

# [Curriculum Vitae of Hack-Lyung Kim]

## PERSONAL IDENTIFICATION

**Name:** Hack-Lyung Kim, M.D., Ph.D.,

**Sex:** Male

**Date of birth:** July 14<sup>th</sup>, 1978

**Place of birth:** Jeju, Korea

**Marital status:** married

**Citizenship:** Korea (Republic of Korea)

**Languages:** Korean, English



## EDUCATION

Mar. 1997 – Feb. 2003 College of Medicine, Chonnam National University, Gwangju, Korea

Sep. 2008 – Feb. 2011 MBA, Sunkyunkwan University, Seoul, Korea

Mar. 2011 – Aug. 2013 Postgraduate School, Seoul National University (Ph.D. in Medical Science, Research title: therapeutic effects of udenafil on pressure overload cardiac hypertrophy)

## TRAINING and BRIEF CHRONOLOGY of EMPLOYMENT

Mar. 2003 – Feb. 2004 Internship, Seoul National University Hospital, Seoul, Korea

Mar. 2004 – Feb. 2008 Residency in Internal Medicine, Seoul National University Hospital, Seoul, Korea

Apr. 2008 – Apr. 2009 Military Medical Officer, Captain, JSA (Joint Security Area), Korea

May 2009 – Apr. 2011 Military Medical Officer, Captain, Division of Cardiology, Department of Internal Medicine, Armed Forces Seoul Hospital, Seoul, Korea

May 2011– Feb. 2012 Clinical Fellow in Cardiology, Seoul National University Hospital, Seoul, Korea

Mar. 2012 – Oct. 2012 Clinical Fellow in Cardiology, Seoul Metropolitan Government Seoul National University Boramae Medical Center, Seoul, Korea

Sep. 2012 – Feb. 2018 Assistant professor of Seoul National University College of Medicine, Seoul Metropolitan Government - Seoul National University Boramae Hospital

Mar. 2018 – Present Associate professor of Seoul National University College of Medicine, Seoul Metropolitan Government - Seoul National University Boramae Hospital

## BOARD CERTIFICATION

2003 Korea Board of Medical Doctor: 80460

2008 Korea Board of Internal Medicine: 10960

2013 Korea Board of Division of Cardiology: 2-13-890

**KGCP/IRB education:** 2011-7-19, 2012-8-11, 2013-3-19, 2013-10-31, 2013-12-30, 2014-12-15, 2015-8-27, 2016-8-3, 2016-11-21, 2017-11-29, 2018-12-15, 2019-9-27, 2020-7-22, 2021-7-27, 2022-11-11

## PUBLICATIONS

### Papers

*First author or corresponding author*

1. **Hack-Lyoung Kim**, Kyung-Woo Park, Jae-Jin Kwak, Yong-Seok Kim, Jung-Ju Sir, Sook-Jin Lee, Hae-Young Lee, Hyuk-Jae Chang, Hyun-Jae Kang, Young-Seok Cho, Woo-Young Chung, In-Ho Chae, Dong-Joo Choi, Hyo-Soo Kim, Byung-Hee Oh, Young-Bae Park, Bon-Kwon Koo. Stent-related cardiac events after non-cardiac surgery: Drug-eluting stent vs. Bare metal stent. *Int J Cardiol* 2008 Jan 24;123:353-354.
2. **Hack-Lyoung Kim**, Min-Kyung Kim, Hee-Suk Min, Byoung-Young Choi, Eue-Keun Choi, Jae-Jin Kwak, Yun-Shik Choi, Seil Oh. Successful pacemaker revision through sustained right superior vena cava in patient with situs inversus totalis. *Korean Circ J* 2008;38:128-130.
3. **Hack-Lyoung Kim**, Goh-Eun Chung, Min-Kyung Kim, Hee-Suk Min, Young-Seok Cho, Dong-Joo Choi, Woo-Young Chung. Successful stenting to compressed coronary artery by lymphoma invasion. *Clinical Cardiology* 2009;32(7):E22.
4. **Hack-Lyoung Kim**, Han Ho Jeon, Min Kim, Chul-Hwan Kang, Kyung-Hwa Park. Laboratory confirmatory rate of pandemic influenza (H1N1 2009) virus in Korean households with index case. *Infect Chemother* 2010;42:82-86.
5. **Hack-Lyoung Kim**, Goh Eun Chung, In Young Park, Jin Man Choi, Se-Min Hwang, Jeong-Hoon Lee, Donghee Kim. Elevated peripheral blood monocyte fraction in nonalcoholic fatty liver disease. *Tohoku J Exp Med* 2011;223(3):227-233.
6. **Hack-Lyoung Kim**, In Young Park, Jin Man Choi, Se-Min Hwang, Hyo Sang Kim, Jae-Sung Lim, Min Kim, Min-Jeong Son. A decline in renal function is associated with loss of bone mass in Korean postmenopausal women with mild renal dysfunction. *J Korean Med Sci* 2011;26:392-398.
7. **Hack-Lyoung Kim**, Han Ho Jeon, In Young Park, Jin Man Choi, Ji Sun Kang, Kyueng-Whan Min. Helicobacter pylori infection is associated with elevated low density lipoprotein cholesterol levels in elderly Koreans. *J Korean Med Sci* 2011;26:654-658.
8. **Hack-Lyoung Kim**, Hwa Young Cho, In Young Park, Jin Man Choi, Min Kim, Ho Jin Jang, and Se-Min Hwang. The positive association between peripheral blood cell counts and bone mineral density in postmenopausal women. *Yonse Med J* 2011;52:739-745.
9. Jung-Kyu Han\*, **Hack-Lyoung Kim**\* (*co-first author*), Ki-Hyun Jeon, Young-Eun Choi, Hyun-Sook Lee, Yoo-Wook Kwon, Ja-June Jang, Hyun-Jai Cho, Hyun-Jae Kang, Byung-Hee Oh, Young-Bae Park, Hyo-Soo Kim. PPAR-delta activates endothelial progenitor cells to induce angio-myogenesis through MMP-9 mediated IGF-1 paracrine networks. *Eur Heart J* 2013;34:1755-1765.
10. **Hack-Lyoung Kim**, Bon-Kwon Koo, Chang-Wook Nam, Joo-Hyung Doh, Ji-Hyn Kim, Han-Mo Yang, Kyung-Woo Park, Hae-Young Lee, Hyun-Jae Kang, Young-Seok Cho, Tae-Jin Youn, Sang-Hyun Kim, In-Ho Chae, Dong-Ju Choi, Hyo-Soo Kim, Hyung-Hee Oh, Young-Bae Park. Clinical and physiological outcomes of fractional flow reserve-guided percutaneous coronary intervention in patients with serial stenosis within 1 coronary artery. *JACC Cardiovasc Interv* 2012;5:1013-1018.
11. **Hack-Lyoung Kim**, Moon-Sun Im, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. The association between arterial stiffness and left ventricular filling pressure in an apparently healthy Korean population. *Cardiovasc Ultrasound* 2013;11:2.

12. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Simultaneously presented acute ischemic stroke and non-ST elevation myocardial infarction in a patient with paroxysmal atrial fibrillation. *Korean Circ J* 2013;43:766-769.
13. **Hack-Lyoung Kim**, Joo-Hee Zo, Jae-Bin Seo, Woo-Young Chung, Yong-Jin Kim, Sang-Hyun Kim, Myung-A Kim, Dae-Won Sohn. Additional value of lateral tissue Doppler imaging in the assessment of diastolic dysfunction among subjects with pseudonormal pattern of mitral inflow. *Cardiovasc Ultrasound* 2013, 11:31
14. **Hack-Lyoung Kim**, Si-Hyuck Kang, Chang-Hwan Yoon, Young-Seok Cho, Tae-Jin Youn, Goo-Yeong Cho, In-Ho Chae, Hyo-Soo Kim, Shung-Chull Chae, Myeong-Chan Cho, Young-Jo Kim, Ju Han Kim, Yeoungkeun Ahn, Myung Ho Jeong, Dong-Ju Choi, other Korea Acute Myocardial Infarction Registry (KAMIR) and Korea Working Group on Myocardial Infarction (KorMI) Investigators. Differential prognostic impact of diabetes over time course after acute myocardial infarction. *J Korean Med Sci* 2013;28:1749-1755.
15. Hye Mee Kim, **Hack-Lyoung Kim** (*corresponding author*), Hak Seung Lee, Ji-Hyun Jung, Chee Hae Kim, Sooyeon Oh, Hung Ho Kim, Joo-Hee Zo. Nonbacterial thrombotic endocarditis in a patient with bowel infarction due to mesenteric vein thrombosis. *Korean Circ J* 2014;44:189-192.
16. Ji-Hyun Jung, **Hack-Lyoung Kim** (*corresponding author*), Hye Mee Kim, Hak Seung Lee, Chee Hae Kim, Hong-Mi Choi, Joo-Hee Zo. A case of prosthetic valve endocarditis with pseudoaneurysm formation caused by *Haemophilus parainfluenzae*. *Korean J Med* 2014;87:589-592.
17. **Hack-Lyoung Kim**, Yong-Jin Kim, Seung-Pyo Lee, Eun-Ah Park, Jin-Chul Paeng, Hyung-Kwan Kim, Whal Lee, Goo-Yeong Cho, Joo-Hee Zo, Dong-Ju Choi, Dae-Won Sohn. Incremental prognostic value of sequential imaging of single-photon emission computed tomography and coronary computed tomography angiography in patients with suspected coronary artery disease. *Eur Heart J Cardiovasc Imaging* 2014;15:878-885.
18. **Hack-Lyoung Kim**, Jung-Won Suh, Seung-Pyo Lee, Hyun-Jae Kang, Bon-Kwon Koo, Young-Seok Cho, Tae-Jin Youn, In-Ho Chae, Dong-Ju Choi, Seung-Woon Ra, Jang-Ho Bae, Taek-Geun Kwon, Jang-Whan Bae, Myeong-Chan Cho, Hyo-Soo Kim. Cilostazol eliminates adverse smoking outcomes in patients with drug-eluting stent implantation: analysis of longer-term follow-up of the CILON-T randomized trial. *Circ J* 2014;78:1420-1427.
19. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Incidence and predictors of overall adverse effects of low dose of amiodarone in a real world clinical practice. *Korean J Int Med* 2014;29:588-596.
20. **Hack-Lyoung Kim**, Ju-Myung Lee, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. The effects of metabolic syndrome and its components on arterial stiffness in relation to gender. *J Cardiol* 2015 Mar;65(3):243-9.
21. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Association between Invasively Measured Central Aortic Pressure and Left Ventricular Diastolic Function in Patients Undergoing Coronary Angiography. *Am J Hypertens* 2015 Mar;28(3):393-400.
22. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Myung-A Kim, Joo-Hee Zo, Sang-Hyun Kim. Prognostic Value of Ankle-Brachial Index in Patients Undergoing Drug-Eluting Stent Implantation. *J Atheroscler Thromb* 2015;22(1):27-37.

