

CURRICULUM VITAE

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Nationality: Japan

Education:

1988-1994 MD, Mie University

1997-2001 PhD, Mie University Graduate School of Medicine

Medical License:

Full Medical License (Japan) #365624

Board Certification:

The Japanese Society of Internal Medicine/Specialist/Instructor

The Japanese Circulation Society/Specialist

The Japanese Society of Ultrasonics in Medicine/Specialist/Instructor

Fellow of the Japanese Circulation Society

Fellow of the Japanese College of Cardiology

Fellow of the Japanese Society of Echocardiography

Fellow of the Japanese Society of Ultrasonics in Medicine

Present Position:

Professor, Department of Cardiology and Nephrology, Mie University Graduate School of Medicine

Professional History

1994-1995 Clinical Resident, First Department of Internal Medicine, Mie University Hospital

1995-1998 Clinical Resident, Department of Internal Medicine, Ise Municipal General
Hospital

1998-2001 Fellow, Department of Cardiology and Nephrology

2001-2002 Medical Staff, Department of Cardiology and Nephrology, Mie University Hospital

2002-2005 Post-Doctoral Fellow, Cardiovascular Institute, University of Pittsburgh
2005-2009 Assistant Professor, Department of Cardiology and Nephrology, Mie University Hospital
2009-2012 Assistant Professor, Department of Molecular and Laboratory Medicine, Mie University Graduate School of Medicine
2012-2014 Assistant Professor, Department of Cardiology and Nephrology, Mie University Graduate School of Medicine
2014-2018 Lecturer, Department of Cardiology and Nephrology, Mie University Graduate School of Medicine
2019-2020 Associate Professor, Department of Cardiology and Nephrology, Mie University Graduate School of Medicine
2020-current Professor, Department of Cardiology and Nephrology, Mie University Graduate School of Medicine

Awards:

2004 American Society of Echocardiography: Research Fellowship Award
2009 Medical Encouragement Award from Mie Medical Association
2017 Sanikai-Award from Mie Medical Research Foundation

Research grants:

2006-2007 Grants-in-Aid for Scientific Research from the Ministry of Education, Science, Technology, Sports and Culture, Japan
2006 Grants from Japan Heart Foundation
2010-2012 Grants-in-Aid for Scientific Research from the Ministry of Education, Science, Technology, Sports and Culture, Japan
2010 Grants from Suzuken Memorial Foundation
2015-2017 Grants-in-Aid for Scientific Research from the Ministry of Education, Science, Technology, Sports and Culture, Japan
2018-2020 Grants-in-Aid for Scientific Research from the Ministry of Education, Science, Technology, Sports and Culture, Japan
2018 Grants from Okasan-Kato Foundation

Memberships:

The American Society of Echocardiography
The Japanese Society of Internal Medicine
The Japanese Circulation Society
The Japanese College of Cardiology

The Japanese Heart Failure Society
The Japanese Society of Echocardiography
The Japanese Society of Ultrasonics in Medicine
The Japanese Heart Rhythm Society
The Japanese Society of Hypertension
The Japanese Association of Cardiac Rehabilitation
The Japanese Society of Sleep Research
Japanese Society for Adult Congenital Heart Disease
Japanese Association of Cardiovascular Intervention and Therapeutics

Research Interests:

Echocardiography
Heart Failure Management

Journal Articles (Current 3 years)

2020

- 1: Omori T, Nakamori S, Fujimoto N, Ishida M, Kitagawa K, Ichikawa Y, Kumagai N, Kurita T, Imanaka-Yoshida K, Hiroe M, Sakuma H, Ito M, Dohi K. Myocardial Native T1 Predicts Load-Independent Left Ventricular Chamber Stiffness In Patients With HFpEF. *JACC Cardiovasc Imaging*. 2020 Aug 3:S1936-878X(20)30518-0.
- 2: Fukuma T, Fujimoto N, Ishiyama M, Dohi K. Atrial wall thickening, fevers, and atrial fibrillation caused by immunoglobulin G4-related biatrial cardiomyopathy. *Eur Heart J*. 2020 Aug 3:ehaa589. doi: 10.1093/eurheartj/ehaa589.
- 3: Ito H, Ishida M, Makino W, Goto Y, Ichikawa Y, Kitagawa K, Omori T, Dohi K, Ito M, Sakuma H. Cardiovascular magnetic resonance feature tracking for characterization of patients with heart failure with preserved ejection fraction: correlation of global longitudinal strain with invasive diastolic functional indices. *J Cardiovasc Magn Reson*. 2020 Jun 4;22(1):42.
- 4: Fukuoka S, Dohi K, Takeuchi T, Moriwaki K, Ishiyama M, Omori T, Fujimoto N, Ito M. Mechanisms and prediction of short-term natriuretic effect of sodium-glucose cotransporter 2 inhibitor in heart failure patients coexisting type 2 diabetes mellitus. *Heart Vessels*. 2020 Sep;35(9):1218-1226.
- 5: Nakamura S, Kitagawa K, Goto Y, Takafuji M, Nakamori S, Kurita T, Dohi K, Sakuma H. Prognostic Value of Stress Dynamic Computed Tomography Perfusion With Computed Tomography Delayed Enhancement. *JACC Cardiovasc Imaging*. 2020 Aug;13(8):1721-1734.

