

## **Curriculum vitae**

### **PERSONAL DETAILS**

Name : Kyung-Soo Suk, MD, PhD

Citizenship : KOREA

Current Position            Professor and Chairman  
                                  Department of Orthopaedic Surgery  
                                  Gangnam Severance Hospital  
                                  Yonsei University College of Medicine  
                                  Seoul, Korea

Medical director of Gangnam Severance Spine Hospital

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## **EDUCATIONAL BACKGROUND**

Mar 1980 - Feb 1983 : Kyungbok high school, Seoul

Mar 1983 - Feb 1986 : Premedical school  
Yonsei University, Seoul

Mar 1986 - Feb 1990 : M.D. degree  
Yonsei University College of Medicine, Seoul

Mar 1993 - Feb 1995 : M.S. degree  
Yonsei University the Graduate School, Seoul

Sep 1998 – Feb 2002 : D.M.Sc. degree course (PhD)  
Yonsei University the Graduate School, Seoul

## **POST-GRADUATE TRAINING**

Mar 1990 - Feb 1991 : Rotating Internship, Severance Hospital  
Yonsei University College of Medicine, Seoul

Mar 1991 - Feb 1994 : Resident  
Department of Orthopaedic Surgery  
Severance Hospital  
Yonsei University College of Medicine, Seoul

Mar 1994 - Feb 1995 : Chief Resident  
Department of Orthopaedic Surgery  
Severance Hospital  
Yonsei University College of Medicine, Seoul

Mar 1998-Feb 2000 : Research instructor and Spine Fellow  
Department of Orthopaedic Surgery  
Severance Hospital  
Yonsei University College of Medicine, Seoul

May 2000-Apr 2001 : Clinical and Research Fellow (John P Kostuik)  
Division of Spine  
Department of Orthopaedic Surgery  
The Johns Hopkins Medical Institute  
Johns Hopkins Medical School  
Baltimore, MD

### **MILITARY SERVICE**

May 1995 - Apr 1996 : Captain, and Orthopaedic Surgeon  
R.O.K. Duk-Jung Hospital

May 1996 - Apr 1998 : Captain, Orthopaedic Surgeon, and Chairman  
Department of Orthopaedic Surgery  
R.O.K. Seoul District Hospital

### **PROFESSIONAL AFFILIATIONS**

May 1998 – Feb 2000 : Research Instructor  
Department of Orthopaedic Surgery  
Yonsei University College of Medicine, Seoul

May 1998 - Feb 2000 : Spine Fellow  
Department of Orthopaedic Surgery  
Severance Hospital  
Yonsei University College of Medicine, Seoul

Mar 2000 – Feb 2003 : Full time Instructor, Orthopaedic & Spine Surgeon  
Department of Orthopaedic Surgery  
Kyung Hee University College of Medicine, Seoul

Mar 2003 –2005 : Assistant professor, Orthopaedic & Spine Surgeon  
Department of Orthopaedic Surgery  
Kyung Hee University College of Medicine, Seoul

- Mar 2006- 2009 : Associate professor, Orthopaedic & Spine Surgeon  
Chief of Spine Division  
Department of Orthopaedic Surgery  
Kyung Hee University Hospital  
Kyung Hee University College of Medicine, Seoul
- Mar 2009- 2013: Professor, Orthopaedic & Spine Surgeon  
Chief of Spine Division  
Department of Orthopaedic Surgery  
Kyung Hee University Hospital  
Kyung Hee University College of Medicine, Seoul
- Mar 2014- Present Professor, Chairman  
Department of Orthopaedic Spine  
Department of Orthopaedic Surgeon  
Gangnam Severance Hospital  
Yonsei University College of Medicine  
Seoul, Korea
- 2018-Present Medical director of Gangnam Severance Spine Hospital

## **MEMBERSHIP AND CERTIFICATES**

Member of Korean Medical Association (1990), Doctor

Member of Korean Orthopaedic Association (1995), Orthopaedic Surgeon

Member of Korean Society of Spine Surgery (1999), Spine Surgeon

Member of SICOT (2000)

Member of Korean Orthopaedic Research Society

Founding Member of Cervical Spine Research Society-Asia Pacific section  
Chairman of research committee (2009-2018), Board member of CSRS-AP

Associate member of North American Spine Society

Associate member of Cervical Spine Research Society

Member of Spine Arthroplasty Society

Member of AO Spine, Research council of AO spine Korea

Member of Korean Spine Arthroplasty Society

### **Committee member in academic society**

Chairman elect board member of Korean Orthopaedic Association (KOA)

Editor of Clinics in Orthopaedic Surgery

Committee member and Secretary of Academic Committee of KSSS(2013-2015)

Committee member of Cervical Spine Research Committee of KSSS

Committee member of Examination Preparatory Committee of KOA

Board member and research chairman of Cervical Spine Research Society – Asia Pacific section

Board member of Korean Spine Arthroplasty Society

Research council of AO spine Korea 2014-2016, 2018-2020

Secretary General of Korean Society of Spine Surgeon (KSSS) 2015-2017

Secretary General of Cervical Spine Research Society – Asia Pacific section (CSRS-AP 2016 meeting)

Past President, CSRS-AP 2019-2021

Chairman of Academic and Medical Ethics Committee of KSSS 2019-2023

Board member of KSSS

Board member of Korean Cervical Spine Research Society

President of Korean Research Society of Cervical Spine

### **Awards**

Academic award from Manre foundation, Korean Orthopaedic Association, 1999.

