

# CURRICULUM VITAE

## **Ji-Won Kwon**

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### **Education**

INSTITUTION /CITY/STATE	DEGREE	YEAR(s)	FIELD OF STUDY
Yonsei Univ. Medical College (Seoul, Korea)	M.D.	2004-2010	Medicine
Yonsei Univ. Graduate School (Seoul, Korea)	Ph.D	2018-On going	Orthopaedics

### **Research and Professional Experience**

Position	Institution/Employer and Location	Dates of Employment
Internship	Severance hospital (Seoul, Korea)	FEB 2010-FEB 2011
Residency	Orthopaedic Surgery, Severance hospital (Seoul, Korea)	MAR 2011-FEB 2015
General surgeon	Serve for national public health institution	APR 2015-FEB 2016
Chief of Orthopedic Surgery	Serve for Gurei hospital (Jeollanam-do, Korea)	MAR 2016-APR 2018
Fellowship Training	Orthopaedic Surgery, Severance hospital (Seoul, Korea)	MAY 2018-SEP 2018
Clinical professor	Orthopaedic Surgery, Severance hospital (Seoul, Korea)	OCT 2018-FEB 2019
Clinical fellow	National health insurance service Ilsan hospital of Korea as clinical spine surgeon	MAR 2019-FEB 2021
Assistant professor	Spine Orthopaedic Surgery, Gangnam Severance Hospital (Seoul, Korea)	MAR 2021-Present

\* GCP training on 27 Jan 2023

\*medical license number: 102714

- **International (indexed in SCI, SCIE, PubMed)**

1. Variation in Prevertebral Soft Tissue Swelling after Staged Combined Multilevel Anterior-Posterior Complex Cervical Spine Surgery: Anterior Then Posterior (AP) versus Posterior Then Anterior-Posterior (PAP) Surgery. Eun DC, Suguitan AA, Suk KS, Kim HS, **Kwon JW**, Moon SH, Lee YH, Lee BH. *J Clin Med*. 2022 Dec 6;11(23):7250.
2. Biomechanical Comparison and Three-Dimensional Analysis of Cement Distribution Patterns for Different Pedicle Screw Designs. Sung S, **Kwon JW**, Park TH, Lee SB, Moon SH, Lee BH. *Biomed Res Int*. 2022 Oct 18;2022:8293524.
3. Is Vancomycin More Effective than Teicoplanin? Comparative Analysis of Their Preventive Effect against Spinal Infection in 1000 Patients with Spinal Fusion. Eun DC, Suk KS, Kim HS, **Kwon JW**, Moon SH, Lee YH, Lee BH. *Antibiotics (Basel)*. 2022 Oct 11;11(10):1388.
4. Lumbar Spinal Stenosis: Review Update 2022. **Kwon JW**, Moon SH, Park SY, Park SJ, Park SR, Suk KS, Kim HS, Lee BH. *Asian Spine J*. 2022 Oct;16(5):789-798.
5. Tranexamic Acid and Intraoperative and Postoperative Accumulative Bleeding in Elective Degenerative Spine Surgery. Abdou M, **Kwon JW**, Kim HJ, Lee B, Choi YS, Moon SH, Lee BH. *Yonsei Med J*. 2022 Oct;63(10):927-932.
6. Clinical significance of the C2 slope after multilevel cervical spine fusion. Kim N, Suk KS, **Kwon JW**, Seo J, Ju H, Lee BH, Moon SH, Kim HS, Lee HM. *J Neurosurg Spine*. 2022 Aug 19;38(1):24-30.
7. Real-Time Stress Analysis Affecting Nurse during Elective Spinal Surgery Using a Wearable Device. Sung S, **Kwon JW**, Kim JE, Lee YJ, Lee SB, Lee SK, Moon SH, Lee BH. *Brain Sci*. 2022 Jul 12;12(7):909.
8. Cervical foraminal stenosis as a risk factor for cervical kyphosis following cervical laminoplasty. Seo J, Suk KS, **Kwon JW**, Kim N, Lee BH, Moon SH, Kim HS, Lee HM. *Spine J*. 2022 Aug;22(8):1271-1280.
9. Direct Internal Fixation for Unstable Atlas Fractures. Shin JW, Suk KS, Kim HS, Yang JH, **Kwon JW**, Lee HM, Moon SH, Lee BH, Park SJ, Park SR, Kim SK. *Yonsei Med J*. 2022 Mar;63(3):265-271.
10. Ten-Year Outcomes of Minimally Invasive Versus Open Transforaminal Lumbar Interbody Fusion in Patients With Single-Level Lumbar Spondylolisthesis. **Kwon JW**, Park Y, Lee BH, Yoon SR, Ha JW, Kim H, Suk KS, Moon SH, Kim HS, Lee HM. *Spine (Phila Pa 1976)*. 2022 Jun 1;47(11):773-780.
11. Medial Pedicle Pivot Point Using Preoperative Computed Tomography Morphometric Measurements for Cervical Pedicle Screw Insertion: A Novel Technique and Case Series. **Kwon JW**, Arreza EO, Suguitan AA, Lee SB, Sung S, Park Y, Ha JW, Kim TH, Moon SH, Lee BH. *J Clin Med*. 2022 Jan 13;11(2):396.
12. Incidence and Surgery Rate of Idiopathic Scoliosis: A Nationwide Database Study. Sung S, Chae HW, Lee HS, Kim S, **Kwon JW**, Lee SB, Moon SH, Lee HM, Lee BH. *Int J Environ Res Public Health*. 2021 Aug 1;18(15):8152.
13. Which Factors Affect the Stress of Intraoperative Orthopedic Surgeons by Using Electroencephalography Signals and Heart Rate Variability? **Kwon JW**, Lee SB, Sung S, Park Y, Ha JW, Kim G, Suk KS, Kim HS, Lee HM, Moon SH, Lee BH. *Sensors (Basel)*. 2021 Jun 10;21(12):4016.
14. Invasive dental procedures as risk factors for postoperative spinal infection and the effect of antibiotic prophylaxis. Sung S, Kim EH, **Kwon JW**, Lee JS, Lee SB, Moon SH, Lee HM, Jung I, Lee BH. *J Clin*

