

## Brief CV

Hae-Young Lee, MD, PhD



1996	B.A.	Medical Science	Medical School of Seoul National University
1996	M.D.	Medical Science	Medical School of Seoul National University
1998	M.S.	Internal Medicine (Director: Prof. Yun-Shik Choi)	Graduate School of Seoul National University
2006	Ph.D.	Medical Science (Internal Medicine) (Director: Prof. Byung-Hee Oh)	Graduate School of Seoul National University\

### Postdoctoral Training

3/96-2/97	Full rotation internship		Seoul National University Hospital
3/97-2/01	Resident	Internal Medicine	Seoul National University Hospital
5/04-2/06	Fellowship	Cardiology	Seoul National University Hospital
8/10-12/11	Postdoc fellow	Loscalzo laboratory, Medicine (Director: Joseph Loscalzo)	Harvard Medical School Brigham and Women's Hospital

### Faculty Academic Appointments

3/06-3/12	Assistant Professor	Internal Medicine	Seoul National University Hospital
4/12-8/19	Associate Professor	Internal Medicine	Seoul National University Hospital
9/14-8/19	Associate Professor	Internal Medicine	Seoul National University College of medicine (co-affiliated)
9/19-Current	Professor	Internal Medicine	Seoul National University Hospital (co-affiliated)
9/20-Current	Professor	Internal Medicine	Seoul National University College of Medicine (co-affiliated)

## Honors and Prizes

2004	Young Investigator Award	Korean Society of Circulation Annual Scientific Meeting
2006	Best research award	Korean Society of Atherosclerosis Annual Scientific Meeting
2009	Best research award	Korean Society of Hypertension Annual Scientific Meeting
2010	Finalist	Young investigator competition for 10 <sup>th</sup> US-Japan-Asia dialogue on cardiovascular disease
2010	Young Investigator Award	Korean Society of Hypertension Annual Scientific Meeting
2015	Excellent research paper	25 <sup>th</sup> Korean federation of science and technology society annual meeting
2022	Excellent research paper	Korean Society of Cardiology Annual Scientific Meeting
2022	Excellent research paper	Korean Society of Hypertension Annual Scientific Meeting

## **Selected publication (First or Corresponding author)**

1. **Lee HY**, Kim CH. Acute oliguric renal failure associated with angiotensin II receptor antagonists. *Am J Med* 2001;111:162-3.
2. **Lee HY**, Chae IH, Kim HS, Park YB, Choi YS, Lee YW, Park SJ, Cha YJ. Differential effects of homocysteine on porcine endothelial and vascular smooth muscle cells. *J Cardiovasc Pharmacol* 2002;39:643-51.
3. **Lee HY**, Kang HJ, Oh BH, et al. on behalf of Amlostar investigators. Clinic blood pressure response to two amlodipine salt formulations, adipate and besylate, in adult Korean patients with mild to moderate hypertension. *Clin Therap* 2005;27:728-39.
4. \*Kang HJ, **\*Lee HY**, Na SH, Chang SA, Park KW, Kim HK, Kim SY, Chang HJ, Lee W, Kang WJ, Koo BK, Kim YJ, Lee DS, Sohn DW, Han KS, Oh BH, Park YB, Kim HS. Differential effect of intracoronary infusion of mobilized peripheral blood stem cells by granulocyte colony-stimulating factor on left ventricular function and remodeling in patients with acute myocardial infarction versus old myocardial infarction: the MAGIC cell-3-DES randomized controlled trial. *Circulation*. 2006;114:I145-51.  
1 \* Kang HJ and Lee HY contributed equally to this study.
5. **Lee HY**, Chung JW, Youn SW, Kim JY, Park KW, Koo BK, Oh BH, Park YB, Chaqour B, Walsh K, Kim HS. The Forkhead transcription factor, FOXO3a, is a negative regulator of angiogenic immediate early gene, CYR61, leading to inhibition of vascular smooth muscle cell proliferation and neointimal hyperplasia. *Circ Res*. 2007;100:372-80.
6. **Lee HY**, You HJ, Won JY, Youn SW, Cho HJ, Park KW, Park WY, Seo JS, Park YB, Walsh K, Oh BH, Kim HS. Forkhead transcription factor, FOXO3a, induces apoptosis of endothelial cells through activation of matrix metalloproteinases. *Arterioscl Thromb Vasc Biol*. 2008;28:302-8.
7. **Lee HY**, Youn SW, Kim JY, Park KW, Hwang CI, Park WY, Oh BH, Park YB, Walsh K, Seo JS,