Academic award from Korean society of spine surgery, May 24, 2002

Academic award from SICOT 93 Seoul, Oct 18, 2002

Academic award from SICOT 93 Seoul, Oct 18, 2003

Best science award from PASMIS, 2004.

Academic award from Korean society of spine surgery, 2005

Academic award from Korean society of spine surgery, 2006

Academic award from Korean Orthopaedic Association, 2014

Best paper award from Cervical Spine Research Society Asia pacific section, 2018

## **PUBLICATIONS**

1. Park BM, Choi CH and Suk KS : Herniated intervertebral disc of lumbar spine in adolescent. J. Kor. Orthop. Asso., 28(5):1582-1587, 1993.
2. Kim SJ and Suk KS : Clinical and arthroscopic findings of chronic anterior cruciate ligament injury. J. Kor. Knee Soc., 5(2):145-149, 1993.
3. Kim NH and Suk KS : The role of transitional vertebrae in spondylolysis and spondylolytic spondylolisthesis. J. Kor. Orthop. Asso., 30(2):286-290, 1995.
4. Kim NH and Suk KS : The role of transitional vertebrae in spondylolysis and spondylolytic spondylolisthesis. Bulletin Hospital for Joint Disease 56(3):161-166, 1997.
5. Kim NH, Lee HM and Suk KS : Usefulness of posterolateral fusion of lumbar spine with allogeneic bone graft (Tutoplast). J. Kor. Soc Spine Surg. 5(2):198-204, 1998.
6. Suk KS, Kim NH, Lee HM, and Kang YH : Effect of obesity on the outcome of lumbar spine surgery. J. Kor. Soc Spine Surg. 5(2):193-197, 1998.
7. Suk KS, Lee HM, Kim NH, Park MC : Lumbar spinal fusion with pedicle screw

fixation in the elderly patients. J. Kor. Soc Spine Surg. 6(1):123-128, 1999.

8. Kim NH, Suk KS : Clinical and radiological differences between traumatic and idiopathic coccygodynia. Yonsei Medical Journal 40(3):215-220, 1999.

9. Suk KS, Lee HM, Kim NH, Ha JW, Che JH : Unilateral versus bilateral pedicle screw fixation in lumbar spinal fusion. J. Kor. Orthop. Asso. 34(5):943-948, 1999.

10. Suk KS, Jeon CH, Lee HM, Kim NH, Lim HC : Comparison between posterolateral fusion with pedicle screw fixation and anterior interbody fusion with pedicle screw fixation in spondylytic spondylolisthesis of the lumbar spine. J. Kor. Soc Spine Surg, 6(3):397-405, 1999.

11. Kim HS, Suk KS, Kim NH, Kim KD, Lee HM : Fibrous mass complicating epidural steroid and local anesthetic injection. J. Kor.Soc Spine Surg, 6(3):464-468, 1999.

12. Hahn SB, Suk KS : In vitro and in vivo induction of osteogenesis in cultured mesenchymal stem cell isolated from rat bone marrow. J Korean Orthop Res Soc 2(2):102-110, 1999.

13. Suk KS, Lee HM, Moon SH, Kim DJ, Wang JM, Kim NH, Park YS : Deep vein thrombosis after major spinal surgery –Incidence in a Korean population. J. Kor. Orthop. Asso 35(2):199-204, 2000.

14. Lee HM, Kim HS, Kim DJ, Suk KS, Kim NH, Park SY : Reliability of MRI to detect posterior ligament complex injury in thoracolumbar spinal fractures. . Kor.Soc Spine Surg, 7(1):70-76, 2000.

15. Suk KS, Lee HM, Kim NH, Ha JW : Unilateral versus bilateral pedicle screw fixation in lumbar spinal fusion. Spine 25(14):1843-1847, 2000.

16. Lee HM, Suk KS, Moon SH, Kim DJ, Wang JM, Kim NH : Deep vein thrombosis after major spinal surgery - Incidence in an East Asian Population -. Spine 25(14):1827-1830, 2000.

17. Lee HM, Kim HS, Kim DJ, Suk KS, Park JO, Kim NH : Reliability of MRI to detect posterior ligament complex injury in thoracolumbar spinal fractures. Spine 25(16):2079-2083, 2000.

18. Suk KS, Jeon CH, Park MS, Lee HM, Moon SH, Kim NH: Comparison between posterolateral fusion with pedicle screw fixation and anterior interbody fusion with pedicle screw fixation in spondylolytic spondylolisthesis. Yonsei Medical Journal 42(3):316-323, 2001.

19. Suk KS, Lee HM, Moon SH, Kim NH: Recurrent lumbar disc herniation - results of operative treatment. Spine 26(6):672-676, 2001.

20. Suk KS, Lee HM, Moon SH, Kim NH: Lumbosacral scoliotic list by lumbar disc herniation. Spine 26(6):667-671, 2001.

21. Park MS, Suk KS, Shin KH, Han CD, Hahn SB, Kang ES: Limb salvage with low heat-treated autobone and conventional prosthesis. J Kor Musculoskeletal Tissue Transplantation Society 1(1):64-72, 2001.

