

## Curriculum vitae

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Personal

Place of birth: Seoul, Korea

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## **Education**

1986-1988 Premedical course  
College of natural science  
Seoul National University  
Seoul, Korea

1988-1992 M.D.  
College of Medicine  
Seoul National University  
Seoul, Korea

1997-1999 Master of Science  
Postgraduate school  
Korea University  
Seoul, Korea

2000-2002 Ph.D.  
Postgraduate school  
Seoul National University  
Seoul, Korea

## **Postgraduate Trainings**

1992-1993 Internship  
Seoul National University Hospital  
Seoul, Korea

1993-1997 Residency, Orthopedic Surgery  
Seoul National University Hospital  
Seoul, Korea

2000-2002 Fellowship in Spine Surgery  
Seoul National University Hospital  
Seoul, Korea

## **Professional Appointments**

2002-2003 Instructor  
Department of Orthopedic Surgery  
National Police Hospital  
Seoul, Korea

2003-2005 Assistant Professor

Department of Orthopedic Surgery  
Seoul National University Boramae Hospital  
Seoul, Korea

2005-2011 Assistant Professor  
Department of Orthopedic Surgery  
University of Ulsan College of Medicine  
Seoul, Korea

2011-2017 Associate Professor  
Department of Orthopedic Surgery  
University of Ulsan College of Medicine  
Seoul, Korea

2017- Professor  
Department of Orthopedic Surgery  
University of Ulsan College of Medicine  
Seoul, Korea

2009-2011 Visiting Professor  
Department of Orthopedic Surgery  
Washington University in St. Louis  
St. Louis, MO, USA

#### License & Certification

1992 Korean Medical License

1992 Diploma, Korean Board of Orthopedic Surgery

#### **Affiliation**

Member, Korean Orthopedic Association

Member, Korean Society of Spine Surgery

Member, International Society for Advanced Spine Surgery

Member, Asian Pacific Cervical Spine Research Society

Corresponding Member, Cervical Spine Research Society

Corresponding Member, North American Spine Society

## **Awards**

- Best clinical paper award, Journal of Korean Spine Surgeons Society, 2002.
- Best poster award, 3<sup>rd</sup> annual meeting of Cervical Spine Research Society, Asian-Pacific section, Fukuoka, Japan, 2012.
- Best poster award, 40<sup>th</sup> annual meeting of Cervical Spine Research Society, Orlando, USA, 2012.
- Best paper award, 30<sup>th</sup> Spring Congress of Korean Spine Surgeons Society, Kwangju, Korea, 2013.
- Best clinical paper award (2<sup>nd</sup> place), 6<sup>th</sup> annual meeting of Cervical Spine Research Society, Asian-Pacific section, Yokohama, Japan, 2015.  
(Corresponding author)
- Best clinical paper award (3<sup>rd</sup> place), 43<sup>rd</sup> annual meeting of Cervical Spine Research Society, San Diego, USA, 2015. (Corresponding author)
- Best paper award, 1<sup>st</sup> Korean Spine Congress, Seoul, Korea, 2017  
(Corresponding author)
- Best clinical research award, APSS-APPOS, 2021, Kobe, Japan, 2021  
(Corresponding author)
- 2nd place clinical paper award, 49th annual meeting of Cervical Spine Research Society, Atlanta, USA, 2021. (Corresponding author)
- Resident fellow best poster award, 49th annual meeting of Cervical Spine Research Society, Atlanta, USA, 2021.
- 1st place clinical paper award, 50th annual meeting of Cervical Spine Research Society, San Diego, USA, 2022.

## **PUBLICATIONS**

### **1) In Korean**

Chio IH, Seong SC, Lee MC, Song KY, Seong IH, Park SC, Lee DH: The Effect of Estradiol on the Osteoporosis Induced by Oophorectomy in the Rat. J Korean Orthop Assoc, 29(5):1334-1440, 1994.

Seong SC, Kim HJ, Lee MC, Lee DH: Partial Meniscectomy in the Knees with Chronic ACL Deficiency. J Korean Knee Soc, 7(2):154-161, 1995.

Lee DY, Choi IH, Chung JY, Cho KH, Lee DH: Coxa Magna after Open Reduction of Developmental Dislocation of Hip-Contributing factors and Acetabular development. J Korean Orthop Assoc, 30(1):13-21, 1995.

