

## Curriculum Vitae

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Sex Male  
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### Working and Academic Appointments:

2017-present Director of Cardiovascular Center, Iwate Medical University  
2017-present Vice President, Iwate Medical University Hospital  
2015 President's assistant, Iwate Medical University Hospital  
2011-present Professor, Division of Cardiology, Iwate Medical University  
2010-2011 Associate Professor, Tokai University School of Medicine  
2005-2010 Assistant Professor, Tokai University School of Medicine  
2003- Director, Tokyo Core Analysis Laboratory  
2002-2005 Staff physician, Division of Cardiology, Itabashi-chuo Medical Center  
1995-1999 Post-doctoral Fellow, Cardiovascular Medicine, Stanford University  
1995-2000 Staff physician, Division of Cardiology, Mitsui Memorial Hospital  
1993-1995 Residency, Internal Medicine, Mitsui Memorial Hospital

### Educations:

1987-1993 Gifu University School of Medicine  
1983-1986 Nirayama High School, Shizuoka

### Committee service etc.:

Vice president, Japanese Association of Cardiovascular Intervention and Therapeutics (CVIT)

### Qualifications:

2018 Fellow of Japanese Circulation Society (FJCS)  
2017 Fellow of European Society of Cardiology (FESC)  
2011 Fellow of the Japanese College of Cardiology (FJCC)  
2011 Fellow of the American College of Cardiology (FACC)  
1998 Fellow of the Japanese Society of Internal Medicine (FJSIM)

