

# Curriculum Vitae

## Jae Hyup Lee, M.D., Ph.D.

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### ■ Basic



### ■ Current Academic Appointment

Professor (tenure), Department of Orthopaedic Surgery, Seoul National University  
College of Medicine

President and CEO of SMG-SNU Boramae Medical Center, Seoul, Korea

## ■ Education

- 2002 - 2004: Ph.D. Orthopedic Surgery from Seoul National University, College of Medicine, Seoul, Korea
- 1999 - 2001: Master Degree from Korea University, Graduate School, Seoul, Korea
- 1989 - 1995: Graduated Seoul National University College of Medicine and obtained certificate of medical doctor (M.D. degree from Seoul National University College of Medicine, Seoul, Korea)

## ■ Career

- 2023.03~present2023.03: President and CEO of SMG-SNU Boramae Medical Center, Seoul, Korea
- 2019.06~2023.03: Vice President of SMG-SNU Boramae Medical Center, Seoul, Korea
- 2016.06~2019.05: Dean of the Preliminary Medicine, Seoul National University Medical College, Seoul, Korea
- 2015.03~ present: Professor, Department of Orthopedic Surgery, Seoul National University Medical College, Seoul, Korea
- 2010.01~2012.01, 2016.8~present: Chief of Department of Orthopedic Surgery, SMG-SNU Boramae Medical Center, Seoul, Korea
- 2010.01~~present: Director of Joint and Spine Center, SMG-SNU Boramae Medical Center, Seoul, Korea
- 2010.01~2015.02: Associate Professor, Department of Orthopedic Surgery, Seoul National University Medical College, Seoul, Korea
- 2007.09~2010.02: Assistant Professor, Department of Orthopedic Surgery, Seoul National University Medical College, Seoul, Korea
- 2005.09~2007.08: Clinical Assistant Professor, Department of Orthopedic Surgery, Seoul National University Medical College, SMG-SNUH Boramae Medical Center, Seoul, Korea
- 2004.03~2005.08: Assistant Professor, Department of Orthopedic Surgery, Gachon Medical School, Incheon, Korea
- 2003.03~2004.02: Instructor and Clinical Fellow in Department of Orthopedic Surgery, Spine subspecialty, Seoul National University Hospital, Seoul, Korea
- 2002.03~2003.02: Instructor and Research Fellow in Department of Orthopedic

Surgery, Spine subspecialty, Seoul National University Hospital, Seoul, Korea

- 2000.02~2004.01: Army Surgeon, 9<sup>th</sup> air-borne troops, Bucheon, Korea
- 1996.03~2000.02: Residency of Orthopedic Surgery, Seoul National University Hospital, Seoul, Korea
- 1995.03~1996.02: Internship in Seoul National University Hospital, Seoul, Korea

## ■Membership

- 1996 ~ present: Korean Society of Orthopedic Surgery
- 2002 ~ present: Korean Society of Spine Surgery
- 2004 ~ present: Korean Fracture Society
- 2004 ~ present: Korean Bone and Joint Tumor Society
- 2004 ~ present: Korean Orthopedic Research Society
- 2005 ~ present: Korean Society of Bone Metabolism
- 2005 ~ present: Korean Society of Osteoporosis
- 2006 ~ present: Korean Society of Spinal Cord Injury
- 2008 ~ present: North American Spine Society
- 2009 ~ present: Spine Arthroplasty Society
- 2009 ~ present: Orthopaedic Research Society
- 2010 ~ present: Korean Pain Research Society
- 2010 ~ present: Korean Tissue Engineering and Regenerative Medicine Society
- 2011~ present: Korean Society for the Advancement of Spine Surgery
- 2011~ present: Korean Orthopaedic Pain Society
- 2011 ~ present: American Society for Bone and Mineral Research
- 2011 ~ present: International Society for the Advancement of Spine Surgery
- 2012 ~ present: Korean Society for Biomaterials
- 2011 ~ present: Korean Association of Orthopedic Surgeons
- 2012 ~ present: Korean Society of Stem Cell and Regenerative Medicine for Locomotor System
- 2017 ~ present: Korean Academy of Independent Medical Examiners
- 2018 ~ present: Asia Pacific Orthopaedic Association (APOA) active member

