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Educational training

2000 BS Pre-medical, St. Marianna University School of Medicine, Japan.
2004 MD St. Marianna University School of Medicine, Japan.
2010 PhD St. Marianna University Graduate School (Cardiology), Japan

Postdoctoral training

2004 - 2006 Junior Resident, Department of Internal Medicine, St. Marianna University School of Medicine, Japan.
2006 - 2010 Division of Cardiology, St. Marianna University Graduate School, Japan
2010 - 2011 Postdoctoral fellowship, Department of Cardiology, Cedars-Sinai Medical Center, California.
2012 - 2016 Assistant Professor, Division of Cardiology, St. Marianna University School of Medicine, Japan
2017-present Associate Professor, Division of Cardiology, St. Marianna University School of Medicine, Japan

Research fellowship

2010 - 2011 Postdoctoral fellowship, Department of Cardiology, Cedars-Sinai Medical Center, California.

Academic associations

2004 - present The Japanese Society of Internal Medicine
2004 - present Japanese Circulation Society
2006 - present Japanese Society of Echocardiography
2008 - present European Society of Cardiology
2010 - present American Society of Echocardiography
2010 – present American College of Cardiology

Research activities

Original article

1. Suzuki T, **Izumo M**, Suzuki K, Koto D, Tsukahara M, Teramoto K, Sato Y, Watanabe M, Mizukoshi K, Kamijima R, Takai M, Kou S, Harada T, Nobuoka S, Akashi YJ. Prognostic value of exercise stress echocardiography in patients with secondary mitral regurgitation: a long-term follow-up study.
J Echocardiogr. 2019 in press
2. Yoshida H, Seo Y, Ishizu T, **Izumo M**, Akashi YJ, Yamashita E, Otsuji Y, Negishi K, Takeuchi M. Prognostic Value of Energy Loss Coefficient for Predicting Asymptomatic Aortic Stenosis Outcomes: Direct Comparison With Aortic Valve Area. J Am Soc Echocardiogr. 2019 Mar;32(3):351-358.
3. Namisaki H, Nagata Y, Seo Y, Ishizu T, **Izumo M**, Akashi YJ, Yamashita E, Otsuji Y, Takeuchi M. Symptomatic paradoxical low gradient severe aortic stenosis: A possible link to heart failure with preserved ejection fraction. J Cardiol. 2019 Jun;73(6):536-543.
4. Nabeshima Y, Nagata Y, Negishi K, Seo Y, Ishizu T, Sato K, Aonuma K, Koto D, **Izumo M**, Akashi YJ, Yamashita E, Oshima S, Otsuji Y, Takeuchi M. Direct Comparison of Severity Grading Assessed by Two-Dimensional, Three-Dimensional, and Doppler Echocardiography for Predicting Prognosis in Asymptomatic Aortic Stenosis. J Am Soc Echocardiogr. 2018 Oct;31(10):1080-1090.
5. Negishi T, Thavendiranathan P, Negishi K, Marwick TH; SUCCOUR investigators. Rationale and Design of the Strain Surveillance of Chemotherapy for Improving Cardiovascular Outcomes: The SUCCOUR Trial. JACC Cardiovasc Imaging. 2018 Aug;11(8):1098-1105.
6. Koto D, **Izumo M**, Machida T, Suzuki K, Yoneyama K, Suzuki T, Kamijima R, Kobayashi Y, Harada T, Akashi YJ. Geometry of the left ventricular outflow tract assessed by 3D TEE in patients with aortic stenosis: impact of upper septal

hypertrophy on measurements of Doppler-derived left ventricular stroke volume. *J Echocardiogr.* 2018 in press

7. Thavendiranathan P, Negishi T, Coté MA, Penicka M, Massey R, Cho GY, Hristova K, Vinereanu D, Popescu BA, **Izumo M**, Negishi K, Marwick TH; SUCCOUR Investigators. Single Versus Standard Multiview Assessment of Global Longitudinal Strain for the Diagnosis of Cardiotoxicity During Cancer Therapy. *JACC Cardiovasc Imaging.* 2018 Aug;11(8):1109-1118
8. Wu VC, Takeuchi M, Nagata Y, **Izumo M**, Akashi YJ, Lin FC, Otsuji Y. Prognostic value of area of calcified aortic valve by 2-dimensional echocardiography in asymptomatic severe aortic stenosis patients with preserved left ventricular ejection fraction. *Medicine (Baltimore).* 2018; 97:e0246.
9. Watanabe M, **Izumo M**, Akashi YJ. Novel Understanding of Takotsubo Syndrome. *Int Heart J.* 2018; 59:250-255.
10. Kusunose K, Shibayama K, Iwano H, **Izumo M**, Kagiya N, Kurosawa K, Mihara H, Oe H, Onishi T, Onishi T, Ota M, Sasaki S, Shiina Y, Tsuruta H, Tanaka H; JAYEF Investigators. Reduced variability of visual left ventricular ejection fraction assessment with reference images: The Japanese Association of Young Echocardiography Fellows multicenter study. *J Cardiol.* 2018 in press.
11. Hirasawa K, **Izumo M**, Sasaoka T, Ashikaga T, Suzuki K, Harada T, Isobe M, Akashi YJ. Effect of aortic regurgitant jet direction on mitral valve leaflet remodeling: a real-time three-dimensional transesophageal echocardiography study. *Sci Rep.* 2017;7:8884.
12. **Izumo M**, Akashi Y. Role of echocardiography for takotsubo cardiomyopathy: clinical and prognostic implications. *Cardiovasc Diagn Ther.* 2018 Feb;8(1):90-100.
13. Kamijima R, Suzuki K, **Izumo M**, Kuwata S, Mizukoshi K, Takai M, Kou S, Hayashi A, Kida K, Harada T, Akashi YJ. Predictors of Exercise-Induced Pulmonary Hypertension in Patients with Asymptomatic Degenerative Mitral Regurgitation: Mechanistic Insights from 2D Speckle-Tracking Echocardiography. *Sci Rep.* 2017 in press.
14. Sato Y, **Izumo M**, Suzuki K, Kou S, Yoneyama K, Tsukahara M, Teramoto K, Minami K, Kuwata S, Kamijima R, Mizukoshi K, Hayashi A, Nobuoka S, Ohtaki E,