## Representative Publications in recent 5 years

1. Yamamoto K, Watanabe H, Morimoto T, Obayashi Y, Natsuaki M, Domei T, Yamaji K, Suwa S, Isawa T, Watanabe H, Yoshida R, Sakamoto H, Akao M, Hata Y, Morishima I, Tokuyama H, Yagi M, Suzuki H, Wakabayashi K, Suematsu N, Inada T, Tamura T, Okayama H, Abe M, Kawai K, Nakao K, Ando K, Tanabe K, Ikari Y, Morino, Y, Kadota K, Furukawa Y, Nakagawa Y, Kimura T, Stopdapt and Investigators S-A. Clopidogrel Monotherapy After 1-Month DAPT in Patients With High Bleeding Risk or Complex PCI. *JACC Asia*. 2023;3:31-46.
2. Sato S, Ninomiya R, Tosaka K, Koeda Y, Fusazaki T, Kin H and Morino, Y. Risk of Coronary Occlusion Due to Sinus Sequestration by Redo Transcatheter Aortic Valve Implantation in Japanese Patients With SAPIEN 3. *Circ Rep*. 2023;5:217-224.
3. Otake H, Ishida M, Nakano S, Higuchi Y, Hibi K, Kuriyama N, Iwasaki M, Kataoka T, Kubo T, Tsujita K, Ashikaga T, Shinke T, Itoh T, Kimura T, Morino, Y and Investigators\* M-AR. Comparison of MECHANISM of early and late vascular responses following treatment of ST-elevation acute myocardial infarction with two different everolimus-eluting stents: a randomized controlled trial of biodegradable versus durable polymer stents. *Cardiovasc Interv Ther*. 2023;38:75-85.
4. Nakatani S, Sotomi Y, Suzuki S, Kobayashi T, Hamanaka Y, Omatsu T, Ishida M, Kakizaki S, Otake H, Morino, Y, Higuchi Y and Investigators M-AR. Angioscopic Comparison of Early- and Mid-Term Vascular Responses Following Treatment of ST-Elevation Acute Myocardial Infarction With Biodegradable vs. Durable Polymer Everolimus-Eluting Stents - A Prespecified Subanalysis of the MECHANISM AMI RCT. *Circ J*. 2023;87:619-628.
5. Nakatani S, Sotomi Y, Otake H, Morino, Y and Higuchi Y. Tissue Characteristics of Stent Coverage Validated by Comparison Between Coronary Angioscopy and Optical Coherence Tomography in Serial Assessment. *Circ J*. 2023;87:669.
6. Nakajima Y, Ninomiya R, Kumagai A, Goto I, Yoshizawa M and Morino, Y. Transcatheter mitral valve edge-to-edge repair in a patient with complete situs inversus. *Cardiovasc Interv Ther*. 2023.
7. Muramatsu T, Masuda S, Kotoku N, Kozuma K, Kawashima H, Ishibashi Y, Nakazawa G, Takahashi K, Okamura T, Miyazaki Y, Tateishi H, Nakamura M, Kogame N, Asano T, Nakatani S, Morino, Y, Katagiri Y, Ninomiya K, Kageyama S, Takahashi H, Garg S, Tu S, Tanabe K, Ozaki Y, Serruys PW and Onuma Y. Prasugrel Monotherapy After Percutaneous Coronary Intervention With Biodegradable-Polymer Platinum-Chromium Everolimus Eluting Stent for Japanese Patients With Chronic Coronary Syndrome (ASET-JAPAN). *Circ J*. 2023;87:857-865.
8. Muramatsu T, Kozuma K, Tanabe K, Morino, Y, Ako J, Nakamura S, Yamaji K, Kohsaka S, Amano T, Kobayashi Y, Ikari Y, Kadota K, Nakamura M and Task Force of the Japanese Association of Cardiovascular Intervention T. Clinical expert consensus document on drug-coated balloon for coronary artery disease from the Japanese Association of Cardiovascular Intervention and Therapeutics. *Cardiovasc Interv Ther*. 2023;38:166-176.
9. Masuda S, Muramatsu T, Ishibashi Y, Kozuma K, Tanabe K, Nakatani S, Kogame N, Nakamura M, Asano T, Okamura T, Miyazaki Y, Tateishi H, Ozaki Y, Nakazawa G, Morino, Y, Katagiri Y, Garg S, Hara H, Ono M, Kawashima H, Lemos PA, Serruys PW and Onuma Y. Reduced-dose prasugrel monotherapy without aspirin after PCI with the SYNERGY stent in East Asian patients presenting with chronic coronary syndromes or non-ST-elevation acute coronary syndromes: rationale and design of the ASET Japan pilot study. *AsiaIntervention*. 2023;9:39-48.
10. Koeda Y, Sasaki T, Numahata W, Ishida M and Morino, Y. A case of robotic-assisted percutaneous coronary intervention using a coronary intravascular lithotripsy catheter. *Cardiovasc Interv Ther*. 2023.
11. Tsuji K, Ishida M, Itoh T, Kimura T, Kikuchi T, Okubo M, Hayashi T, Otake H, Shinke T and Morino, Y. Incidence

and natural history of coronary evagination after implanted biodegradable polymer sirolimus-eluting stent. *Eur Heart J Open.* 2022;2:oeac005.

12. Taguchi Y, Itoh T, Sasaki W, Oda H, Uchimura Y, Kaneko K, Sakamoto T, Goto I, Sakuma M, Ishida M, Terashita D, Otake H, Morino, Y and Shinke T. Predictors of Irregular Protrusion After Everolimus-Eluting Stent Implantation in Patients with Stable Coronary Artery Disease. *Int Heart J.* 2022;63:210-216.

13. Taguchi S, Nasu T, Satoh M, Kotozaki Y, Tanno K, Tanaka F, Asahi K, Ohmomo H, Kikuchi H, Kobayashi T, Morino, Y, Shimizu A, Sobue K and Sasaki M. Association between Plasma Xanthine Oxidoreductase Activity and the Renal Function in a General Japanese Population: The Tohoku Medical Megabank Community-Based Cohort Study. *Kidney Blood Press Res.* 2022;47:722-728.