6: Fujimoto N, Moriwaki K, Takeuchi T, Sawai T, Sato Y, Kumagai N, Masuda J, Nakamori S, Ito M, Dohi K. Effects of sitagliptin on exercise capacity and hemodynamics in patients with type 2 diabetes mellitus and coronary artery disease. *Heart Vessels*. 2020 May;35(5):605-613. doi: 10.1007/s00380-019-01526-7.

2019

7: Fukuoka S, Fujimoto N, Dohi K, Onuma H, Okamoto R, Kakimoto H, Ito M. Echocardiographic changes in diastolic filling and stroke volume during postural alterations and ankle exercise in a patient with congenital defect of the pericardium. *J Echocardiogr*. 2020 Jun;18(2):130-131.

1: Takasaki A, Sugiura E, Dohi K, Ito M. Marked changes in bioprosthetic valve thrombosis by anticoagulation therapy. *Eur Heart J Case Rep*. 2019 Nov 20;3(4):1-3.

2: Ishiyama M, Kurita T, Ishiura J, Yamamoto N, Sugiura E, Ito H, Tada N, Fujimoto N, Ito M, Dohi K. Successful percutaneous treatment of recurrent post-infarction ventricular septal rupture using an Amplatzer duct occluder. *J Cardiol Cases*. 2019 Sep 25;21(1):12-15.

3: Fukuoka S, Kurita T, Takasaki A, Nakata T, Fujimoto N, Masuda J, Hoshino K, Tanigawa T, Koyabu S, Ito M, Dohi K. Clinical usefulness of instantaneous wave-free ratio for the evaluation of coronary artery lesion with prior myocardial infarction: A multi-center study. *Int J Cardiol Heart Vasc*. 2019 Dec 19;26:100431.

4: Fujimoto N, Moriwaki K, Takeuchi T, Sawai T, Sato Y, Kumagai N, Masuda J, Nakamori S, Ito M, Dohi K. Effects of sitagliptin on exercise capacity and hemodynamics in patients with type 2 diabetes mellitus and coronary artery disease. *Heart Vessels*. 2020 May;35(5):605-613.

5: Sugiura E, Dohi K, Tanimura M, Kumagai N, Ishikawa E, Ito M. Successful Peritoneal Dialysis for the Treatment of Inotrope-Dependent End-Stage Heart Failure. *Int Heart J*. 2019 Sep 27;60(5):1211-1218.

6: Hirota Y, Moriwaki K, Kurita T, Ito M, Dohi K. Radiation-Induced Myocardial Injury Detected on Computed Tomography Myocardial Perfusion Imaging. *Circ J*. 2019 Nov 25;83(12):2571.

7: Mizutani H, Ogihara Y, Fujimoto N, Izumi D, Ohashi H, Mitani Y, Ito M, Dohi K. Pulmonary Perfusion Scintigraphy - Non-Invasive Method to Confirm Platypnea-Orthodeoxia Syndrome Treatment Effectiveness. *Circ J*. 2019 Nov 25;83(12):2570.

8: Ogihara Y, Fujimoto N, Ohashi H, Yamamoto N, Ito H, Mitani Y, Aoki Y, Imanaka-Yosida K, Ito M, Dohi K. Case of Noonan Syndrome With an Expanding Coronary Arterial Aneurysm. *Circ Cardiovasc Imaging*. 2019 Sep;12(9):e009429.

9: Takasaki A, Nakamori S, Dohi K. Massive ST-Segment Elevation and QTc Prolongation in the Emergency Department. *Circulation*. 2019 Jul 30;140(5):436-439.

10: Fujimoto N, Sato T, Moriwaki K, Sugiura E, Nakamori S, Imanaka-Yoshida K, Ito M, Dohi K. Early Localized Ventricular Septal Aneurysm Formation in Acute Eosinophilic Myocarditis. *Circ J*. 2019 Nov 25;83(12):2567.

