **Hyun SJ**: Spinal balance and Sagittal plane spinal deformity. Teaching Round for PK students and NS residents, KNU Hosp., Daegu, Korea, Mar. 9th 2018.
33. **Hyun SJ**: Cervicothoracic kyphosis following laminectomies for T-OPLL. Monday Allumni Conference, Seoul Chuk Hosp., Seoul, Korea, Mar. 5th 2018.
34. **Hyun SJ**: IntraOP. MEP Disappearance: How to Manage. The 17th Severance Spine and Spinal Cord Institute Symposium, Gangnam Severance Hospital, Seoul, Korea, Mar. 1st 2018.
35. **Hyun SJ**: Cervicothoracic kyphosis following laminectomies for T-OPLL. The Cervical Case Conference, **KOCSRS 2018**, Pusan, Korea, Feb. 24th 2018.
36. **Hyun SJ**: Cervical Alignment and its Clinical Relevance. The Principle Course of **AOSPINE**, Seoul, Korea, Feb. 3rd 2018.
37. **Hyun SJ**, Han S, Kim KJ, Jahng TA, Kim HJ: Multilevel Posterior Column Osteotomies Are Not Inferior For the Correction of Rigid Adult Spinal Deformity Compared with Pedicle Subtraction Osteotomy. The 10th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Korea, Jan. 20th 2018.
38. **Hyun SJ**: Cervical Alignment and its Clinical Relevance. The 10th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Korea, Jan. 20th 2018.
39. **Hyun SJ**: Clinical Experience of NOVOSIS rhBMP-2 in Spinal Posterolateral Fusion. DaeWoong CGBIO Symposium for Customers, Seoul, Jan. 13th 2018.
40. **Hyun SJ**: General Concept of Cervical Alignment. The CAU Neurosurgical Symposium, Seoul, Korea, Dec. 16th 2017.
41. **Hyun SJ**: Consideration of Rods Material Property to Prevent PJK. The 20th Anniversary of Neurosurgical Department, SMC Neurosurgical Symposium, Seoul, Korea, Dec. 15th 2017.
42. **Hyun SJ**: Clinical Experience of NOVOSIS rhBMP-2 in Spinal Posterolateral Fusion. DaeWoong CGBIO Symposium for Customers, Jeju, Dec. 9th 2017.
43. **Hyun SJ**: Spinal Deformity. The Spine Section of 2017 **KNS** Official Lecture for National Neurosurgical Residents, Pusan, Korea, Nov. 19th 2017.
44. **Hyun SJ**: Posterior Osteotomies for Deformity Correction. The 11th Severance Advanced Course in Spine Surgery, Gangnam Severance Hospital, Seoul, Korea, Nov. 18th 2017.
45. **Hyun SJ**: Consideration of Rods Material Property to Prevent PJK. The 2nd PNU Neurosurgical Symposium, Pusan, Korea, Nov. 11th 2017.
46. **Hyun SJ**: Pediatric Spinal Disorders and Overview of Spinal Deformities. The Pediatric Section of 2017 **KNS** Official Lecture for National Neurosurgical Residents, Pusan,

Korea, Nov. 11th 2017.

