

CURRICULUM VITAE
Yoshikatsu Saiki, M.D., Ph.D.



Birth Date: September 5, 1963
Birth Place: Sendai, Japan
Nationality: Japanese
Marital Status: Married, 1990; two children
Present Address: 3-27-1 Kamo Izumi-ku, Sendai 981-3122, Japan
Work Address: 1-1 Seiryomachi, Aoba-ku, Sendai 980-8574. Japan
TEL: +81-22-717-7222
FAX: +81-22-717-7227
Email: yoshisaiki@med.tohoku.ac.jp

Education

Ph. D. 1998 Tohoku University Graduate School of Medicine
M.D. 1990 Tohoku University School of Medicine

Employment:

2010-present Professor and Chairman,
Division of Cardiovascular Surgery,
Tohoku University Graduate School of Medicine, Sendai.
2005-2010 Associate professor, Division of Cardiovascular Surgery,
Tohoku University Hospital, Sendai.
2003-2005 Assistant professor, Division of Cardiovascular Surgery,
Tohoku University Hospital, Sendai.
2003 Staff Surgeon, Division of Cardiovascular Surgery.
Aomori General Hospital, Aomori.
1998-1999 Staff Surgeon, Division of Cardiovascular Surgery,
Yamagata General Hospital, Yamagata.
Practice in acquired cardiac surgery
Experiments on fetal cardiac surgery and pulmonary
vascular maturation

Professional Training

- 2002-2003 Clinical fellow, Division of Cardiovascular Surgery, Children's Hospital Boston, Harvard Medical School, Training of congenital heart surgery and ECMO.
- 2001-2002 Clinical fellow, Division of Cardiovascular Surgery, Tohoku University Hospital.
- 2001 Transplant fellow, Division of Cardiovascular Surgery, University of Alberta, Edmonton, Canada. Training of heart and lung transplantation.
- 1999-2000 Clinical fellow, Division of Cardiovascular Surgery, University of Alberta, Edmonton, Canada. Training of congenital heart surgery
- 1996-1997 Research fellow, Cardiovascular Research Group, University of Alberta, Edmonton, Canada, Experiment on myocardial protection of immature hearts
- 1995-1996 Research fellow, Cardiovascular Research Institute, Hospital for Sick Children, University of Toronto, Toronto, Canada.
- 1992-1994 Cardiac Surgical Resident, Sakakibara Heart Institute, Tokyo Training of cardiac surgical anesthesia, congenital and acquired cardiac surgery
- 1990-1992 Surgical Resident, Takeda General Hospital, Aizuwakamatsu. Training of anesthesia and general surgery

National License for Medical Doctor:

1990 Number 332285, Japan

Board Certifications

- Certified Physician, Number 8904, Japan Surgical Society, Dec,1994
- Certified Physician, The Japanese Association for Thoracic Surgery, 1998
- Board Certified Cardiovascular Surgeon, Number5100535, The Japanese Board of Cardiovascular Surgery, Apl,2004
- Supervisory Cardiovascular surgeon, Number 534,The Japanese Association for Thoracic Surgery, Aug, 2005.
- Board Certified Surgeon, No.1802171, Japan Surgical Society, Dec, 2005

- Supervisory Surgeon, No. S008769, Japan Surgical Society, Dec,2009
- Trained Supervisory physician, No.10-244, The Japanese Board of Cardiovascular Surgery, Oct, 2010
- Certified physician for implantable ventricular assist device, No.12118, Jan, 2012
- Certified physician for transplantation, No.20120609, Sep, 2012
- Certified physician for tissue transplantation, No.59, Apr, 2017
- Certified physician for adult congenital heart disease, No.0065, Mar 2022

Foreign Certificates

1997 MCCEE (Medical Council of Canada Evaluating Examination)

Number 9550054

1997 ECFMG (USMLE step I , II and English test)

Number 0-440-373-9

Society Memberships

Japan Surgical Society

The Japanese Association for Thoracic Surgery Board member

The Japanese Society for Cardiovascular Surgery Board member

Japanese Society for Vascular Surgery Board member

Japanese Association for Coronary Artery Surgery Board member

Japanese Society for Adult Congenital Heart Disease Board member

Japanese Society for Artificial Organs

The Japanese Society for Transplantation

The Japanese Circulation Society

The Japanese Coronary Association

The Japanese Association of Cardiac Rehabilitation

Japanese College of Cardiology

The Japanese Heart Failure Society

Japanese Association for Clinical Ventricular Assist Systems

Congenital Heart Surgeon's Society Japan

Japanese Society of Pediatric Cardiology and Cardiac Surgery

Japanese Association of Cardiovascular Intervention and Therapeutics

Japan Minimally Invasive Cardiac Surgery

Japanese Society of Tissue Transplantation

Japanese Society for Regenerative Medicine

The Japanese Association for Infectious Diseases
Japanese Society for Infection Prevention and Control
Japanese College of Angiology

