

CURRICULUM VITAE



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Current Position Chief of Musculoskeletal Tumor Center
Seoul National University Cancer Hospital
Attending member
Seoul National University Children's Hospital
Professor
Department of Orthopaedic Surgery
Seoul National University College of Medicine

Education:

Mar.1982 - Feb.1988 Doctor of Medicine
Seoul National University College of Medicine, Seoul
Mar.1993 - Feb.1995 Master of Science in Medicine
Seoul National University
Mar.1995 - Feb.1999 Doctor of Philosophy in Medicine
Seoul National University

Post-Graduate Training:

Mar.1988 - Feb.1989 Intern, Seoul National University Hospital
Mar.1989 - Feb.1993 Residency, Department of Orthopaedic Syrgery
Seoul National University Hospital
Mar.1995 - Feb.1996 Research fellow
School of Material Science and Engineering
Seoul National University
Sep. 2000 – Jun. 2002 Research fellow
Department of Surgery, Orthopaedic Service
Memorial Sloan-Kettering Cancer Center, New York, USA

License & Certification

1988 Doctor of medicine, the Korean Medical Association
1988 ECFMG Certificate, USA
1993 Board of Certification, the Korean Orthopedic Association

Professional Experiences:

Mar.1993 - Feb.1995 Attending Staff, Department of Orthopaedic Surgery
Seoul City Boramae Hospital affiliated to Seoul National University
Hospital, Seoul, Korea

Sep.1996 - Aug.2000 Instructor, Department of Orthopaedic Surgery
Seoul National University College of Medicine
Seoul National University Hospital

Sep. 2000 – Jun. 2002 Research fellow
Department of Surgery, Orthopaedic Service
Memorial Sloan-Kettering Cancer Center, New York, USA

Sep. 2000 – Sep.2005 Assistant professor
Department of Orthopaedic Surgery
Seoul National University College of Medicine

May 2005 Secretary General, 13th ISOLS Meeting in Seoul

Oct. 2005 – Sep. 2010 Associate Professor
Department of Orthopaedic Surger
Seoul National University College of Medicine

Jun. 2006 – Aug. 2006 Visiting Scholar
Department of Orthopaedic Surgery
Massachusetts General Hospital
Beth Israel Deaconess Medical Center & Children's Hospital, Boston

Oct. 2010 – Dec. 2013 Professor
Department of Orthopaedic Surgery
Seoul National University College of Medicine

Jun, 2010 – Aug. 2010 Visiting Scholar
Department of Orthopaedic Surgery
University of Washington Medical Center & Seattle Cancer Care Alliance
Seattle, USA

Mar. 2011 – Present Chief, Musculoskeletal Tumor Center
Seoul National University Cancer Hospital

Jan. 2014 – Present Tenured Professor
Department of Orthopaedic Surgery
Seoul National University College of Medicine

Jun. 2014 – Aug. 2014 Visiting scholar, Mount Sinai Hospital, University of Toronto

Scientific and Medical Societies:

1989 The Korean Medical Association
1993 The Korean Orthopedic Association

- 1995 The Korean Orthopedic Research Society
- 1996 The Korean Bone and Joint Tumor Society
- 1997 Connective Tissue Oncology Society (CTOS)
- 1997 International Society of Limb Salvage (ISOLS)
- 1998 Asia-Pacific Musculoskeletal Tumor Society (APMSTS)
- 2001 American Association of Cancer Research (AACR)
- 1998 Orthopaedic Research Society (ORS), USA

Recent Publications

Kim W, Han I, Cho HS, Kang S, Kim HS. Cortical Atrophy Related to Tumor Prosthesis in Skeletally Immature Osteosarcoma Patients. *J Pediatr Orthop*. 2016 Jan 11. [Epub ahead of print]:

Cho HS, Park YK, Oh JH, Lee JH, Han I, Kim HS. Proximal Tibia Chondroblastoma Treated With Curettage and Bone Graft and Cement Use. *Orthopedics*. 2015 Dec 31:1-6.

Shin SH, Choi YJ, Lee H, Kim HS, Seo SW. Oxidative stress induced by low-dose doxorubicin promotes the invasiveness of osteosarcoma cell line U2OS in vitro. *Tumour Biol*. 2015 Aug 23. [Epub ahead of print]

Kang S, Kim HS, Han I. Unplanned Excision of Extremity Soft Tissue Sarcoma in Korea: A Nationwide Study Based on a Claims Registry. *PLoS One*. 2015 Aug 3;10(8):e0134354.