14. Ozaki Y, Hara H, Onuma Y, Katagiri Y, Amano T, Kobayashi Y, Muramatsu T, Ishii H, Kozuma K, Tanaka N, Matsuo H, Uemura S, Kadota K, Hikichi Y, Tsujita K, Ako J, Nakagawa Y, Morino, Y, Hamanaka I, Shiode N, Shite J, Honye J, Matsubara T, Kawai K, Igarashi Y, Okamura A, Ogawa T, Shibata Y, Tsuji T, Yajima J, Iwabuchi K, Komatsu N, Sugano T, Yamaki M, Yamada S, Hirase H, Miyashita Y, Yoshimachi F, Kobayashi M, Aoki J, Oda H, Katahira Y, Ueda K, Nishino M, Nakao K, Michishita I, Ueno T, Inohara T, Kohsaka S, Ismail TF, Serruys PW, Nakamura M, Yokoi H, Ikari Y and Task Force on Primary Percutaneous Coronary Intervention of the Japanese Cardiovascular Interventional T. CVIT expert consensus document on primary percutaneous coronary intervention (PCI) for acute myocardial infarction (AMI) update 2022. *Cardiovasc Interv Ther.* 2022;37:1-34.

15. Obayashi Y, Watanabe H, Morimoto T, Yamamoto K, Natsuaki M, Domei T, Yamaji K, Suwa S, Isawa T, Watanabe H, Yoshida R, Sakamoto H, Akao M, Hata Y, Morishima I, Tokuyama H, Yagi M, Suzuki H, Wakabayashi K, Suematsu N, Inada T, Tamura T, Okayama H, Abe M, Kawai K, Nakao K, Ando K, Tanabe K, Ikari Y, Morino, Y, Kadota K, Furukawa Y, Nakagawa Y, Kimura T, Stopdapt and Investigators S-A. Clopidogrel Monotherapy After 1-Month Dual Antiplatelet Therapy in Percutaneous Coronary Intervention: From the STOPDAPT-2 Total Cohort. *Circ Cardiovasc Interv.* 2022;15:e012004.

16. Ninomiya R, Yoshizawa M, Koeda Y, Ishikawa Y, Kumagai A, Ishida M, Takahashi F, Fusazaki T, Tashiro A, Kin H and Morino, Y. Safety and feasibility of retrograde INOUE-BALLOON for balloon aortic valvuloplasty without rapid ventricular pacing during transcatheter aortic valve replacement. *Cardiovasc Interv Ther.* 2022;37:372-380.

17. Ninomiya R and Morino, Y. Implantation of SAPIEN 3 from the right subclavian artery in patient with short stature. *Cardiovasc Interv Ther.* 2022;37:591-592.

18. Nakajima Y, Ueda H, Kumagai A and Morino, Y. Percutaneous repair of systemic atrioventricular valve regurgitation with the MitraClip-NT system in congenitally corrected transposition of great arteries. *J Cardiol Cases.* 2022;26:325-328.

19. Matsumoto Y, Torii S and Morino, Y. Pathography of Superficial Femoral Artery Treated With ELUVIA(TM) Paclitaxel Eluting Stent. *Circ J.* 2022;86:1021.

20. Itoh T, Kobayashi T, Oshikiri Y, Arakawa Y, Satoh M and Morino, Y. Clinical and electrocardiographic characteristics in patients with fulminant myocarditis. *J Arrhythm.* 2022;38:763-771.

21. Yoshizawa M, Itoh T, Morino, Y, Taniai S, Ishibashi Y, Komatsu T, Taguchi I, Nishinari M, Ako J, Kyono H, Furukawa T, Murakami T, Ikari Y, Kato R, Matsumoto K, Sakuma M, Sugimura H, Y JA, Yoshino H and group C-U. Gender Differences in the Circadian and Seasonal Variations in Patients with Takotsubo Syndrome: A Multicenter Registry at Eight University Hospitals in East Japan. *Intern Med.* 2021;60:2749-2755.