Lee JH, Kim HS, Yoon KS, Lee DH, Do SH, Min SW, Kim JS: Comparison of Autotransfusion with Homologous Transfusion in Spinal Surgery. J Korean Orthop Assoc, 30(1):138-144, 1995.

Chung JY, Choi IH, Lee DY, Yoon KS, Lee DH, Son CS: Steel's Gluteus Medius and Minimus Advancement for In-toeing in Spastic Cerebral Palsy. J Korean Orthop Assoc, 31(1):27-32, 1996.

Lee HG, Lee SH, Kim HS, Lee DH, Yang MS: Hemangiomas in Soft Tissue of Trunk and Extremities -Analysis of 134 cases. J Korean Bone & Joint Tumor Soc, 2(2):178-185, 1996.

Lee CK, Chang BS, Lee DH, Lee JC: Natural History and Surgical Indication of Lumbar Disc Herniation. J Korean Soc Spine Surg, 7(2):283-289, 2000 .

Chang BS, Kim WJ, Lee JC, Lee DH, Shin YW, Lee SL, Lee CK: The Peridural Hematoma after Surgery on the Degenerative Lumbar Spine Disease. J Korean Soc Spine Surg, 8(2):165-171, 2001.

Lee JC, Cho HS, Lee DH, Lim CK, Chang BS, Lee CK: Aspergillosis of the Thoracic Spine in Chronic Granulomatous Disease-A Case Report. J Korean Orthop Assoc, 36:389-393, 2001.

Lee DH, Lee JC, Chang BS, Kim WJ, Choi JW, Lee CK, Kim HJ, Seong SC, Kim YM: Clinical Features and Musculoskeletal Anomalies in VATER Association. J Korean Orthop Assoc, 36: 593-599, 2001.

Lee DH, Ryu HS, Lee SL, Kim SJ, Lim CK, Chang BS, Hong KS, Lee CK: Comparison of Osteosyntheses in Various Types of Porous Calcium Phosphate Compounds - An Experimental Study by Posterolateral Fusion of Rabbits' Lumbar Vertebrae. J Korean Soc Spine Surg, 8(4): 455-467, 2001.

Lee DH, Lim CK, Chang BS, Jeong BY, Lim ST, Lee CK: Scoliosis Associated with Marfan Syndrome. J Korean Soc Spine Surg, 8(4):482-490, 2001.

Lee JC, Lee DH, Ahn JH, Lim ST, Chang BS, Lee CK, Suk SI: Scoliosis in Children after Surgery for Congenital Heart Disease. J Korean Soc Spine Surg, 9:91-97, 2002.

Lee DH, Lee JC, Kim SH, Lim ST, Chang BS, Lee CK, Suk SI: Tactics for Surgical Treatment of the Double Thoracic Scoliosis- Significance of T1 tilt, first rib elevation and correction ratio. J Korean Soc Spine Surg, 9:106-114, 2002.

Hahn SH, Yang BK, Yi SR, Chung SW, Lee DH, Kim MS: Operative Treatment of the Displaced Bucket Handle Tear of the Medial Meniscus. J Korean Arthroscopy Soc, 6:142-149, 2002.

Hahn SH, Yang BK, Yi SR, Chung SW, Lee DH, Oh SJ, Lee CH, Ha KI: Results of Open Versus Arthroscopic Method in Recurrent Anterior Shoulder Instability. J Korean Orthop Sports Med, 1: 154-158, 2002.

Jeong BY, Lee CK, Chang BS, Lee DH: Gorham's Disease of the Spine with Chylothorax -A Case Report. J Korean Orthop Assoc, 37:443-446, 2002.

Chung SW, Hahn SH, Yang BK, Yi SR, Ha JH, Yeo YB, Lee DH: Second-look Arthroscopic Findings after Anterior Cruciate Ligament Reconstruction - Comparison between Achilles allograft and Bone-Patellar tendon-Bone autograft. J Korean Knee Soc, 15: 102-110, 2003.

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Lee JH, Lee DH, Lee JH, Gong HS, Ahn YJ, Ryu HS, Seo JH, Hong KS, Kim H, Chang BS, Lee CK: Evaluation of Osteointegration in Dense Ceramics Using Rabbit's External Fixation Model. J Orthop Research, 6:151-162, 2003.

