

[Curriculum Vitae of Joo Myung Lee]

1. PERSONAL IDENTIFICATION

Name : Joo Myung Lee, MD, MPH, PhD

Date of birth : October 1th, 1980

Place of birth : Seoul, Korea

Citizenship : Korea (Republic of Korea)

Languages : Korean, English

2. PRESENT POSITION

- ① Assistant Professor, Division of Cardiology, Department of Internal Medicine,
Heart Vascular Stroke Institute, Samsung Medical Center, Sungkyunkwan University School of
Medicine, Seoul, Korea

3. PRESENT ADDRESS

Division of Cardiology, Department of Internal Medicine,
Heart Vascular Stroke Institute, Samsung Medical Center,
Sungkyunkwan University School of Medicine, Seoul, Republic of Korea
50, Irwon-dong, Gangnam-gu, Seoul 135-710
Republic of Korea
C.P; 82-10-8884-8439, 02-3410-3391
E-mail; drone80@hanmail.net, drone23564@gmail.com, joomyung.lee@samsung.com

4. EDUCATION

Mar. 1999 - Feb. 2000 Premedical Course, College of Liberal Arts & Science,
Korea University

Mar. 2000 - Feb. 2005	Korea University College of Medicine (M.D.)
Mar. 2011 - Aug. 2013	Postgraduate School, Seoul National University, College of Public Health (Master of Public Health, MPH)
Mar. 2014 – Aug. 2016	Postgraduate School, Seoul National University, College of Medicine (Ph.D. in Medical Science)

5. BOARD CERTIFICATION

- [1] Korean Board of Medical Doctor (February 21, 2005)
- [2] Korean Board of Internal Medicine (March 4, 2013)
- [3] Korean Board of Cardiology and Interventional Cardiology (October, 2015)
- [4] Korean Society of Interventional Cardiology Certification (July, 2016)
- [4] ECFMG Certificate (August 22, 2008)

USMLE score Step 1: 263, Step 2CK: 240, Step 2CS: Pass, Step 3: 243

6. EMPLOYMENT

Mar. 2005 - Feb. 2006	Internship, Seoul National University Hospital, Seoul, Korea
Mar. 2007 - Nov. 2008	Military Medical Officer, First Lieutenant, 1st Artillery Brigade, Korean Army, Seoul, Korea
Mar. 2009 – Feb. 2013	Residency in Internal Medicine, Seoul National University Hospital, Seoul, Korea
Mar. 2013 – Feb. 2016	Clinical Fellowship and Interventional Cardiology Fellowship, Division of Cardiology, Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea
Aug. 2019 – Jul. 2020	Research Scholar, Emory University Hospital, Emory School of Medicine Atlanta, Georgia, USA
Mar. 2016 – Feb. 2023	Assistant Professor,

Division of Cardiology, Department of Internal Medicine,
Heart Vascular Stroke Institute, Samsung Medical Center,
Sungkyunkwan University School of Medicine, Seoul, Korea

Mar. 2023 – Present Associate Professor,
Division of Cardiology, Department of Internal Medicine,
Heart Vascular Stroke Institute, Samsung Medical Center,
Sungkyunkwan University School of Medicine, Seoul, Korea

7. RESEARCH INTERESTS

- [1] Coronary Physiology and Microcirculation
- [2] Computational Fluid Dynamics Model
- [3] Non-invasive Computation of Physiologic Indices including Quantitative Flow Ratio
- [4] Intracoronary Imaging and Non-invasive Functional Test
- [5] Clinical Trial Design
- [6] Meta-analysis, Network Meta-analysis
- [7] Pathogenesis of ischemic heart disease, atherosclerosis and acute coronary syndrome
- [8] Endovascular Intervention (TAVI, EVAR, PTA) and peripheral vascular physiology
- [9] Invasive Hemodynamic Support Device and Cardiology Critical Care