- Kim HS. FOXO3a in endothelial cells turns the TNF receptor signaling towards apoptosis through reciprocal regulation of c-Jun N-terminal kinase and NF- $\kappa$ B. *Arterioscl Thromb Vasc Biol.* 2008;28:112-20.
8. **Lee HY**, Park JB. Prevalence and risk factors of masked hypertension identified by multiple self blood pressure measurement. *Hypertension*, 2008;52: e137-e138
9. **Lee HY**, Oh BH. Cardio-renal protection with aliskiren, a direct renin inhibitor, in the ASPIRE HIGHER program. *Expert Rev Cardiovasc Ther.* 2009 Mar;7(3):251-7.
10. Park SJ, Oh IY, Kim KH, Shin DH, Yang HM, **Lee HY (Corresponding author)**, Koo BK. Minimal withdrawal of dual antiplatelet agents under the guidance of a point-of-care platelet activity assay early after drug-eluting stent implantation for surgical removal of renal cell carcinoma. *Int J Cardiol.* 2011;149(2):e85-7
11. Cha MJ, **Lee HY (corresponding author)**, Ahn SV, Han KR, Park JB, Lim SJ, Hyun MS, Kim YK, Kim CH, Jun JE, Hong SP. Prevalence and clinical characteristics of metabolic syndrome in Korean hypertensive patients. *Journal of Korean Society of Hypertension J* 2009;15(4):46-53
12. **Lee HY**, Oh BH. Aging and arterial stiffness. *Circ J.* 2010 Oct 25;74(11):2257-62.
13. **Lee HY**, Hong BK, Chung WJ, Lee BK, Lee SH, Jeon DW, Ahn YK, Kim D, Park CK, Kim SH, Jung HO, Kim BO, Choi D. Phase IV, 8-week, multicenter, randomized, active treatment-controlled, parallel group, efficacy, and tolerability study of high-dose candesartan cilexetil combined with hydrochlorothiazide in Korean adults with stage II hypertension. *Clin Ther.* 2011 Aug;33(8):1043-56.
14. Lee SR, DJ Kim, KC Sung, EJ Cho, MS Hyun, JB Park, YK Kim, IK Lee, CH Kim, **Lee HY**. Influence of metabolic syndrome on hypertension-related target organ damage: Diagnosis of Metabolic Syndrome Is Still Necessary. *Journal of Korean Society of Hypertension J* 2011;17(3):125-132
15. Lee SR, Cha MJ, Kang DY, Oh KC, Shin DH, **Lee HY**. Increased prevalence of metabolic syndrome among hypertensive population Ten years' trend of the Korean National Health and Nutrition Examination Survey. *Int J Cardiol.* 2013;166(3):633-9
16. **Lee HY**, Youn SW, Oh BH, Kim HS. Krüppel-like factor 2 suppression by high glucose as a possible mechanism of diabetic vasculopathy. *Korean Circ J.* 2012 Apr;42(4):239-45.
17. **Lee HY**, Youn SW, Cho HJ, Kwon YW, Lee SW, Kim SJ, Yark YB, Oh BH, Kim HS. FOXO1 impairs whereas statin protects endothelial function in diabetes through reciprocal regulation of Krüppel-like factor 2. *Cardiovascular Research.* 2013 Jan 1;97(1):143-52
18. Im MS, Ahn HS, Cho HJ, Kim KB, **Lee HY**. Diabetic ketoacidosis associated with acute pancreatitis in a heart transplant recipient treated with tacrolimus. *Exp Clin Transplant.* 2013 Feb;11(1):72-4.
19. Cha MJ, **Lee HY**, Cho HJ, Hwang HY, Kim KB, Oh BH. Under-utilization of donor hearts in the initial era of the heart transplant program in Korea. *Circ J.* 2013;77(8):2056-63.
20. **Lee HY**, Després JP, Koh KK. Perivascular adipose tissue in the pathogenesis of cardiovascular disease. *Atherosclerosis.* 2013 Oct;230(2):177-84.
21. **Lee HY**, Sakuma I, Ihm SH, Goh CW, Koh KK. Statins and Renin-Angiotensin system inhibitor combination treatment to prevent cardiovascular disease. *Circ J.* 2014 Jan 24;78(2):281-7
22. **Lee S, Lee HY**, Park KW, Kang HJ, Koo BK, Kim HS, Choi DJ, Kim MA, Oh BH. Comparison of antiplatelet effect and safety of clopidogrel napadisilate with clopidogrel bisulfate in coronary artery disease patients: multi-center, randomized, double-blind, phase IV, non-inferiority clinical trial. *Am J Cardiovasc Drugs.* 2013 Dec;13(6):413-24. \* Lee S and Lee HY contributed equally to this study.
23. **Shin HS**, Cho HJ, Jeon ES, Kim JJ, Hwang HY, Kim KB, Oh BH, **Lee HY**. The impact of hepatitis B on heart transplantation: 19 years of national experience in Korea. *Annals of transplantation.* 2014 Apr; 19:182-187
24. **Lee HY**, Cho HJ, Kim HY, Jeon HK, Shin JH, Kang SM, Baek SH. Effects of intensive versus mild lipid lowering by statins in patients with ischemic congestive heart failure: Korean Pitavastatin Heart Failure (SAPHIRE) study. *Korean J Intern Med.* 2014 Nov;29(6):754-63.

25. Ha KH, Kim HC, Park S, Ihm SH, **Lee HY**. Gender differences in the association between serum  $\gamma$ -glutamyltransferase and blood pressure change: a prospective community-based cohort study. J Korean Med Sci. 2014 Oct;29(10):1379-84.
26. Lee SA, Choi HM, Park HJ, Ko SK, **Lee HY**. Amlodipine and cardiovascular outcomes in hypertensive patients: meta-analysis comparing amlodipine-based versus other antihypertensive therapy. Korean J Intern Med. 2014 May;29(3):315-24.
27. **Lee HY**, Kim YJ, Ahn T, Youn HJ, Chull Chae S, Seog Seo H, Kim KS, Rhee MY, Choi DJ, Kim JJ, Chun KJ, Yoo BS, Park JS, Oh SK, Kim DS, Kwan J, Ahn Y, Bae Park J, Jeong JO, Hyon MS, Cho EJ, Han KR, Kim DI, Joo SJ, Shin JH, Sung KC, Jeon ES. A Randomized, Multicenter, Double-Blind, Placebo-Controlled, 3 × 3 Factorial Design, Phase II Study to Evaluate the Efficacy and Safety of the Combination of Fimasartan/Amlodipine in Patients With Essential Hypertension. Clin Ther. 2015. pii: S0149-2918(15)00089-2.
28. **Baek TH**, **Lee HY**, Lim NK, Park HY. Gender differences in the association between socioeconomic status and hypertension incidence: the Korean Genome and Epidemiology Study (KoGES). BMC Public Health. 2015 Sep 3;15:852. doi: 10.1186/s12889-015-2175-6.
29. **Lee HY**, Park JB. The Korean Society of Hypertension Guidelines for the Management of Hypertension in 2013: Its Essentials and Key Points. Pulse (Basel). 2015 May;3(1):21-8.
30. **Lee HY**, Oh BH. Fimasartan: A New Angiotensin Receptor Blocker. Drugs. 2016 Jul;76(10):1015-22.
31. **Lee HY**, Chung WJ, Jeon HK, Seo HS, Choi DJ, Jeon ES, Kim JJ, Shin JH, Kang SM, Lim SC, Baek SH. Impact of the  $\beta$ -1 adrenergic receptor polymorphism on tolerability and efficacy of bisoprolol therapy in Korean heart failure patients: association between  $\beta$  adrenergic receptor polymorphism and bisoprolol therapy in heart failure (ABBA) study. Korean J Intern Med. 2016 Mar;31(2):277-87.
32. **Lee HY**, Baek SH. Optimal Use of Beta-Blockers for Congestive Heart Failure. Circ J. 2016;80(3):565-71.
33. Ah YM, Lee JY, Choi YJ, Kong J, Kim B, Choi KH, Han N, Yu YM, Oh JM, Shin WG, **Lee HY**. Influence of initial angiotensin receptor blockers on treatment persistence in uncomplicated hypertension: A nation-wide population-based study. Clin Exp Hypertens. 2016;38(3):325-30.
34. Park CS, Ha KH, Kim HC, Park S, Ihm SH, **Lee HY**. The Association between Parameters of Socioeconomic Status and Hypertension in Korea: the Korean Genome and Epidemiology Study. J Korean Med Sci. 2016 Dec;31(12):1922-1928.
35. Park CS, **Lee HY**. Clinical utility of sympathetic blockade in cardiovascular disease management. Expert Rev Cardiovasc Ther. 2017 Apr;15(4):277-288.
36. Lee H, Dominiczak AF, Jennings GL, Cho EJ, **Lee HY**. Case of Chronic Indolent Pheochromocytoma That Caused Medically Controlled Hypertension but Treatment-Resistant Diabetes Mellitus. Hypertension. 2017 May;69(5):740-746.
37. **Lee HY**, Oh BH. Heart Transplantation in Asia. Circ J. 2017 Apr 25;81(5):617-621.
38. Lee SE, **Lee HY**, Cho HJ, Choe WS, Kim H, Choi JO, Jeon ES, Kim MS, Kim JJ, Hwang KK, Chae SC, Baek SH, Kang SM, Choi DJ, Yoo BS, Kim KH, Park HY, Cho MC, Oh BH. Clinical Characteristics and Outcome of Acute Heart Failure in Korea: Results from the Korean Acute Heart Failure Registry (KorAHF). Korean Circ J. 2017 May;47(3):341-353.
39. Jung SH, Lee OS, Kim HS, Park CS, Lee HJ, Kwon KH, **Lee HY**. Medication Adherence Improvement By Using Administration Timing Simplification Protocol (ATSP) in Cardiovascular Disease Patients. J Atheroscler Thromb. 2017 Aug 1;24(8):841-852.
40. **Lee HY**. The J Curve Phenomenon is Still Valid in the Era of Primary Revascularization. Korean Circ J. 2017 Jul;47(4):440-441.
41. **Lee HY**, Kim SY, Choi KJ, Yoo BS, Cha DH, Jung HO, Ryu DR, Choi JH, Lee KJ, Park TH, Oh JH, Kim SM, Choi JY, Kim KH, Shim J, Kim WS, Choi SW, Park DG, Song PS, Hong TJ, Rhee MY, Rha SW, Park SW. A Randomized, Multicenter, Double-blind, Placebo-controlled Study to Evaluate the