22. Kim KT, Suk KS, Kim JM: Surgical treatment of Kummel's disease with neurological deficits. J. Kor. Soc Spine Surg 8(2):136-142, 2001.

23. Kim KT, Suk KS, Kim JM, Park KC: Root injury after percutaneous vertebroplasty in compression fracture. J. Kor. Soc Spine Surg 8(2):181-185, 2001.

24. Kim KT, Suk KS, Kim JM, Shin DJ, Shin NC: Results of the posterolateral fusion using a pedicle screw for the spondylolisthesis. J. Kor. Orthop. Asso 36(2):167-172, 2001.

25. Kim KT, Suk KS, Kim JM: Future development of interbody fusion cage. J. Kor. Soc Spine Surg 8(3):386-391, 2001.

26. Kim KT, Suk KS, Cho YJ, Hong KP, Park BJ: Clinical outcome results of pedicle subtraction osteotomy in ankylosing spondylitis with kyphotic deformity. Spine 27(6):612-618, 2002.



27. Suk KS, Shin KH, Hahn SB: Limb salvage using original low heat-treated tumor-bearing bone. Clin Orthop 397:385-93, 2002.
28. Suk KS, Kim KT, Lee SH, Ryu KN: Measurement of lateral mass of cervical spine using MRI for lateral mass screw fixation. J Kor Soc Spine Surg 9(2):121-126, 2002.
29. Suk KS, Kim KT, Kim JM, Chung KH: Significance of chin-brow vertical angle in correction of kyphotic deformity of ankylosing spondylitis patients. J Kor Soc Spine Surg 9(2):115-120, 2002.
30. Moon SH, Park MS, Suk KS, Suh JS, Lee SH, Kim NH, Lee HM: Feasibility of ultrasound examination in posterior ligament complex injury of thoracolumbar spine fracture. Spine 27(19):2154-2158, 2002.
31. Suk KS, Kim KT, Lee SH: C1-2 transarticular screw fixation as a revision surgery for failed C1-2 fusion. J Kor Soc Spine Surg 9(3):251-6, 2002.
32. Suk KS, Kim KT, Lee SH: Cervical myelopathy due to ossification of yellow ligament in a patient with Reiter's syndrome. J Kor Soc Spine Surg 9(4):374-9, 2002.
33. Kim KT, Suk KS, Kim JM, Lee SH: Surgical treatment of delayed vertebral collapse with neurological deficit secondary to osteoporotic spine fracture-posterolateral decompression and posterior reconstruction. Int Orthop 27:65-9, 2003.
34. Suk KS, Kim KT, Lee SH, Kim JM: Significance of chin-brow vertical angle in correction of kyphotic deformity of ankylosing spondylitis patients. Spine 28(17):2001-5, 2003.
35. Suk KS, Kim KT, Lee YH, Ryu KN: Measurements of C1-2 region of cervical spine using MRI for C1-2 transarticular screw fixation. J Kor Spine Surg 10(2):69-74, 2003.

36. Kim KT, Suk KS, Lee YH, Kim YH, Lee SH: The posterior decompression and posterior lumbar interbody fusion using a mini-open technique. J Kor Orthop Ass 38(5):492-7, 2003.
37. Buchowski JM,, Kebaish KM, Ahn NU, Suk KS, Kostuik JP.: Odontoid fracture in a 50-year-old patient. Orthopedics. 26(10):1061-3, 2003.
38. Kim KT, Han CS, Suk KS, Lee YH, Lee SH: Total en bloc Spondylectomy for Solitary Metastatic Spinal Tumor. J Korean Soc Spine Surg. 10(4):303-310, 2003.
39. Kim KT, Suk KS, Lee SH, Kim JM.: Revision Arthrodesis After Lumbar Fusion in Degenerative Lumbar Disease. J Korean Orthop Assoc.;38(7):659-664. Korean, 2003.
40. Suk KS, Kim KT, Bae SC, Chung BO: Prevertebral Soft Tissue Swelling After Anterior Cervical Discectomy and Fusion. J Korean Soc Spine Surg. 11(3):168-173, 2004.
41. Kim KT, Suk KS, Lee SH, Bae SC: The Treatment of Spinal Pseudarthrosis in Ankylosing Spondylitis. J Korean Orthop Assoc.;40(3):312-320, 2005.
42. Suk KS, Kim KT, Lee SH, Lim YJ, Lee KW: Changes of Range of Motion and Sagittal Alignment of the Cervical Spine after Laminoplasty. J Korean Soc Spine Surg. 12(4):247-254, 2005
43. Buchowski JM, Kebaish KM, Suk KS, Kostuik JP: Central cord syndrome after total hip arthroplasty: a patient report. Spine. 30(4):E103-5, 2005.
44. Park SY, Ryu KN, Park JS, Suk KS, Han MY: Unilateral Fusion of the Odontoid Process with the Atlas in Klippel-Feil syndrome: A Case Report. J Korean Radiol Soc. 55(1):39-42, 2006.
45. Suk KS, Kim KT, Lee JH, Lee SH, Park SW: Gouty Spondyloarthropathy in the Lumbar Spine Mimicking Pyogenic Discitis : A Case Report. J Korean Orthop Assoc.;41(4):756-760, 2006.