Bindiganavile S, Han I, Yun JY, Kim HS. Long-term Outcome of Chondrosarcoma: A Single Institutional Experience. *Cancer Res Treat*. 2015 Oct;47(4):897-903

Kang S, Kim HS, Choi ES, Han I. Incidence and Treatment Pattern of Extremity Soft Tissue Sarcoma in Korea, 2009-2011: A Nationwide Study Based on the Health Insurance Review and Assessment Service Database. *Cancer Res Treat*. 2015 Oct;47(4):575-82.

Joo MW, Shin SH, Kang YK, Kawai A, Kim HS, Asavamongkolkul A, Jeon DG, Kim JD, Niu X, Tsuchiya H, Puri A, Wang EH, Chung SH, Chung YG. Osteosarcoma in Asian Populations Over the Age of 40 Years: A Multicenter Study. *Ann Surg Oncol*. 2015 Oct;22(11):3557-64.

Lin PP, Kang HG, Kim YI, Kim JH, Kim HS. Minimally invasive surgery for femoral neck fractures using bone cement infusible hollow-perforated screw in high-risk patients with advanced cancer. *Surg Oncol*. 2015 Sep; 24(3):226-31.

Kim HS, Im SB, Han I. Osteoarthritis of the hip in fibrous dysplasia of the proximal femur. *Bone Joint J*. 2015 Jul;97-B(7):1007-11.

Kim HS, Yun J, Kang S, Han I. Cross-cultural adaptation and validation of the Korean Toronto Extremity Salvage Score for extremity sarcoma. *J Surg Oncol*. 2015 Jul;112(1):93-7.

Choi ES, Han I, Cho HS, Kang HG, Kim JH, Kim HS. Distinct Clinical Characteristics of Unplanned Excision in Synovial Sarcoma. *Clin Orthop Surg*. 2015 Jun;7(2):254-60.

Kim HS, Bindiganavile SS, Han I. Oncologic outcome after local recurrence of chondrosarcoma: Analysis of prognostic factors. *J Surg Oncol.* 2015 Jun;111(8):957-61.

Kim W, Han I, Kim EJ, Kang S, Kim HS. Outcomes of curettage and anhydrous alcohol adjuvant for low-grade chondrosarcoma of long bone. *Surg Oncol.* 2015 Jun;24(2):89-94.

Kang S, Kim HS, Kim W, Kim JH, Kang SH, Han I. Comorbidity is Independently Associated with Poor Outcome in Extremity Soft Tissue Sarcoma. *Clin Orthop Surg.* 2015 Mar;7(1):120-30.

Kim W, Han I, Jae HJ, Kang S, Lee SA, Kim JS, Kim HS. Preoperative embolization for bone metastasis from hepatocellular carcinoma. *Orthopedics.* 2015 Feb;38(2):e99-e105

Kang S, Yoo HJ, Kim HS, Han I. Soft tissue sarcoma misdiagnosed as benign peripheral neurogenic tumor. *J Orthop Sci.* 2015 Jan;20(1):180-5.

Kang S, Han I, Hong SH, Cho HS, Kim W, Kim HS. The MRI appearances of cancellous allograft bone chips after the excision of bone tumours. *Bone Joint J.* 2015 Jan;97-B(1):121-8

Kim YI, Kang HG, Kim TS, Kim SK, Kim JH, Kim HS. Palliative percutaneous stabilization of lower extremity for bone metastasis using flexible nails and bone cement. *Surg Oncol.* . 2014 Dec;23(4):192-8.

Han I, Kim JH, Cho HS, Kim HS. Low-heat treated autograft versus allograft for intercalary reconstruction of malignant bone tumors. *J Surg Oncol.* 2014 Dec;110(7):823-7.

Song S, Park J, Kim HJ, Kim IH, Han I, Kim HS, Kim S. Effects of Adjuvant Radiotherapy in Patients With Synovial Sarcoma. *Am J Clin Oncol.* 2014 Oct 27. [Epub ahead of print]

Yoo HJ, Hong SH, Kang Y, Choi JY, Moon KC, Kim HS, Han I, Yi M, Kang HS. MR imaging of myxofibrosarcoma and undifferentiated sarcoma with emphasis on tail sign; diagnostic and prognostic value. *Eur Radiol.* 2014 Aug;24(8):1749-57.

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Chung SW, Han I, Oh JH, Shin SH, Cho HS, Kim HS. Prognostic effect of erroneous surgical procedures in patients with osteosarcoma: evaluation using propensity score matching. *J Bone Joint Surg Am.* 2014 Apr 16;96(8):e60

Lee JW, Shin HY, Kang HJ, Kim H, Park JD, Park KD, Kim HS, Park SH, Wang KC, Ahn HS. Clinical Characteristics and Treatment Outcome of Langerhans Cell Histiocytosis: 22 Years' Experience of 154 Patients at a Single Center. *Pediatr Hematol Oncol.* 2014 Apr;31(3):293-302.