23. **Hack-Lyoung Kim**, Sang-Hyun Kim, Jae-Bin Seo, Woo-Young Chung, Joo-Hee Zo, Myung-A Kim, Kyung-Woo Park, Bon-Kwon Koo, Hyo-Soo Kim, In-Ho Chae, Dong-Ju Choi, Myeong-Chan Cho, Young-Jo Kim, Ju Han Kim, Youngkeun Ahn, Myung Ho Jeong. Influence of Second- and Third-Degree Heart Block on 30-Day Outcome Following Acute Myocardial Infarction in the Drug-Eluting Stent Era. *Am J Cardiol* 2014;114:1658-1662.
24. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. The association between ambulatory blood pressure and brachial-ankle pulse wave velocity in untreated hypertensive subjects. *Blood Press* 2015 Jun;24(3):139-46.
25. Kyung-Taek Park\*, **Hack-Lyoung Kim** (\**co-first author*), Sang-Ho Jo, Sang-Hyun Kim, Myung-A Kim, Euijae Lee, Jonghanne Park, Sung Rae Kim, Jae-Taek Kim, Chee Jeong Kim, Mun Gyu Lee, Hyun Ho Shin. Prevalence and Gender-Related Characteristics of Metabolic Syndrome in Korean Community. *J Lipid Atheroscl* 2014;3(2):89-96.
26. **Hack-Lyoung Kim**, Yong-Jin Kim, Kyung-Hee Kim, Seung-Pyo Lee, Hyung-Kwan Kim, Dae-Won Sohn, Byung-Hee Oh, Young-Bae Park. The therapeutic effects of udenafil on pressure-overload cardiac hypertrophy. *Hypertens Res* 2015;38(9):597-604.
27. **Hack-Lyoung Kim**\*, Kwang Nam Jin\* (\**co-first author*), Jae-Bin Seo, Yong Ho Choi, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. The Association of Brachial-Ankle Pulse Wave Velocity with Coronary Artery Disease Evaluated by Coronary Computed Tomography Angiography. *PLoS One* 2015 Apr 13;10(4):e0123164
28. Do-Yeon Hwang, **Hack-Lyoung Kim** (*corresponding author*), Chan-Soon Park, Hyun-Jung Lee, Kwang-Nam Jin, Joo-Hee Zo. Acute Myocardial Infarction Occurring at Preexisting Intermediate Coronary Artery Stenosis. *Korean J Med* 2015; 89(4): 448-451.
29. Hee-Sun Lee\*, **Hack-Lyoung Kim**\* (\**co-first author*), Hyeonji Kim, Doyeon Hwang, Hong-Mi Choi, So-Won Oh, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Incremental prognostic value of brachial-ankle pulse wave velocity in predicting cardiovascular events in patients with suspected coronary artery disease. *J Atheroscler Thromb* 2015;31:1469-78.
30. **Hack-Lyoung Kim**, Yong-Jin Kim, Yeonyee E. Yoon, Seung-Pyo Lee, Hyung-Kwan Kim, Goo-Yeong Cho, Joo-Hee Zo, Dong-Ju Choi, Dae-Won Sohn. Prognostic Value of Renal Function for Cardiac Events in Patients Without Significant Stenosis on Coronary Computed Tomography Angiography. *J Korean Med Sci* 2015 Jul 24 2015 Sep;30(9):1273-8.
31. **Hack-Lyoung Kim**, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Independent association between brachial-ankle pulse wave velocity and global longitudinal strain of left ventricle. *Int J Cardiovasc Imaging*. 2015;31(8):1563-1570.
32. Won-Woo Seo, **Hack-Lyoung Kim** (*corresponding author*), Yong-Jin Kim, Yeonyee E. Yoon, Seung-Pyo Lee, Hyung-Kwan Kim, Goo-Yeong Cho, Joo-Hee Zo, Dong-Ju Choi, Dae-Won Sohn. Incremental prognostic value of high-sensitive C-reactive protein in patients undergoing coronary computed tomography angiography. *J Cardiol*. 2016 Sep;68(3):222-8.
33. **Hack-Lyoung Kim**, Myung-A Kim, Wan-Joo Shim, Seong Mi Park, Yong Hyun Kim, Jin Oh Na, Mi Seung Shin, Yong-Jin Kim, Hyun Ju Yoon, Gil Ja Shin, Yoon-Kyung Cho, Sung-Eun Kim, Kyung-Soon Hong, Kyoung Im Cho. Reproductive factors predicting angiographic obstructive coronary artery disease: from the KoRean wOmen'S chest pain rEGistry (KoROSE). *J Womens Health (Larchmt)*. 2016 May;25(5):443-8.
34. Hyun-Jung Lee, **Hack-Lyoung Kim** (*corresponding author*), Doyeon Hwang, Won-Kyeong Jeon, Chan-Soon Park, Jae-Sung Lim, Eun Gyu Kang, Joo-Hee Zo. Huge Left Ventricular

Thrombus and Apical Ballooning Associated With Recurrent Massive Strokes in a Septic Shock Patient. Korean J Crit Care Med 2016;31(1):39-43.

35. Jeong Seok Lee, ***Hack-Lyung Kim*** (*corresponding author*), Jae-Bin Seo, Woo-Hyun Lim, Eun Gyu Kang, Woo-Young Chung, Sang-Hyun Kim, Zoo-Hee Jo, Myung-A Kim. Re-mobilization of Lost Coronary Stent From the Axillary Artery to the Femoral Artery. J Lipid Atheroscl 2016;5(1):27-32.
36. ***Hack-Lyung Kim***, You Nui Kim, Seon Kyung Lee, Jae-Bin Seo, Woo-Young Chung, Sue Shin, Sang-Hyun Kim, Jong Hyun Yoon, Myung-A Kim, Joo-Hee Zo. The impact of acute bout of exercise on circulating cardiac natriuretic peptide and left ventricular function in untrained healthy young subjects. J Sports Med Phys Fitness. 2016 Dec;56(12):1574-1582.
37. ***Hack-Lyung Kim***, Sang Hyung Lee, Jayeun Kim, Hyun Joo Kim, Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim, Jin Yong Lee. Incidence and Risk Factors Associated With Hospitalization for Variant Angina in Korea. Medicine 2016;92(13):e3237.
38. ***Hack-Lyung Kim***, Kwang Nam Jin, Jae-Sung Choi, Joo-Hee Zo. Usefulness of Computed Tomography in the Diagnosis of Ruptured Sinus of Valsalva Aneurysm. Int J Radiol Medical Imag 2016;2:111.
39. ***Hack-Lyung Kim***, Myung-A Kim, Wan-Joo Shim, Sohee Oh, Mina Kim, Seong Mi Park, Yong Hyun Kim, Jin Oh Na, Mi Seung Shin, Hyun Ju Yoon, Gil Ja Shin, Yunkyung Cho, Sung-Eun Kim, Kyung-Soon Hong, Kyoung Im Cho. Gender difference in the association between brachial pulse pressure and coronary artery disease: the KoRean wOmen'S chest pain rEgistry (KoROSE). J Clin Hypertens (Greenwich). 2017 Jan;19(1):38-44.
40. ***Hack-Lyung Kim***, Joo-Hee Zo. Vegetations spread out along with turbulent flow from flail mitral valve. Int J Med Clin Imag 2016;1:1-2.
41. Moon-Sun Im\*, ***Hack-Lyung Kim***\* (*\*co-first author*), Sang-Hyun Kim, Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Joo-Hee Zo, Myung-A Kim, Kyung-Woo Park, Bon-Kwon Koo, Hyo-Soo Kim, In-Ho Chae, Dong-Ju Cho, Youngkeun Ahn, Myung Ho Jeong, and Other Korea Acute Myocardial Infarction Registry (KAMIR) and Korea Working Group on Myocardial Infarction (KorMI) Investigators. Different Prognostic Factors According to Left Ventricular Systolic Function in Patients With Acute Myocardial Infarction. Int J Cardiol 2016 Oct 15;221:90-6.
42. ***Hack-Lyung Kim***,\* Jung Pyo Lee, Jung Nam An, Jin Hyuk Kim, Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Yoon Kyu Oh, Yon Su Kim, Chun Soo Lim, Joo-Hee Zo, Myung-A Kim, Sang-Hyun Kim. Soluble Tumor Necrosis Factor Receptors and Arterial Stiffness in Patients With Coronary Atherosclerosis Am J Hypertens. 2017 Mar 1;30(3):313-318.
43. ***Hack-Lyung Kim***, Myung-A Kim, Sohee Oh, Mina Kim, Seong Mi Park, Hyun Ju Yoon, Mi Seung Shin, Kyung-Soon Hong, Gil Ja Shin, Wan-Joo Shim. Sex Difference in the Association Between Metabolic Syndrome and Left Ventricular Diastolic Dysfunction. Metab Syndr Relat Disord. 2016 Dec;14(10):507-512.
44. ***Hack-Lyung Kim***. Arterial stiffness and coronary artery disease. EMJ Cardiol 2016;4[1]:84-89.
45. Kyung-Taek Park\*, ***Hack-Lyung Kim***\* (*\*co-first author*), Sohee Oh, Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Association between reduced arterial stiffness and preserved diastolic function of the left ventricle in middle-aged and elderly subjects. J Clin Hypertens (Greenwich). 2017 Jun;19(6):620-626.