Hahn SH, Yang BK, Yi SR, Chung SW, Lee DH, Kim MS: The Results of Surgical Treatment of Acute Acromio-clavicular Separation, Type III. J Korean Fracture Soc, 16:235-243, 2003.

Lee JH, Lee DH, Ha JH, Ahn YJ, Park JY, Ryu HS, Chang BS, Hong KS, Lee CK: Porous Beta-Calcium Pyrophosphate as a Bone Graft Substitute in a Canine Bone Defect Model. J Korean Orthop Assoc, 38:384-392, 2003.

Lee JH, Ha JH, Lee DH, Chang BS, Ryu HS, Seo JH, Hong KS, Kim H, Lee CK: Evaluation of Biodegradation and Osteosynthesis in CaO-SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> Glass-Ceramics by Posterolateral Fusion of Rabbit Lumbar Vertebrae. J Korean Orthop Assoc, 38:612-618, 2003.

Kang SB, Yoon KS, Lee JH, Lee DH, Jo HC: The Comparison of the Midvastus and Paramedian Approaches for Total Knee Arthroplasty. J Korean Knee Soc, 16:39-43, 2004.

Lee DH, Yeom JS, Kwon YJ, Lyu SM, Park SK, Ahn YH, Park KW, Song KS, Kim HM, Kim CY, Chang BS, Lee CK: Optimal Trajectories of C1 Lateral Mass Screws and C2 Pars-Pedicle Screws. J Korean Soc Spine Surg, 11:202-209, 2004.

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Park SK, Yeom JS, Won JH, Lee JC, Lee DH, Lee JH, Chang BS, Lee CK: C1-2 Fixation Using Polyaxial Screws and Rods Assisted by Computer Simulation for Revision of Failed Posterior Fusion- A Technical Report. J Korean Orthop Assoc, 40:778-781, 2005.

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Hwang C, Lee CS, Ahn YJ, Kang SJ, Kim JH, Jeong KI, Kim YT, Lee DH: Scoliosis Correction with Thoracic Pedicle Screws: Posteroanterior C-arm Rotation Method. J Korean Orthop Assoc, 42: 98-105, 2007.

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## **2) International**

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hydroxyapatite/  $\beta$ -tricalcium phosphate composite. Key Engineerin Materials, 218-220: 17-20, 2002.

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Seo JH, Ryu HS, Hong KS, Kim H, Kim DJ, Lee JH, **Lee DH**, Lee CK: Fabrication of CaO-SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub> porous glass-ceramics by self-foaming method. Key Engineering Materials, 240-242: 273-278, 2003.

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(Corresponding author)\

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Lee CS, Hwang CJ, Lee SW, Ahn YJ, Kim YT, **Lee DH**, Lee MY: Risk factors for adjacent segment disease after lumbar fusion. *Eur Spine J*, 18:1637-1643, 2009.

Lee CS, Kang SJ, Hwang CJ, Lee SW, Ahn YJ, Kim YT, **Lee DH**, Lee MY: Early-onset facioscapulohumeral muscular dystrophy - significance of pelvic extensors in sagittal spinal imbalance. *J Pediatr Orthop B*, 2009.

Kim CR, Yoo JY, Lee SH, **Lee DH**, Rhim SC: Gait analysis for evaluating the relationship between increased signal intensity on t2-weighted magnetic resonance imaging and gait function in cervical spondylotic myelopathy. *Arch Phys Med Rehabil*, 91:1587-1592, 2010.

Lee CS, Hwang CJ, Lee SW, Chung JH, Ahn YJ, Kim YT, **Lee DH**, Lee MY: Changes of deformity due to the position and anesthesia in adolescent idiopathic scoliosis. J Spinal Disord Tech, 23: 377-382, 2010.

Lee CS, Park SA, Hwang CJ, Kim DJ, Lee WJ, Kim YT, **Lee DH**, Lee MY, Yoon SJ: A Novel Method of Screw Placement for Extremely Small Thoracic Pedicles in Scoliosis. Spine, 2011 Jul 15;36(16):E1112-6.

**Lee DH**, Lee SW, Kang SJ, Hwang CJ, Kim NH, Bae JY, Kim YT, Lee CS, Riew KD: Optimal entry points and trajectories for cervical pedicle screw placement into subaxial cervical vertebrae. Eur Spine J, 20(6):905-911, 2011.