47. **Hyun SJ**: Thoracic and Lumbar Posterior Osteotomy Techniques and Complications. The 6th Catholic University Neurosurgery Symposium, Seoul, Korea, Oct. 28th 2017.
48. **Hyun SJ**: Effectiveness of Selective Fusion for AIS. The 2nd Inha University Spine Center Symposium, Incheon, Korea, Oct. 27th 2017.
49. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Pediatric spinal deformity surgery by neurosurgeons. 2017 Th3 57th Annual Autumn Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2017.
50. **Hyun SJ**, Han S, Kim KJ, Jahng TA, Kim HJ: Rod stiffness as a risk factor of proximal junctional kyphosis after adult spinal deformity surgery: comparative study between cobalt chrome multiple-rod constructs and titanium alloy two-rod constructs. The 31st Annual Meeting of the Korean Spinal Neurosurgery Society (**KSNS**), Seoul, Korea, Sep. 15-16th 2017.
51. **Hyun SJ**: Cervical Alignment and its Clinical Relevance. The 31st Annual Meeting of the Korean Spinal Neurosurgery Society (**KSNS**), Seoul, Korea, Sep. 15-16th 2017.
52. **Hyun SJ**: Relationship between cervical alignment and thoracolumbar deformity. Joint conference of Korean Cervical Spine Research Society (**KOCSRS**) and The Korean Spinal Deformity Society (**KSDS**), Jinju, Korea, Aug. 26th 2017.
53. **Hyun SJ**: Cervical kyphosis following resection of spinal cord tumor. Joint conference of Korean Cervical Spine Research Society (**KOCSRS**) and The Korean Spinal Deformity Society (**KSDS**), Jinju, Korea, Aug. 26th 2017.
54. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Revision of a Cervical Spine Deformity Classification System Using a Long-term Follow-Up Data After Multilevel Posterior Cervical Fusion Surgery. The 11th Annual Meeting of Korean Cervical Spine Research Society (**KOCSRS**), Seoul, Korea, July 1st 2017.
55. **Hyun SJ**: Surgical Techniques for SPO, PSO and VCR, WEB Conference (Webinar) of Korean Spinal Neurosurgical Society (**KSNS**), Seoul, Jun. 30th 2017.
56. **Hyun SJ**: Robotic spine surgery in Korea, 12th Annual Meeting of Korean American Spine Society (**KASS**), Maui, Hawaii, Jun. 2017.
57. **Hyun SJ**: Comparative Study Between Pedicle Subtraction Osteotomy (PSO) and Closing-Opening Wedge Osteotomy (Fish-Mouth PSO) for Sagittal Plane Deformity Correction, 12th Annual Meeting of Korean American Spine Society (**KASS**), Maui, Hawaii, Jun. 2017.
58. **Hyun SJ**: Clinical Experience of NOVOSIS rhBMP-2 in Spinal Posterolateral Fusion. DaeWoong CGBIO Symposium for Customers, Kyeongju, Jun. 2017.
59. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. **KST** (Kyoto-Taiwan-Seoul National University) Friendship Conference, Kyoto, May 2017.
60. **Hyun SJ**: Clinical Experience of NOVOSIS rhBMP-2 in Spinal Fusion. DaeWoong CGBIO Company Conference, Seoul, Apr. 2017.
61. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Clinical Impact of T1 Slope Minus Cervical Lordosis Following Multilevel Posterior Cervical Fusion Surgery: Long-term Follow-Up Data. 2017 Annual Spring Meeting of Korean Neurosurgical Society (**KNS**), Incheon, Apr.

2017.

62. **Hyun SJ**: IOM for Spinal Deformity Surgery. The 5th annual meeting of The Korean Neuromonitoring Research Society, Seoul, Apr. 2017.
63. **Hyun SJ**: Application of the Concept of the Cervical Alignment in Routine Surgery. The 24th KU Postgraduate NS Update Course, Seoul, Mar. 2017.
64. **Hyun SJ**: Adolescent Idiopathic Scoliosis Surgery by a Neurosurgeon: Learning Curve for Neurosurgeons. The 26th annual meeting of The Korean Neurosurgical Society-Seoul/ Gyeonggi/Incheon Regional Section (**KNS**), Seoul, Feb. 2017.
65. **Hyun SJ**: Determining Upper & Lower Instrumented Vertebra and Step by Step Scoliosis Correction. The 9th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Feb. 2017.
66. **Hyun SJ**: Comparative Study Between PSO and Fish-mouth PSO for Sagittal Plane Deformity Correction. The 9th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Feb. 2017.
67. **Hyun SJ** and Kim KJ: Relationship Between T1 Slope And Cervical Alignment Following Multi-Level Posterior Cervical Fusion Surgery: Impact Of T1 Slope Minus Cervical Lordosis. (Paper No. 23) The 2016 **CSRS** Annual Meeting, Toronto, Ontario, Canada, 2016.
68. **Hyun SJ**: Preoperative Planning, Alignment Target, Age Specific Consideration for Degenerative Lumbar Scoliosis. The 10th Severance Advanced Course in Degenerative Spine Surgery, Seoul, Nov. 2016.
69. **Hyun SJ**: Evidence and Clinical Experience of BMP in Spinal Fusion. DaeWoong Bone Solution Global Update, Seoul, Nov. 2016.
70. **Hyun SJ**: Spinal Trauma and Spinal Cord Injury. NS Residents Test Examination and Query Responses. Faculty Lecture on Neurosurgical Teaching Round, Seoul National University Bundang Hospital, Oct. 2016.
71. **Hyun SJ**: Neurological Symptom and Sign. Faculty Lecture on Neurological Teaching Round, Seoul National University College of Medicine, Seoul, Oct. 2016.
72. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The 6th National Spinal Nerve Surgery Conference, Xian, China, Oct. 2016.
73. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The **ASIA SPINE** 2016, Seoul, Sep. 2016.
74. **Hyun SJ**: Pedicle subtraction osteotomy and its modifications. The 3rd **ASPAC Deformity Advisory Panel**, Prague, Czech Republic, Sep. 2016.
75. **Hyun SJ**: Lumbar Revision Surgery: Spinal Deformity. The 13th Spine Symposium of Nanoori Hospital, Seoul, Sep. 2016.
76. **Hyun SJ**: Dropped head syndrome causing "Chin-on-chest deformity". The Deformity Case Conference, **KSDS** 2016, Ulsan, Aug. 2016.
77. **Hyun SJ**: Robotic Spine Surgery, My Expectation for Medtronic. Company Conference of Medtronic Korea, Seoul, Jul. 2016.