8. HONORS and AWARDS

- [1] 2011. 11. Award for Excellence in Internal Medicine, Seoul National University hospital
- [2] 2011. 11. Award for Excellent Scientist, Seoul National University Hospital
- [3] 2012. 09. Best Abstract Award. Korean Society of Lipidology and Atherosclerosis
- [4] 2014. 09. Best Abstract Award, Korean Society of Interventional Cardiology
- [5] **2014. 11. Young Investigator Award, Korean Society of Cardiology**
- [6] 2015. 01. Best Abstract Award, Korean Society of Interventional Cardiology
- [7] 2015. 04. Best Abstract Award, TCTAP 2015
- [8] 2015. 07. Best Abstract Award, Korean Society of Interventional Cardiology
- [9] 2015. 12. Best Case Competition Award, Imaging and Physiology Summit 2015

[10] 2015.12. **Journal of the American College of Cardiology Cardiovascular Imaging, Best Scientific Article Award, Winner**

[11] 2016.08. **LG Life Science, Young Medical Scientist Prize, Winner**

[12] 2016.10 **Wunch Medical Award, Young Medical Scientist Prize Winner**

[13] 2018.08 **Dusan YONKANG Academic Award Prize Winner**

[14] 2022.12 **Health and Medical Technology Promotion Government Award, Minister's Commendation**

9. PUBLICATIONS' LISTS (Textbook)

- [1] Coronary Stenosis, Imaging, Structure, and Physiology, 2nd Edition (EuroPCR)
- [2] Coronary Imaging and Physiology (Imaging and Physiology on Patients with Cardiovascular Disease), 2017, Springer
- [3] Physiology and Imaging in Coronary Intervention, In Press
- [4] Complex Coronary Intervention (3rd edition), 2022, Springer
- [5] Coronary Physiology In Contemporary Clinical Practice, 2023, Elsevier

10. PUBLICATIONS' LISTS (SCI/SCIE Journals)

* **Google Scholar (Jan-29-2023): Total citation 5,425; h-index 39; i10-index 108**

* **Full Bibliography is available at**

<https://www.ncbi.nlm.nih.gov/myncbi/1-iwzxxXlxjAZ/bibliography/public/>

<1> **Publications by Joo Myung Lee as "First author or Corresponding author"**

- [1] **Joo Myung Lee (first author)**, Choi KH, Song YB, Lee JY, Lee SJ, Lee SY, Kim SM, Yun KH, Cho JY, Kim CJ, Ahn HS, Nam CW, Yoon HJ, Park YH, Lee WS, Jeong JO, Song PS, Doh JH, Jo SH, Yoon CH, Kang MG, Koh JS, Lee KY, Lim YH, Cho YH, Cho JM, Jang WJ, Chun KJ, Hong D, Park TK, Yang JH, Choi SH, Gwon HC, Hahn JY; RENOVATE-COMPLEX-PCI Investigators. **Intravascular Imaging-Guided or Angiography-Guided Complex PCI**. N Engl J Med. 2023 Mar 5. doi: 10.1056/NEJMoa2216607.
- [2] **Joo Myung Lee (first author)**, Kim HK, Park KH, Choo EH, Kim CJ, Lee SH, Kim MC, Hong YJ, Ahn SG, Doh JH, Lee SY, Park SD, Lee HJ, Kang MG, Koh JS, Cho YK, Nam CW, Koo BK, Lee BK, Yun KH, Hong D, Joh HS, Choi KH, Park TK, Yang JH, Song YB, Choi SH, Gwon HC, Hahn JY;