46. Kim KT, Lee SH, Suk KS, Bae SC: The quantitative analysis of tissue injury markers after mini-open lumbar fusion. *Spine.*;31(6):712-6, 2006.
47. Kim KT, Lee SH, Lee YH, Bae SC, Suk KS: Clinical outcomes of 3 fusion methods through the posterior approach in the lumbar spine. *Spine.* 31(12):1351-7; discussion 1358, 2006.
48. Kim KT, Lee SH, Suk KS, Lee JH, Seo EM, Jeong BO: Spontaneous Vertebral Column Dislocation in Neurofibromatosis: A Case Report. *J Korean Orthop Assoc.* 42(6):822-827, 2007.
49. Suk KS, Kim KT, Lee SH, Park SW, Park YK.: Tophaceous gout of the lumbar spine mimicking pyogenic discitis. *Spine J* 7(1):94-9, 2007.
50. Kim KT, Lee SH, Suk KS, Lee JH, Im YJ: Spinal pseudarthrosis in advanced ankylosing spondylitis with sagittal plane deformity: clinical characteristics and outcome analysis. *Spine.* 32(15):1641-7, 2007.
51. Lee SH, Kim KT, Jeong BO, Seo EM, Suk KS, Lee JH, Lee GK: The safety zone of percutaneous cervical approach: a dynamic computed tomographic study. *Spine.* 32(20):E569-74, 2007.
52. Suk KS, Kim KT, Lee JH, Lee SH, Lim YJ, Kim JS: Sagittal alignment of the cervical spine after the laminoplasty. *Spine* 32(23):E656-60, 2007.
53. Kim JS, Kim KT, Suk KS, Lee JH, Lee SH, Eoh JH: Fusion of Pedicular Cleft Using Pedicle Screw Fixation: A Case Report. *J Korean Soc Spine Surg.* 15(2):106-110, 2008.
54. Kim JS, Suk KS, Kim KT, Lee JH, Lee SH: Compressive-Extension Stage 4 Injury in Cervical Spine is Theoretical Stage?: Case Reports. *J Korean Orthop Assoc.*;43(3):385-390, 2008.
55. Lee SH, Kim KT, Seo EM, Suk KS, Kwack YH, Son ES. The Influence of Thoracic Inlet Alignment on the Craniocervical Sagittal Balance in Asymptomatic Adults. *J Spinal Disord Tech.* 2011 Oct 26.

56. Lee SH, Kim KT, Suk KS, Park KJ, Oh KI. Effect of Retropharyngeal Steroid on Prevertebral Soft Tissue Swelling Following Anterior Cervical Discectomy and Fusion; A Prospective, Randomized Study. *Spine (Phila Pa 1976)*. 2011 Oct 20
57. Lee SH, Kim KT, Abumi K, Suk KS, Lee JH, Park KJ. Cervical Pedicle Screw Placement Using the "Key Slot Technique": The Feasibility and Learning Curve. *J Spinal Disord Tech*. 2011 Sep 28.
58. Lee SH, Kim KT, Suk KS, Lee JH, Son ES, Kwack YH, Oh HS. Assessment of Pedicle Perforation by the Cervical Pedicle Screw Placement using Plain Radiographs: A Comparison with Computed Tomography.. *Spine (Phila Pa 1976)*. 2011 Jun 2.
59. Lee SH, Kim KT, Suk KS, Lee JH, Seo EM, Huh DS. Sagittal decompensation after corrective osteotomy for lumbar degenerative kyphosis: classification and risk factors. *Spine (Phila Pa 1976)*. 2011 Apr 15;36(8):E538-44.
60. Lee JH, Kim KT, Suk KS, Lee SH, Jeong BO, Kim JS, Eoh JH, Kim YJ. Analysis of spinopelvic parameters in lumbar degenerative kyphosis: correlation with spinal stenosis and spondylolisthesis. *Spine (Phila Pa 1976)*. 2010 Nov 15;35(24):E1386-91.
61. Lee SH, Kim KT, Suk KS, Lee JH, Shin JH, So DH, Kwack YH. Asymptomatic cervical cord compression in lumbar spinal stenosis patients: a whole spine magnetic resonance imaging study. *Spine (Phila Pa 1976)*. 2010 Nov 1;35(23):2057-63.
62. Lee SH, Jin W, Kim KT, Suk KS, Lee JH, Seo GW. Trajectory of transsacral iliac screw for lumbopelvic fixation: a 3-dimensional computed tomography study. *J Spinal Disord Tech*. 2011 May;24(3):151-6.