78. **Hyun SJ**: S2 ala iliac screw for sacroiliac fixation. The 2016 SNU Adult Spine Deformity Symposium, Seoul, Jul. 2016.
79. **Hyun SJ**: A Patient with Fixed Degenerative Sagittal Imbalance. The SNU Adult Spine Deformity Symposium, Seoul, Jul. 2016.
80. **Hyun SJ**: Open Pedicle screw fixation for deformity correction. The 9th CNUH NS SPINE CADAVERIC WORKSHOP, Gwangju, Jul. 2016.
81. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: MIS robotic- vs. open fluoroscopic-guided spinal instrumented fusions: a randomized, controlled trial. 67th Annual Meeting of **the German Society of Neurosurgery**, 1st Joint Meeting with the **KNS**, Congress Center Messe Frankfurt, Germany, Jun. 2016.
82. **Hyun SJ**: Pedicle Subtraction Osteotomy (PSO) and Its Modifications. The 3rd **World Spine Essay**, Deformity Session II, Pattaya, Thailand, Jun. 2016.
83. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: MIS robotic- vs. open fluoroscopic-guided spinal instrumented fusions: a randomized, controlled trial. The 5th **WCMISST**, ICC Jeju, 2016.
84. **Hyun SJ**: Instrumentation in the Thoracolumbar Spine. The **AOSPINE** Advanced Level Specimen Course, Seoul, May 2016.
85. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. Faculty Lecture on Neurological Grand Round, Seoul National University Bundang Hospital, Apr. 2016.
86. **Hyun SJ**: Spinal Balance and Spinal Deformity. Faculty Lecture on Neurosurgical Teaching Round, Seoul National University Bundang Hospital, Mar. 2016.
87. **Hyun SJ**: Spinal Deformity Surgery by Neurosurgeons. The 11th Asian Congress of Neurological Surgeons (**ACNS**) 2016 in conjunction with The 21st Annual Scientific Meeting of Indonesian Society of Neurological Surgeons, Surabaya, Indonesia, Mar. 2016.
88. **Hyun SJ**: Whole spine alignment & Surgeon's perspective. The Korean Pain Physician Instructive Course, Seoul, Mar. 2016.
89. **Hyun SJ**: AIS Surgery. Winter Meeting of The Korean Spinal Neurosurgical Society 2016, Gangwon, Feb. 2016.
90. **Hyun SJ**: Modified PSO Technique. The 8th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan. 2016.
91. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Minimally invasive, robotic- vs. open fluoroscopic-guided spinal instrumented fusions – a randomized, controlled trial. The 18th Annual Meeting of **ISMISS Korea**, Seoul, Nov. 2015.
92. **Hyun SJ**: Pedicle Screw Fixation and Surgical Anatomy. Myanmar Orthopedic Association, Mandalay Orthopedic Hospital, Mandalay, Nov. 2015.
93. **Hyun SJ**: Posterior corpectomies and osteotomies in the upper thoracic spine. The 9th Severance Advanced Course in Degenerative Spine Surgery, Seoul, Nov. 2015.
94. **Hyun SJ**: Neurological Symptom and Sign. Medical Students Test Examinations. Faculty Lecture on Neurological Teaching Round, Seoul National University College of Medicine, Seoul, Nov. 2015.