Lee CS, Hwang CJ, **Lee DH**, Kim YT, Lee HS: Fusion rates of instrumented lumbar spinal arthrodesis according to surgical approach: A systematic review of randomized trials. Clin Orthop Surg, 3(1):190-195, 2011.

**Lee DH**, Park SA, Kim NH, Hwang CJ, Kim YT, Lee CS, Riew KD: Laminar Closure after Classic Hirabayashi Open-door Laminoplasty. Spine, 2011 Dec 1;36(25):E1634-40.

Lee JS, **Lee DH**, Suh KT, Kim JI, Lim JM, Goh TS: Validation of the Korean version of the Roland-Morris Disability Questionnaire. Eur Spine J. 2011 Dec;20(12):2115-9.

Lee JS, **Lee DH**, Suh KT, Kim JI, Lim JM, Goh TS: Validation of the Korean version of the Scoliosis Research Society-22 questionnaire, Eur Spine J. 2011 Oct;20(10):1751-6.

**Lee DH**, Park JB, Hwang CJ, Lee CS, Kim YT, Kang SJ, Rhee JM: True lateral access for transforaminal endoscopic lumbar discectomy: Is it possible? J Bone Joint Surg Br, 2011.

**Lee DH**, Kim NH, Hwang CJ, Lee CS, Kim YT, Shin MJ, Cho SK: Neglected esophageal perforation following upper thoracic vertebral fracture. Spine J, Spine J. 2011 Dec;11(12):1146-51.

Choi YR, Lee HS, Jeong JJ, Kim SW, Jeon IH, **Lee DH**, Lee WC. Hallux valgus correction using transarticular lateral release with distal chevron osteotomy. *Foot Ankle Int*, Oct;33(10):838-43, 2012.

Kim YT, Lee H, Lee CS, **Lee DH**, Hwang CJ, Ahn TS. Direct Repair of the Pars Interarticularis Defect in Spondylolysis. *J Spinal Disord Tech*. 2012 Aug 29 (Epub).

Lee CS, Noh H, **Lee DH**, Ju Hwang C, Min Kim H, Cho SK. Analysis of Sagittal Spinal Alignment in 181 Asymptomatic Children. *J Spinal Disord Tech*. 2012 Dec;25(8):E259-63.

Lee CS, Hwang CJ, Kim DJ, Kim JH, Kim YT, Lee MY, Yoon SJ, **Lee DH**. Effectiveness of the Charleston night-time bending brace in the treatment of adolescent idiopathic scoliosis. *J Pediatr Orthop*. 2012 Jun;32(4):368-72.

Lee CS, **Lee DH**, Hwang CJ, Kim H, Noh H. The Effect of a Mismatched Center of Rotation on the Clinical Outcomes and Flexion-Extension Range of Motion: Lumbar Total Disk Replacement Using Mobidisc at a 5.5-year Follow-up. *J Spinal Disord Tech*. 2012 April 20 (Epub).

**Lee DH**, Lee JS, Yi JS, Cho W, Zebala LP, Riew KD. Anterior plating technique to prevent adjacent level ossification development. *Spine J*, 2013 Jul;13(7):823-9.

Lee CS, **Lee DH**, Hwang C, Kim H, Noh H. The effect of a mismatched center of rotation on the clinical outcomes and flexion-extension range of motion: lumbar total disk replacement using mobidisc at a 5.5-year follow-up. *J Spinal Disorder Tech*, 2014 May;27(3):148-53.

Lee CS, Hwang C, Dim DJ, Kwon J, Kim YT, Lee MY, Yoon SJ, **Lee DH**. Feasibility of correction with instrumentation only in congenital scoliosis. *Neurosurgery*, 2014 Jan;74(1)35-41.

Cho JH, Ha JK, Kim DG, Song KY, Kim YT, Hwang CJ, Lee CS, **Lee DH**.