63. Kim KT, Lee SH, Suk KS, Lee JH, Jeong BO. Biomechanical changes of the lumbar segment after total disc replacement : charite(r), prodisc(r) and maverick(r) using finite element model study.  
J Korean Neurosurg Soc. 2010 Jun;47(6):446-53.
64. Kong CB, Jeon DW, Chang BS, Lee JH, Suk KS, Park JB.  
Outcome of spinal fusion for lumbar degenerative disease: a cross-sectional study in Korea. Spine (Phila Pa 1976). 2010 Jul 1;35(15):1489-94.
65. Suk KS, Kim KT, Lee JH, Lee SH, Kim JS, Eoh JH. Stage 4 compressive-extension injury of the cervical spine: a theoretical stage?  
Spine (Phila Pa 1976). 2010 Jul 1;35(15):E733-8.
66. Suk KS, Kim KT, Lee JH, Lee SH, Kim JS, Kim JY. Reevaluation of the Pavlov ratio in patients with cervical myelopathy.  
Clin Orthop Surg. 2009 Mar;1(1):6-10.
67. Lee JH, Kim KT, Suk KS, Lee SH, Jeong BO.  
Avascular necrosis of the spine in solid posterior fusion segments.  
Spine (Phila Pa 1976). 2009 Feb 15;34(4):E158-61.
68. Chong HS, Padua MR, Kim JS, Lee HM, Moon SH, Suk KS, Hak Sun K.  
Usefulness of Noninvasive Positive-Pressure Ventilation during Surgery of Flaccid Neuromuscular Scoliosis. J Spinal Disord Tech. 2015 Jan 29.
69. Kim HS, Suk KS, Moon SH, Lee HM, Kang KC, Lee SH, Kim JS.  
Safety evaluation of freehand lateral mass screw fixation in the subaxial cervical spine: evaluation of 1256 screws. Spine (Phila Pa 1976). 2015 Jan 1;40(1):2-5.
70. Suk KS, Lee HM, Moon SH, Kim HJ, Kim HS, Park JO, Lee BH.  
At least one cyclic teriparatide administration can be helpful to delay initial onset of a new osteoporotic vertebral compression fracture.  
Yonsei Med J. 2014 Nov;55(6):1576-83.

71. Suk KS, Baek JH, Park JO, Kim HS, Lee HM, Kwon JW, Moon SH, Lee BH. Postoperative quality of life in patients with progressive neuromuscular scoliosis and their parents. *Spine J.* 2015 Mar 1;15(3):446-53.

72. Kang YM, Suk KS, Lee BH, Kim HS, Lee KI, Park SY, Lee HM, Moon SH. Herniated intervertebral disk induces hypertrophy and ossification of ligamentum flavum. *J Spinal Disord Tech.* 2014 Oct;27(7):382-9.

73. Lee SH, Park DH, Kim MH, Huh DS, Kang KC, Lee JH, Suk KS, Kim KT. Assessment of the C1 Lateral Mass Screw Trajectory and Position using Plain Radiographs: A Comparison with Computed Tomography. *J Spinal Disord Tech.* 2014 Jun 5. [Epub ahead of print]

74. Suk KS, Lee BH, Lee HM, Moon SH, Choi YC, Shin DE, Ha JW, Song KM, Kim HS. Functional outcomes in Duchenne muscular dystrophy scoliosis: comparison of the differences between surgical and nonsurgical treatment. *J Bone Joint Surg Am.* 2014 Mar 5;96(5):409-15.

75. Park KH, Cho OH, Jung M, Suk KS, Lee JH, Park JS, Ryu KN, Kim SH, Lee SO, Choi SH, Bae IG, Kim YS, Woo JH, Lee MS. Clinical characteristics and outcomes of hematogenous vertebral osteomyelitis caused by gram-negative bacteria. *J Infect.* 2014 Jul;69(1):42-50.

76. Kang YM, Choi YR, Yun CO, Park JO, Suk KS, Kim HS, Park MS, Lee BH, Lee HM, Moon SH. Down-regulation of collagen synthesis and matrix metalloproteinase expression in myofibroblasts from Dupuytren nodule using adenovirus-mediated relaxin gene therapy. *J Orthop Res.* 2014 Apr;32(4):515-23.

77. Lee SH, Son ES, Seo EM, Suk KS, Kim KT. Factors determining cervical spine sagittal balance in asymptomatic adults: correlation with spinopelvic balance and thoracic inlet alignment. *Spine J.* 2015 Apr 1;15(4):705-12.

78. Lee BH, Park JO, Suk KS, Kim TH, Lee HM, Park MS, Lee SH, Park S, Lee JY, Ko SK, Moon SH. Pre-emptive and multi-modal perioperative pain

management may improve quality of life in patients undergoing spinal surgery. *Pain Physician*. 2013 May-Jun;16(3):E217-26.

79. Lee JH, Kim KT, Suk KS, Lee SH, Jeong BO, Oh HS, Lee CH, Kim MS. Extradural cyst causing spinal cord compression in osteoporotic compression fracture. *J Neurosurg Spine*. 2013 Jul;19(1):133-7.

80. Kim KT, Park DH, Lee SH, Suk KS, Lee JH, Park KJ. Partial pedicle subtraction osteotomy as an alternative option for spinal sagittal deformity correction. *Spine (Phila Pa 1976)*. 2013 Jun 15;38(14):1238-43.

81. Lee SH, Kim KT, Suk KS, Kim MH, Park DH, Kim KJ. A sterile-freehand reduction technique for corrective osteotomy of fixed cervical kyphosis. *Spine (Phila Pa 1976)*. 2012 Dec 15;37(26):2145-50.

82. Kim KT, Lee SH, Suk KS, Lee JH, Jeong BO. Outcome of pedicle subtraction osteotomies for fixed sagittal imbalance of multiple etiologies: a retrospective review of 140 patients. *Spine (Phila Pa 1976)*. 2012 Sep 1;37(19):1667-75.

83. Lee SH, Kim KT, Seo EM, Suk KS, Kwack YH, Son ES. The influence of thoracic inlet alignment on the craniocervical sagittal balance in asymptomatic adults. *J Spinal Disord Tech*. 2012 Apr;25(2):E41-7.