- [Efficacy and the Tolerability of a Triple Combination of Amlodipine/Losartan/Rosuvastatin in Patients With Comorbid Essential Hypertension and Hyperlipidemia.](#) Clin Ther. 2017 Nov 14. pii: S0149-2918(17)31019-6.
42. Lee SE, **Lee HY**, Cho HJ, Choe WS, Kim H, Choi JO, Jeon ES, Kim MS, Hwang KK, Chae SC, Baek SH, Kang SM, Choi DJ, Yoo BS, Kim KH, Cho MC, Kim JJ, Oh BH. [Reverse J-Curve Relationship Between On-Treatment Blood Pressure and Mortality in Patients With Heart Failure.](#) JACC Heart Fail. 2017 Nov;5(11):810-819.
43. Gu G, Na Y, Chung H, Seok SH, **Lee HY**. [Zebrafish Larvae Model of Dilated Cardiomyopathy Induced by Terfenadine.](#) Korean Circ J. 2017 Sep 20. doi: 10.4070/kcj.2017.0080. [Epub ahead of print]
44. **Lee HY**, Jeon ES, Kang SM, Kim JJ. [Initial Report of the Korean Organ Transplant Registry \(KOTRY\): Heart Transplantation.](#) Korean Circ J. 2017 Aug 16. doi: 10.4070/kcj.2016.0403. [Epub ahead of print]
45. **Lee HY**, Kim CH, Song JK, Chae SC, Jeong MH, Kim DS, Oh BH. [24-Hour blood pressure response to lower dose \(30 mg\) fimasartan in Korean patients with mild to moderate essential hypertension.](#) Korean J Intern Med. 2017 Nov;32(6):1025-1036.
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47. Lee SE, **Lee HY**, Cho HJ, Choe WS, Kim H, Choi JO, Jeon ES, Kim MS, Hwang KK, Chae SC, Baek SH, Kang SM, Choi DJ, Yoo BS, Kim KH, Cho MC, Kim JJ, Oh BH. [Coronary artery bypass graft versus percutaneous coronary intervention in acute heart failure.](#) Heart. 2018 Sep 12. pii: heartjnl-2018-313242. doi: 10.1136/heartjnl-2018-313242. [Epub ahead of print]
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50. Kim I, Park CS, **Lee HY**. Angiotensin II Type 1 Receptor Blocker, Fimasartan, Reduces Vascular Smooth Muscle Cell Senescence by Inhibiting the CYR61 Signaling Pathway. Korean Circ J. 2019;49:e47.
51. **Lee HY**, Shin J, Kim GH, Park S, Ihm SH, Kim HC, Kim KI, Kim JH, Lee JH, Park JM, Pyun WB, Chae SC. [2018 Korean Society of Hypertension Guidelines for the management of hypertension: part II-diagnosis and treatment of hypertension.](#) Clin Hypertens. 2019 Aug 1;25:20. doi: 10.1186/s40885-019-0124-x.
52. **Lee HY**. [Big Challenge in Big Data Research: Continual Dispute on Big Data Analysis.](#) Korean Circ J. 2020 Jan;50(1):69-71.
53. Quan H, Oh GC, Seok SH, **Lee HY**. [Fimasartan, an angiotensin II receptor antagonist, ameliorates an in vivo zebrafish model of heart failure.](#) Korean J Intern Med. 2020 Mar 13. doi: 10.3904/kjim.2019.038. [Epub ahead of print]
54. Oh GC, Cho HJ, Lee SE, Kim MS, Kim JJ, Choi JO, Jeon ES, Hwang KK, Chae SC, Baek SH, Kang SM, Yoo BS, Choi DJ, Ahn Y, Kim KH, Cho MC, Oh BH, **Lee HY**. [Management and Prognosis of Heart Failure in Octogenarians: Final Report from the KorAHF Registry.](#) J Clin Med. 2020 Feb 12;9(2). pii: E501. doi: 10.3390/jcm9020501.
55. Oh GC, Joo KW, Kim MA, Choi DJ, Kim YJ, **Lee HY**. Long-Term Safety of a Novel Angiotensin Receptor Blocker, Fimasartan, According to the Absence or Presence of Underlying Liver Disease in Korean Hypertensive Patients: A Prospective, 12-Month, Observational Study. Drug Des Devel Ther. 2020 Apr 3;14:1341-1349.
56. Kong MG, Jang SY, Jang J, Cho HJ, Lee S, Lee SE, Kim KH, Yoo BS, Kang SM, Baek SH, Choi DJ,