95. **Hyun SJ**: Correlation of degenerative spinal imbalance with disc degeneration. The 8th Severance Advanced Course in Degenerative Spine Surgery, Seoul, 2015.
96. **Hyun SJ**: Posterior Cervical Fixation, C1-2. Stryker® Spine Session - A Hands-on cadaveric course, Seoul, Oct. 2015.
97. **Hyun SJ**: Use of Two/Three Column Osteotomies for Adult Deformity with Emphasis on the Sagittal Plane (Dr. Qui Yong) Discussion: 1st Response and Mediation. The 2nd **ASPAC Deformity Advisory Panel**, Beijing, China, Oct. 2015.
98. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Minimally invasive, robotic- vs. open fluoroscopic-guided spinal instrumented fusions – a randomized, controlled trial. The 29th Annual Meeting of Korean Spinal Neurosurgical Society (**KSNS**), Seoul, Sep. 2015.
99. **Hyun SJ**: Closing opening wedge osteotomy for fixed spinal deformity. The SNU Adult Spine Deformity Symposium, Seoul, Jul. 2015.
100. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Efficiency of lead aprons in blocking radiation – how protective are they?, 2015 Best Paper Award Nominated PAPER No.9 (**Whitecloud Award**), Annual Meeting of International Meeting on Advanced Spine Techniques (**IMAST**), Kuala Lumpur, Malaysia, July 8-11, 2015.
101. **Hyun SJ**, Lenke LG, Kim YJ, Bridwell KB: AIS Treated by PSSIF Caudal to L3 - When is fusion to L3 stable?, PAPER No.41, Annual Meeting of International Meeting on Advanced Spine Techniques (**IMAST**), Kuala Lumpur, Malaysia, July 8-11, 2015.
102. **Hyun SJ**: A postlaminoplasty kyphosis patient. The SNU Adult Spine Deformity Symposium, Seoul, Jul. 2015.
103. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Minimally invasive, robotic- vs. open fluoroscopic-guided spinal instrumented fusions – a randomized, controlled trial. The 14th Symposium of **KOMISS**, Seoul, May 2015.
104. **Hyun SJ**: Robotic Spinal Surgery. Company Conference of Medtronic Korea, Seoul, May 2015.
105. **Hyun SJ**: AIS Surgery by a Neurosurgeon. **KST** (Kyoto-Taiwan-Seoul National University) Friendship Conference, Kyoto, May 2015.
106. **Hyun SJ**: Clinical Experience of Bone Morphogenetic Protein in Spinal Fusion. Seoul National University Neurosurgery Update, Seoul, Mar. 2015.
107. **Hyun SJ**: SPO (Smith Peterson Osteotomy). **KOSASS** Symposium: Sagittal Balance Course, Seoul, Nov. 2014.
108. **Hyun SJ**: Neurological Symptom and Sign. Faculty Lecture on Neurological Teaching Round, Seoul National University College of Medicine, Seoul, Nov. 2014.
109. **Hyun SJ**: Renaissance Robot Surgery. The 7th Symposium of **KOMISS**, Seoul, May 2014.
110. **Hyun SJ**: Spinal deformity surgery after osteoporotic vertebral fracture. Bundang CHA University Hospital Spine Symposium, Bundang, Dec. 2013.
111. **Hyun SJ**, Riew KD, Rhim SC: Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 5 Year Follow-up Data. (FIRST AUTHOR, ORAL POSTER PRESENTER) 41st Annual Meeting of Cervical Spine Research Society