- FRAME-AMI Investigators. **Fractional flow reserve versus angiography-guided strategy in acute myocardial infarction with multivessel disease: a randomized trial.** *Eur Heart J.* 2022 Dec 20;ehac763.
- [3] Lee SH, Rhee TM, Shin D, Hong D, Choi KH, Kim HK, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Chae SC, Cho MC, Kim CJ, Kim JH, Kim HS, Gwon HC, Jeong MH, **Joo Myung Lee (corresponding author)**; KAMIR-NIH Investigators. **Prognosis after discontinuing renin angiotensin aldosterone system inhibitor for heart failure with restored ejection fraction after acute myocardial infarction.** *Sci Rep.* 2023 Mar 2;13(1):3539
- [4] Hong D, Lee SH, Shin D, Choi KH, Kim HK, Ha SJ, Joh HS, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Gwon HC, **Joo Myung Lee (corresponding author)**. **Prognostic Impact of Cardiac Diastolic Function and Coronary Microvascular Function on Cardiovascular Death.** *J Am Heart Assoc.* 2023 Jan 25:e027690.
- [5] **Joo Myung Lee (first author)**., Joh HS, Choi KH, Hong D, Park TK, Yang JH, Song YB, Choi JH, Choi SH, Jeong JO, Lee JY, Choi YJ, Chae JK, Hur SH, Bae JW, Oh JH, Chun KJ, Kim HJ, Cho BR, Shin D, Lee SH, Hwang D, Lee HJ, Jang HJ, Kim HK, Ha SJ, Shin ES, Doh JH, Hahn JY, Gwon HC; SMART-REWARD Investigators. **Safety and Efficacy of Everolimus-Eluting Bioresorbable Vascular Scaffold Versus Second-Generation Drug-Eluting Stents in Real-World Practice.** *J Korean Med Sci.* 2023 Feb 6;38(5):e34.
- [6] Park S, Lee SH, Shin D, Hong D, Joh HS, Choi KH, Kim HK, Ha SJ, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Gwon HC, **Joo Myung Lee (corresponding author)**. **Prognostic Impact of Coronary Flow Reserve in Patients With CKD.** *Kidney Int Rep.* 2022 Oct 8;8(1):64-74.
- [7] Hong D, Lee SH, Shin D, Choi KH, Kim HK, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Gwon HC, **Joo Myung Lee (corresponding author)**. **Prognosis and Medical Cost of Measuring Fractional Flow Reserve in Percutaneous Coronary Intervention.** *JACC Asia.* 2022 Jul 19;2(5):590-603.
- [8] Chung YJ, Choi KH, Lee SH, Shin D, Hong D, Park S, Joh HS, Kim HK, Ha SJ, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Gwon HC, **Joo Myung Lee (corresponding author)**. **Prognostic Impact of Indeterminate Diastolic Function in Patients With Functionally Insignificant Coronary Stenosis.** *J Am Soc Echocardiogr.* 2022 Dec 5;S0894-7317(22)00637-X.
- [9] Shin D, Lee SH, Hong D, Choi KH, **Joo Myung Lee (corresponding author)**. **Physiologic Assessment After Percutaneous Coronary Interventions and Functionally Optimized Revascularization.** *Interv Cardiol Clin.* 2023 Jan;12(1):55-69.