- Jeon ES, Kim JJ, Cho MC, Chae SC, Oh BH, Lim S, Park SK, **Lee HY**. Impact of diabetes mellitus on mortality in patients with acute heart failure: a prospective cohort study. *Cardiovasc Diabetol*. 2020 May 2;19(1):49.
57. Park CS, Kim I, Oh GC, Han JK, Yang HM, Park KW, Cho HJ, Kang HJ, Koo BK, Chung WY, Oh S, **Lee HY**. [Diagnostic Utility and Pathogenic Role of Circulating MicroRNAs in Vasospastic Angina](#). *J Clin Med*. 2020 May 2;9(5):1313. doi: 10.3390/jcm9051313.
  58. Park CS, Cho HJ, Choi EK, Lee SE, Kim MS, Kim JJ, Choi JO, Jeon ES, Hwang KK, Chae SC, Baek SH, Kang SM, Yoo B, Choi DJ, Ahn Y, Kim KH, Cho MC, Oh BH, **Lee HY**. [J-curve relationship between corrected QT interval and mortality in acute heart failure patients](#). *Korean J Intern Med*. 2020 May 8. doi: 10.3904/kjim.2019.030. Online ahead of print.
  59. Lee SM, Kim K, Yoon J, Park SK, Moon S, Lee SE, Oh J, Yoo S, Kim KI, Yoon HJ, **Lee HY**. [Association between Use of Hydrochlorothiazide and Nonmelanoma Skin Cancer: Common Data Model Cohort Study in Asian Population](#). *J Clin Med*. 2020 Sep 9;9(9):2910. doi: 10.3390/jcm9092910.
  60. **Lee HY**, Han KH, Chung WB, Her SH, Park TH, Rha SW, Choi SY, Jung KT, Park JS, Kim PJ, Lee JM, Jeong MH, Shin ES, Gwon HC, Han KR, Chae JK, Kim WS, Choi DJ, Hong BK, Choi SW, Chung N. [Safety and Efficacy of Pitavastatin in Patients With Impaired Fasting Glucose and Hyperlipidemia: A Randomized, Open-Labeled, Multicentered, Phase IV Study](#). *Clin Ther*. 2020 Sep 10:S0149-2918(20)30347-7. doi: 10.1016/j.clinthera.2020.07.013. Online ahead of print.
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  64. **Lee HY**, Lee DJ, Seo J, Ihm SH, Kim KI, Cho EJ, Kim HC, Shin J, Park S, Sohn IS, Chung WJ, Ryu SK, Sung KC, Kim J, Kim DH, Pyun WB; Korean Society of Hypertension. Smartphone / smartwatch-based cuffless blood pressure measurement : a position paper from the Korean Society of Hypertension. *Clin Hypertens*. 2021 Jan 25;27(1):4.
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  66. **Lee HY**, Oh GC, Sohn IS, Park S, Shin J, Pyun WB, Cho MC. [Suboptimal Management Status of Younger Hypertensive Population in Korea](#). *Korean Circ J*. 2021 Apr 26. doi: 10.4070/kcj.2020.0542. Online ahead of print. PMID: 34085433
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73. Lee HY. [Solvitur Ambulando: Importance of Exercise in Middle-Age for Cardiovascular Health.](#) Korean Circ J. 2021 Nov;51(11):936-938.
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84. Kim I, Seok SH, Lee HY. [Development of a Zebrafish Larvae Model for Diabetic Heart Failure With Reduced Ejection Fraction.](#) Korean Circ J. 2023 Jan;53(1):34-46. doi: 10.4070/kcj.2022.0210.
85. Lee HY, Lee KS. [Withdrawal of antihypertensive medication in young to middle-aged adults: a](#)

[prospective, single-group, intervention study](#). Clin Hypertens. 2023 Jan 2;29(1):1. doi: 10.1186/s40885-022-00225-2.

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## Narrative Report

I was first appointed as a clinical professor in the cardiology division, department of internal medicine (Subspecialty: hypertension/heart failure) at Seoul National University Hospital in 2006, and has been co-affiliated as a professor of fund from August 2014 to August 2019, and a full professor since September 2020 at Seoul National University College of Medicine.

My major activities reflect three areas of excellence; preventive medicine (Hypertension), heart failure and heart transplantation. I focus on the clinical study regarding hypertension and heart failure, devoting 60% of my effort. In this part, my main interest is the treatment of heart failure and the epidemiology of hypertension in Korea. Particularly, I am interested in the impact of metabolic syndrome and diabetes in cardiovascular disease.

1) Heart transplantation: One of the four major institutions in Korea and has been participating in the eight-year national heart transplant registry study since 2014. The results of the initial registration of the heart transplant registry were summarized and selected as the 2018 Best Paper at the 2018 Korean Heart Association International Conference. Participating as a sub-investigator (Hospital principal investigator) of KOTRY (Korean Organ Transplantation Registry) since its initiation in 2014, I am scheduled to serve as a principal investigator of heart transplantation in 2<sup>nd</sup> stage of KOTRY in September, 2023.

2) Heart failure: In charge of the launch of the National Acute Heart Failure Registry project in 2010, it was evaluated as the best research project by the Korea Centers for Disease Control and Prevention after completing the project for eight years in February 2019. (Professor Oh Byung-Hee took over as the general manager in 2018) To date, more than 50 papers have been published (including 5 correspondence authors). The main result paper that published the final registration in 2017 was selected as the Best Paper Award at the 2018 International Conference of the Korean Heart Association (Correspondent author). Now I am serving as a chairman of Research Committee of the Korean Society of Heart Failure since 2022. Also, I have researched the impact of diabetes mellitus in heart failure using Zebrafish-Heart failure model with Professor Seung-Hyeok Seok in the Laboratory of macrophages mediated Diseases at Seoul National University College of Medicine.

3) Hypertension: Since 2018, the research director has established a 10-year follow-up registry that combines hospital records and public big data of 11000 hypertensive patients at the National Institute of Health and Medical Sciences (NECA) and six national university hospitals nationwide. Entering as a member of Scientific Committee of the Korean Society of Hypertension, I have served as the chairman of Scientific Committee (2017-2018), International Relationship Committee (2019-2020), and currently Secretary General of the Society (2021-). Particularly I am interested in the Mobile device technology of hypertension management and received two governmental research funds for blood pressure measuring sensor technology with Professor Jung-Mo Seo at the Seoul National University Department of Electrical and Computer Engineering.



30% of my time is dedicated to the education including medical student, residents, fellows, and primary care physicians. I have served as a chief instructor of the junior students (third degree) in the medical college (2018-2021). I also received the Best Education Teacher award at Seoul National University College of Medicine in 2019.

The remaining portion of my time is dedicated to the clinical researches. I have developed several protocols for prospective multicenter studies. I am also the site Principal Investigators for several regional and international multicenter clinical trials. Also, from 2015 to February 2020, I have served in the office of Hospital Information as a deputy head. The field of my work covers precision medicine, clinical data warehouse, common data modeling and electronic medical record of my hospital.

During August 2010 to December 2011, I have studied as postdoctoral fellow in Loscalzo Lab under mentorship of Professor Joseph Loscalzo and Professor Jane Leopold.

In summary, I have established myself as a clinician-scientist with expertise in preventive cardiology (Hypertension and metabolic syndrome), heart failure and heart transplantation. Also I have served as a Secretary-General of the Korean Society of Hypertension. And I have educated medical student, residents, fellows, and primary care physicians as a faculty at Seoul National University College of Medicine.