- (**CSRS**), LA, CA, 2013.
112. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Neuroprotective Effects of Sacral Epidural Neuromodulation Following Spinal Cord Injury: An Experimental Study in Rats. 2013 Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Nov. 2013.
 113. **Hyun SJ**: Spinopelvic fixation. Chung-Ang University Spine Companion Alumni Conference, Seoul, Nov. 2013.
 114. **Hyun SJ**, Lenke LG: Multiple Rods Augmentation for Spinal Reconstruction Surgery Using Three-Column Osteotomies in the Thoracic and Lumbar Spine: A Comparative Study with Minimum 2-Year Follow-up. 2013 Annual Meeting of **ASIA SPINE**, Seoul, Oct. 2013.
 115. **Hyun SJ**, Lenke LG: Multiple Rods Augmentation for Spinal Reconstruction Surgery Using Three-Column Osteotomies in the Thoracic and Lumbar Spine: A Comparative Study with Minimum 2-Year Follow-up. 2013 Annual Meeting of World Federation of Neurological Surgery (**WFNS**), Seoul, Sep. 2013.
 116. **Hyun SJ**, Riew KD, Rhim SC: Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 5 Year Follow-up Data. 2013 Annual Meeting of World Federation of Neurological Surgery (**WFNS**), Seoul, Sep. 2013.
 117. **Hyun SJ**: Minimally Invasive Spinal Deformity Surgery. 2013 Annual Meeting of World Federation of Neurological Surgery (**WFNS**), Seoul, Sep. 2013.
 118. **Hyun SJ**, Lenke LG: Long-Term Outcomes of A Central Hook-Rod Construct for Osteotomy Closure: Minimum 5-Year Follow-up Data. 20th Annual Meeting of International Meeting on Advanced Spine Techniques (**IMAST**) Vancouver, British Columbia, Canada, Jul. 2013.
 119. **Hyun SJ**, Lenke LG: Multiple Rods Augmentation for Spinal Reconstruction Surgery Using Three-Column Osteotomies in the Thoracic and Lumbar Spine: A Comparative Study with Minimum 2-Year Follow-up. 20th Annual Meeting of International Meeting on Advanced Spine Techniques (**IMAST**) Vancouver, British Columbia, Canada, Jul. 2013.
 120. **Hyun SJ**: AIS, DLK case presentation. The Deformity Case Conference, **KSDS**, Seoul, Jul. 2012.
 121. **Hyun SJ**: Introduction of Spinal Deformity. The SNU Adult Spine Deformity Symposium, Seoul, May 2012.
 122. **Hyun SJ**: Hemivertebrae, DLK case presentation. The Deformity Case Conference, **KSDS**, Seoul, Apr. 2012.
 123. **Hyun SJ**: Inadequate Fusion Level. The 4th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan. 2012.
 124. **Hyun SJ**: Various techniques for pedicle screw placement in the thoracic and lumbar spine. The 4th annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan. 2012.
 125. **Hyun SJ**: Proximal Junctional Kyphosis after Spinal Deformity Surgery: A case presentation. Seoul National University Spine Alumni Conference, Seoul, Jan. 2012.
 126. **Hyun SJ**: Genetic Association Studies for Lumbar Spinal Stenosis in the Korean Population. Chung-Ang University NS Alumni Conference, Seoul, Dec. 2011.