Does preoperative T1 slope affect radiological and functional outcomes after cervical laminoplasty? Spine (Phila Pa 1976). 2014 Dec 15;39(26):E1575-81. (Corresponding author)

Leem YH, Lee KS, Kim JH, Seok HK, Chang JS, **Lee DH**. Magnesium ions facilitate integrin alpha 2- and alpha 3-mediated proliferation and enhance alkaline phosphatase expression and activity in hBMSCs. J Tissue Eng Regen Med. 2014 Feb 25. (Corresponding author)

Lee KS, Hwang C, Kim JH, Lee HS, Ryu HS, Chang JS, **Lee DH**. Study of difference in biodegradation mechanism on the surface of hydroxyapatite and beta-tricalcium phosphate. Sci Adv Mater. 2014; 6(10): 2238-43 (Corresponding author)

Lee KS, Han HS, Kim YC, Lo Han JH, Ryu HS, Lee HS, Chang JS, **Lee DH**. Evaluation of porous beta-calcium pyrophosphate as bioresorbable bone graft substitute material. Materials Research Innovation. 2015;19(2):85-90. (Corresponding author)

Lee CS, Ha JK, Kim DG, Kim H, Hwang CJ, **Lee DH**, Cho JH. The clinical importance of sacral slanting in patients with adolescent idiopathic scoliosis undergoing surgery. Spine J. 2015 May 1;15(5):834-40

Lee CS, Ha JK, Kim DG, Hwang CJ, **Lee DH**, Cho JH. The clinical importance of lumbosacral transitional vertebra in patients with adolescent idiopathic scoliosis. Spine (Phila Pa 1976). 2015 Sep 1;40(17):E964-70.

Skovrlj B, **Lee DH**, Caridi JM, Cho SK. Reoperations Following Cervical Disc Replacement. Asian Spine J. 2015 Jun;9(3):471-82.

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Cho JH, Ha JK, Hwang CJ, **Lee DH**, Lee CS. Patterns of Treatment for Metastatic Pathological Fractures of the Spine: The Efficacy of Each Treatment Modality. *Clin Orthop Surg.* 2015 Dec;7(4):476-82.

Kim DG, Ha JK, Hwang CJ, **Lee DH**, Lee CS, Cho JH. Is one-stage Posterior Corpectomy More Favorable Compared to Decompression with Fusion to Control Thoracic Cord Compression by Metastasis? *Clin Spine Surg.* 2016 Jul 14. [Epub ahead of print]

Lee JW, Han HS, Han KJ, Park J, Jeon H, Ok MR, Seok HK, Ahn JP, Lee KE, **Lee DH**, Yang SJ, Cho SY, Cha PR, Kwon H, Nam TH, Han JH, Rho HJ, Lee KS, Kim YC, Mantovani D. Long-term clinical study and multiscale analysis of in vivo biodegradation mechanism of Mg alloy. *Proc Natl Acad Sci U S A.* 2016 Jan 19;113(3):716-21.

Lee CS, Ha JK, Hwang CJ, **Lee DH**, Kim TH, Cho JH. Is it enough to stop distal fusion at L3 in adolescent idiopathic scoliosis with major thoracolumbar/lumbar curves? *Eur Spine J.* 2016 Jan 13. [Epub ahead of print]

**Lee DH**, Ha JK, Chung JH, Hwang CJ, Lee CS, Cho JH. A retrospective study to reveal the effect of surgical correction of cervical kyphosis on thoraco-lumbo-pelvic sagittal alignment. *Eur Spine J.* 2016 Jul;25(7):2286-93.

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posterior longitudinal ligament. J Neurosurg Spine. 2016 Oct 28:1-6. [Epub ahead of print]

**Lee DH**, Cho JH, Hwang CJ, Lee CS, Cho SK, Ha JK. Can C3 Laminectomy Reduce Interlaminar Bony Fusion and Preserve the Range of Motion After Cervical Laminoplasty? Spine (Phila Pa 1976). 2016 Dec 15;41(24):1884-1890.

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Hong CG, Cho JH, Suh DC, Hwang CJ, **Lee DH**, Lee CS. Preoperative embolization in patients with metastatic spinal cord compression: mandatory or optional? World J Surg Oncol. 2017 Feb 14;15(1):45.

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Lee CS, Hwang CJ, Kim NH, Noh HM, Lee MY, Yoon SJ, **Lee DH**. Preoperative Magnetic Resonance Imaging Evaluation in Patients with Adolescent Idiopathic Scoliosis. Asian Spine J. 2017 Feb;11(1):37-43.

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