## Full Curriculum Vitae

**Date of birth:** June, 12, 1971  
**Name:** Hae-Young Lee  
**Office Address:** Cardiology Division, Department of Internal Medicine, Seoul National University Hospital, Chongno-Gu, Seoul, Korea, 03080  
**Home Address:** Daechi Dongbu Centreville 105-1903, Sunneung-Ro, Gangnam-Gu, Seoul, Korea, 06007  
**Work Phone:** 082-2-2072-0698  
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**Work FAX:** 082-2-3675-0805  
**Place of Birth:** Seoul, Korea

### Education

1996	B.A.	Medical Science	Medical School of Seoul National University
1996	M.D.	Medical Science	Medical School of Seoul

1998	M.M.S.	Internal Medicine (Director: Prof. Yun-Shik Choi)	National University Graduate School of Seoul National University
2006	Ph.D.	Medical Science (Internal Medicine) (Director: Prof. Byung-Hee Oh)	Graduate School of Seoul National University\

### Postdoctoral Training

3/96-2/97	Full rotation internship		Seoul National University Hospital
3/97-2/01	Resident	Internal Medicine	Seoul National University Hospital
5/04-2/06	Fellowship	Cardiology	Seoul National University Hospital
8/10-12/11	Postdoc fellow	Loscalzo laboratory, Medicine (Director: Joseph Loscalzo)	Harvard Medical School Brigham and Women's Hospital

### Faculty Academic Appointments

3/06-3/12	Assistant Professor	Internal Medicine	Seoul National University Hospital
4/12-8/19	Associate Professor	Internal Medicine	Seoul National University Hospital
9/14-8/19	Associate Professor	Internal Medicine	Seoul National University College of medicine (co- affiliated)
9/19- Current	Professor	Internal Medicine	Seoul National University Hospital (co-affiliated)
9/20- Current	Professor	Internal Medicine	Seoul National University College of Medicine (co- affiliated)

### Appointments at Hospitals/Affiliated Institutions

4/01 – 4/04	Public Health	As 40 months' obligatory military	Ministry of Health,
3/06-	Practitioner	service	Welfare and Family affairs
	Attending Physician (Assistant Professor)	Internal Medicine Cardiology Division	Seoul National University Hospital

### Other Professional Positions

### Major Administrative Leadership Positions

**Local**

1998- Weekend voluntary medical service for Foreign Workers

**Regional**

2009-2010 Medical consultation for military medico-legal problem

2009-2019 질병관리청 한국 급성심부전 레지스트리 (2009-2019, 연구 책임자 2018-2019)

2014-현재 질병관리청 한국 장기이식 레지스트리 심장이식 분야 (2014-, 2023 년 진행예정 2 차 사업 연구 책임자)

2015-2017 보건복지부 보건의료 R&D 기획 자문위원

2020-현재 질병관리청 국가건강조사 고혈압 분과 자문위원

2016-현재 질병관리청 장기이식운영위원회 심장폐분과위원

2022-현재 질병관리청 헬스케어인공지능 전문위원회 위원장

2022-2022 질병관리청 질병관리분야 전문위원

2022 질병관리청 바이오빅데이터 구축 총괄기획위원

2019-현재 한국의약품안전관리원 DUR 분과위원

2022-현재 건강보험심사평가원 고혈압 전문분과심의위원

**National and International****Committee Service****Local**

2006-2008	Organization Committee of SEOUL conference on cardiovascular research	Seoul National University Hospital
2008-2010	Organization Committee of ENCORE Seoul	ENCORE Seoul conference
2010-2016	Scientific committee	Korean Society of Cardiology
2017-2018	Chairman, Scientific committee	Korean Society of Hypertension
2017-	Chairman, Scientific committee	Korean Vascular Biology Working Group
2019-2020	Director, International Relations Committee	Korean Society of Hypertension
2019-	Director, External affairs board	Korean Association of Internal Medicine
2018-	Chairman, Scientific committee	International society of cardiovascular pharmacotherapy Korean Chapter
2021-	Secretary general	Korean Society of Hypertension

**Regional**

2006-2007	Internship Selection Committee	Seoul National University Hospital
2006-2010	Internal Medicine Residency Selection Committee	Seoul National University Hospital
2009-2010	Advanced Life Support Education Program Leader	Seoul National University Hospital

### **National and International**

2020- Board member of the Asia-Pacific Regional  
Advisory Group

### **Professional Societies**

2004-	American Heart Association	
2000-	Korean Society of Cardiology	
2006-	Korean Society of Atherosclerosis	Member, Council of International affairs
2004-	Korean Society of Hypertension	
2006-		Member, Council of Metabolic syndrome
2007-		Member, Council of Target organ damage
2007-		Member, Council of Basic research
2009-		Member, Scientific committee
2017-2018		Chairman, Scientific Committee
2019-2020		Director, International Relations Committee
2021-		Secretary general

### **Grant Review Activities**

#### **Editorial Activities**

Editorial board of Korean Journal of Internal Medicine (2011-2019)  
Editorial board of Journal of Korean Medical Science (2015-), Co-editor (2019- )  
Editorial Board of Korean Circulation Journal (2017-2022)  
Co-Editor of International Journal of Cardiology (2020-)

#### **Honors and Prizes**

2004	Young Investigator Award	Korean Society of Circulation Annual Scientific Meeting
2006	Best research award	Korean Society of Atherosclerosis Annual Scientific Meeting
2009	Best research award	Korean Society of Hypertension Annual Scientific Meeting
2010	Finalist	Young investigator competition for 10 <sup>th</sup> US-Japan-Asia dialogue on cardiovascular disease
2010	Young Investigator Award	Korean Society of Hypertension Annual Scientific Meeting
2015	Excellent research	25 <sup>th</sup> Korean federation of science and

## Report of Funded and Unfunded Projects

### Funding Information

연 번	연구과제	연구기관 (연구비지원기관)	연구기간	연구책임자	역할	총연구비(개 인지분) (백만원)
1	스타틴 요법으로 고콜레스테롤혈증이 적절하게 조절되지 않는 심혈관계 고위험군 환자에서 SAR236553/REGN727의 유효성과 안전성을 에제티미브와 비교하여 평가하는 무작위배정, 이중 눈가림, 평행군 시험	서울대학교병원 / MEDPACE	20121214~20160731	이해영	연구책임자	27
2	한국의 종합병원에서 고혈압으로 치료받는 환자 중 저항성 고혈압 환자의 유병률을 조사하기 위한 관찰연구	서울대학교병원 / 주식회사 한독	20130111~20150630	이해영	연구책임자	2
3	본태성 고혈압이 있는 고령 환자에게 중심 동맥압의 평가를 통해 동맥 경직도에 대한 LCZ696 요법의 안전성 및 유효성을 평가하기 위한 무작위 배정, 이중-맹검, 활성-대조, 다기관, 52 주 임상시험(CLCZ696Z2216)	서울대학교병원 / 한국노바티스(주)	20130205~20160518	이해영	연구책임자	127
4	제 2형 당뇨병이 있는 피험자에서 MK-3102 치료 후 심혈관계 결과를 평가하기 위한 무작위 배정, 이중-눈가림, 위약-대조, 다기관 임상시험	서울대학교병원 / 한국엠에스디 유한회사	20130313~20181231	이해영	연구책임자	180
5	고콜레스테롤혈증 또는 저 HDL-C 수치를 나타내는 환자를 대상으로 다른 지질조절제와 병용하거나 병용하지 않은 현재의 스타틴 요법에 Anacetrapib을 추가하였을 때의 유효성과 내약성을 평가하기 위한 24 주, 다국가, 다기관, 이중맹검, 무작위배정, 평행군, 위약 대조 임상시험	서울대학교병원 / 한국엠에스디 유한회사	20130506~20160930	이해영	연구책임자	52
6	성인 본태성 고혈압 환자를 대상으로 카나브 정® (Fimasartan) 1년 장기 치료의 허가 후 장기 안전성에 대한 전향적, 관찰적 연구	서울대학교병원 / 보령제약(주)	20130527~20181130	이해영	연구책임자	135
7	좌심실수축기기능부전을 동반한 만성 심부전 악화로 응급 내원하였으며 만성신질환을 동반하거나 하지 않은 제 2형 당뇨병 또는 중등도 만성신질환을 단독으로 가진 시험대상자에서 에플레레논(Eplerenone) 대비 BAY 94-8862의 안전성 및 유효성을 평가하기 위한 무작위배정, 이중 눈가림, 이중 더미(double-	서울대학교병원 / 바이엘코리아(주)	20130730~20151231	이해영	연구책임자	111