46. **Hack-Lyoung Kim**. The importance of echocardiographic screening for pulmonary arterial hypertension in Korean patients with systemic sclerosis. *J Cardiovasc Ultrasound*. 2016 Dec;24(4):276-277.
47. **Hack-Lyoung Kim**. Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Association between arterial stiffness and left ventricular diastolic function in relation to gender and age. *Medicine (Baltimore)*. 2017 Jan;96(1):e5783.
48. Kim KJ\*, **Hack-Lyoung Kim**\* (\**co-first author*), Kim MJ, Kim CH, Lim WH, Seo JB, Chung WY, Kim SH, Kim MA, Zo JH. Gender Difference in the Association between Aortic Pulse Pressure and Left Ventricular Filling Pressure in the Elderly: an Invasive Hemodynamic Study. *J Card Fail*. 2017 Mar;23(3):224-230.
49. Hana Kim, Sang-Ik Baek, **Hack-Lyoung Kim** (*Corresponding author*). Entrapment of a large air bubble at aortic root associated with intra-aortic balloon pump insertion. *Video J Cardiol* 2017;1:1-5.
50. **Hack-Lyoung Kim**, Yu Nui Kim, Hee-Jun Kim, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. The value of diastolic flow reversal in the descending thoracic aorta as a determinant of invasively measured aortic pulse pressure. *Echocardiography*. 2017 May;34(5):649-655
51. **Hack-Lyoung Kim**, Jayeun Kim, Hyun Joo Kim, Woo-Hyun Lim, Jin Yong Lee. Incidence and factors associated with mortality in 2,476 patients with variant angina in Korea. *Sci Rep*. 2017 Apr 6;7:46031. doi: 10.1038/srep46031.
52. **Hack-Lyoung Kim**, Myung-A Kim, Dong-Ju Choi, Seong-Woo Han, Eun-Seok Jeon, Myeong Chan Cho, Jae-Joong Kim, Byung-Su Yoo, Mi-Seung Shin, In Whan Seong, Youngkeun Ahn, Seok-Min Kang, Young Jo Kim, Hyungseop Kim, Shung Chull Chae, Byung-Hee Oh, Myoung-Mook, Kyu-Hyung Ryu. Gender difference in the prognostic value of N-terminal pro-B type natriuretic peptide in patients with heart failure: A report from the Korean Heart Failure Registry (KorHF). *Circ J*. 2017 Aug 25;81(9):1329-1336.
53. Kyeongmin Jang, **Hack-Lyoung Kim** (*corresponding author*), Miri Park, Sohee Oh, So Won Oh, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. Additional value of brachial-ankle pulse wave velocity to single photon emission computed tomography in the diagnosis of coronary artery disease. *J Atheroscler Thromb*. 2017 Dec 1;24(12):1249-1257.
54. **Hack-Lyoung Kim**, So Won Oh, Hyunjong Lee, Hee Jun Kim, You Nui Kim, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Findings of single-photon emission computed tomography and its relation with quantitative coronary angiography in patients with significant stenosis of the left main coronary artery. *Korean J Radiol*. 2018 Jan-Feb;19(1):101-110.
55. Jeehoon Kang\*, **Hack-Lyoung Kim**\* (\**co-first author*), Woo-Hyun Lim, Jae-Bin Seo, Joo-Hee Zo, Myung-A Kim, Sang-Hyun Kim. Relationship between brachial-ankle pulse wave velocity and invasively measured aortic pulse pressure. *J Clin Hypertens (Greenwich)*. 2018 Mar;20(3):462-468.
56. In-Chang Hwang, Kwang Nam Jin, **Hack-Lyoung Kim** (*corresponding author*), You-Nui Kim, Moon-Sun Im, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. Additional Prognostic Value of Brachial-Ankle Pulse Wave Velocity to Coronary Computed Tomography Angiography in Patients with Suspected Coronary Artery Disease. *Atherosclerosis* 2018 Jan;268:127-137