Asian Society for Cardiovascular and Thoracic Surgery
European Association for Cardio-Thoracic Surgery
American Heart Association International Fellow (FAHA), 2018 April
American Heart Association Leadership Committee of the Council on
Cardiovascular Surgery and Anesthesia
International Society for Heart & Lung Transportation
International Society for Adult Congenital Cardiac Disease
The Society of Thoracic Surgeons
American Association for Thoracic Surgery Active Member, 2018 April
Asia Pacific Society for Artificial Organ (APSAO)
Asian Association for Pediatric and Congenital Heart Surgery (AAPCHS)

Clinical Researches

- National research grant from Japan Agency for Medical Research and Development. Research for in-home therapy in management of heart transplant candidates. Role: Co-researcher April 2013-March 2016.
- National research grant from Japan Agency for Medical Research and Development. Research for the safety and effect of stentless mitral valve replacement obtained from autologous cardiac membrane. Role: Co-researcher April 2015-March 2018.
- National research grant from Japan Agency for Medical Research and Development. Development of tailored Heart Support Net for severe cardiac failure patient. Role: Co-researcher, April 2015-March 2017.

Research Grants for recent years

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical study on Exploring the effects of extracorporeal circulation on cancer growth and metastasis. Role: Co-researcher April 2022-March 2025.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical study on control of implantable Ventricular assist device driveline infection by infrared irradiation. Role: Co-researcher April 2021-March 2024.

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical study on a new preventive development method for vascular shunt stenosis by a directional drug sustained-release system that also has a three-dimensional structure. Role: Co-researcher April 2021-March 2024.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical research on establishment and effectiveness of aortic dissection stump formation method using novel bioabsorbable material. Role: Co-researcher April 2021-March 2024.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical research on Development of self-pericardium substitute for sustained release of bioabsorbable drug to prevent intramediastinal adhesions after open heart surgery. Role: Co-researcher April 2021-March 2024.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clinical study on the effectiveness of spiral suspension for severe secondary tricuspid regurgitation. Role: Co-researcher April 2020-March 2023.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Infection control of implantable ventricular assist device drive-line by infrared irradiation. Role: PI April 2021-March 2024
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of a new preventive method for vascular shunt stenosis by a directional drug sustained-deliver system with three-dimensional structure. Role: Co-researcher April 2021-March 2024
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Research on establishment and effectiveness of aortic dissection stump formation method using novel bioabsorbable material. Role: Co-researcher April 2021-March 2024
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of a bioabsorbable drug sustained deliver self-pericardium for prevention of mediastinal adhesions after open heart surgery. Role: Co-researcher April 2021-March 2024
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Establishment of preoperative prediction system for bleeding complications in patients with implantable ventricular assist

device. Role: PI April 2020-March 2023

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. A new approach to suppress coagulation / fibrinolysis and thrombocytopenia during extracorporeal circulation.

Role: Co-researcher April 2020-March 2023

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Novel cell therapies for pulmonary hypertension and pulmonary ischemia-reperfusion injury. Role: Co-researcher April 2020-March 2023

- National research grant from Japan Agency for Medical Research and Development. Realization of personalized precision medical care and optimized ventricular assist device treatment based on advance prediction of hemorrhagic complication risk for patients with implantable ventricular assist device. Role: PI April 2020-March 2024

- National research grant from the Ministry of Health, Labour and Welfare Ministry of Japan Research Project. Research that contributes to the spread of innovative medical information linkage methods using ICT and the establishment of a wide-area emergency medical system in cardiovascular emergency. Role: Co-researcher April 2020-March 2023

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Quality improvement in cardiovascular surgery: results of surgical quality improvement program using nationwide clinical database and database-driven site visits in Japan. Role: PI April 2019-March 2022

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Regenerative therapy using muse cells for spinal cord ischemia. Role: Co-researcher April 2019-March 2022

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. CABG graft collection by no-touch technique using μ wave. Role: Co-researcher April 2019-March 2022

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Regenerative therapy with Muse cells to promote endothelium of endovascular stents. Role: Co-researcher April 2019-March 2022

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of one-way sustained-delivery film~Aiming for complete suppression of pulmonary vein stenosis~.