	dummy), 다기관 임상시험					
8	저용량 스타틴 단독요법으로 조절되지 않는 복합 고지혈증 환자에서 스타틴 증량요법과 저용량 스타틴 및 페노피브릭산 병용요법의 치료효과 및 안전성을 비교하기 위한 임상시험 : 다기관, 무작위배정, 라벨 공개 임상시험	서울대학교병원 / 한미약품(주)	20130813~20160507	이해영	연구책임자	15
9	공복혈당장애를 동반한 고지혈증 환자를 대상으로 피타바스타틴의 안전성 및 유효성을 평가하기 위한 무작위배정, 공개, 다기관 임상연구	서울대학교병원 / (주)중외제약	20131224~20190115	이해영	연구책임자	48
10	본태성 고혈압 환자에서 심혈관 위험요인 조건에 따른 아모잘탄 혈압 강하 효과 분석: 전향적, 다기관, 관찰연구	서울대학교병원 / 분당서울대학교 병원	20140403~20160531	이해영	연구책임자	48
11	급성 심부전 환자에서 표준 요법에서 추가된 세레락신의 유효성, 안전성 및 내약성을 평가하기 위한 다기관, 무작위 배정, 이중-눈가림, 위약-대조 제 3 상 임상시험	서울대학교병원 / 한국노바티스(주)	20140625~20181231	이해영	연구책임자	150
12	심혈관 질환예방을 위한 전국 고혈압 임상연구네트워크 구축 및 병원 코호트	서울대학교병원 / 보건복지부	20140707~20160430	이해영	연구책임자	2
13	발사르탄 160mg 의 단일요법에 불충분하게 반응한 본태성 고혈압 환자에서 실니디핀 10mg/발사르탄 160mg 병용요법, 실니디핀 5mg/발사르탄 160mg 병용요법과 발사르탄 160mg 단일요법의 유효성과 안전성을 비교하기 위한 임상시험 : 다기관, 무작위배정, 양측 눈가림, 제 3 상 임상시험	서울대학교병원 / 일동제약(주)	20140715~20161031	이해영	연구책임자	65
14	만성 심부전 및 좌심실 수축기능 장애 환자에서 위약과 비교하여 경구 S38844 의 반복적인 용량 증가 투여 시 약력학, 약동학 및 안전성 평가. 제 2 상, 무작위배정, 이중눈가림, 평행군, 위약대조, 다국가 다기관 시험	서울대학교병원 / 한국세르비에(주)	20140730~20160731	이해영	연구책임자	42
15	본태성 고혈압과 이상지질혈증을 동반한 환자를 대상으로 Fimasartan/Rosuvastatin 복합제와 각각의 단일제의 유효성과 안전성을 비교하기 위한 무작위 배정, 이중 눈가림, 다기관, 제 3 상 임상시험	서울대학교병원 / 보령제약(주)	20140811~20160731	이해영	연구책임자	36
16	아시아의 이상지질 혈증과 고혈압의 진단과 치료에 대한 분석 연구	서울대학교병원 / 한국화이자제약 (주)	20141024~20160930	이해영	연구책임자	12
17	고혈압 환자의 24 시간 중심혈압과 혈관 혈액학적 지표에 있어서 안지오텐신 II 수용체 차단제와 병용한 칼슘채널차단제와 이노제의 효과 비교 다기관, 이중눈가림, 활성대조, 무작위배정 4 상 임상시험	서울대학교병원 / 강동경희대학교 병원	20141104~20170731	이해영	연구책임자	42
18	본태성 고혈압 환자 대상 칸데사르탄과 암로디핀 병용요법과 단일요법에 대한 유효성과 안전성을 평가하여 복합제의 용량을 설정하기 위한 다기관,	서울대학교병원 / 신흥제약(주)	20141107~20170531	이해영	연구책임자	117

	무작위배정, 이중눈가림, 제 2 상 임상시험					
19	고혈압과 이상지질혈증 동반질환자에 있어서 HGP0904, HGP0608, HGP0816 의 병용요법의 유효성과 안전성 비교: 무작위배정, 이중눈가림, 다기관 공동, 제 3 상 임상시험	서울대학교병원 / 한미약품(주)	20141203~20170831	이해영	연구책임자	29
20	한국에서의 급성심부전의 경제적 부담에 관한 후향적 관찰조사	서울대학교병원 / 서울대학교산학협력단	20150129~20171015	이해영	연구책임자	5
21	한국에서의 심부전 환자의 의료자원 이용과 비용연구: 후향적 차트리뷰	서울대학교병원 / 성균관대학교산학협력단	20151020~20160630	이해영	연구책임자	12
22	만성 심부전이 있고 최근 심부전 보상기전상실 후 박출계수가 감소하였으며 추가적인 위험 요인인 제 2 형 당뇨병 또는 만성 신질환 또는 둘 다가 있는 환자를 대상으로 이환율 및 사망률에 대한 피네레논(finerenone)의 유효성과 안전성을 에플레레논(eplerenone)과 비교하여 평가하는 다기관, 무작위배정, 이중 눈가림, 이중 위약, 평행군, 활성 대조 시험.	서울대학교병원 / 바이엘코리아(주)	20160219~20190131	이해영	연구책임자	2
23	표준약제치료에도 조절되지 않는 고혈압 환자에서 DENEX 시스템을 이용한 신장신경절제술 시행 시의 안전성 및 유효성을 평가하기 위한 공개, 단일군, 다기관 예비 임상시험	서울대학교병원 / 주식회사 한독	20160527~20190630	이해영	연구책임자	69
24	고혈당에 의한 혈관 세포 노화와 안지오텐신 수용체 차단제의 보호 기전 확인	서울대학교병원	20120701~20150630	이해영	연구책임자	20
25	고혈당에 의한 내피세포 노화와 Fimasartan 의 보호 기전 확인	서울대학교병원 / 보령제약(주)	20120926~20180930	이해영	연구책임자	30
26	심부전의 악화 및 저나트륨혈증으로 입원한 환자를 대상으로 저나트륨 혈증의 치료에 있어 톨바탄의 적절한 사용시 임상 결과와 치료 질의 평가	서울대학교병원 / 한국오츠카제약(주)	20121128~20191031	이해영	연구책임자	48
27	고혈당에 의한 혈관 세포 노화와 안지오텐신 수용체 차단제의 보호 기전 확인	서울대학교병원	20130701~20150630	이해영	연구책임자	27
28	심부전의 악화로 인한 입원 후 만성 심부전 및 유의한 관상동맥 질환이 있는 대상자에서 사망, 심근경색 또는 뇌졸중의 위험 감소에 대해 경구 Rivaroxaban 의 유효성 및 안전성을 위약과 비교하기 위한 무작위 배정, 이중-눈가림, 사건-주도형, 다기관 임상시험	서울대학교병원 / (주)한국얀센	20150311~20190611	이해영	연구책임자	40
29	국가건강검진 항목 중 고혈압 검진의 타당성 분석 연구	서울대학교병원 / 질병관리본부	20150731~20160530	이해영	연구책임자	91