11: Dohi K. Echocardiographic assessment of cardiac structure and function in chronic renal disease. *J Echocardiogr*. 2019 Sep;17(3):115-122. doi: 10.1007/s12574-019-00436-x.

12: Ali Y, Dohi K, Okamoto R, Katayama K, Ito M. Novel molecular mechanisms in the inhibition of adrenal aldosterone synthesis: Action of tolvaptan via vasopressin V2 receptor-independent pathway. *Br J Pharmacol*. 2019 May;176(9):1315-1327.

13: Fukuoka S, Fujimoto N, Dohi K, Onuma H, Okamoto R, Kakimoto H, Ito M. Echocardiographic changes in diastolic filling and stroke volume during postural alterations and ankle exercise in a patient with congenital defect of the pericardium. *J Echocardiogr*. 2020 Jun;18(2):130-131.

14: Fukuoka S, Kurita T, Dohi K, Masuda J, Seko T, Tanigawa T, Saito Y, Kakimoto H, Makino K, Ito M. Untangling the obesity paradox in patients with acute myocardial infarction after primary percutaneous coronary intervention (detail analysis by age). *Int J Cardiol*. 2019 Aug 15;289:12-18.

15: Nakamura S, Kitagawa K, Goto Y, Omori T, Kurita T, Yamada A, Takafuji M, Uno M, Dohi K, Sakuma H. Incremental Prognostic Value of Myocardial Blood Flow Quantified With Stress Dynamic Computed Tomography Perfusion Imaging. *JACC Cardiovasc Imaging*. 2019 Jul;12(7 Pt 2):1379-1387.

16: Ito T, Fujimoto N, Ishikawa E, Dohi K, Fujimoto M, Murata T, Kiyohara M, Takeuchi H, Koyabu S, Nishimura H, Takeuchi T, Ito M. The effect of an L/N-type calcium channel blocker on intradialytic blood pressure in intradialytic hypertensive patients. *Clin Exp Hypertens*. 2019;41(1):92-99.

2018

1: Oda K, Katayama K, Tanoue A, Murata T, Hirota Y, Mizoguchi S, Hirabayashi Y, Ito T, Ishikawa

E, Dohi K, Ito M. Acute kidney injury due to thin basement membrane disease mimicking Deferasirox nephrotoxicity: a case report. *BMC Nephrol.* 2018 Dec 17;19(1):363.

2: Takagawa J, Asanoi H, Tobushi T, Kumagai N, Kadokami T, Dohi K, Joho S, Wada O, Koyama T, Haruki N, Ando SI, Momomura SI; PROST Investigators. Multicenter, Prospective Study on Respiratory Stability During Recovery From Deterioration of Chronic Heart Failure. *Circ J.* 2018 Dec 25;83(1):164-173.

3: Zannad F, Anker SD, Byra WM, Cleland JGF, Fu M, Gheorghiade M, Lam CSP, Mehra MR, Neaton JD, Nessel CC, Spiro TE, van Veldhuisen DJ, Greenberg B; COMMANDER HF Investigators. Rivaroxaban in Patients with Heart Failure, Sinus Rhythm, and Coronary Disease. *N Engl J Med.* 2018 Oct 4;379(14):1332-1342.

4: Nii M, Ishida M, Dohi K, Tanaka H, Kondo E, Ito M, Sakuma H, Ikeda T. Myocardial tissue characterization and strain analysis in healthy pregnant women using cardiovascular magnetic resonance native T1 mapping and feature tracking technique. *J Cardiovasc Magn Reson.* 2018 Aug 2;20(1):52.

5: Nakamura S, Kitagawa K, Goto Y, Omori T, Kurita T, Yamada A, Takafuji M, Uno M, Dohi K, Sakuma H. Incremental Prognostic Value of Myocardial Blood Flow Quantified With Stress Dynamic Computed Tomography Perfusion Imaging. *JACC Cardiovasc Imaging.* 2019 Jul;12(7 Pt 2):1379-1387.

6: Moriwaki K, Takeuchi T, Fujimoto N, Sawai T, Sato Y, Kumagai N, Masuda J, Nakamori S, Ishida M, Yamada N, Nakamura M, Sakuma H, Ito M, Dohi K. Effect of Sitagliptin on Coronary Flow Reserve Assessed by Magnetic Resonance Imaging in Type 2 Diabetic Patients With Coronary Artery Disease. *Circ J.* 2018 Jul 25;82(8):2119-2127.