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- Kim HS, Park IH, Seo SH, Han I, Cho HS. Multifocal infection of mycobacterium other than tuberculosis mimicking a soft tissue tumor of the extremity. *Orthopedics*. 2011 Dec 6;34(12):e952-5.
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Yang R, Li WW, Hoang B, Kim HS, Banerjee D, Kheradpour A, Healey JH, Meyers PA, Bertino JR, Gorlick R. Quantitative Correlation between Promoter Methylation and Messenger RNA Levels of the Reduced Folate Carrier. *Journal: BMC Cancer*. 2008 May 1;8:124.

Kubo T, Piperdi S, Rosenblum J, Antonescu CR, Chen W, Kim HS, Huvos AG, Sowers R, Meyers PA, Healey JH, Gorlick R. Platelet-derived growth factor receptor as a prognostic marker and a therapeutic target for imatinib mesylate therapy in osteosarcoma. *Cancer*. 2008 May 15;112(10):2119-29.

Han I, Oh JH, Na YG, Moon KC, Kim HS. Clinical outcome of parosteal osteosarcoma. *J Surg Oncol*. 2008 Feb 1;97(2):146-9.

Kim SR, Kim YH, Kwon WT, Kim HS, Choi YM, Ha SM, Kim HJ. Biocompatibility evaluation of porous Si-containing hydroxyapatite derived from coral. *Key Engineering Materials* 2008; Vols. 361-363:131-134.

Kim HS, Kim KJ, Han I, Oh JH, Lee SH. The use of pasteurized autologous grafts for periacetabular reconstruction. *Clin Orthop Relat Res*. 2007 Nov;464:217-23.

Kang HG, Kim HS, Kim KJ, Oh JH, Lee MR, Seol SM, Han I. RECK expression in osteosarcoma: correlation with matrix metalloproteinases activation and tumor invasiveness. *J Orthop Res*. 2007 May;25(5):696-702.

Cho HS, Oh JH, Kim HS, Kang HG, Lee SH. Unicameral bone cysts: a comparison of injection of steroid and grafting with autologous bone marrow. *J Bone Joint Surg Br*. 2007 Feb;89(2):222-6.

Oh JH, Yoon PW, Lee SH, Cho HS, Kim WS, Kim HS. Surgical treatment of giant cell tumour of long bone with anhydrous alcohol adjuvant. *Int Orthop*. 2006 Dec;30(6):490-4.

Oh JH, Kim HS, Kim HH, Kim WH, Lee SH. Aberrant methylation of p14ARF gene correlates with poor survival in osteosarcoma. *Clin Orthop*. 2006;442:216-22.

Kang S, Kim HS, Kim S, Kim W, Han I. Post-metastasis survival in extremity soft tissue sarcoma: A recursive partitioning analysis of prognostic factors. *Eur J Cancer*. 2014 Jun;50(9):1649-56.

- Han I, Choi ES, Kim HS. Monostotic fibrous dysplasia of the proximal femur: natural history and predisposing factors for disease progression. *Bone Joint J.* 2014 May;96-B(5):673-6.
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- Lee JW, Shin HY, Kang HJ, Kim H, Park JD, Park KD, Kim HS, Park SH, Wang KC, Ahn HS. Clinical Characteristics and Treatment Outcome of Langerhans Cell Histiocytosis: 22 Years' Experience of 154 Patients at a Single Center. *Pediatr Hematol Oncol.* 2014 Apr;31(3):293-302
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Kim JH, Oh JH, Han IK, Kim H-S, Chung SW. Grafting Using Injectable Calcium Sulfate in Bone Tumor Surgery: Comparison with Demineralized Bone Matrix-based Grafting Clin Orthop Surg. 2011 Sep(3); 191- 201.

Cho HS, Park IH, Jeong WJ, Han I, Kim HS. Prognostic Value of Computed Tomography for Monitoring Pulmonary Metastases in Soft Tissue Sarcoma Patients after Surgical Management: A Retrospective Cohort Study. Ann Surg Oncol. 2011 Nov;18(12):3392-8.

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Cho HS, Park IH, Jeon IH, Kim YG, Han I, Kim HS. Direct application of MR images to computer-assisted bone tumor surgery. J Orthop Sci. 2011 Mar;16(2):190-5.

Jung HG, Carag JA, Park JY, Bae EJ, Lim SD, Kim HS. Osteochondroma of the calcaneus presenting as Haglund's deformity. Foot Ankle Surg. 2011 Jun;17(2):e20-2..

Han I, Kang HG, Kang SC, Choi JR, Kim HS. Does Delayed Reexcision Affect Outcome After Unplanned Excision for Soft Tissue Sarcoma? Clin Orthop Relat Res. 2011 Mar;469(3):877-83.

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