## ■Social Activity

- 2005 ~ present: Member of Medical Committee, Korea Volleyball Association
- 2006 ~ 2019: Consulting doctor, National Pension Corporation
- 2011 ~ 2019: Consultant, Korea Workers Compensation and Welfare Service
- 2013 ~ 2014: Member of Review and Evaluation of Medical Treatment Committee, Health Insurance Review and Assessment Service
- 2013 ~ 2015: Member of Medical Device Committee, Ministry of Drug and Food Safety
- 2013 ~ 2015: Member of Evaluation Committee of Clinical Practice Guideline, Korean Academy of Medical Science
- 2014 ~ present: Member of Committee, International Data Communication ISO/TC 150, Korean Agency for Technology and Standards
- 2015 ~ present: Member of Steering Committee, Speciality Examination, Korean Academy of Medical Science
- 2015 ~ present: Vice chairman of Medical Committee, Korea Volleyball Association
- 2015 ~ present: Expert Committeeman of Orthopedic Surgery, Korea Consumer Agency
- 2016 ~ present: Consultant of Review and Evaluation of Medical Treatment Committee, Health Insurance Review and Assessment Service
- 2021 ~ present: Chairman of Medical Committee, Korea Volleyball Association

## ■Awards and honors

- 2004 Best paper award: The Explanation of Postoperative Change of Vertebral Rotation and Rib Hump Using 3 Dimensional Finite Element Scoliosis Model, Jeong-Hyun Ha, **Jae Hyup Lee**, Young-Jun Ahn, Chang-Kyu Son, Kwang-Hee Lee, Hyung-Yun Choi, Young-Eun Kim, Choon-Ki Lee, The 21th Spring Congress The Korean Society of Spine Surgery. May, 2004.
- 2005 Poster award: The 2005 Annual meeting of ISSLS (International Society for the Study of the Lumbar Spine). May 10-14, 2005. Diagnosis of lumbar lateral disc herniation: Value of magnetic resonance imaging revisited. Sung-Kyu Park, Jin Sup Yeom, Choon-Ki Lee, Bong-Soon Chang, Jae-Hak Lee, **Jae-Hyup Lee**, Sung-Hyun Kim.
- 2006 Best paper award: Evaluation of Osteosynthesis in CaO-SiO<sub>2</sub>-P<sub>2</sub>O<sub>5</sub>-B<sub>2</sub>O<sub>3</sub> Glass-ceramics by Posterolateral Fusion of Rabbit Lumbar vertebrae, **Jae Hyup Lee**,

Kun-Woo Park, Kwang Sup Song, Hyun-Seung Ryu, Jun-Hyuk Seo, Kug Sun Hong, Hwan Kim, Bong-Soon Chang, Choon-Ki Lee The 23<sup>rd</sup> Spring Congress The Korean Society of Spine Surgery. May, 2006.

■2007 Best presentation award: Fusion rates and subsidence of moselized local bone grafted wedge shaped titanium cage in PLIF –Quantitative analysis using 3D CT scan-, **Jae Hyup Lee**, Do-Whan Jeon, Seok-Jae Lee, El-O Jung, Ji-Ho Lee, Bong-Soon Chang, Choon-Ki Lee, The 24<sup>th</sup> Fall Annual Congress The Korean Society of Spine Surgery, Oct 30, 2007

■Medtronic Spine Fellowship, The 25th Fall Annual Congress The Korean Society of Spine Surgery, May 25, 2007

