

CURRICULUM VITAE

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• Education and Training

2015–present Postgraduate School, Seoul National University (PhD)
2009–2014 Postgraduate School, Seoul National University (Master of Medical Science)
2001–2005 Seoul National University College of Medicine (MD)
1998–2001 Premedical Course, College of Liberal Arts & Science,
Seoul National University Hospital

• Brief Chronology of Employment

2022–present **Associate Professor, Cardiology**
Seoul National University Bundang Hospital, Seongnam-si, Korea
2016–2022 **Assistant Professor, Cardiology**
Seoul National University Bundang Hospital, Seongnam-si, Korea
2020–2022 **Visiting researcher**
Google Health, Palo Alto, CA, USA
2013–2016 **Clinical Fellow, Cardiology**
Seoul National University Hospital, Seoul, Korea
2011–2013 **Medical Officer**
Ministry of National Defense, Seoul, Korea
2010–2011 **Medical Officer**
UN Command Security Battalion of Joint Security Area
2006–2010 **Residency in Internal Medicine**
Seoul National University Hospital, Seoul, Korea
2005–2006 **Internship**
Seoul National University Hospital, Seoul, Korea

• Professional Memberships

2018 Member, International Society of Hypertension

2018 Member, European Society of Hypertension
2017 Member, Korean Society of Hypertension
2017 Member, European Society of Cardiology
2016 Member, Korean Society of Interventional Cardiology
2015 Member, Korean Society of Cardiology
2015 Member, Korean Heart Rhythm Society
2012 Member, Korean Society of Echocardiography
2010 Member, Korean Society of Internal Medicine

• **Latest GCP Training**

March 22, 2023 Clinical Trials Center, Seoul National University Bundang Hospital

• **Publications**

1. Lim WH, Kang SH, Jeon K, Cho I, Kim KH, Hwang SW, Kim HK and Sohn DW. Asymptomatic Right Coronary Artery-to-Pulmonary Artery Fistula Incidentally Detected by Transthoracic Echocardiography. *J Cardiovasc Ultrasound*. 2009 Sep;17:106-9.
2. Jeon K, Lim WH, Kang SH, Cho I, Kim KH, Kim HK, Kim YJ and Sohn DW. Delayed diagnosis of traumatic ventricular septal defect in penetrating chest injury: small evidence on echocardiography makes big difference. *J Cardiovasc Ultrasound*. 2010 Mar;18:28-30.
3. Kang SH, Park KH, Choi DJ, Park KW, Chung WY, Lim C, Kim KB and Kim HS. Coronary artery bypass grafting versus drug-eluting stent implantation for left main coronary artery disease (from a two-center registry). *Am J Cardiol*. 2010 Feb 01;105:343-51.
4. Park KW, Kang SH, Chung WY, Lee HY, Park JS, Kang HJ, Cho YS, Youn TJ, Koo BK, Chae IH, Choi DJ, Hahn S, Park BJ and Kim HS. 'Real world' comparison of drug-eluting stents vs bare metal stents in the treatment of unselected patients with acute ST-segment elevation myocardial infarction. *Circ J*. 2010 Jun;74:1111-20.
5. Park KW, Jeon KH, Kang SH, Oh IY, Cho HJ, Lee HY, Kang HJ, Park SK, Koo BK, Oh BH, Park YB and Kim HS. Clinical outcomes of high on-treatment platelet reactivity in Koreans receiving elective percutaneous coronary intervention (from results of the CROSS VERIFY study). *Am J Cardiol*. 2011 Dec 01;108:1556-63.
6. Park KW, Kang SH, Park KH, Choi DH, Lee HY, Kang HJ, Cho YS, Yeon TJ, Chung WY, Koo BK, Chae IH, Choi DJ, Oh BH, Park YB and Kim HS. Sirolimus- vs. paclitaxel-eluting stents for the treatment of unprotected left main coronary artery stenosis: complete 2-year follow-up of a two-center registry. *Int J Cardiol*. 2011 Aug 18;151:89-95.
7. Park KW, Park JJ, Jeon KH, Kang SH, Oh IY, Yang HM, Cho HJ, Lee HY, Kang HJ, Koo BK, Oh BH, Park YB and Kim HS. Enhanced clopidogrel responsiveness in smokers: smokers' paradox is dependent on cytochrome P450 CYP1A2 status. *Arterioscler Thromb Vasc Biol*. 2011 Mar;31:665-71.
8. Kang SH, Suh JW, Yoon CH, Cho MC, Kim YJ, Chae SC, Yoon JH, Gwon HC, Han KR, Kim JH, Ahn YK, Jeong MH, Kim HS and Choi DJ. Sex differences in management and mortality of patients with ST-elevation myocardial infarction (from the Korean Acute Myocardial Infarction National Registry). *Am J Cardiol*. 2012 Mar 15;109:787-93.
9. Lee MS, Park KW, Kang SH, Sheiban I, Mahmud E, Thani KB, Cheng R, Cho JH, Jin DK, Gwon HC, Chae IH, Aragon J, Gillis K, Stone GW and Kim HS. Multicenter