57. HyunJung Lee, **Hack-Lyounge Kim** (*corresponding author*), Jaehoon Chung, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. Interaction of Metabolic Health and Obesity on Subclinical Target Organ Damage. *Metab Syndr Relat Disord*. 2018 Feb;16(1):46-53.
58. Tae-Min Rhee\*, **Hack-Lyounge Kim**\* (*\*co-first author*), Sohee Oh, Woo-Hyun Lim, Jae-Bin Seo, Woo-Young Chung, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Gender difference in the association between brachial-ankle pulse wave velocity and cardiovascular risk scores. *Korean J Intern Med*. 2019 May;34(3):539-548.
59. Hwang IC, Jin KN, **Kim HL** (*corresponding author*), Kim YN, Im MS, Lim WH, Seo JB, Kim SH, Zo JH, Kim MA. Data on the clinical usefulness of brachial-ankle pulse wave velocity in patients with suspected coronary artery disease. *Data Brief*. 2017 Dec 21;16:1078-1082.
60. Kim M, Kim MA, **Kim HL** (*corresponding author*), Lee WJ, Lim WH, Seo JB, Kim SH, Zo JH. Body mass index and the risk of low femoral artery puncture in coronary angiography under fluoroscopy guidance. *Medicine (Baltimore)*. 2018 Mar;97(9):e0070.
61. Won Kyeong Jeon, Myung-A Kim, **Hack-Lyounge Kim** (*corresponding author*), You Jeong Ki, Tae-Min Rhee, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Joo-Hee Zo. Association between aortic knob width and invasively measured aortic pulse pressure. *Blood Press Monit*. 2018 Jun;23(3):121-126.
62. **Hack-Lyounge Kim**, Myung-A Kim, Sohee Oh, Mina Kim, Seong Mi Park, Hyun Ju Yoon, Mi Seung Shin, Kyung-Soon Hong, Gil Ja Shin, Wan-Joo Shim. Sex differences in traditional and non-traditional risk factors for obstructive coronary artery disease in stable symptomatic patients. *J Womens Health (Larchmt)*. 2019 Feb;28(2):212-219.
63. Min Gyu Kong\*, **Hack-Lyounge Kim**\* (*\*co-first author*), Myung-A Kim, Mina Kim, Seong Mi Park, Hyun Ju Yoon, Mi Seung Shin, Kyung-Soon Hong, Gil Ja Shin, Wan-Joo Shim. Relationships Between Blood Pressure Measurements and Target Organ Damage: Data From the Korea Women's Chest Pain Registry. *J Clin Hypertens (Greenwich)*. 2018 Dec;20(12):1724-1730.
64. Tae-Min Rhee, **Hack-Lyounge Kim** (*corresponding author*), Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Joo-Hee Zo, Myung-A Kim. Association between epicardial adipose tissue thickness and parameters of target organ damage in patients undergoing coronary angiography. *Hypertens Res*. 2019 Apr;42(4):549-557
65. **Hack-Lyounge Kim**. The role of transthoracic echocardiography in patients with acute ischemic stroke: we should pay more attention to left ventricular ejection fraction. *Korean Circ J* 2018;48:1157-1159.
66. You-Jeong Ki\*, **Hack-Lyounge Kim**\* (*\*co-first author*), Sohee Oh, Won-Kyeong Jeon, Tae-Min Rhee, Woo-Hyun Lim, Jae-Bin Seo, Sang-Hyun Kim, Myung-A Kim, Joo-Hee Zo. Gender Related Association Between Arterial Stiffness and Aortic Root Geometry. *J Cardiovasc Imag* 2019 Jan;27(1):11-21.
67. **Hack-Lyounge Kim**, Jung Pyo Lee, Woo-Hyun Lim, Jae-Bin Seo, Joo-Hee Zo, Myung-A Kim, Sang-Hyun Kim. Association between the level of serum soluble ST2 and invasively measured aortic pulse pressure in patients undergoing coronary angiography. *Medicine (Baltimore)*. 2019 Feb;98(8):e14215.
68. Jaehoon Chung\*, **Hack-Lyounge Kim**\* (*\*co-first author*), Myung-A Kim. et al. Sex differences in long-term clinical outcomes in patients hospitalized for acute heart failure: A

- report from the Korean Heart Failure Registry. *J Womens Health (Larchmt)*. 2019 Dec;28(12):1606-1613.
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  70. ***Hack-Lyounge Kim***, Sang-Hyun Kim. Pulse wave velocity in atherosclerosis. *Front Cardiovasc Med*. 2019 Apr 9;6:41.
  71. ***Hack-Lyounge Kim***, Jae-Sik Jang, Myung-A Kim, et al. Gender differences of in-hospital outcomes in patients undergoing percutaneous coronary intervention in the drug-eluting stent era. *Medicine* 2019 2019 May;98(20):e15557.
  72. Ho Lee, ***Hack-Lyounge Kim*** (*corresponding author*), et al. Association between dental health and obstructive coronary artery disease: an observational study. *BMC Cardiovasc Disord*. 2019 Apr 27;19(1):98.
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42. Mi-Na Kim, Seong-Mi Park, Dong-Hyuk Cho, ***Hack-Lyoung Kim***, Mi Seung Shin, Myung-A Kim, Kyung-Soon Hong, Wan-Joo Shim. The Relationship between Epicardial Adipose Tissue and Coronary Artery Stenosis by Sex and Menopausal Status in Patients with Suspected Angina. *Biol Sex Differ*. 2018 Dec 14;9(1):52.
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46. YJ Ki, SA Kwon, **HL Kim**, JB Seo, WY Chung. The Prevention of Contrast Induced Nephropathy by Sarpogrelate: a Prospective Randomized Controlled Clinical Trial. *J Korean Med Sci*. 2019 Oct 21;34(40):e261.
47. IC Hwang, H Lee, YE Yoon, IS Choi, **HL Kim**, HJ Chang, et al. Risk stratification of nonobstructive coronary artery disease for guidance of preventive medical therapy. *Atherosclerosis*. 2019 Nov;290:66-73.
48. Picone DS, Schultz MG, Otahal P, Black JA, Bos WJ, Chen CH, Cheng HM, Cremer A, Dwyer N, Fonseca R, Hughes AD, **Kim HL**, et al. Influence of Age on Upper Arm Cuff Blood Pressure Measurement. *Hypertension*. 2020 Mar;75(3):844-850.
49. Kim HJ, Kim MA, **Kim HL**, et al. Sex differences of the association between marital status and coronary artery disease in patients experiencing chest pain: The Korean Women's Chest Pain Registry. *Menopause*. 2020 Jul;27(7):788-793.
50. Kim HJ, Kim MA, **Kim HL**, et al. Gender Difference in the Impact of Ischemic Heart Disease on Heart Failure. *Eur J Clin Invest*. 2020 May;50(5):e13232.
51. Soongu Kwak, Yunhwan Lee, Taehoon Ko, In-Chang Hwang, Jun-Bean Park, Yeonyee E. Yoon, **Hack-Lyung Kim**, et al. Unsupervised Cluster Analysis of Patients With Aortic Stenosis Reveals Distinct Population With Different Phenotypes and Outcomes. *Circ Cardiovasc Imaging*. 2020 May;13(5):e009707.
52. Dong-Hoon Kim, Byoung Kwan Son, Kyueng-Whan Min, Sang Kuk Han, Ji Ung Na, Pil Cho Choi, **Hack-Lyung Kim**, et al. Chronic gastritis is associated with a decreased high-density lipid level in sex-specific groups: histological features of gastritis based on the updated Sydney system. *J Clin Med*. 2020 Jun 14;9(6):1856.
53. In-Chang Hwang, Youngil Koh, Jun-Bean Park, Yeonyee E. Yoon, **Hack-Lyung Kim**, et al. Time trajectory of cardiac function and its relation with survival in patients with light-chain cardiac amyloidosis. *Eur Heart J Cardiovasc Imaging*. 2021 Mar 22;22(4):459-469.
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56. Kwon CH, Kim WH, ..., **Kim HL**, et al. Office Blood Pressure Range and Cardiovascular Events in Hypertensive Patients: a Nationwide Cohort Study in South Korea. *J Am Heart Assoc*. 2021 Apr 6;10(7):e017890.
57. Shin JH, Jung MH, ..., **Kim HL**, et al. Disparities in Mortality and Cardiovascular Events by Income and Blood Pressure Levels among Patients with Hypertension in South Korea. *J Am Heart Assoc*. 2021 Apr 6;10(7):e018446.
58. Jae-Bin Seo, Woo-Hyun Lim, **Hack-Lyung Kim**, et al. Association between aging and changes in the ankle-brachial index after exercise in patients with chest pain. *Korean J Clin Geri* 2020;21(2):88-93.