■2010 Best paper award: Comparative study of fusion rate induced by different dosages of E.coli-expressed recombinant human bone morphogenic protein-2 using Hydroxyapatite carrier, **Jae Hyup Lee**, Chang Hun Yu, Jae Jun Yang, Hae-Ri Baek, Soo-Jeong Jang, Kyung-Mee Lee, Bong-Soon Chang, Choon-Ki Lee, The 22<sup>th</sup> Sping Annual Congress The Korean Bone Mineral Research Society, May 15, 2010

■2011 Best paper award: The insertional torque of a pedicle screw has a positive correlation with bone mineral density in posterior lumbar pedicle screw fixation, **Jae Hyup Lee**, Ji-Ho Lee, Jae Woo Park, Young Ho Shin, The Fall Annual Congress of the Korean Osteoporosis Society, Dec 11, 2011

■2012 DaeWon CiOS(Clinics in Orthopedic Surgery) Best paper award: The first clinical trial of beta-calcium pyrophosphate as a novel bone graft extender in instrumented posterolateral lumbar fusion, **Jae Hyup Lee**, Bong-Soon Chang, Ul-Oh Jeung, Kun-woo Park, Min-Seok Kim, Choon-Ki Lee, The 56<sup>th</sup> Fall Annual Congress of the Korean Orthopedic Association, Oct 19, 2012

■2012 Travel Award, **Jae Hyup Lee**, The Fall Annual Congress of the Korean Osteoporosis Society, Oct 21, 2012

■2013 AFOS Traveling award, The 3<sup>rd</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies, Sep 8, 2013

■2013 CiOS(Clinics in Orthopedic Surgery) SK award. The 57<sup>th</sup> Fall Annual Congress of the Korean Orthopedic Association, Oct 18, 2013

■2014 Best paper award: The effects of osteoporosis on the osteoinduction of human bone morphogenetic protein-2: rat fibular defect model. **Jae Hyup Lee**, Hae-Ri Baek, Kyung Mee Lee, Guang Bin Zheng, The Fall Annual Congress of the Korean Osteoporosis Society, Oct 26, 2014

■2015 Best paper award (basic research): Acute intravenous injection toxicity study of Escherichia coli-derived recombinant human bone morphogenetic protein-2. **Jae Hyup**

- Lee, Eui-Nam Lee, Bong-Soon Chang, Choon-Ki Lee, The 32<sup>th</sup> Spring Annual Congress The Korean Society of Spine Surgery, May 29, 2015
- 2015 CiOS(Clinics in Orthopedic Surgery) SK award. The 59<sup>th</sup> Fall Annual Congress of the Korean Orthopedic Association, Oct 16, 2015
  - 2016 Best presentation award: Comparison of bone fusion between Activin A / BMP-2 chimera (AB204) and rhBMP-2 using lumbar posterolateral fusion model of Beagle dog, Guang Bin Zheng, Byung-Hak Yoon, Hae-Ri Baek, **Jae Hyup Lee**, The 33<sup>th</sup> Spring Annual Congress The Korean Society of Spine Surgery, May 27, 2016
  - 2016 The very best treatise of the year, “Effects of ovariectomy and corticosteroid-induced osteoporosis on the osteoinduction of rhBMP-2 in a segmental long-bone defect model”, International Conference of Osteoporosis 2016 Seoul
  - 2017 The best paper award, “Efficacy of E.coli-derived rhBMP-2 in Posterolateral Lumbar Fusion: an open, active-controlled, randomized, multicenter trial”, PASMIS 2017 (17<sup>th</sup> Pacific and Asian Society of Minimally Invasive Spine Surgery), Sapporo, Japan, July 28, 2017
  - 2017 AFOS traveling award, The 5<sup>th</sup> Scientific Meeting of the Asian Federation of Osteoporosis Societies, Hilton hotel, Kuala Lumpur, Malaysia, 6<sup>th</sup>-8<sup>th</sup> October, 2017.
  - 2018 ICO 2018 Seoul, Best paper award, Efficacy and safety of vertebroplasty and kyphoplasty in osteoporotic vertebral burst fracture, Seoul, Korea, 13<sup>th</sup>-14<sup>th</sup> October, 2018
  - 2019 CGBio Midcareer Research Award, Seongnam, Fall Meeting of the Korean Society of Biomaterials 2019, September 19, 2019
  - 2020 Best paper award (clinical research): Investigation of Comorbidity, Trauma History, and Osteoporotic Fractures in the Postmenopausal Population: A Nationwide, Observational, and Cross- Sectional Study of Korean Orthopedic Outpatient Clinics, The 327<sup>th</sup> Spring Annual Congress The Korean Society of Spine Surgery, October 2, 2020
  - 2022 Dentium academic award, Fall Meeting of the Korean Society of Biomaterials 2022, September 29, 2023
  - 2022 Best paper award, Fall Meeting of the Korean Society of Stem Cell and Regenerative Medicine for Locomotor System 2022, November 13, 2022