22. Watanabe H, Morimoto T, Ogita M, Suwa S, Natsuaki M, Suematsu N, Koeda Y, Morino, Y, Nikaido A, Hata Y, Doi

- M, Hibi K, Kimura K, Yoda S, Kaneko T, Nishida K, Kawai K, Yamaguchi K, Wakatsuki T, Tonoike N, Yamamoto M, Shimizu S, Shimohama T, Ako J, Kimura T and Investigators S-. Influence of CYP2C19 genotypes for the effect of 1-month dual antiplatelet therapy followed by clopidogrel monotherapy relative to 12-month dual antiplatelet therapy on clinical outcomes after percutaneous coronary intervention: a genetic substudy from the STOPDAPT-2. *Cardiovasc Interv Ther.* 2021;36:403-415.
23. Sasaki W, Ishida M, Itoh T, Uchimura Y, Oda H, Taguchi Y, Kaneko K, Sakamoto T, Goto I, Sakuma M, Terashita D, Otake H, Shinke T and Morino, Y. Comparison of serial optical coherence tomography imaging following aggressive stent expansion technique: insight from the MECHANISM study. *Int J Cardiovasc Imaging.* 2021;37:419-428.
24. Niiyama M, Koeda Y, Suzuki M, Shibuya T, Kinuta M, Tosaka K, Fujiwara J, Kanehama N, Sasaki W, Shimoda Y, Ishida M, Itoh T and Morino, Y. Coronary Flow Disturbance Phenomenon After Percutaneous Coronary Intervention Is Associated with New-Onset Atrial Fibrillation in Patients with Acute Myocardial Infarction. *Int Heart J.* 2021;62:305-311.
25. Morino, Y. A contemporary review of clinical significances of percutaneous coronary intervention for chronic total occlusions, with some Japanese insights. *Cardiovasc Interv Ther.* 2021;36:145-157.
26. Itoh T, Toda N, Yoshizawa M, Osaki T, Maegawa Y, Yoshizawa R, Ishikawa Y, Nishiyama O, Nakajima S, Nakamura M and Morino, Y. Impact of the Great East Japan Earthquake and Tsunami on the Incidence of Takotsubo Syndrome Using a Multicenter, Long-Term Regional Registry. *Circ J.* 2021;85:1834-1839.
27. Morino, Y. and Nakajima Y. Structural heart intervention for prevention of embolic and hemorrhagic stroke: The new field of neurocardiology. *J Cardiol.* 2020;76:227-235.
28. Matsuo H, Kawasaki T, Amano T, Kawase Y, Sobue Y, Kondo T, Morino, Y., Yoda S, Sakamoto T, Ito H, Shite J, Otake H, Tanaka N, Terashima M, Kadota K, Patel MR, Nieman K, Rogers C, Norgaard BL, Bax JJ, Chinnaiyan KM, Berman DS, Fairbairn TA, Hurwitz Koweek LM, Leipsic J and Akasaka T. Effect of Coronary Computed Tomography Angiography-Derived Fractional Flow Reserve on Physicians' Clinical Behavior - Differences Between Sites With and Without Appropriate Use Criteria as Designated by the Japanese Reimbursement System. *Circ Rep.* 2020;2:364-371.
29. Koeda Y, Itoh T, Ishikawa Y, Morino, Y., Mizutani T, Ako J, Nakano M, Yoshioka K, Ikari Y, Inami S, Sakuma M, Taguchi I, Ishikawa T, Sugimura H, Sugi K, Matsumoto K, Mitarai T, Kunishima T, Akashi YJ, Nomura T, Fukushi K, Yoshino H and Cardiovascular Research Consortium U. A multicenter study on the clinical characteristics and risk factors of in-hospital mortality in patients with mechanical complications following acute myocardial infarction. *Heart Vessels.* 2020;35:1060-1069.
30. Ishida M, Terashita D, Itoh T, Otake H, Tsukiyama Y, Kikuchi T, Hayashi T, Suzuki T, Ito Y, Morita T, Hibi K, Sawada T, Okamura T, Shite J, Takahashi F, Shinke T and Morino, Y. Vascular Response Occurring at 3 Months After Everolimus-Eluting Cobalt-Chromium Stent Implantation in Patients With ST-Segment Elevation Myocardial Infarction vs. Stable Coronary Artery Disease. *Circ J.* 2020;84:1941-1948.
31. Ishida M, Takahashi F, Goto I, Niiyama M, Saitoh H, Sakamoto T, Maegawa Y, Osaki T, Nishiyama O, Endo H, Sakamoto R, Kojima T, Koeda Y, Kimura T, Itoh T, Morino, Y. and investigators R. Clinical outcomes of patients treated using very short duration dual antiplatelet therapy after implantation of biodegradable-polymer drug-eluting stents: rationale and design of a prospective multicenter REIWA registry. *Cardiovasc Interv Ther.* 2020;35:398-404.
32. Hibi K, Kozuma K, Maejima N, Sonoda S, Endo T, Tanaka H, Kyono H, Koshida R, Ishihara T, Awata M, Kume T, Tanabe K, Morino, Y., Tsukahara K, Ikari Y, Fujii K, Yamasaki M, Yamanaka T, Sumiyoshi T, Yoshino H, Kimura K, Isshiki T and Investigators V. Long-Term Clinical Outcomes After Filter Protection During Percutaneous Coronary Intervention in Patients With Attenuated Plaque - 1-Year Follow up of the VAMPIRE 3 (Vacuum Aspiration Thrombus Removal 3) Trial. *Circ J.*