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63. Moon Yeong Kim, Kwang-Nam Jin, ... , ***Hack-Lyung Kim***, et al. Deep Learning-Based Algorithm for Detection and Characterization Regarding MRI Safety of Cardiac Implantable Electronic Devices on Chest Radiographs. *Korean J Radiol*. 2021 Nov;22(11):1918-1928.
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65. Shin J, Kim JH, ..., Kim HL, et al. Impact of a screening protocol for blood pressure level for hypertension in the Korean community health survey. *Blood Press*. 2021 Dec;30(6):403-410.
66. Shin J, Kim MA, ***Kim HL***, et al. Differences in Clinical Characteristics between Men and Post-menopausal Women with Chest Pain who Have Normal Coronary Arteries. *Cardiometab Syndr J*. 2021 Mar;1(1):76-84.
67. Choi YJ, Koh Y, Lee HJ, Hwang IC, Park JB, Yoon YE, ***Kim HL***, et al. Independent Prognostic Utility of 11 C-Pittsburgh Compound B Positron Emission Tomography in Light-Chain Cardiac Amyloidosis Patients. *J Nucl Med*. 2022 Jul;63(7):1064-1069.
68. Ihm SH, Kim KI, Lee KJ, Won JW, Na JO, Rha SW, ***Kim HL***, Kim SH, Shin J. Interventions for Adherence Improvement in the Primary Prevention of Cardiovascular Diseases: Expert Consensus Statement. *Korean Circ J*. 2022 Jan;52(1):1-33.
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70. Kim DH, Cho IJ, Kim W, Lee CJ, Kim HC, Shin JH, Kang SH, Jung MH, Kwon CH, Lee JH, ***Kim HL***, et al. Elevated On-Treatment Diastolic Blood Pressure and Cardiovascular Outcomes in the Presence of Achieved Systolic Blood Pressure Targets. *Korean Circ J*. 2022 Jun;52(6):460-474.
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75. Yang YS, ***Kim HL***, Kim SH, Moon MK. Lipid Management in Korean People with Type 2 Diabetes Mellitus: Korean Diabetes Association and Korean Society of Lipid and Atherosclerosis Consensus Statement. *Diabetes Metab J*. 2023 Jan;47(1):1-9.

***Research Interests***

1. Arterial stiffness and central blood pressure
2. Women's heart disease and gender medicine
3. Socioeconomic status in cardiovascular disease
4. Preventive cardiology
5. Noninvasive cardiac imaging

## Books

1. 장혁재, 민희석, **김학령**, 윤연이. 폐고혈압 안내서 – 의료진, 환자와 환자가족을 위한. 대한의학서적, 2007.
2. 김동환, **김학령**, 오형중, 전한호. 쉽게 풀어쓴 심장학. 예당북s, 2011.
3. 박영배 외 서울대학교병원 순환기내과 교수진, SNUH Manual of cardiovascular medicine. 군자출판사. 2014
4. 서울대학교 의과대학 내과학 교실, SNUH manual of medicine. 3<sup>rd</sup> edition.
5. 대한심초음파학회, 심초음파학 제 4판.
6. 대한심부전학회, 심부전교과서, 2020년
7. 대한심장학회, 심장학 최신지견 따라잡기, 2020년
8. 대한심장학회 여성심질환연구회, 여성심장질환, 1<sup>st</sup> edition, 2021년
9. 서울대학교 순환기내과. Multimodality imaging in cardiovascular disease. 군자출판사. 2021년
10. 대한심장대사증후군학회. 대사증후군에서의 생활요법. 2021년