30	BAYER 16275 임상 연구 수행을 위한 자문	서울대학교병원 / 바이엘코리아(주)	20151109~ 20201231	이해영	연구책임자	1
31	제브라피쉬를 이용한 당뇨병성 심부전 동물 모델 확립과 병태 생리 연구	서울대학교병원	20160223~ 20190221	이해영	연구책임자	35
32	심부전증 기전 연구를 위한 Zebrafish 모델 확립과 약물 효과 스크리닝	서울대학교병원	20160601~ 20170531	이해영	연구책임자	30
33	박출률이 저하된 심부전(Heart Failure With Reduced Ejection Fraction, HFrEF) 환자를 대상으로 경구용 sGC 자극제인 Vericiguat 의 유효성과 안전성을 평가하는 무작위배정, 평행군, 위약 대조, 이중눈가림, 사건- 주도형, 다기관, 중추적 제 III 상 임상 성적 임상시험 - 박출률이 저하된 심부전 환자 대상의 Vericiguat 글로벌 임상시험(VeriCiguat glObal study in subjects with heart failure with Reduced ejection frAction,	서울대학교병원 / 한국엠에스디 유한회사	20161006~ 20200501	이해영	연구책임자	97
34	심부전이 동반된 제 2 형 당뇨병 환자에서 Saxagliptin 투여와 Sitagliptin 투여의 효과를 평가하기 위한 24 주 간의 다기관, 무작위배정, 이중 눈가림, 평행군, 위약- 대조 임상시험	서울대학교병원 / 한국아스트라제 네카(주)	20161207~ 20210415	이해영	연구책임자	66
35	LncRNA biomarker 를 이용한 급성심근경색 후 심부전 예측 신속진단 테스트 개발	서울대학교병원 / 한국산업기술진 흥원	20170401~ 20180331	이해영	연구책임자	180
36	LncRNA biomarker 를 이용한 급성심근경색 후 심부전 예측 신속진단 테스트 개발	서울대학교병원 / 한국산업기술진 흥원	20180401~ 20190331	이해영	연구책임자	180
37	심부전환자에서 속효성 carvedilol 과 지속성 carvedilol- SR 의 임상 효과 및 치료의 질을 평가하기 위한 무작위 배정, 이중 눈가림, 다기관, 제 4 상 임상연구	서울대학교병원 / 분당서울대학교 병원	20170516~ 20181231	이해영	연구책임자	50
38	본태성 고혈압이 있는 고령자를 대상으로 Fimasartan 과 Perindopril 의 단독 투여 또는 이노복합제 투여시 유효성과 안전성을 평가하기 위한 무작위 배정, 이중 눈가림, 활성대조, 2 군 병행, 선택적정, 다기관, 제 3b 상 임상시험	서울대학교병원 / 보령제약(주)	20170605~ 20190630	이해영	연구책임자	66
39	Fimasartan 단일요법에 반응하지 않는 본태성 고혈압과 이상지질혈증이동반된 환자에서 Fimasartan/Amlodipine/Rosuvastatin 투여군의유효성 및 안전성을 확인하기 위한 무작위 배정, 이중 눈가림, 다기관,제 3 상 임상시험	서울대학교병원 / 보령제약(주)	20170626~ 20190413	이해영	연구책임자	68
40	경도의 이상지질혈증을 동반한 고혈압 환자를 대상으로 Telmisartan 과 Rosuvastatin 복합제(듀오웰®정) 투여와 Telmisartan 단일제 투여 시 중심 동맥압에 미치는 영향을 평가하는 무작위배정, 공개, 평행, 다기관, 제 4 상 임상시험	서울대학교병원 / (주)유한양행	20170727~ 20200618	이해영	연구책임자	32

41	피마사르탄을 포함한 2 제 이상 병용요법이 필요한 고혈압 환자를 대상으로 가정혈압 측정이 혈압 조절에 미치는 영향과 진료실 혈압과 가정혈압 간의 연관성을 평가하기 위한 다기관, 군집-무작위배정, 중단적 관찰 연구	서울대학교병원 / 보령제약(주)	20170801~20190228	이해영	연구책임자	5
42	고지혈증을 동반한 고혈압 환자를 대상으로 CJ-30061 투여군과 암로디핀/발사르탄 투여군, 발사르탄/아토르바스타틴 투여군의 안전성 및 유효성을 비교 평가하기 위한 이중눈가림, 무작위배정, 다기관 제 3 상 임상시험	서울대학교병원 / 씨제이 헬스케어(주)	20170905~20191122	이해영	연구책임자	75
43	UI018 의 유효성과 안전성을 평가하기 위한 다기관, 무작위배정, 이중눈가림, 평행, 제 3 상 임상시험	서울대학교병원 / 한국유나이티드 제약주식회사	20171031~20191231	이해영	연구책임자	34
44	한국인 심장이식 환자에서 이식 후 급성 거부반응과 이식 전 감각과의 관계 및 위험 요인을 고찰하는 후향적 연구	서울대학교병원 / (주)종근당	20171208~20191208	이해영	연구책임자	20
45	고혈압 및 이상지질혈증을 동반한 환자 대상 Amlodipine/Valsartan/Rosuvastatin 3 제 요법의 유효성과 안전성을 비교평가하기 위한 다기관, 무작위배정, 이중눈가림, 평행, 제 3 상 임상시험	서울대학교병원 / 경동제약(주)	20180110~20190930	이해영	연구책임자	69
46	심부전예방관리지표개발을 위한 전향적 추적관찰 연구	서울대학교병원 / 질병관리본부	20180115~20181231	이해영	연구책임자	181(64)
47	엔트레스토 필름코팅정 / 제네프리 필름코팅정 (사쿠비트릴, 발사르탄나트륨염수화물) 의 사용성적조사 ( rPMS )	서울대학교병원 / 한국노바티스(주)	20180131~20220413	이해영	연구책임자	7
48	심혈관 위험인자 및 중등도 신기능 장애가 있는 제 2 형 당뇨병 환자에서 소타글리플로진이 심혈관 및 신장 사건에 미치는 영향을 입증하기 위한 무작위배정, 이중 눈가림, 위약 대조, 평행군, 다기관 시험	서울대학교병원 / (주)사노피-아벤티스코리아	20180206~20220831	이해영	연구책임자	88
49	Statin 단독요법으로 TG 수치가 적절히 조절되지 않는 환자에서 statin 단독투여군 대비 statin 과 티지페논(choline fenofibrate) 병용투여군의 유효성과 안전성을 평가하기 위한 다기관, 무작위배정, 이중 눈가림, 평행 제 4 상 임상시험	서울대학교병원 / 대원제약(주)	20180419~20200331	이해영	연구책임자	36
50	심부전 악화 후 혈액학적으로 안정된 제 2 형 당뇨병 환자에서 소타글리플로진이 임상적 결과에 미치는 영향을 평가하기 위한 무작위 배정, 이중 눈가림, 위약 대조, 평행군, 다기관 임상시험	서울대학교병원 / (주)사노피-아벤티스코리아	20180605~20210630	이해영	연구책임자	46
51	중증의 한국인 급성 비보상성 심부전 환자에서 SIMDAX®의 단기간 투여 시 유효성 및 안전성을 평가하기 위한 무작위배정, 이중눈가림, 위약대조, 평행, 다기관 가교 임상시험	서울대학교병원 / (주)유영제약	20180806~20190531	이해영	연구책임자	78