- [10] **Joo Myung Lee (corresponding author)**, Lee SH. **Physiologic Distribution and Local Severity of CAD: Evolution of Perspective From Stenosis to Disease.** *JACC Cardiovasc Interv.* 2022 Aug 22;15(16):1635-1638.
- [11] Kim J, Shin D, **Joo Myung Lee (corresponding author)**, Lee SH, Hong D, Choi KH, Hwang D, Boerhout CKM, de Waard GA, Jung JH, Mejia-Renteria H, Hoshino M, Echavarría-Pinto M, Meuwissen M, Matsuo H, Madera-Cambero M, Eftekhari A, Effat MA, Murai T, Marques K, Doh JH, Christiansen EH, Banerjee R, Kim HK, Nam CW, Niccoli G, Nakayama M, Tanaka N, Shin ES, Chamuleau SAJ, van Royen N, Knaapen P, Koo BK, Kakuta T, Escaned J, Piek JJ, van de Hoef TP; ILIAS Registry Investigators. **Differential Prognostic Value of Revascularization for Coronary Stenosis With Intermediate FFR by Coronary Flow Reserve.** *JACC Cardiovasc Interv.* 2022 May 23;15(10):1033-1043. [IF=11.195]
- [12] Joh HS, Shin D, **Joo Myung Lee (corresponding author)**, Lee SH, Hong D, Choi KH, Hwang D, Boerhout CKM, de Waard GA, Jung JH, Mejia-Renteria H, Hoshino M, Echavarría-Pinto M, Meuwissen M, Matsuo H, Madera-Cambero M, Eftekhari A, Effat MA, Murai T, Marques K, Doh JH, Christiansen EH, Banerjee R, Kim HK, Nam CW, Niccoli G, Nakayama M, Tanaka N, Shin ES, Chamuleau SAJ, van Royen N, Knaapen P, Koo BK, Kakuta T, Escaned J, Piek JJ, van de Hoef TP; ILIAS Registry Investigators. **Prognostic Impact of Coronary Flow Reserve in Patients With Reduced Left Ventricular Ejection Fraction.** *J Am Heart Assoc.* 2022 Aug 2;11(15):e025841.
- [13] **Joo Myung Lee (corresponding author)**, Choi KH, Choi JO, Shin D, Park Y, Kim J, Lee SH, Kim D, Yang JH, Cho YH, Sung K, Choi JY, Park M, Kim JS, Park TK, Song YB, Hahn JY, Choi SH, Gwon HC, Oh JK, Jeon ES. **Coronary Microcirculatory Dysfunction and Acute Cellular Rejection After Heart Transplantation.** *Circulation.* 2021 Sep 3. doi: 10.1161/CIRCULATIONAHA.121.056158. Online ahead of print. [IF=29.69]
- [14] Choi KH, **Joo Myung Lee (corresponding author)**, Kim SR, Kim D, Choi JO, Kim SJ, Kim K, Kim JS, Koo BK, Jeon ES, **Prognostic Value of the Index of Microcirculatory Resistance Over Serum Biomarkers in Cardiac Amyloidosis.** *J Am Coll Cardiol.* 2020 Feb 11;75(5):560-561. [IF=24.09]
- [15] van de Hoef TP, **Joo Myung Lee (co-first author)**, Boerhout CKM, de Waard GA, Jung JH, Lee SH, Mejía-Rentería H, Hoshino M, Echavarría-Pinto M, Meuwissen M, Matsuo H, Madera-Cambero M, Eftekhari A, Effat MA, Murai T, Marques K, Doh JH, Christiansen EH, Banerjee R, Nam CW, Niccoli G, Nakayama M, Tanaka N, Shin ES, van Royen N, Chamuleau SAJ, Knaapen P, Escaned J, Kakuta T, Koo BK, Piek JJ. **Combined Assessment of FFR and CFR for Decision Making in Coronary Revascularization: From the Multicenter International ILIAS Registry.** *JACC Cardiovasc Interv.* 2022 May 23;15(10):1047-1056. [IF=11.195]

- [16] Lee SH, Hong D, Dai N, Shin D, Choi KH, Kim SM, Kim HK, Jeon KH, Ha SJ, Lee KY, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Choe YH, Gwon HC, Ge J, **Joo Myung Lee (corresponding author). Anatomic and Hemodynamic Plaque Characteristics for Subsequent Coronary Events.** *Front Cardiovasc Med.* 2022 May 23;9:871450.
- [17] Lee SH, Shin D, **Joo Myung Lee (corresponding author)**, van de Hoef TP, Hong D, Choi KH, Hwang D, Boerhout CKM, de Waard GA, Jung JH, Mejia-Renteria H, Hoshino M, Echavarría-Pinto M, Meuwissen M, Matsuo H, Madera-Cambero M, Eftekhari A, Effat MA, Murai T, Marques K, Doh JH, Christiansen EH, Banerjee R, Kim HK, Nam CW, Niccoli G, Nakayama M, Tanaka N, Shin ES, Chamuleau SAJ, van Royen N, Knaapen P, Koo BK, Kakuta T, Escaned J, Piek JJ; ILIAS Registry Investigators. **Clinical Relevance of Ischemia with Nonobstructive Coronary Arteries According to Coronary Microvascular Dysfunction.** *J Am Heart Assoc.* 2022 May 3;11(9):e025171. [IF=5.501]
- [18] Shin D, Rhee TM, Lee SH, **Joo Myung Lee (corresponding author). Revascularization Strategies in Patients With ST-Segment Elevation Myocardial Infarction and Multivessel Disease: Is FFR-Guided Strategy Still Valuable?** *Korean Circ J.* 2022 Apr;52(4):280-287. [IF=3.243]
- [19] Shin D, Lee SH, Hong D, Choi KH, **Joo Myung Lee (corresponding author). Physiologic Assessment After Percutaneous Coronary Interventions and Functionally Optimized Revascularization.** *Interv Cardiol Clin.* 2023 Jan;12(1):55-69.
- [20] Shin D, Kim J, Choi KH, Dai N, Li Y, Lee SH, Joh HS, Kim HK, Kim SM, Ha SJ, Jang MJ, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Choe YH, Gwon HC, **Joo Myung Lee (corresponding author). Functional angiography-derived index of microcirculatory resistance validated with microvascular obstruction in cardiac magnetic resonance after STEMI.** *Rev Esp Cardiol (Engl Ed).* 2022 Mar 3:S1885-5857(22)00014-7. [IF=4.642]
- [21] Lee SH, Hong D, Dai N, Shin D, Choi KH, Kim SM, Kim HK, Jeon KH, Ha SJ, Lee KY, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Choe YH, Gwon HC, Ge J, **Joo Myung Lee (corresponding author). Anatomic and Hemodynamic Plaque Characteristics for Subsequent Coronary Events.** *Front Cardiovasc Med.* 2022 May 23;9:871450. [IF=6.05]
- [22] Hamaya R, van de Hoef TP, **Joo Myung Lee (co-first author)**, Hoshino M, Kanaji Y, Murai T, Boerhout CKM, de Waard GA, Jung JH, Lee SH, Mejia Renteria H, Echavarría-Pinto M, Meuwissen M, Matsuo H, Madera-Cambero M, Eftekhari A, Effat MA, Marques K, Doh JH, Christiansen EH, Banerjee R, Nam CW, Niccoli G, Nakayama M, Tanaka N, Shin ES, Sasano T, Chamuleau SAJ, Knaapen P, Escaned J, Koo BK, Piek JJ, Kakuta T. **Differential Impact of Coronary Revascularization on Long-Term Clinical Outcome According to Coronary Flow Characteristics: Analysis of the International ILIAS Registry.** *Circ Cardiovasc Interv.* 2022 Jun;15(6):e011948. [IF=6.546]