127. **Hyun SJ**: Surgical approaches in spine surgery. Faculty Lecture on Neurosurgical Teaching Round, Seoul National University Bundang Hospital, Dec. 2011.
128. **Hyun SJ**: 1. Pedicle screw placement in the thoracic and lumbar spine 2. Spinopelvic fixation using iliac wing screw 3. Various osteotomies (SPO, PSO and VCR). Faculty Lecture on Neurosurgical Teaching Round, Asan Medical Center Cadaver Workshop, Nov. 2011.
129. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: What is a reasonable surgical procedure for spinal extradural arachnoid cysts: Is cyst removal mandatory? Eight consecutive cases and a review of the literature. 2011 Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2011.
130. **Hyun SJ**, Kim KJ, Jeon SY, Jahng TA, Noh SW, Rhim SC, Kim HJ: Progression of Lumbar Spinal Stenosis is Influenced by Polymorphism of THSD2 Gene in the Korean Population. 2011 Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2011.
131. **Hyun SJ**: Genetic Association Studies for Lumbar Spinal Stenosis in the Korean Population. Faculty Lecture on Neurological Grand Round, Seoul National University Bundang Hospital, Oct. 2011.
132. **Hyun SJ**: Proximal Junctional Kyphosis after Spinal Deformity Surgery: A case presentation. Seoul National University Alumni Conference, Seoul, Sep. 2011.
133. **Hyun SJ**, Kim KJ, Jahng TA, Kim HJ: Total En Bloc Thoracic and Lumbar Spondylectomy of Non Small Cell Lung Cancer: Is It Merely Indicated for Solitary Spinal Metastasis?. The 4th Annual Meeting of Korean Spinal Oncology Society, Seoul, Aug. 2011.
134. **Hyun SJ**, Riew KD, Rhim SC: Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 5 Year Follow-up Data. 2011 Annual Meeting of Cervical Spine Research Society-Asian Pacific section (**CSRS-AP**), Japan, 2011
135. **Hyun SJ**, Riew KD, Rhim SC: A combined posterior, lateral, and anterior approach to ventrolaterally situated chordoma of the upper cervical spine. 2011 Annual Meeting of Cervical Spine Research Society-Asian Pacific section (**CSRS-AP**), Japan, 2011
136. **Hyun SJ**: Spine Navigation Overview. The 5th **Korean CSRS** meeting, Seoul, Jun. 2011.
137. **Hyun SJ**: The Time Course of Range of Motion Loss After Cervical Laminoplasty : A Prospective Study with Long-term Follow-up Data. The 5th **Korean CSRS** meeting, Seoul, Jun. 2011.
138. **Hyun SJ**: Spinal deformity: preoperative evaluation and corrective surgery. Faculty Lecture on Neurosurgical Grand Round, Seoul National University Bundang Hospital, Jun. 2011.
139. **Hyun SJ**: Intraoperative neurophysiologic monitoring in spine surgery. Faculty Lecture on IONM conference with neurology, Seoul National University Bundang Hospital, Jun. 2011.
140. **Hyun SJ**: The Time Course of Range of Motion Loss After Cervical Laminoplasty : A Prospective Study with Long-term Follow-up Data and Personal academic interests. **KST** (Kyoto-Taiwan-Seoul National University) Friendship Conference, Kyoto, Jun. 2011.