## PRESENTATIONS

### International conferences

1. 2006 AHA (American Heart Association), Scientific Sessions 2006, Chicago, Illinois: moderated poster presentation: *Stent-related cardiac events after non-cardiac surgery: Drug-eluting stent vs. Bare metal stent*
2. 2011 AHA (American Heart Association), Scientific Sessions 2011, Orlando, Florida: oral presentation: *PPAR-delta activates endothelial progenitor cells to induce angio-myogenesis through MMP-9 mediated IGF-1 paracrine networks*
3. 2012 ACC (American College of Cardiology), Scientific Sessions 2012, Chicago, Illinois: moderated poster presentations: 1) *No legacy effect of six months' treatment of cilostazol on the long-term prognosis of patients who underwent drug-eluting stent implantation: 2-year follow-up of the CILON-T Trial*, 2) *Clinical and physiologic outcomes of Fractional flow reserve-guided percutaneous coronary intervention in patients with serial stenoses within one coronary artery*
4. 2012 SCCT (Society of Cardiovascular Computed Tomography), 7<sup>th</sup> annual scientific meeting, Baltimore, Maryland: poster presentation: *Prognostic value of myocardial ischemia on myocardial perfusion imaging in relation to the coronary stenosis severity on coronary computed tomographic angiography*
5. 2013 ACC (American College of Cardiology), Scientific Sessions 2013, San Francisco, California: poster presentation: *Practical Integrative Diagnostic Strategy for Patients with Suspected Coronary Artery Disease: Insight from 1,286 Patients Undergoing both Anatomical and Functional Tests*
6. 2013 ASE (American Society of Echocardiography), Scientific Sessions 2013, Minneapolis, Minnesota: poster presentation: *Additional value of lateral tissue Doppler imaging in the assessment of diastolic dysfunction in subjects with pseudonormal pattern of mitral inflow and septal tissue Doppler imaging*
7. 2014 ACC (American College of Cardiology), Scientific Sessions 2014, Washington DC: moderated poster presentation: *Beneficial effect of cilostazol overcoming adverse smoking outcomes in patients with drug-eluting stent implantation*
8. 2014 EAS (European Atherosclerosis Society), Madrid, Spain: poster presentation: *Predictors of obstructive coronary artery disease in symptomatic women: chest pain in Korean women's registry*
9. 2014 EAS (European Atherosclerosis Society), Madrid, Spain: poster presentation: *The effects of metabolic syndrome and its components on arterial stiffness in relation to gender*
10. 2014 EAS (European Atherosclerosis Society), Madrid, Spain: poster presentation: *The association between ambulatory blood pressure profile and brachial-ankle pulse wave velocity in untreated hypertensive subjects*
11. 2014 AHA (American Heart Association), Chicago, USA: poster presentation: *Influence of Second- and Third-Degree Heart Block on 30-Day Outcome Following Acute Myocardial Infarction in the Drug-Eluting Stent Era*
12. 2015 ACC (American College of Cardiology), San Diego, USA; poster presentation: *Exertional Changes in Circulating Cardiac Natriuretic Peptide and Left Ventricular Function in Untrained Healthy Young Subjects*
13. 2015 JCS (Japanese Circulation Society), Osaka, Japan; poster presentation: *The association between obesity and left ventricular diastolic function according to gender: from the KoRean*

*wOmen'S chest pain rEgistry (KoROSE)*

14. 2015 ASE (American Society of Echocardiography), Boston, USA; poster presentation: *Impact of arterial stiffness on long-axis performance of left ventricle*
15. 2015 ICLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; oral presentation: *Soluble ST2 as marker of aortic stiffness: invasive hemodynamic study*
16. 2016 ASE (American Society of Echocardiography), Seattle, USA; poster presentation: *The value of diastolic flow reversal at descending thoracic aorta as a determinant of central aortic pulse pressure: invasive hemodynamic study*
17. 2016 ICLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; Poster: *Soluble ST2 and clinical outcomes in patients with stable coronary artery disease*
18. 2016 Hypertension Seoul, Seoul, Korea; Oral presentation: *The associations between each component of blood pressure and target organ damages in patients at high risk of coronary artery disease*
19. 2016 Hypertension Seoul, Seoul, Korea; Oral presentation: *Additive value of pulse pressure in predicting obstructive coronary artery disease beyond traditional risk factors*
20. 2017 JCS (Japanese Circulation Society), Kanazawa, Japan; Moderated Poster Presentation: *Strong relationship between brachial-ankle pulse wave velocity and invasively measured central aortic pulse pressure*
21. 2017 JCS (Japanese Circulation Society), Kanazawa, Japan; Oral Presentation: *Association between arterial stiffness and left ventricular diastolic function in relation to gender and age*
22. 2017 ASE (American Society of Echocardiography), Baltimore, USA; Poster presentation: *Association between arterial stiffness and aortic root geometry*
23. 2017 ASCI (Asian Society of Cardiovascular Imaging), Kyoto, Japan; Moderated Poster Presentation: *Low diagnostic accuracy of myocardial perfusion SPECT in the diagnosis of left main coronary artery disease*
24. 2017 ASCI (Asian Society of Cardiovascular Imaging), Kyoto, Japan; Moderated Poster Presentation: *Additional value of brachial-ankle pulse wave velocity to single photon emission computed tomography in the diagnosis of coronary artery disease*
25. 2017 IGM (The 8<sup>th</sup> Congress of the International Society for Gender Medicine of Japan), Sendai, Japan; Oral Presentation: *Gender difference in the impact of coexistent diabetes mellitus on long-term clinical outcome in patients with heart failure: A report from the Korean Heart Failure Registry*
26. 2017 ICoLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; Poster: *Soluble Tumor Necrosis Factor Receptors and Arterial Stiffness in Patients With Coronary Atherosclerosis*
27. 2017 ICoLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; Oral Presentation: *Statin response in Korean patients with primary severe hypercholesterolemia*
28. 2018 APSC (Asian Pacific Society of Cardiology Congress), Taipei, Taiwan; Oral Presentation: *Time Point of Blood Pressure Drop in Patients with Orthostatic Hypotension in the Emergency Room*
29. 2018 APSC (Asian Pacific Society of Cardiology Congress), Taipei, Taiwan; Poster Presentation: *Association of Arterial Stiffness With the Calcification and Tortuosity of the Aorta*

30. 2018 ICoLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; Oral Presentation: *Gender difference in the association between cholesterol profiles and obstructive coronary artery disease in patients without anti-dyslipidemic medication*
31. 2018 ESH Summer School, Swiss: *The usefulness of baPWV*
32. 2019 ICoLA (International Congress on Lipid Metabolism & Atherosclerosis), Seoul, Korea; Poster Presentation: *Association between dental health and obstructive coronary artery disease: an observational study*
33. 2020 IVBM (International Vascular Biology Meeting), Seoul, Korea; Poster Presentation: *Association between histological severity of nonalcoholic fatty liver disease and arterial stiffness*
34. 2020 IVBM (International Vascular Biology Meeting), Seoul, Korea; Poster Presentation: *Time Point of Blood Pressure Drop in Patients with Orthostatic Hypotension in the Emergency Room*
35. 2021 Pulse of Asia, Seoul, Korea; Poster Presentation: *Improved Prognostic Value in Predicting Long-Term Cardiovascular Events by a Combination of High-Sensitivity C-Reactive Protein and Brachial–Ankle Pulse Wave Velocity*
36. 2022 APCMS, Seoul, Korea; Oral Presentation: *Associations Between Body Fat Parameters and Arterial Stiffness*