- international registry of unprotected left main coronary artery percutaneous coronary intervention with everolimus-eluting stents. *J Invasive Cardiol.* 2012 Jul;24:316-9.
10. Oh IY, Park KW, Kang SH, Park JJ, Na SH, Kang HJ, Koo BK, Jeong YH, Hwang JY, Kwak CH, Park Y, Hwang SJ, Ko YG, Shin DJ, Jang Y and Kim HS. Association of cytochrome P450 2C19*2 polymorphism with clopidogrel response variability and cardiovascular events in Koreans treated with drug-eluting stents. *Heart.* 2012 Jan;98:139-44.
 11. Park KW, Kang SH, Kang J, Jeon KH, Park JJ, Han JK, Koh JS, Lee SE, Yang HM, Lee HY, Kang HJ, Koo BK, Oh BH, Park YB and Kim HS. Enhanced clopidogrel response in smokers is reversed after discontinuation as assessed by VerifyNow assay: additional evidence for the concept of 'smokers' paradox'. *Heart.* 2012 Jul;98:1000-6.
 12. Park KW, Kang SH and Kim HS. Response to "Sirolimus or paclitaxel drug eluting stent in left main disease: the winner is...". *Int J Cardiol.* 2012 Jan 26;154:192-3.
 13. Park KW, Park BE, Kang SH, Park JJ, Lee SP, Cha KS, Rhew JY, Jeon HK, Shin ES, Oh JH, Jeong MH, Kim S, Hwang KK, Yoon JH, Lee SY, Park TH, Moon KW, Kwon HM, Chae IH and Kim HS. The 'Harmonizing Optimal Strategy for Treatment of coronary artery stenosis - sAfety & effectiveness of drug-elUting stents & antiplatelet REgimen' (HOST-ASSURE) trial: study protocol for a randomized controlled trial. *Trials.* 2012 Mar 31;13:29.
 14. Park KW, Park JJ, Jeon KH, Kang SH, Oh IY, Yang HM, Cho HJ, Lee HY, Kang HJ, Koo BK, Oh BH, Park YB and Kim HS. Clinical predictors of high posttreatment platelet reactivity to clopidogrel in Koreans. *Cardiovasc Ther.* 2012 Feb;30:5-11.
 15. Kang SH, Suh JW, Choi DJ, Chae IH, Cho GY, Youn TJ, Cho YS, Yoon CH, Oh IY, Cho MC, Kim YJ, Chae SC, Kim JH, Ahn YK and Jeong MH. Cigarette smoking is paradoxically associated with low mortality risk after acute myocardial infarction. *Nicotine Tob Res.* 2013 Jul;15:1230-8.
 16. Kim HL, Kang SH, Yoon CH, Cho YS, Youn TJ, Cho GY, Chae IH, Kim HS, Chae SC, Cho MC, Kim YJ, Kim JH, Ahn Y, Jeong MH and Choi DJ. Differential prognostic impacts of diabetes over time course after acute myocardial infarction. *J Korean Med Sci.* 2013 Dec;28:1749-55.
 17. Park HW, Yoon CH, Kang SH, Choi DJ, Kim HS, Cho MC, Kim YJ, Chae SC, Yoon JH, Gwon HC, Ahn YK and Jeong MH. Early- and late-term clinical outcome and their predictors in patients with ST-segment elevation myocardial infarction and non-ST-segment elevation myocardial infarction. *Int J Cardiol.* 2013 Nov 15;169:254-61.
 18. Park JJ, Park KW, Kang J, Jeon KH, Kang SH, Ahn HS, Han JK, Koh JS, Lee SE, Yang HM, Lee HY, Kang HJ, Koo BK, Oh BH, Park YB and Kim HS. CYP3A4 genetic status may be associated with increased vulnerability to the inhibitory effect of calcium-channel blockers on clopidogrel. *Circ J.* 2013 77:1289-96.
 19. Park JJ, Park KW, Kang J, Jeon KH, Kang SH, Ahn HS, Han JK, Koh JS, Lee SE, Yang HM, Lee HY, Kang HJ, Koo BK, Oh BH, Park YB and Kim HS. Genetic determinants of clopidogrel responsiveness in Koreans treated with drug-eluting stents. *Int J Cardiol.* 2013 Feb 10;163:79-86.
 20. Park KW, Kang J, Kang SH, Ahn HS, Lee HY, Kang HJ, Koo BK, Chae IH, Youn TJ, Oh BH, Park YB, Kandzari DE and Kim HS. Usefulness of the SYNTAX and clinical SYNTAX scores in predicting clinical outcome after unrestricted use of sirolimus- and everolimus-eluting Stents. *Circ J.* 2013 77:2912-21.
 21. Park KW, Kang SH, Park JJ, Yang HM, Kang HJ, Koo BK, Park BE, Cha KS, Rhew JY, Jeon HK, Shin ES, Oh JH, Jeong MH, Kim S, Hwang KK, Yoon JH, Lee SY, Park TH, Moon KW, Kwon HM, Chae IH and Kim HS. Adjunctive cilostazol versus double-dose clopidogrel after drug-eluting stent implantation: the HOST-ASSURE randomized trial (Harmonizing Optimal Strategy for Treatment of Coronary Artery Stenosis-Safety & Effectiveness of Drug-Eluting Stents & Anti-platelet Regimen). *JACC Cardiovasc Interv.* 2013 Sep;6:932-42.