2020;85:44-49.

33. Aonuma K, Yamasaki H, Nakamura M, Matsumoto T, Takayama M, Ando K, Hirao K, Goya M, Morino, Y, Hayashida K, Kusano K, Gomi Y, Main ML, Uchida T and Saito S. Efficacy and Safety of Left Atrial Appendage Closure With WATCHMAN in Japanese Nonvalvular Atrial Fibrillation Patients - Final 2-Year Follow-up Outcome Data From the SALUTE Trial. *Circ J*. 2020;84:1237-1243.
34. Watanabe H, Domei T, Morimoto T, Natsuaki M, Shiomi H, Toyota T, Ohya M, Suwa S, Takagi K, Nanasato M, Hata Y, Yagi M, Suematsu N, Yokomatsu T, Takamisawa I, Doi M, Noda T, Okayama H, Seino Y, Tada T, Sakamoto H, Hibi K, Abe M, Kawai K, Nakao K, Ando K, Tanabe K, Ikari Y, Hanaoka KI, Morino, Y, Kozuma K, Kadota K, Furukawa Y, Nakagawa Y, Kimura T and Investigators S-. Very Short Dual Antiplatelet Therapy After Drug-Eluting Stent Implantation in Patients With High Bleeding Risk: Insight From the STOPDAPT-2 Trial. *Circulation*. 2019;140:1957-1959.
35. Kimura K, Kimura T, Ishihara M, Nakagawa Y, Nakao K, Miyauchi K, Sakamoto T, Tsujita K, Hagiwara N, Miyazaki S, Ako J, Arai H, Ishii H, Origuchi H, Shimizu W, Takemura H, Tahara Y, Morino, Y, Iino K, Itoh T, Iwanaga Y, Uchida K, Endo H, Kongoji K, Sakamoto K, Shiomi H, Shimohama T, Suzuki A, Takahashi J, Takeuchi I, Tanaka A, Tamura T, Nakashima T, Noguchi T, Fukamachi D, Mizuno T, Yamaguchi J, Yodogawa K, Kosuge M, Kohsaka S, Yoshino H, Yasuda S, Shimokawa H, Hirayama A, Akasaka T, Haze K, Ogawa H, Tsutsui H, Yamazaki T and Japanese Circulation Society Joint Working G. JCS 2018 Guideline on Diagnosis and Treatment of Acute Coronary Syndrome. *Circ J*. 2019;83:1085-1196.
36. Ako J, Okumura K, Nakao K, Kozuma K, Morino, Y, Okazaki K, Fukaya T, Kimura T and Investigators R-DPT. Dual Anti-Thrombotic Therapy With Dabigatran After Percutaneous Coronary Intervention in Atrial Fibrillation - Japanese and East-Asian Subgroup Analysis of the RE-DUAL PCI Trial. *Circ J*. 2019;83:327-333.
37. Ako J, Hibi K, Tsujita K, Hiro T, Morino, Y, Kozuma K, Shinke T, Otake H, Uno K, Louie MJ, Takagi Y and Miyauchi K. Effect of Alirocumab on Coronary Atheroma Volume in Japanese Patients With Acute Coronary Syndrome - The ODYSSEY J-IVUS Trial. *Circ J*. 2019;83:2025-2033.
38. Watanabe H, Morimoto T, Shiomi H, Natsuaki M, Kawai K, Kozuma K, Igarashi K, Kadota K, Tanabe K, Morino, Y, Hibi K, Akasaka T, Abe M, Suwa S, Muramatsu T, Kobayashi M, Dai K, Nakao K, Tarutani Y, Fujii K, Kimura T, Reset and Investigators N. Impact of Angiographic Residual Stenosis on Clinical Outcomes After New-Generation Drug-Eluting Stents Implantation: Insights From a Pooled Analysis of the RESET and NEXT Trials. *J Am Heart Assoc*. 2018;7.
39. Tanabe K, Popma JJ, Kozuma K, Saito S, Muramatsu T, Nakamura S, Namiki A, Morino, Y, Hagiwara N, Uematsu M, Kawasaki T, Fujii K, Serruys PW, Onuma Y, Ying S, Kusano H, Stone GW and Kimura T. Multislice computed tomography assessment of everolimus-eluting Absorb bioresorbable scaffolds in comparison with metallic drug-eluting stents from the ABSORB Japan randomised trial. *EuroIntervention*. 2018;14:e1020-e1028.
40. Natsuaki M, Morimoto T, Yamaji K, Watanabe H, Yoshikawa Y, Shiomi H, Nakagawa Y, Furukawa Y, Kadota K, Ando K, Akasaka T, Hanaoka KI, Kozuma K, Tanabe K, Morino, Y, Muramatsu T, Kimura T, Credo-Kyoto Pci/Cabg Registry Cohort R and investigators Nt. Prediction of Thrombotic and Bleeding Events After Percutaneous Coronary Intervention: CREDO-Kyoto Thrombotic and Bleeding Risk Scores. *J Am Heart Assoc*. 2018;7.
41. Kubo T, Shinke T, Okamura T, Hibi K, Nakazawa G, Morino, Y, Shite J, Ino Y, Kitabata H, Shimokawa T and Akasaka T. Comparison between Optical COherence tomography guidance and Angiography guidance in percutaneous coronary intervention (COCOA): Study protocol for a randomized controlled trial. *J Cardiol*. 2018;72:170-175.
42. Ishikawa Y, Itoh T, Satoh M, Fusazaki T, Sugawara S, Nakajima S, Nakamura M and Morino, Y. Impact of Water-