Periodontol. 2021 Sep;48(9):1270-1280.

15. Handgrip Strength Correlated with Falling Risk in Patients with Degenerative Cervical Myelopathy. Jimenez KA, **Kwon JW**, Yoon J, Lee HM, Moon SH, Suk KS, Kim HS, Lee BH. J Clin Med. 2021 May 5;10(9):1980.
16. Is There an Association Between Psychiatric Disorders and Adolescent Idiopathic Scoliosis? A Large-database Study. Lee SB, Chae HW, **Kwon JW**, Sung S, Lee HM, Moon SH, Lee BH. Clin Orthop Relat Res. 2021 Aug 1;479(8):1805-1812.
17. Incidence rate of congenital scoliosis estimated from a nationwide health insurance database. **Kwon JW**, Chae HW, Lee HS, Kim S, Sung S, Lee SB, Moon SH, Lee HM, Lee BH. Sci Rep. 2021 Mar 9;11(1):5507.
18. Association between mortality risk and the number, location, and sequence of subsequent fractures in the elderly. Lee SB, Park Y, Kim DW, **Kwon JW**, Ha JW, Yang JH, Lee BH, Suk KS, Moon SH, Kim HS, Lee HM. Osteoporos Int. 2021 Feb;32(2):233-241.
19. Hand grip strength as a surrogate marker for postoperative changes in spinopelvic alignment in patients with lumbar spinal stenosis. **Kwon JW**, Lee BH, Sung S, Lee SB, Park MS, Cho JH, Yang JH, Lee HM, Moon SH. Sci Rep. 2020 Aug 10;10(1):13432.
20. Emphysematous osteomyelitis of the spine: A rare case report. Sung S, Lee BH, Kim JH, Park Y, Ha JW, Moon SH, Lee HM, **Kwon JW**. Medicine (Baltimore). 2020 Jul 10;99(28):e21113.
21. Hand grip strength can predict clinical outcomes and risk of falls after decompression and instrumented posterolateral fusion for lumbar spinal stenosis. **Kwon JW**, Lee BH, Lee SB, Sung S, Lee CU, Yang JH, Park MS, Byun J, Lee HM, Moon SH. Spine J. 2020 Dec;20(12):1960-1967.
22. Comparison of the Prevalence of Low Back Pain and Related Spinal Diseases among Smokers and Nonsmokers: Using Korean National Health Insurance Database. **Kwon JW**, Ha JW, Lee TS, Moon SH, Lee HM, Park Y. Clin Orthop Surg. 2020 Jun;12(2):200-208.
23. Biomechanical comparison of the angle of inserted screws and the length of anterior cervical plate systems with allograft spacers. Kwon JW, Bang SH, **Kwon YW**, Cho JY, Park TH, Lee SJ, Lee HM, Moon SH, Lee BH. Clin Biomech (Bristol, Avon). 2020 Jun;76:105021.
24. Risk Factors of Clostridium Difficile Infection After Spinal Surgery: National Health Insurance Database. Sung S, **Kwon JW**, Lee SB, Lee HM, Moon SH, Lee BH. Sci Rep. 2020 Mar 10;10(1):4438.
25. Biomechanical comparison of cervical discectomy/fusion model using allograft spacers between anterior and posterior fixation methods (lateral mass and pedicle screw). **Kwon JW**, Bang SH, Park TH, Lee SJ, Lee HM, Lee SB, Lee BH, Moon SH. Clin Biomech (Bristol, Avon). 2020 Mar;73:226-233.
26. Intraoperative real-time stress in degenerative lumbar spine surgery: simultaneous analysis of electroencephalography signals and heart rate variability: a pilot study. **Kwon JW**, Sung S, Lee SB, Lee HM, Moon SH, Lee BH. Spine J. 2020 Aug;20(8):1203-1210.
27. Arthrodesis Using Bilateral Dual Iliac Screws with Autologous Iliac Bone Transfer for the Treatment of Pyogenic Sacroiliitis. **Kwon JW**, Shin JK, Moon SH, Lee HM, Lee BH. Yonsei Med J. 2020 Feb;61(2):198-200.
28. Cost-effectiveness of Pharmaceutical Interventions to Prevent Osteoporotic Fractures in Postmenopausal Women with Osteopenia. **Kwon JW**, Park HY, Kim YJ, Moon SH, Kang HY. J Bone Metab. 2016 May;23(2):63-77.

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