22. Park KW, Kang SH, Velders MA, Shin DH, Hahn S, Lim WH, Yang HM, Lee HY, Van Boven AJ, Hofma SH, Kang HJ, Koo BK, Oh BH, Park YB, Kandzari DE and Kim HS. Safety and efficacy of everolimus- versus sirolimus-eluting stents: a systematic review and meta-analysis of 11 randomized trials. *Am Heart J*. 2013 Feb;165:241-50.e4.
23. Park KW, Kang SH, Yang HM, Lee HY, Kang HJ, Cho YS, Youn TJ, Koo BK, Chae IH and Kim HS. Impact of intravascular ultrasound guidance in routine percutaneous coronary intervention for conventional lesions: data from the EXCELLENT trial. *Int J Cardiol*. 2013 Aug 10;167:721-6.
24. Park KW, Lee JM, Kang SH, Ahn HS, Yang HM, Lee HY, Kang HJ, Koo BK, Cho J, Gwon HC, Lee SY, Chae IH, Youn TJ, Chae JK, Han KR, Yu CW and Kim HS. Safety and efficacy of second-generation everolimus-eluting Xience V stents versus zotarolimus-eluting resolute stents in real-world practice: patient-related and stent-related outcomes from the multicenter prospective EXCELLENT and RESOLUTE-Korea registries. *J Am Coll Cardiol*. 2013 Feb 05;61:536-44.
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26. Park KW, Lim WH, Kim JH, Kang SH, Seo JW, Song YB, Hahn JY, Lee HY, Kang HJ, Cho YS, Youn TJ, Koo BK, Choi SH, Chae IH, Gwon HC, Choi DJ and Kim HS. Comparison between zotarolimus-eluting stents and first generation drug-eluting stents in the treatment of patients with acute ST-segment elevation myocardial infarction. *Int J Cardiol*. 2013 Jun 05;166:118-25.
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28. Seo JB, Kang SH, Hur SH, Park KW, Youn TJ, Park JS, Yang HM, Lee HY, Kang HJ, Koo BK, Bae JH, Kim SW, Moon KW, Choi JW, Lee SG, Chung WY, Kim SJ, Kim DI, Kim BO, Hyon MS, Park KS, Cha TJ, Yoo CW, Jeon HK and Kim HS. Randomized trial comparing the efficacy between different types of paclitaxel-eluting stents: the comparison of efficacy between COroflex PLEASE AND Taxus stent (ECO-PLEASANT) randomized controlled trial. *Am Heart J*. 2013 May;165:733-43.
29. Kang SH, Park KH, Ahn HS, Park KW, Hong YJ, Koo BK, Jeong MH and Kim HS. Everolimus-eluting versus sirolimus-eluting coronary stents in patients with and without diabetes mellitus. *EuroIntervention*. 2014 May;10:74-82.
30. Kang SH, Park KW, Kang DY, Lim WH, Park KT, Han JK, Kang HJ, Koo BK, Oh BH, Park YB, Kandzari DE, Cohen DJ, Hwang SS and Kim HS. Biodegradable-polymer drug-eluting stents vs. bare metal stents vs. durable-polymer drug-eluting stents: a systematic review and Bayesian approach network meta-analysis. *Eur Heart J*. 2014 May;35:1147-58.
31. Park KW, Kang J, Kang SH, Ahn HS, Kang HJ, Koo BK, Chae IH, Youn TJ, Oh BH, Park YB, Kandzari D and Kim HS. The impact of residual coronary lesions on clinical outcomes after percutaneous coronary intervention: Residual SYNTAX score after percutaneous coronary intervention in patients from the Efficacy of Xience/Promus versus Cypher in rEducing Late Loss after stENTing (EXCELLENT) registry. *Am Heart J*. 2014 Mar;167:384-392.e5.
32. Park KW, Kang SH, Kang HJ, Koo BK, Park BE, Cha KS, Rhew JY, Jeon HK, Shin ES, Oh JH, Jeong MH, Kim S, Hwang KK, Yoon JH, Lee SY, Park TH, Moon KW, Kwon HM, Hur SH, Ryu JK, Lee BR, Park YW, Chae IH and Kim HS. A randomized comparison of platinum chromium-based everolimus-eluting stents versus cobalt chromium-based Zotarolimus-Eluting stents in all-comers receiving percutaneous coronary intervention: HOST-ASSURE (harmonizing optimal strategy for treatment of coronary artery stenosis-safety & effectiveness of drug-eluting stents & anti-platelet