## **PROFESSIONAL AFFILIATIONS**

Associate Editor of Frontiers in Cardiovascular Medicine [2021~]  
Deputy Editor of Cardiometabolic Syndrome Journal [2021~]  
Editorial board member of Korean Circulation Journal [May 2022 ~ April 2027]  
Editorial board member of International Journal of Heart Failure [2019~]  
Editorial board member of Pulse [2021~]  
Editorial board member of International Journal of Radiology & Medical Imaging [2017~]  
Editorial board member of International Journal of Medical & Clinical Imaging [2017~]

### **Korean Association of Internal Medicine**

대한내과학회 홍보위원회 간사 [2017-2019]  
대한내과학회 순환기내과분과전문의 수련위원회 위원 [2020-6~2022.12]

### **Korean Society of Cardiology**

대한심장학회 보험위원회 위원 [2018-11-17~2020-12-31]  
대한심장학회 간행위원회 위원 [2019-9-26~2022-12-31]  
대한심장학회 학술위원회 위원 [2021-1-1 ~ 2022-12-31]  
대한심장학회 진료지침위원회 위원 [2023-1-1 ~ 2024-12-31]

### **Korean Society of Echocardiography**

대한심초음파학회 총무위원회 위원 [2013]  
대한심초음파학회 연구위원회 위원 [2018-2020]  
Editorial member of Journal of CV Imaging [2019~]  
KSE Club 40 [2016-]  
대한심초음파학회 평의원 [2017-4 ~]

### **Women's Heart Disease Research Working Group**

여성심질환 연구회 총무 위원장 [2017-1-1-2020-12-31]  
여성심질환연구회 학술 위원장 [2021-1-1~2022.12.31]  
여성심질환연구회 연구 위원장 [2023.1.1~2024.12.31]

### **Korean Society of Lipidology and Atherosclerosis**

한국지질동맥경화학회 학술위원회 위원 [2017-1-1~2020-12-31]  
한국지질동맥경화학회 총무위원회 간사 [2015-1-1~2016-12-31]  
한국지질동맥경화학회 진료지침위원회 간사 [2021-1-1~2022-12-31]  
한국지질동맥경화학회 보험법제위원회 간사 [2021-1-1~2022-12-31]

[질병관리청] 국가건강조사 이상지질혈증분과 자문단(2022~2024)

**Korean Society of Hypertension**

대한고혈압학회 윤리위원회 간사 [2015-2016]  
대한고혈압학회 보험위원회 위원 [2017-2019]  
대한고혈압학회 정책연구소 TF 위원 [2018-9 ~ 2020-8]  
대한고혈압학회 정책위원회 위원 [2019-5~2021-5/2021-6~2023-5]  
대한고혈압학회 정책위원회 위원 [2019-5~2021-5]  
대한고혈압학회 학술위원회 간사 [2019-5~2021-5]  
대한고혈압학회 학술위원회 위원 [2021-6~2023-5]  
대한고혈압학회 진료지침위원회 위원 [2021-6~2023-5]  
대한고혈압학회 혈압모니터링 연구회 총무/간사 [2021-6~2023-5]  
대한고혈압학회 고혈압합병증연구회 운영위원 [2020.1.1 - 2023.08]

**Korean Society of Cardiometabolic syndrome**

심장대사증후군 연구회 윤리위원회 간사 [2017-2018]  
심장대사증후군 연구회 의료정보위원회 위원 [2017-2018]  
심장대사증후군 연구회 학술위원회 간사 [2017.3-]  
심장대사증후군 학회 기획위원회 간사 [2019.3-]  
심장대사증후군 학회 간행위원회 간사 [2019.3-]  
심장대사증후군 학회 총무위원회 위원 [2021년 3월 1일~2023년 2월 28일]  
심장대사증후군 학회 무임소 이사 [2021.03~2023.02]

**Korean Society of Heart failure**

심부전 연구회 홍보위원회 간사 [2014-2015]  
심부전 연구회 정책위원회 간사 [2016-2017]  
심부전 연구회 정책위원회 위원 [2022-2023]  
심부전 학회 홍보위원회 간사 [2018-2020-2-28]  
심부전 학회 편집/간행위원회 위원 [2018-]

**International society of Cardiovascular Pharmacology Korea Chapter (K-ISCP)**

국제심혈관약물치료학회 한국지회 학술위원회 간사 [2018-2021]

국제심혈관약물치료학회 한국지회 학술위원회 위원 [2022-2023]

**Korean Society of Interventional Cardiology**

대한심혈관중재학회 정책위원회 간사[2020.4.18~2022.6.30]

대한심혈관중재학회 정책위원회 위원[2022.7.1~2024.6.30]

**OFFICE ADDRESS**

Cardiology, Internal Medicine, Boramae Medical Center,  
Seoul National University College of Medicine,  
20, Boramae-ro 5-gil, Dongjak-gu, Seoul 07061, Korea  
E-mail: kh12876@gmail.com or kh12876@snu.ac.kr;  
Phone: +82-2-870-3235;  
Mobile: +82-(0)10-7744-2876; Fax: +82-2-831-0714

## **Awards**

2011 한빛사 선정

2015 ICLA best presentation award

2016 보라매 의학상(우수 논문 업적상)

2017 ASE top 3 abstract of the Vascular Tract

2017 심초음파학회(Journal of Cardiovascular Imaging) 우수 심사위원상

2017 심부전연구회 research achievement award

2018 ICoLA best presentation award

2018 ESH Summer School 한국 대표로 참여(스위스)

2018 보라매 의학상(우수 논문 업적상)

2019 APCMS, poster presentation award

2019 대한고혈압학회지(Clinical Hypertension) 우수 심사위원상

2020 대한심장학회지(Korean Circulation Journal) 우수 심사위원상

2020 IVBM, Poster Award Winner

2020 Hypertension Seoul, Poster award

2020 보라매 의학상(우수 논문 업적상)

2021 APCMS Best poster award

2021 POA Best Abstract Awards

2021 Best Abstract of KSC 2021 in the field

2021 Hypertension Seoul Young investigator award (곽순구/김학령)

2021 보라매 의학상(우수 논문 업적상)

2022 APCMS, oral presentation award

2022 서울의대 학술상, 젊은의학자상

2022 보라매 의학상(우수 논문 업적상)