141. **Hyun SJ**, Kim KJ, Jahng TA, Rhim SC, Kim HJ: Progression of Lumbar Spinal Stenosis is Influenced by Polymorphism of THSD2 Gene in the Korean Population. 2011 Annual Meeting of Korean Spinal Neurosurgical Society (**KSNS**), Seoul, May 2011.
142. **Hyun SJ**: Thoracic pedicle screw placement using Freehand technique. Friendship conference with Johns-Hopkins University, Seoul, Mar. 2011.
143. **Hyun SJ**: Video Presentation for Posterior AIS Surgery. The 3rd Annual meeting of The Korean Spinal Deformity Society (**KSDS**), Seoul, Jan. 2011.
144. **Hyun SJ**, Kim KJ, Jeon SY, Jahng TA, Noh SW, Rhim SC, Kim HJ: A Haplotype at the COL9A2 Gene Locus Contributes to the Genetic Risk for Lumbar Spinal Stenosis in the Korean Population. 2010 Annual Meeting of **ASIA SPINE**, Seoul, Sep. 2010.
145. **Hyun SJ**, Kim KJ, Jeon SY, Jahng TA, Noh SW, Rhim SC, Kim HJ: Association Study of COL9A2 with Lumbar Spinal Stenosis in the Korean Population. 2010 Annual Meeting of **KSNS** Basic Research Society, Seoul, Jul. 2010.
146. **Hyun SJ**, Rhim SC: Repair of a Cerebrospinal Fluid Fistula using a Muscle Pedicle Flap: Technical Case Report on a Recurrent Cervical Chordoma Patient. The 4th **Korean CSRS** meeting, Seoul, Jul. 2010.
147. **Hyun SJ**: Spine anatomy. Faculty Lecture on Neurosurgical Teaching Round, Seoul National University Bundang Hospital, May 2010.
148. **Hyun SJ**: Intraoperative Neurophysiologic Monitoring from a Surgical Standpoint. Faculty Lecture on Neurological Grand Round, Seoul National University Bundang Hospital, Mar. 2010.
149. **Hyun SJ**, Riew KD, Rhim SC: The Time Course of Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 2 Year Follow-up. The 16th International Meeting on Advanced Spine Techniques (**IMAST**), Hofburg Congress Center, Jul., 2009.
150. **Hyun SJ**, Kim YJ, Rhim SC: Pedicle screw placement in the thoracolumbar spine using a novel, simple, safe, and effective guide-pin: a computerized tomography analysis. The Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2008.
151. **Hyun SJ**, Kim YJ, Rhim SC: Clinical and Radiological Outcomes After Pedicle Subtraction Osteotomy For Fixed Sagittal Imbalance: Minimum 2 Years Follow-up. The Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2008.
152. **Hyun SJ**, Rhim SC: Combined Motor and Somatosensory Evoked Potentials Monitoring for Spinal Surgery: Correlation of Clinical and Neurophysiological Data in a Series of 97 Consecutive Procedures. The Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2008.
153. **Hyun SJ**, Riew KD, Rhim SC: The Time Course of Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 2 Year Follow-up. The Annual Meeting of Korean Spinal Neurosurgical Society (**KSNS**), Seoul, Sep. 2008.
154. **Hyun SJ**, Ra YS, Rhim SC: Spontaneous Fistula Between a Posterior Pharyngeal Wall and Ventral Dura: A Late Complication of Radiation Therapy For Recurrent Chordoma. The Annual Meeting of Seoul Gyeonggi Incheon Regional Society, Seoul, Aug. 2008.

155. **Hyun SJ**, Kim YB: Predictable Risk Factors for Adjacent Segment Degeneration After Lumbar Fusion. The Annual Meeting of Korean Neurosurgical Society (**KNS**), Seoul, Oct. 2006.
156. **Hyun SJ**, Kim YB: Postoperative Changes in Paraspinal Muscle Volume : Comparison of Paramedian Interfascial Approach and Midline Approach for lumbar Fusion. The Annual Meeting of Korean Spinal Neurosurgical Society (**KSNS**), Seoul, Sep. 2006.

POSTER PRESENTATION

1. **Hyun SJ**: Bicortical screw purchase at UIV can cause UIV fracture after adult spinal deformity surgery: Finite element analysis study, **AOSPINE Korean Spine Congress**, Seoul, Korea, Jul. 7th 2018.
2. **Hyun SJ**: Consideration of Rods Material Property to Optimize Outcomes After Spinal Instrumented Fusion, **AOSPINE Korean Spine Congress**, Seoul, Korea, Jul. 7th 2018.
3. **Hyun SJ**: Efficiency of lead aprons in blocking radiation – how protective are they?, **AOSPINE Korean Spine Congress**, Seoul, Korea, Jul. 7th 2018.
4. Han S, **Hyun SJ**, Park JH: Clinical Impact of T1 Slope Minus Cervical Lordosis Following Multilevel Posterior Cervical Fusion Surgery: Long-term Follow-Up Data (E-Poster No. 275) The 52nd **SRS Annual Meeting**, Philadelphia, Pennsylvania (PA), US, 2017.
5. **Hyun SJ**: Bicortical screw fixation at upper instrumented vertebra. Is it a risk factor of the UIV fracture? (E-Poster No. 275) The 51st **SRS Annual Meeting**, Prague, Czech Republic, 2016.
6. **Hyun SJ**, Lenke LG, Kim YJ, Bridwell KB: Comparative study of Adolescent Idiopathic Scoliosis Treated by Spinal Fusion to L3: Is there a difference in radiographic and clinical outcome between anterior- and posterior spinal fusion? (E-Poster No. 43) The 29th Annual Meeting of **KSNS**, Seoul, Sep. 2015.
7. **Hyun SJ**, Riew KD, Rhim SC: Long-Term Outcomes of A Central Hook-Rod Construct for Osteotomy Closure: Minimum 5-Year Follow-up Data. 2013 Annual Meeting of World Federation of Neurological Surgery (**WFNS**), Seoul, Sep. 2013.
8. **Hyun SJ**, Riew KD, Rhim SC: The Serial of Range of Motion Loss After Cervical Laminoplasty: A Prospective Study with Minimum 2 Year Follow-up. Congress of Neurological Surgeons (**CNS**), 2008 annual meeting, Orlando, FL, 2008.