and Lipid-Soluble Statins on Nonculprit Lesions in Patients with Acute Coronary Syndrome. *Int Heart J.* 2018;59:27-34.

43. Hozawa M, Morino, Y, Matsumoto Y, Tanaka R, Nagata K, Kumagai A, Tashiro A, Doi A and Yoshioka K. 3D-computed tomography to compare the dimensions of the left atrial appendage in patients with normal sinus rhythm and those with paroxysmal atrial fibrillation. *Heart Vessels.* 2018;33:777-785.

44. Morino, Y, Tobaru T, Yasuda S, Kataoka K, Tanabe K, Hirohata A, Kozuma K and Kimura T. Biodegradable polymer-based, argatroban-eluting, cobalt-chromium stent (JF-04) for treatment of native coronary lesions: final results of the first-in-man study and lessons learned. *EuroIntervention.* 2016;12:1271-1278.

45. Morino, Y, Abe M, Morimoto T, Kimura T, Hayashi Y, Muramatsu T, Ochiai M, Noguchi Y, Kato K, Shibata Y, Hiasa Y, Doi O, Yamashita T, Hinohara T, Tanaka H, Mitsudo K and Investigators JCR. Predicting successful guidewire crossing through chronic total occlusion of native coronary lesions within 30 minutes: the J-CTO (Multicenter CTO Registry in Japan) score as a difficulty grading and time assessment tool. *JACC Cardiovasc Interv.* 2011;4:213-21.