- [23] Shin D, Dai N, Lee SH, Choi KH, Lefieux A, Molony D, Hwang D, Kim HK, Jeon KH, Lee HJ, Jang HJ, Ha SJ, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Doh JH, Shin ES, Nam CW, Koo BK, Gwon HC, Ge J, **Joo Myung Lee (corresponding author)**. **Physiological Distribution and Local Severity of Coronary Artery Disease and Outcomes After Percutaneous Coronary Intervention**. *JACC Cardiovasc Interv*. 2021 Aug 23;14(16):1771-1785. [IF=11.195]
- [24] Lee SH, Kim J, Lefieux A, Molony D, Shin D, Hwang D, Choi KH, Chang HS, Jeon KH, Lee HJ, Jang HJ, Kim HK, Ha SJ, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Doh JH, Shin ES, Nam CW, Koo BK, Gwon HC, **Joo Myung Lee (corresponding author)**. **Clinical and Prognostic Impact From Objective Analysis of Post-Angioplasty Fractional Flow Reserve Pullback**. *JACC Cardiovasc Interv*. 2021 Sep 13;14(17):1888-1900. doi: 10.1016/j.jcin.2021.07.014. [IF=11.195]
- [25] Choi KH, Dai N, Li Y, **Joo Myung Lee (corresponding author)**. **Functional Coronary Angiography-Derived Index of Microcirculatory Resistance in Patients With ST-Segment Elevation Myocardial Infarction**. *JACC Cardiovasc Interv* 2021;14:1670-84. [IF=11.195]
- [26] **Joo Myung Lee (first author)**, Lee SH, Kim J, Choi KH, Park TK, Yang JH, Song YB, Hahn JY, Choi JH, Choi SH, Kim HS, Chun WJ, Nam CW, Hur SH, Han SH, Rha SW, Chae IH, Jeong JO, Heo JH, Yoon J, Lim DS, Park JS, Hong MK, Doh JH, Cha KS, Kim DI, Lee SY, Chang K, Hwang BH, Choi SY, Jeong MH, Hong SJ, Koo BK, Gwon HC. **Ten-Year Trends in Coronary Bifurcation Percutaneous Coronary Intervention: Prognostic Effects of Patient and Lesion Characteristics, Devices, and Techniques**. *J Am Heart Assoc*. 2021 Sep 21;10(18):e021632. doi: 10.1161/JAHA.121.021632. [IF=5.501]
- [27] Lee SH, Shin D, **Joo Myung Lee (corresponding author)**, Lefieux A, Molony D, Choi KH, Hwang D, Lee HJ, Jang HJ, Kim HK, Ha SJ, Kwak JJ, Park TK, Yang JH, Song YB, Hahn JY, Doh JH, Shin ES, Nam CW, Koo BK, Choi SH, Gwon HC. **Automated Algorithm Using Pre-Intervention Fractional Flow Reserve Pullback Curve to Predict Post-Intervention Physiological Results**. *JACC Cardiovasc Interv*. 2020 Nov 23;13(22):2670-2684. doi: 10.1016/j.jcin.2020.06.062. Epub 2020 Oct 14. [IF=9.881]
- [28] Shin D, Lee SH, **Joo Myung Lee (corresponding author)**, Choi KH, Hwang D, Lee HJ, Jang HJ, Kim HK, Kwak JJ, Ha SJ, Song YB, Shin ES, Doh JH. **Prognostic Implications of Post-Intervention Resting Pd/Pa and Fractional Flow Reserve in Patients With Stent Implantation**. *JACC Cardiovasc Interv*. 2020 Aug 24;13(16):1920-1933. doi: 10.1016/j.jcin.2020.05.042. [IF=9.881]
- [29] **Joo Myung Lee (first author)**, Koo BK. **Clinical Implications of Physiologic Assessment After Stenting: Practical Tool Beyond Simple Digits**. *Circ Cardiovasc Interv*. 2021 Mar;14(3):e010592. doi: 10.1161/CIRCINTERVENTIONS.121.010592. Epub 2021 Mar 9. [IF=5.493]