BOOK CHAPTERS

1. **Hyun SJ**, Rhim SC: Chapter 21. Overview of Spinal Deformity. *The Textbook of Spine*. 3rd Eds: The Korean Spinal Neurosurgery Society, Koonja, 2018.
2. **Hyun SJ**, Kim KJ: Chapter 13. Thoracoabdominal anterior approach. *The Textbook of Spine*. 3rd Eds: The Korean Spinal Neurosurgery Society, Koonja, 2018.
3. **Hyun SJ**: Section editor. Section 9, Spinal Disorders. *Textbook of Pediatric Neurosurgery*. 2nd Eds: The Korean Society of Pediatric Neurosurgery, Korean Medical Book, 2018.
4. **Hyun SJ**: Chapter 57. Congenital and Pediatric Spinal Deformities. *Textbook of Pediatric*

- Neurosurgery. 2nd Eds: The Korean Society of Pediatric Neurosurgery, Korean Medical Book, 2018.
5. **Hyun SJ**, Rhim SC: Chapter 22. Overview of Spinal Deformity. The Textbook of Spine. 2nd Eds: The Korean Spinal Neurosurgery Society, Koonja, 2013.
 6. **Hyun SJ**, Yoon SH, Kim KJ, Kim HJ: Chapter 33. Adult Spinal Intramedullary Ependymomas: Complete Resection. Tumors of the Central Nervous System. Eds: M. A. Hayat, Springer Science, 2013.
 7. **Hyun SJ**, Kim KJ, Kim HJ: Chapter 12. Anterior Surgical Approach for Ossification of the Posterior Longitudinal ligament in the Cervical Spine. Ossification of the posterior longitudinal ligament. Eds: Hyun-Jib Kim and Chun Kee Jung, Panmun, 2013.
 8. **Hyun SJ**, Kim HJ: Chapter 4-3. Vascular Disease of Spinal Cord. Neurosurgery. Eds: The Korean Neurosurgery Society, Joongang copy, 2012.
 9. **Hyun SJ**: Chapter 3-3. Lumbar spinal disorders. Chapter 3. Benign spinal disorders. Practical points in spine surgery. Eds: Hyun-Jib Kim, Panmun, 2012.
 10. Kim WH, **Hyun SJ**: Chapter 4-6. Vascular disease. Chapter 4. Spinal tumor and vascular disease. Practical points in spine surgery. Eds: Hyun-Jib Kim, Panmun, 2012.
 11. **Hyun SJ**: Chapter 5-1. Compression fracture. Chapter 5. Traumatic spinal disorders. Practical points in spine surgery. Eds: Hyun-Jib Kim, Panmun, 2012.
 12. **Hyun SJ**: Chapter 5-2. Surgical treatment of traumatic spine. Chapter 5. Traumatic spinal disorders. Practical points in spine surgery. Eds: Hyun-Jib Kim, Panmun, 2012.
 13. Roh SW, **Hyun SJ**: Chapter 25. Mini-open Posterior Lumbar Interbody Fusion with an Expandable Cage: Minimally invasive spine surgery. Eds: The Korean Spinal Neurosurgery Society, Koonja, 2012.
 14. **Hyun SJ**, Rhim SC: Chapter 21. Overview of Spinal Deformity. The Textbook of Spine. 1st Eds: The Korean Spinal Neurosurgery Society, Koonja, 2008.
 15. **Hyun SJ**, Hong SC: Hemispherectomy in Textbook of Stereotactic and Functional Neurosurgery. Eds: Korean Stereotactic and Functional Neurosurgery Society, Ivy, pp185-189, 2010.