- regimen), a randomized, controlled, noninferiority trial. *J Am Coll Cardiol*. 2014 Jul 01;63:2805-16.
33. Park KW, Lee JM, Kang SH, Ahn HS, Kang HJ, Koo BK, Rhew JY, Hwang SH, Lee SY, Kang TS, Kwak CH, Hong BK, Yu CW, Seong IW, Ahn T, Lee HC, Lim SW and Kim HS. Everolimus-eluting Xience v/Promus versus zotarolimus-eluting resolute stents in patients with diabetes mellitus. *JACC Cardiovasc Interv*. 2014 May;7:471-81.
 34. Kang SH, Oh IY, Kang DY, Cha MJ, Cho Y, Choi EK, Hahn S and Oh S. Cardiac resynchronization therapy and QRS duration: systematic review, meta-analysis, and meta-regression. *J Korean Med Sci*. 2015 Jan;30:24-33.
 35. Kang SH, Park JJ, Choi DJ, Yoon CH, Oh IY, Kang SM, Yoo BS, Jeon ES, Kim JJ, Cho MC, Chae SC, Ryu KH and Oh BH. Prognostic value of NT-proBNP in heart failure with preserved versus reduced EF. *Heart*. 2015 Dec;101:1881-8.
 36. Lee MH, Lee JM, Kang SH, Yoon CH, Jang Y, Yu CW, Park HS, Lee SH, Hur SH, Kim MH, Rha SW, Gwon HC, Chae IH and Kim HS. Comparison of outcomes after percutaneous coronary intervention for chronic total occlusion using everolimus- versus sirolimus- versus paclitaxel-eluting stents (from the Korean National Registry of Chronic Total Occlusion Intervention). *Am J Cardiol*. 2015 Jul 15;116:195-203.
 37. Kang SH, Chae IH, Park JJ, Lee HS, Kang DY, Hwang SS, Youn TJ and Kim HS. Stent Thrombosis With Drug-Eluting Stents and Bioresorbable Scaffolds: Evidence From a Network Meta-Analysis of 147 Trials. *JACC Cardiovasc Interv*. 2016 Jun 27;9:1203-12.
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 39. Kang SH, Heo J, Oh IY, Kim J, Lim WH, Cho Y, Choi EK, Yi SM, Do Shin S, Kim H and Oh S. Ambient air pollution and out-of-hospital cardiac arrest. *Int J Cardiol*. 2016 Jan 15;203:1086-92.
 40. Kang SH, Oh IY, Heo J, Lee H, Kim J, Lim WH, Cho Y, Choi EK, Yi SM, Sang do S, Kim H, Youn TJ, Chae IH and Oh S. Heat, heat waves, and out-of-hospital cardiac arrest. *Int J Cardiol*. 2016 Oct 15;221:232-7.
 41. Kim YG, Suh JW, Kang SH, Park JJ, Yoon CH, Cho YS, Youn TJ, Chae IH, Choi DJ and Kim HS. Cigarette Smoking Does Not Enhance Clopidogrel Responsiveness After Adjusting VerifyNow P2Y12 Reaction Unit for the Influence of Hemoglobin Level. *JACC Cardiovasc Interv*. 2016 Aug 22;9:1680-90.
 42. Lee SR, Choi EK, Rhee TM, Lee HJ, Lim WH, Kang SH, Han KD, Cha MJ, Cho Y, Oh IY and Oh S. Evaluation of the association between diabetic retinopathy and the incidence of atrial fibrillation: A nationwide population-based study. *Int J Cardiol*. 2016 Nov 15;223:953-957.
 43. Han SS, Park S, Kang SH, Cho GY, Kim DK, Kim S, Chin HJ, Chae DW and Na KY. Usefulness of Preoperative Echocardiography to Predict Acute Kidney Injury and Long-Term Mortality After Coronary Artery Bypass Grafting. *Am J Cardiol*. 2017 Jan 15;119:231-236.
 44. Kang SH, Chung WY, Lee JM, Park JJ, Yoon CH, Suh JW, Cho YS, Doh JH, Cho JM, Bae JW, Youn TJ, Chae IH. Angiographic outcomes of Orsiro biodegradable polymer sirolimus-eluting stents and Resolute Integrity durable polymer zotarolimus-eluting stents: results of the ORIENT trial. *EuroIntervention*. 2017 Jan 20;12(13):1623-1631.
 45. Lim WH, Choi EK, Han KD, Rhee TM, Lee HJ, Lee SR, Kang SH, Cha MJ, Oh S. Proteinuria Detected by Urine Dipstick Test as a Risk Factor for Atrial Fibrillation: A Nationwide Population-Based Study. *Sci Rep*. 2017 Jul 24;7(1):6324
 46. Kang SH, Han D, Kim S, Yoon CH, Park JJ, Suh JW, Cho YS, Youn TJ, Chae IH. Hemostasis pad combined with compression device after transradial coronary procedures: A randomized controlled trial. *PLoS One*. 2017 Jul 24;12(7):e0181099.
 47. Kang SH, Choi EK, Han KD, Lee SR, Lim WH, Cha MJ, Cho Y, Oh IY, Oh S. Risk of Ischemic Stroke in Patients With Non-Valvular Atrial Fibrillation Not Receiving Oral