- [30] **Joo Myung Lee (first author)**, Lee SH, Hwang D, Rhee TM, Choi KH, Kim J, Park J, Kim HY, Jung HW, Cho YK, Yoon HJ, Song YB, Hahn JY, Nam CW, Shin ES, Doh JH, Hur SH, Koo BK. **Long-Term Clinical Outcomes of Nonhyperemic Pressure Ratios: Resting Full-Cycle Ratio, Diastolic Pressure Ratio, and Instantaneous Wave-Free Ratio.** *J Am Heart Assoc.* 2020 Sep 15;9(18):e016818. doi: 10.1161/JAHA.120.016818. [IF=5.117]
- [31] Choi KH, Lee SH, **Joo Myung Lee (corresponding author)**, Hwang D, Zhang J, Kim J, Im SY, Kim HK, Nam CW, Doh JH, Shin ES, Mejía-Rentería H, Park TK, Yang JH, Song YB, Hahn JY, Choi SH, Gwon HC, Escaned J, Koo BK. **Clinical relevance and prognostic implications of contrast quantitative flow ratio in patients with coronary artery disease.** *Int J Cardiol.* 2020 Sep 8:S0167-5273(20)33736-0. doi: 10.1016/j.ijcard.2020.09.002. [IF=6.189]
- [32] **Joo Myung Lee (first author)**, Hwang D, Choi KH, Lee HJ, Song YB, Cho YK, Nam CW, Hahn JY, Shin ES, Doh JH, Hoshino M, Hamaya R, Kanaji Y, Murai T, Zhang JJ, Ye F, Li X, Ge Z, Chen SL, Kakuta T, Koo BK. **Prognostic Impact of Residual Anatomic Disease Burden After Functionally Complete Revascularization.** *Circ Cardiovasc Interv.* 2020 Sep;13(9):e009232. doi: 10.1161/CIRCINTERVENTIONS.120.009232. Epub 2020 Sep 8. [IF=6.982]
- [33] **Joo Myung Lee (first author)**, Choi KH, Park J, Hwang D, Rhee TM, Kim J, Park J, Kim HY, Jung HW, Cho YK, Yoon HJ, Song YB, Hahn JY, Nam CW, Shin ES, Doh JH, Hur SH, Koo BK. **Physiological and Clinical Assessment of Resting Physiological Indexes.** *Circulation.* 2019 Feb 12;139(7):889-900. doi: 10.1161/CIRCULATIONAHA.118.037021. [IF=18.880]
- [34] **Joo Myung Lee (first author)**, Choi G, Koo BK, Hwang D, Park J, Zhang J, Kim KJ, Tong Y, Kim HJ, Grady L, Doh JH, Nam CW, Shin ES, Cho YS, Choi SY, Chun EJ, Choi JH, Nørgaard BL, Christiansen EH, Niemen K, Otake H, Penicka M, de Bruyne B, Kubo T, Akasaka T, Narula J, Douglas PS, Taylor CA, Kim HS. **Identification of High-Risk Plaques Destined to Cause Acute Coronary Syndrome Using Coronary Computed Tomographic Angiography and Computational Fluid Dynamics.** *JACC Cardiovasc Imaging.* 2019 Jun;12(6):1032-1043. [IF=10.247]
- [35] **Joo Myung Lee (first author)**, Choi KH, Koo BK, Dehbi HM, Doh JH, Nam CW, Shin ES, Cook CM, Al-Lamee R, Petraco R, Sen S, Malik IS, Nijjer SS, Mejía-Rentería H, Alegria-Barrero E, Alghamdi A, Altman J, Baptista SB, Bhindi R, Bojara W, Brugaletta S, Silva PC, Di Mario C, Erglis A, Gerber RT, Going O, Härle T, Hellig F, Indolfi C, Janssens L, Jeremias A, Kharbanda RK, Khashaba A, Kikuta Y, Krackhardt F, Laine M, Lehman SJ, Matsuo H, Meuwissen M, Niccoli G, Piek JJ, Ribichini F, Samady H, Sapontis J, Seto AH, Sezer M, Sharp ASP, Singh J, Takashima H, Talwar S, Tanaka N, Tang K, Van Belle E, van Royen N, Vinhas H, Vrints CJ, Walters D, Yokoi H, Samuels B, Buller C, Patel MR, Serruys P, Escaned J, Davies JE. **Comparison of Major Adverse Cardiac Events Between**