84. Clinical Outcome and Changes of Foraminal Dimension in Patients With Foraminal Stenosis After ACDF.

Suk KS, Lee SH, Park SY, Kim HS, Moon SH, Lee HM. *J Spinal Disord Tech*. 2015 Oct;28(8):E449-53.

85. Growing rod technique for the treatment of the traumatic spinopelvic dissociation: a technical trick.

Chung HY, Suk KS, Lee HM, Kim HS, Jung WC, Moon SH, Lee BH. *Spine J*. 2016 Mar;16(3):e209-14.

86. Outcomes and Related Factors of C5 Palsy Following Cervical Laminectomy With Instrumented Fusion Compared With Laminoplasty.

Lee SH, **Suk KS**, Kang KC, Cho SW, Juh HS, Lee JH, Kim KT.  
Spine (Phila Pa 1976). 2016 May;41(10):E574-9..

87. Relationship between Bone Mineral Density and Spinal Muscle Area in Magnetic Resonance Imaging.

Lee DY, Yang JH, Ki CH, Ko MS, Suk KS, Kim HS, Lee HM, Moon SH.  
J Bone Metab. 2015 Nov;22(4):197-204.

88. TO THE EDITOR. In Response to Letter to The Editor: Re: Kim HS, Suk KS, Moon SH, et al. Safety Evaluation of freehand Lateral Mass Screw Fixation in the Sub Axial Cervical Spine: Evaluation of 1256 Screws. Spine (Phila Pa 1976)2015;40:2-5.

Suk KS.

Spine (Phila Pa 1976). 2016 Mar;41(6):E380-1

89. Assessment of the C1 Lateral Mass Screw Trajectory and Position Using Plain Radiographs: A Comparison With Computed Tomography.

Lee SH, Park DH, Kim MH, Huh DS, Kang KC, Lee JH, Suk KS, Kim KT.  
Clin Spine Surg. 2016 Apr;29(3):E112-9..

90. Comparative study of the efficacy of limaprost and pregabalin as single agents and in combination for the treatment of lumbar spinal stenosis: a prospective, double-blind, randomized controlled non-inferiority trial.

Kim HJ, Kim JH, Park YS, Suk KS, Lee JH, Park MS, Moon SH.  
Spine J. 2016 Jun;16(6):756-63.

91. Spinal sagittal balance status affects postoperative actual falls and quality of life after decompression and fusion in-situ surgery in patients with lumbar spinal stenosis.

Lee BH, Park JO, Kim HS, Suk KS, Lee SY, Lee HM, Yang JH, Moon SH.  
Clin Neurol Neurosurg. 2016 Sep;148:52-9.

92. Agreement on the Level Selection in Laminoplasty among Experienced Surgeons: A Survey-Based Study.

Cho JH, Suk KS, Park JB, Ha JK, Hwang CJ, Lee CS, Lee DH.  
Asian Spine J. 2016 Aug;10(4):663-70.



93. Revision surgeries following artificial disc replacement of cervical spine.  
Park JB, Chang H, Yeom JS, Suk KS, Lee DH, Lee JC.  
*Acta Orthop Traumatol Turc.* 2016 Dec;50(6):610-618.
94. Odontoid osteomyelitis with atlantoaxial subluxation in an infant.  
Park H, Byeon HK, Kim HS, Hong JJ, Suk KS.  
*Eur Spine J.* 2017 May;26(Suppl 1):136-140.
95. Preoperative Risk Factors of C5 Nerve Root Palsy After Laminectomy and Fusion in Patients With Cervical Myelopathy: Analysis of 70 Consecutive Patients.  
Kang KC, Suk KS, Kim HS, Moon SH, Lee HM, Seo JH, Kim SM, Jin SY, Mella P.  
*Clin Spine Surg.* 2017 Nov;30(9):419-424.
96. Efficacy and Safety of Different Aceclofenac Treatments for Chronic Lower Back Pain: Prospective, Randomized, Single Center, Open-Label Clinical Trials.  
Yang JH, Suk KS, Lee BH, Jung WC, Kang YM, Kim JH, Kim HS, Lee HM, Moon SH.  
*Yonsei Med J.* 2017 May;58(3):637-643.
97. Efficacy of Escherichia coli-derived recombinant human bone morphogenetic protein-2 in posterolateral lumbar fusion: an open, active-controlled, randomized, multicenter trial.  
Cho JH, Lee JH, Yeom JS, Chang BS, Yang JJ, Koo KH, Hwang CJ, Lee KB, Kim HJ, Lee CK, Kim H, Suk KS, Nam WD, Han J.  
*Spine J.* 2017 Dec;17(12):1866-1874.
98. Effect of Sagittal Balance on Risk of Falling after Lateral Lumbar Interbody Fusion Surgery Combined with Posterior Surgery.  
Lee BH, Yang JH, Kim HS, Suk KS, Lee HM, Park JO, Moon SH.  
*Yonsei Med J.* 2017 Nov;58(6):1177-1185
99. Prevalence of Neuropathic Pain and Patient-Reported Outcomes in Korean Adults with Chronic Low Back Pain Resulting from Neuropathic Low Back Pain.

