

Curriculum Vitae

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Current Position

2022 - Associate Professor, Department of Orthopedic Surgery, The Catholic University of Korea, College of Medicine. Eunpyeong St. Mary's Hospital, Seoul, South Korea.

Education and Training

2007 - 2013 Ph.D. degree from The Catholic University of Korea, College of Medicine, Seoul, South Korea

2004 - 2006 M.S. degree from The Catholic University of Korea, College of Medicine, Seoul, South Korea

2004 - 2005 Fellowship in Department of OS, The Catholic University of Korea, College of Medicine, Seoul St. Mary's Hospital, Seoul, South Korea.

2000- 2004 Resident in Department of OS, Catholic Medical Center, The Catholic University of Korea, College of Medicine, Seoul, South Korea.

1993 - 1999 M.D. degree from The Catholic University of Korea, College of Medicine, Seoul, South Korea.

Publications as a first author or a corresponding author

1. Park HY, Kim KW, Ryu JH, Kim GU, Jung HY, Jung YS, **Lee JS**. Effect of Lumbar Spinal Stenosis on Treatment of Osteoporosis: Comparison of Three Oral Bisphosphonate Therapies. J Clin Med. 2023 Mar 3;12(5):2027.
2. Cho WJ, Kim KW, Park HY, Kim BH, **Lee JS**. Segmental artery injury during transforaminal percutaneous endoscopic lumbar discectomy: Two case reports. World J Clin Cases. 2022 Nov 26;10(33):12345-12351.

3. Baek IH, Park HY, Jung HY, **Lee JS**. Bilateral leg pain and unilateral calf atrophy caused by polymyositis accompanying lumbar spinal stenosis and disc herniation: a case report. *J Int Med Res*. 2022 Jan; 50(1): 03000605211069480.
4. Baek IH, Park HY, Kim KW, Jang TY, **Lee JS**. Paraplegia due to intradural cement leakage after vertebroplasty: a case report and literature review. *BMC Musculoskelet Disord*. 2021 Aug 28;22(1):741.
5. Park HY, Kim KW, Ryu JH, Yoon ST, Baek IH, Jang TY, **Lee JS**. Long-Segmental Posterior Fusion Combined With Vertebroplasty and Wiring: Alternative Surgical Technique for Kummell's Disease With Neurologic Deficits-A Retrospective Case Series. *Geriatr Orthop Surg Rehabil*. 2021 Jun 28;12:21514593211027055.
6. Park HY, Ha JY, Kim KW, Baek IH, Park SB, **Lee JS**. Effect of lumbar spinal stenosis on bone mineral density in osteoporosis patients treated with ibandronate. *BMC Musculoskelet Disord*. 2021 May 4;22(1):412.
7. Kim KW, Jeong SW, Park HY, Heu JY, Jung HY, **Lee JS**. The effect of prolonged rhBMP-2 treatment on telomerase activity, replicative capacity and senescence of human nucleus pulposus cells. *Biotech Histochem*. 2020 Oct;95(7):490-498.
8. Park HY, Kim KW, Ryu JH, Lim CR, Han SB, **Lee JS**. Cervical foraminal stenosis causing unilateral diaphragmatic paralysis without neurologic manifestation: A case report and review of the literature. *Medicine (Baltimore)*. 2020 Sep 11;99(37):e21349.
9. **Lee JS**, Ryu JH, Park JT, Kim KW. Quadriplegia caused by an epidural abscess occurring at the same level of cervical destructive spondyloarthropathy: a case report. *BMC Musculoskelet Disord*. 2017;18(1):11.
10. **Lee JS**, Lee SM, Jeong SW, Sung YG, Lee JH, Kim KW. Effects of age, replicative lifespan and growth rate of human nucleus pulposus cells on selecting age range for cell-based biological therapies for degenerative disc diseases. *Biotech Histochem*. 2016;91(5):377-85.
11. **Lee JS**, Jeong SW, Cho SW, Juhn JP, Kim KW. Relationship between Initial

Telomere Length, Initial Telomerase Activity, Age, and Replicative Capacity of Nucleus Pulposus Chondrocytes in Human Intervertebral Discs: What Is a Predictor of Replicative Potential? PLoS One. 2015;10(12):e0144177.

12. **Lee JS**, Park YM, Ha KY, Cho SW, Bak GH, Kim KW. Preoperative anxiety about spinal surgery under general anesthesia. *Eur Spine J.* 2016;25(3):698-707.
13. Jeong SW, Kim KW, **Lee JS**. In vitro Lifespan and Senescence Mechanisms of Human Nucleus Pulposus Chondrocytes. *Spine J.* 2014;14:499-504. **Lee JS**, Choi SM, Kim KW. Triparensis Caused by Gas-Containing Extensive Epidural Abscess Secondary to *Aeromonas hydrophila* Infection of a Thoracic Vertebroplasty: a Case Report. *Spine J.* 2013;13:e9-e14.
14. **Lee JS**, Kim KW. Disseminated septic emboli, septic thrombosis of the vena cava and the common iliac and renal veins, and retroperitoneal abscess secondary to pyogenic spondylitis of the lumbar spine: a case report. *J Bone Joint Surg Am.* 2011;93:e59.
15. **Lee JS**, Kim KW, Ha KY. The effect of vertebroplasty on pulmonary function in patients with osteoporotic compression fractures of the thoracic spine. *J Spinal Disord Tech.* 2011;24:E11-5.
16. **Lee JS**, Kim KW. Bone mineral densities of the vertebral body and intertransverse fusion mass after instrumented intertransverse process fusion. *Spine.* 2010;35:E1106-10.