7: Masuda J, Kishi M, Kumagai N, Yamazaki T, Sakata K, Higuma T, Ogimoto A, Dohi K, Tanigawa T, Hanada H, Nakamura M, Sokejima S, Takayama M, Higaki J, Yamagishi M, Okumura K, Ito M. Rural-Urban Disparity in Emergency Care for Acute Myocardial Infarction in Japan. *Circ J.* 2018 May 25;82(6):1666-1674.

8: Ito T, Fujimoto N, Ishikawa E, Dohi K, Fujimoto M, Murata T, Kiyohara M, Takeuchi H, Koyabu S, Nishimura H, Takeuchi T, Ito M. The effect of an L/N-type calcium channel blocker on intradialytic blood pressure in intradialytic hypertensive patients. *Clin Exp Hypertens.* 2019;41(1):92-99.

- 9: Nakamori S, Sakuma H, Dohi K, Ishida M, Tanigawa T, Yamada A, Takase S, Nakajima H, Sawai T, Masuda J, Nagata M, Ichikawa Y, Kitagawa K, Fujii E, Yamada N, Ito M. Combined Assessment of Stress Myocardial Perfusion Cardiovascular Magnetic Resonance and Flow Measurement in the Coronary Sinus Improves Prediction of Functionally Significant Coronary Stenosis Determined by Fractional Flow Reserve in Multivessel Disease. *J Am Heart Assoc.* 2018 Jan 26;7(3):e007736.
- 10: Nakabachi M, Yamada S, Iwano H, Hayashi T, Okada K, Kusunose K, Watanabe K, Ishizu T, Wakami K, Yamada H, Dohi K, Seo Y, Ohte N, Shimizu C, Mikami T. Left Ventricular Mass Influences Relationship Between Filling Pressure and Early-Diastolic Ratio of Inflow Velocity to Mitral Annular Velocity (E/e'). *Circ J.* 2018 Feb 23;82(3):732-738.
- 11: Miyahara S, Fujimoto N, Dohi K, Sugiura E, Moriwaki K, Omori T, Takeuchi T, Kumagai N, Nakamori S, Yamada N, Ito M. Postdischarge Light-Intensity Physical Activity Predicts Rehospitalization of Older Japanese Patients With Heart Failure. *J Cardiopulm Rehabil Prev.* 2018 May;38(3):182-186.
- 12: Kakuta K, Dohi K, Fujimoto N, Yamanaka T, Kawamura M, Ito M. Assessment of coronary artery disease based on coronary flow velocity reserve by transthoracic Doppler echocardiography and coronary computed tomography angiography in a patient with dextrocardia: a case report. *J Echocardiogr.* 2018 Sep;16(3):147-149.
- 13: Matsuo H, Dohi K, Machida H, Takeuchi H, Aoki T, Nishimura H, Yasutomi M, Senga M, Ichikawa T, Kakuta K, Mizutani Y, Tanoue A, Isaka N, Oosugi K, Koyabu S, Sakurai M, Fukui Y, Kakimoto H, Sugimoto T, Ohnishi T, Murata T, Ishikawa E, Okamoto R, Yamada T, Ogura T, Nishimura Y, Tanigawa T, Nomura S, Nishikawa M, Ito M. Echocardiographic Assessment of Cardiac Structural and Functional Abnormalities in Patients With End-Stage Renal Disease Receiving Chronic Hemodialysis. *Circ J.* 2018 Jan 25;82(2):586-595.
- 14: Kumagai N, Dohi K, Fujimoto N, Tanimura M, Sato Y, Miyahara S, Nakamori S, Fujii E, Yamada N, Ito M. A novel method for the quantitative evaluation of diurnal respiratory instability in patients with heart failure: A pilot study. *J Cardiol.* 2018 Feb;71(2):159-167.
- 15: Omori T, Kurita T, Dohi K, Takasaki A, Nakata T, Nakamori S, Fujimoto N, Kitagawa K, Hoshino K, Tanigawa T, Sakuma H, Ito M. Prognostic impact of unrecognized myocardial scar in the non-culprit territories by cardiac magnetic resonance imaging in patients with acute myocardial infarction. *Eur Heart J Cardiovasc Imaging.* 2018 Jan 1;19(1):108-116. Erratum in: *Eur Heart J Cardiovasc Imaging.* 2018 Jan 1;19(1):122.

16: Nakamori S, Dohi K, Ishida M, Goto Y, Imanaka-Yoshida K, Omori T, Goto I, Kumagai N, Fujimoto N, Ichikawa Y, Kitagawa K, Yamada N, Sakuma H, Ito M. Native T1 Mapping and Extracellular Volume Mapping for the Assessment of Diffuse Myocardial Fibrosis in Dilated Cardiomyopathy. *JACC Cardiovasc Imaging*. 2018 Jan;11(1):48-59.