- Instantaneous Wave-Free Ratio and Fractional Flow Reserve-Guided Strategy in Patients With or Without Type 2 Diabetes: A Secondary Analysis of a Randomized Clinical Trial. JAMA Cardiol.** 2019 Jul 17. doi: 10.1001/jamacardio.2019.2298. [IF=11.866]
- [36] **Joo Myung Lee (first author)**, Koo BK, Shin ES, Nam CW, Doh JH, Hu X, Ye F, Chen S, Yang J, Chen J, Tanaka N, Yokoi H, Matsuo H, Takashima H, Siono Y, Hwang D, Park J, Kim KJ, Akasaka T, Wang J. **Clinical Implications of 3-Vessel Fractional Flow Reserve Measurement in Patients with Coronary Artery Disease. Eur Heart J.** 2018 Mar 14;39(11):945-951. [IF=23.425]
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- [38] **Joo Myung Lee (first author)**, Choi KH, Koo BK, Park J, Kim J, Hwang D, Rhee TM, Kim HY, Jung HW, Kim KJ, Yoshiaki K, Shin ES, Doh JH, Chang HJ, Cho YK, Yoon HJ, Nam CW, Hur SH, Wang J, Chen S, Kuramitsu S, Tanaka N, Matsuo H, Akasaka T. **Prognostic Implications of Plaque Characteristics and Stenosis Severity in Patients With Coronary Artery Disease. J Am Coll Cardiol.** 2019 May 21;73(19):2413-2424. [IF=19.896]
- [39] **Joo Myung Lee (first author)**, Jonghanne Park, Doyeon Hwang, Chee Hae Kim, Ki Hong Choi, Tae-Min Rhee, Yaliang Tong, Jin Joo Park, Eun-Seok Shin, Chang-Wook Nam, Joon-Hyung Doh, Bon-Kwon Koo, **Similarity and Difference of Resting Distal to Aortic Coronary Pressure and Instantaneous Wave-Free Ratio. J Am Coll Cardiol.** 2017;70:2114–23. [IF=19.896]
- [40] **Joo Myung Lee (first author)**, Hwang D, Park J, Zhang J, Tong Y, Kim CH, Bang JI, Suh M, Paeng JC, Cheon GJ, Koo BK. **Exploring Coronary Circulatory Response to Stenosis and Its Association with Invasive Physiologic Indices Using Absolute Myocardial Blood Flow and Coronary Pressure. Circulation.** 2017 Nov 7;136(19):1798-1808. [IF=19.309]
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