Kim JH, Hong JT, Lee CS, Kim KS, Suk KS, Kim JH, Park YS, Chang BS, Jun DS, Kim YH, Lee JH, Min WK, Lee JS, Park SY, Oh IS, Hong JY, Shin HC, Kim WK, Kim JH, Lee JK, Kim IS, Ha Y, Im SB, Kim SW, Han IH, Shin JJ, Rim BC, Seo BJ, Kim YJ, Lee J.  
Asian Spine J. 2017 Dec;11(6):917-927.

100. A Case of Intraoperative Anaphylaxis Caused by Bovine-Derived Thrombin.

Park HJ, Suk KS, Park JW.

Allergy Asthma Immunol Res. 2018 Mar;10(2):184-186.

101. Pharmacological target therapy of neuropathic pain and patient-reported outcomes in patients with chronic low back pain in Korea: Results from the NLBP Outcomes Research.

Hong JT, Kim JH, Kim KS, Lee CS, Shin HC, Kim WK, Kim JH, Lee JK, Kim IS, Ha Y, Im SB, Kim SW, Han IH, Shin JJ, Rim B, Suk KS, Kim JH, Park YS, Chang BS, Jun DS, Kim YH, Lee JH, Min WK, Lee JS, Park SY, Oh IS, Hong JY, Seo BJ, Kim YJ, Lee J.

Medicine (Baltimore). 2018 Aug;97(35):e11919

102. What is a Right Distal Fusion Level for Prevention of Sagittal Imbalance in Multilevel Posterior Cervical Spine Surgery: C7 or T1?

Choi SJ, Suk KS, Yang JH, Kim HS, Lee HM, Moon SH, Lee BH, Park SJ.

Clin Spine Surg. 2018 Dec;31(10):441-445

**Not updated yet**

## **PRESENTATIONS**

1. May 20 1992 : Korean Bone and Joint Tumor Society annual meeting

Seoul, Korea

*Granulocytic sarcoma in scapula*

2. Aug 15 1992 : KOA (Korean Orthopaedic Association) 36th annual meeting

Seoul, Korea

*Herniated intervertebral disc of lumbar spine in adolescent*

3. Jan 15 1993 : KOA monthly meeting, Seoul, Korea  
*Clinical and arthroscopic findings of chronic anterior cruciate ligament injury*
  
3. Jun 11 1993 : Korean Bone and Joint Tumor Society annual meeting  
Seoul, Korea  
*Assessment of response of preoperative chemotherapy in osteogenic sarcoma by MRI*
  
5. Jun 10 1994 : Korean Bone and Joint Tumor Society annual meeting  
Seoul, Korea  
*Alveolar soft part sarcoma*
  
6. Oct 21 1994 : KOA 38th annual meeting, Seoul, Korea  
*The role of transitional vertebra in spondylolysis and spondylolytic spondylolisthesis*
  
7. Oct 15 1998 : KOA 42th annual meeting, Seoul, Korea  
*Differences between traumatic and idiopathic coccygodynia*
  
8. Nov 20 1998 : Korean Society of Spine Surgery 15th annual meeting  
Seoul, Korea  
*Usefulness of posterolateral fusion of lumbar spine with allogeneic bone (Tutoplast)*
  
9. Nov 20 1998 : Korean Society of Spine Surgery 15th annual meeting  
Seoul, Korea  
*Effect of obesity on the outcome of lumbar spine surgery*
  
10. Dec 4 1998 : '98 Clinical Research Center meeting of Yonsei University  
College of Medicine, Seoul, Korea  
*In vitro induction of osteogenesis in cultured mesenchymal stem cell isolated from rat bone marrow*

11. May 28 1999 : Korean Society of Spine Surgery 16th annual meeting  
*Unilateral pedicle screw fixation in lumbar spinal fusion  
- compared to bilateral pedicle screw fixation*
12. Jun 23 1999 : ISSLS (International Society for the Study of the Lumbar Spine) 26th annual meeting, Kona, Hawaii  
*Comparison between idiopathic and traumatic coccygodynia  
-Clinical and radiological differences*
13. Jun 24 1999 : ISSLS 26th annual meeting, Kona, Hawaii  
*Unilateral versus bilateral pedicle screw fixation in lumbar spinal fusion*
14. Jun 24 1999 : ISSLS 26th annual meeting, Kona, Hawaii  
*Deep vein thrombosis after major thoracolumbar spinal surgery -Incidence in an East Asian population.*
15. Oct 13 1999 : 5th annual meeting of the Korean Orthopaedic Research Society, Seoul, Korea  
*In vitro and in vivo induction of osteogenesis of cultured mesenchymal stem cells isolated from rat bone marrow*
16. Oct 14 1999 : 43th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
*Is anterior cervical plate fixation needed in single level anterior cervical discectomy and fusion?*
17. Oct 16 1999 : 43th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
*Reliability of MRI to detect posterior ligament complex injury in thoracolumbar spinal fractures*
18. Oct 21 1999: 14th annual meeting of the NASS (North American Spine Society), Chicago, USA  
*Reliability of MRI to detect posterior ligament complex injury in thoracolumbar spinal fractures*