Harada T, Akashi YJ. Prognostic value of exercise left ventricular end-systolic volume index in patients with asymptomatic aortic regurgitation: an exercise echocardiography study. *J Echocardiogr.* 2017; 15:70-78.

15. **Izumo M**, Takeuchi M, Seo Y, Yamashita E, Suzuki K, Ishizu T, Sato K, Oshima S, Aonuma K, Otsuji Y, Akashi YJ. Prognostic implications in patients with symptomatic aortic stenosis and preserved ejection fraction: Japanese multicenter aortic stenosis, retrospective (JUST-R) registry. *J Cardiol.* 2017; 69:110-118.
16. Negishi T, Negishi K, Thavendiranathan P, Cho GY, Popescu BA, Vinereanu D, Kurosawa K, Penicka M, Marwick TH; **SUCCOUR Investigators**. Effect of Experience and Training on the Concordance and Precision of Strain Measurements. *JACC Cardiovasc Imaging.* 2017; 10:518-522.
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18. Minami K, Yoneyama K, **Izumo M**, Suzuki K, Ogawa Y, Chikaraishi K, Ogawa Y, Kobayashi Y, Furukawa T, Tanabe Y, Akashi YJ. Influence of aortic valve leaflet calcification on dynamic aortic valve motion assessed by cardiac computed tomography. *J Cardiovasc Comput Tomogr.* 2016; 10:485-490.
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21. **Izumo M**, Akashi YJ. Exercise echocardiography for structural heart disease. *J Echocardiography.* 2016; 14:21-9.

22. **Izumo M**, Shiota M, Nalawadi S, Das J, Dohad S, Kuwahara E, Fukuoka Y, Siegel RJ, Shiota T. Determinants of Secondary Pulmonary Hypertension in Patients with Takotsubo Cardiomyopathy. *Echocardiography*. 2015; 32:1608-13.
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43. 木田憲明 前田知子 伊東春樹 衣斐淑子 栗原美奈子 長谷川恵美子
田嶋明彦 小林由貴恵 明石嘉浩 出雲昌樹 大宮一人 濱本 鈺 谷口
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44. 鈴木健吾 水越 慶 黄 世捷 高井 学 出雲昌樹 下郷卓史 林 明
生 信岡祐彦 三宅良彦 Tissue mitral annular displacement を用いた高血圧患
者における潜在性左室収縮機能障害の検討 日本臨床生理学会雑誌 2010;
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Echocardiographic Assessments of Exercise-Induced Changes in Left Ventricular
Shape and Dyssynchrony in Patients with Dynamic Functional Mitral Regurgitation.
Eur Heart J Cardiovasc imaging. 2009; 10: 961-967.
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Patients with Sleep Disordered Breathing. J Cardiol. 2009; 53: 164-170.
47. 中川貴文 長田尚彦 木田圭亮 井澤和大 渡辺 敏 関塚宏光 出雲昌
樹 石橋祐記 林 明生 高橋英二 米山喜平 鈴木健吾 田村政近 井
上康二 大宮一人 三宅良彦 慢性心不全患者におけるBMIによる下肢筋力、
筋肉量、運動耐容能の検討 Therapeutic Research 2007; 28:1296～1301.
48. 出雲昌樹 長田尚彦 関塚宏光 中川貴文 下郷卓史 石橋祐記 林 明
生 米山喜平 高橋英二 木田圭亮 鈴木健吾 田村政近 鈴木香絵 井
上康二 大宮一人 三宅良彦 神澤葉子 佐久美哲也 中山美奈 小口由
美 扁桃肥大症例における睡眠時無呼吸症候群に関する検討 日本臨床生理
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Case reports

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