## ■ Professional Activities

- 2005 ~ 2008: Committee member on Internet Home Page and Indexing of Journal of KSSS, Korean Society of Spine Surgery,
- 2005 ~ 2010: Committee member on Spinal Cord Research Society of Korean Society of Spine Surgery
- 2006 ~ present: Committee member on Spinal Basic Research Society of Korean Society of Spine Surgery
- 2006 ~ present: Reviewer of the Journal of the Korean Orthopaedic Association
- 2007 ~ 2015: Reviewer of the Asian Spine Journal
- 2009 ~ 2020: Scientific committee of Program of Korean Orthopaedic Research Society
- 2021 ~ present: Board of Directors of Korean Orthopaedic Research Society
- 2010 ~ 2015: Vice president of committee of Education of Korean Pain Research Society
- 2011 ~ 2013: Committee on Scientific Program of Korean Society of Bone Metabolism
- 2011 ~ 2015: Committee on Scientific Program of Korean Society of Osteoporosis
- 2011 ~ present: Reviewer of the Journal of the Korean Fracture Society
- 2011 ~ present: Editorial Board of the Journal of Advanced Spine Surgery
- 2012 ~ 2016: Editorial Board of the Osteoporosis (The Korean Society of Osteoporosis)
- 2012 ~ 2013: Secretary and Treasurer of Korean Orthopaedic Association
- 2012 ~ present: Board of Directors of the Korean Spinal Cord Society
- 2013 ~ 2018: Editorial Board of the Journal of Korean Society of Spine Surgery
- 2013 ~ 2016: Board of Directors of Korean Pain Research Society
- 2014 ~ present: Member of Board of Scientific Committee of Korean Association of Orthopedic Surgeons
- 2014 ~ present: Board of Directors of the Korean Society for Biomaterials
- 2015 ~ present: Director of the Committee on Scientific Program of Korean Society of Osteoporosis
- 2015 ~ 2020: Committee on Scientific Program of Korean Society of Stem Cell and Regenerative Medicine for Locomotor System
- 2021 ~ present: Board of Directors of Korean Society of Stem Cell and Regenerative Medicine for Locomotor System
- 2015 ~ 2020: Associate editor of the Biomaterials Research
- 2015 ~ present: Active member of AO Spine
- 2015 ~ present: Editorial Board of the Journal of Korean Medical Science

- 2017 ~ present: Board of Directors of the Korean society for the Advancement of Spine Surgery
- 2017 ~ present: Deputy editor-in chief of the Osteoporosis and sarcopenia
- 2018 ~ present: Chairman of Scientific Committee of the Korean Society of Osteoporosis
- 2019 ~ present: Secretary General of Korean Society of Spinal Surgery
- 2019 ~ present: Editorial Board of the Clinics in Orthopedic Surgery
- 2019 ~ present: Editorial Board of the Journal of the Korean Orthopaedic Association
- 2020.1. ~ 2020.12: Secretary General of Korean Society of Biomaterials
- 2021.1. ~ 2023.12: Vice President of Korean Society of Biomaterials

Jae Hyup Lee, MD, PhD