- Anticoagulants - Korean Nationwide Population-Based Study. *Circ J*. 2017 Jul 25;81(8):1158-1164.
48. Lee H, Choi EK, Lee SH, Han KD, Rhee TM, Park CS, Lee SR, Choe WS, Lim WH, Kang SH, Cha MJ, Oh S. Atrial fibrillation risk in metabolically healthy obesity: A nationwide population-based study. *Int J Cardiol*. 2017 Aug 1;240:221-227.
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 50. Kim S, Kang SH, Han D, Kim SH, Kim HJ, Park JJ, Cho Y, Yoon YE, Han KD, Oh IY, Yoon CH, Suh JW, Lee HY, Cho YS, Youn TJ, Cho GY, Chae IH, Choi DJ, Kim CH. Relation between secondhand smoke exposure and cardiovascular risk factors in never smokers. *J Hypertens*. 2017 Oct;35(10):1976-1982.
 51. Lee H, Choi EK, Rhee TM, Lee SR, Lim WH, Kang SH, Han KD, Cha MJ, Oh S. Cirrhosis is a risk factor for atrial fibrillation: A nationwide, population-based study. *Liver Int*. 2017 Nov;37(11):1660-1667.
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 53. Kang SH, Kim J, Park JJ, Oh IY, Yoon CH, Kim HJ, Kim K, Choi DJ. Risk of stroke in congestive heart failure with and without atrial fibrillation. *Int J Cardiol*. 2017 Dec 1;248:182-187. doi: 10.1016/j.ijcard.2017.07.056. Epub 2017 Jul 20.
 54. Kang J, Kim YC, Park JJ, Kim S, Kang SH, Cho YJ, Yoon YE, Oh IY, Yoon CH, Suh JW, Cho YS, Youn TJ, Chae IH, Choi DJ. Increased epicardial adipose tissue thickness is a predictor of new-onset diabetes mellitus in patients with coronary artery disease treated with high-intensity statins. *Cardiovasc Diabetol*. 2018 Jan 11;17(1):10. doi: 10.1186/s12933-017-0650-3.
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 61. Choi W, Chae IH, Park JJ, Kim SH, Kang SH, Oh IY, Yoon CH, Cho YS, Youn TJ, Choi DJ. Intravascular imaging analysis of a drug-eluting balloon followed by a bare metal stent compared to a drug-eluting stent for treatment of de novo lesions. *Korean J Intern Med*. 2018 Jul 4. doi: 10.3904/kjim.2017.378. [Epub ahead of print]
 62. Kim B, Kim J, Jo YH, Kang SH, Lee YJ, Lee JH, Hwang JE, Park MJ, Lee S. Risk of

- Pneumonia After Vertebral Compression Fracture in Women With Low Bone Density: A Population-Based Study. *Spine (Phila Pa 1976)*. 2018 Jul 15;43(14):E830-E835. doi: 10.1097/BRS.0000000000002536.
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