52	텔로스토폴러스정의 시판 후 조사를 통한 안전성 및 유효성 평가	서울대학교병원 / 일동제약(주)	20190221~20240509	이해영	연구책임자	5
53	본태성 고혈압 환자를 대상으로 HCP1803 의 용량-반응 관계를 평가하기 위한 8 주간, 다기관, 무작위배정, 이중눈가림, 평행설계, 제 2 상 임상시험	서울대학교병원 / 한미약품(주)	20190305~20201130	이해영	연구책임자	56
54	박출률이 보존된 심부전(HFpEF)환자를 대상으로 다파글리플로진의 운동능력에 대한 영향을 평가하기 위한 다국가, 다기관, 평행군, 무작위배정, 이중 눈가림, 위약 대조, 제 III 상 임상시험	서울대학교병원 / 한국아스트라제네카(주)	20190322~20200331	이해영	연구책임자	20
55	박출률이 감소한 심부전(HFrEF) 환자를 대상으로 다파글리플로진의 운동능력에 대한 영향을 평가하기 위한 다국가, 다기관, 평행군, 무작위배정, 이중 눈가림, 위약 대조, 제 III 상 임상시험	서울대학교병원 / 한국아스트라제네카(주)	20190322~20200331	이해영	연구책임자	20
56	박출률이 감소한 심부전(HFrEF) 환자를 대상으로 다파글리플로진의 운동능력에 대한 영향을 평가하기 위한 다국가, 다기관, 평행군, 무작위배정, 이중 눈가림, 위약 대조, 제 III 상 임상시험	서울대학교병원 / 한국아스트라제네카(주)	20190327~20200326	이해영	연구책임자	25
57	고혈압 약물 중단 후 정상 혈압 유지와 관련된 요인 탐색	서울대학교병원	20190501~20201130	이해영	연구책임자	24

**Current**

2009- National Registry for Heart Failure: Main investigator of the hospital  
 2014- Korean Organ Transplantation Registry –Heart Transplantation

**Report of Clinical Activities and Innovations**

**Current Licensure and Certification**

1996 M.D., Korean License  
 2001 Korean Board Certification in Internal Medicine  
 2006 Subspecialty Certification in Cardiology  
 2009 Subspecialty Certification in Critical Care Medicine

**Practice Activities**

2006-	Interventional cardiology	Cardiology, Seoul National University Hospital	1 days per week
2006-	Outpatient Clinic	Cardiology, Seoul National University Hospital	4 session per week
2006-	Inpatient Service	Cardiology, Seoul National University Hospital	Everyday

**Report of Scholarship**

**Publications**



### Peer reviewed publications in print or other media

87. Na SH, Lee JH, **Lee HY**, Lee JK, Chae IH, Kim HS, Sohn DW, Oh BH, Lee MM, Park YB, Choi YS, Lee YW. Effects of ACEI induced cough on LV mass in hypertensive patients and its reduction by antihypertensive medication. *Korean Circ J* 2000;30:1546-54.
88. Na SH, Lee JH, **Lee HY**, Lee SY, Chae IH, Kim HS, Sohn DW, Oh BH, Lee MM, Park YB, Choi YS, Lee YW. Risk factors of angiotensin-converting enzyme inhibitor-induced cough in patients with hypertension. *Korean Circ J* 2000;30:1540-45.
89. On YK, Kang MJ, Kim SY, **Lee HY**, Chae IH, Kim CH, Sohn DW, Oh BH, Lee MM, Park YB, Choi YS. Endothelium-dependent relaxation is impaired by environmental tobacco smoke exposure in guinea pig aorta. *Korean Circ J* 2000;30:1149-55.
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91. Kim DH, Lee MM, **Lee HY**, Cho HJ, Park SJ, Seo JB, Suh JW, Yang HM, Yun CH, Cho SH, Lee JH, Kim YJ, Kim MA, Sohn DW, Oh BH, Park YB. Long-term effect of angiotensin converting enzyme inhibitor on chronic mitral regurgitation. *Korean Circ J* 2004;34:159-69.
92. Koo BK, Kim YS, Park KW, Yang HM, Kwon DA, Chung JW, Hahn JY, **Lee HY**, Park JS, Kang HJ, Cho YS, Youn TJ, Chung WY, Chae IH, Choi DJ, Oh BH, Park YB, Kim HS. Effect of celecoxib on restenosis after coronary angioplasty with a Taxus stent (COREA-TAXUS trial): an open-label randomised controlled study. *Lancet*. 2007;370:567-74.
93. Park KW, Koo BK, Kim HL, Kim YS, Jo SH, **Lee HY**, Kang HJ, Cho YS, Chung WY, Yeon TJ, Chae IH, Choi DJ, Kim HS, Oh BH, Park YB. The incidence and predictors of contrast-induced nephropathy in adequately hydrated elderly patients with impaired renal function. *Nephrol Dial Transplant*. 2007;22:1794-5.
94. Kim MS, Han JK, Lee SE, Kim SY, Park KW, Koo BK, **Lee HY**. Cases of right ventricular myocardial infarction in patients with an absent or hypoplastic right coronary artery. *Korean Circ J*. 2007;37:84-6.
95. Anomalous origin of the left coronary artery leading to myocardial infarction in a 14-year-old boy. Han JK, Kim MS, Kim SY, Lee SE, Kim HK, **Lee HY**. *Korean Circ J*. 2007;37:39-42
96. Chang SA, Kim HK, **Lee HY**, Choi SY, Koo BK, Kim YJ, Sohn DW, Oh BH, Park YB, Choi YS, Kang HJ, Kim HS. Restoration of the left ventricular synchronous contraction after acute myocardial infarction by stem cell therapy: new insights into the therapeutic implication of stem cell therapy for acute myocardial infarction. *Heart*. 2008;94:995-1001.
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