19. Oct 22 1999 : 14th annual meeting of the NASS, Chicago, USA  
*Unilateral versus bilateral pedicle screw fixation in lumbar spinal fusion*
20. Nov 26 1999: Korean Society of Spine Surgery, Seoul, Korea  
*Posterolateral fusion with pedicle screw fixation and anterior interbody fusion with pedicle screw fixation in spondylolytic spondylolisthesis*
21. Nov 26 1999: Korean Society of Spine Surgery, Seoul, Korea  
*Deep vein thrombosis after major spinal surgery – Incidence in a Korean population*
22. Mar 12 2000: 67<sup>th</sup> annual meeting American Academy of Orthopaedic Surgeon (AAOS), Orlando, FL, USA  
*Is anterior cervical plate fixation needed in a single level anterior cervical discectomy and fusion*
23. May 2 2000: 3<sup>rd</sup> Asian Pacific Musculoskeletal Tumor Society, Hong Kong  
*Limb Salvage using a low heat treated autobone and conventional prosthesis*
24. Aug 27 2000: World Spine 1, Berlin, Germany  
*Recurrent lumbar disc herniation-Results of operative treatment*
25. Aug 29 2000: World Spine 1, Berlin, Germany  
*Lumbosacral scoliotic list by lumbar disc herniation*
26. Sep 13 2000: ISSLS, Adelaide, Australia  
*Recurrent lumbar disc herniation-Results of operative treatment*
27. Sep 14 2000: ISSLS, Adelaide, Australia  
*Comparison between posterolateral fusion with pedicle screw fixation and anterior interbody fusion with pedicle screw fixation in spondylolytic spondylolisthesis*

28. Oct 20 2000: 44th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
*Lumbosacral scoliotic list by lumbar disc herniation*
29. Oct 20 2000: 44th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
*Limb Salvage using a low heat treated autobone and Conventional prosthesis*
30. May 21 2001: 18<sup>th</sup> Korean Society of Spine Surgery, Yong Pyeung, Korea  
Surgical treatment of Kummel's disease with neurological deficits.
31. Oct 19 2001: 45th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
Future development of interbody fusion cage
32. Oct 19 2001: 45th annual fall congress of the Korean Orthopaedic Association, Seoul, Korea  
Thoracolumbar tuberculosis treated with anterior interbody fusion and posterior instrumentation
33. Nov 13 2001: Symposium for 11<sup>th</sup> anniversary of Spine Center, Seoul, Korea  
Surgical treatment of Kummel's disease with neurological deficit-posterolateral decompression and posterior reconstruction
34. Nov 30 2001: Korean Society of Spine Surgery, Seoul, Korea  
Significance of chin-brow vertical angle for correction of kyphotic deformity in ankylosing spondylitis patients
35. Apr 17 2002: Symposium for 49<sup>th</sup> anniversary of Orthopaedic department, Yonsei University, Seoul, Korea  
Treatment of Lower Cervical Injury

36. May 17 2002: 29<sup>th</sup> annual meeting of ISSLS, Cleveland, OH, USA  
Significance of chin-brow vertical angle for correction of  
kyphotic deformity in ankylosing spondylitis patients
37. May 24 2002: 19<sup>th</sup> Korean Society of Spine Surgery, Busan, Korea  
Measurement of lateral mass using MRI for lateral mass  
screw fixation
38. May 24 2002: 19<sup>th</sup> Korean Society of Spine Surgery, Busan, Korea  
Myelopathy due to ossification of yellow ligament in a patient  
with Reiter's syndrome
39. May 24 2002: 19<sup>th</sup> Korean Society of Spine Surgery, Busan, Korea  
C1-2 transarticular screw fixation as a revision surgery for  
failed C1-2 fusion
40. Oct 17 2002: 46<sup>th</sup> annual fall congress of the Korean Orthopaedic Association,  
Seoul, Korea  
Revision surgery after lumbar fusion

**Not updated yet**

## **RESEARCH FUND ACQUIRED**

1. Research fund for research instructors of Yonsei University College of  
Medicine  
*In vitro induction of osteogenesis in cultured mesenchymal stem cells  
isolated from rat bone marrow*  
2,000 US \$          1998
2. Research fund for faculty of Yonsei University  
*In vivo induction of osteogenesis in cultured mesenchymal stem cells  
isolated from rat bone marrow*

5,000 US \$          1998-1999

3. Research and development fund of health and medical technology supported by Department of Health and Welfare

*Bioengineering of artificial bone to induce of natural osteogenesis*

150,000 US \$          1998-1999

4. LINKS research fund

*Limb salvage with low heat treated autobone graft and conventional prosthesis in primary bone sarcoma*

13,000DM                  1999-2000

5. Research fund for faculty of Yonsei University

*Induction of osteogenesis in cultured mesenchymal stem cells isolated from human bone marrow*

5,000 US \$                  1999-2000

6. Research fund from Health Insurance Review & Assessment Service

Indications of pedicle screw fixation in spinal stenosis.

25,000 US \$          2008-2009.

7. Research fund from Korea Food & Drug Administration

Development of clinical study protocol for Total Disc Replacement of Lumbar and Cervical spine.

20,000 US \$          2008-2009

8. Research fund from Donga Pharmacy

Effectiveness of Limaprost alfadex in spinal stenosis patients compared to aceclofenac: Radomized, prospective, double blind, multi-center study

20,000 US \$          2010-2011

9. Research fund from CG-Bio

Evaluation of effectiveness and safety of Allospine for ACDF

20,000 US \$          2011-2012

**Not updated yet**