Role: Co-researcher April 2019-March 2022

- National Institute of Advanced Industrial Science and Technology. Study of von Willebrand factor (vWF) failure to shear stress. Role: PI April 2019-March 2022
- National research grant from Japan Agency for Medical Research and Development. Research on long-term complications and problems of adult congenital heart disease and how to deal with risk reduction. Role: Co-researcher April 2018-March 2019
- National research grant from Japan Agency for Medical Research and Development. Development of a method for predicting hemorrhagic complications associated with intractable cardiovascular disease with high shear stress. Role: Co-researcher April 2018-March 2019
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Novel therapeutic strategy using Muse cells for aortic dissection. Role: Co-researcher April 2018-March 2021
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Novel adhesion prevention method with PAI-1 inhibitor compound. Role: Co-researcher April 2018-March 2021
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Fluid dynamics basic research for the treatment of dissecting aortic aneurysm with a multi-layered blood flow control stent. Role: Co-researcher April 2018-March 2021
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Evaluation of Safety and Efficacy of Stentless Mitral Valve Replacement for Mitral Valve Stenosis: Multicenter Collaborative study. Role: Co-researcher April 2017-March 2021
- National research grant from Japan Agency for Medical Research and Development. Study on the safety and efficacy of autologous pericardial stentless mitral valve replacement. Role: Co-researcher April 2017-March 2018
- National research grant from Japan Agency for Medical Research and Development. Creation of donor evaluation and management system guidelines for donating brain-dead organs to improve results immediately after organ transplantation. Role: Co-researcher April 2017-March 2018
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Application of novel indole compounds to cardioplegia for hypertrophic myocardial ischemia-reperfusion. Role: Co-researcher April 2017-March 2020
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Search for a new treatment for paraplegia by

spinal fluid oxygenation using nanobubble generation technology.

Role: Co-researcher April 2017-March 2020

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Novel cell therapy for myocarditis.

Role: Co-researcher April 2017-March 2020

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Establishment of an evaluation index of autonomic nervous activity during rest and antihypertensive therapy management in patients with acute aortic dissection. Role: Co-researcher April 2017-March 2020

- Translational Research Acceleration Network. Development of a tailor-made heart support net for patients with severe heart failure. Role: Co-researcher April 2017-March 2020

- National research grant from Japan Agency for Medical Research and Development. Development of management system guideline for donor evaluation of a brain-dead donor. Role: Co-researcher April 2015-March 2018

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of changes over time in autonomic nervous activity in patients undergoing cardiac surgery. Role: Co-researcher April 2016-March 2019

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of a method for estimating the position of an aortic aneurysm using reflected waves from the aortic aneurysm using adaptive signal processing. Role: PI April 2016-March 2019

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of the cause of secondary aortic esophageal fistula and construction of an early diagnosis system. Role: Co-researcher April 2016-March 2019

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of the pathogenic mechanism and search for new treatments using lung biopsy specimens for congenital heart disease-related pulmonary hypertension. Role: PI April 2016-March 2019

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of analysis and prediction method of aortic diameter enlargement of Stanford type B dissection. Role: Co-researcher April 2016-March 2019

- National research grant from the Ministry of Education, Culture, Sport, science and

- Technology of Japan Research Project. Development of continuous pulmonary blood flow measuring device. Role: Co-researcher April 2016-March 2019
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Application of novel indole compounds to cardioplegia for severely incomplete heart after ischemia-reperfusion. Role: Co-researcher April 2016-March 2019
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of the actual condition of acquired von Willebrand's disease in mechanically assisted circulation cases.
Role: Co-researcher April 2015-March 2018
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Application of novel indole compounds to organ protection in the field of cardiovascular surgery. Role: Co-researcher April 2015-March 2018
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of cardiomyocyte intracellular PPAR γ activation system by hANP and application to suppression of myocardial ischemia-reperfusion injury. Role: Co-researcher April 2015-March 2018
 - National research grant from Japan Agency for Medical Research and Development. Development of a minimally invasive aortic aneurysm presence diagnostic device.
Role: PI April 2013-March 2016
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of molecular mechanism in aortic aneurysm formation and new therapeutic strategy using Muse cells.
Role: Co-researcher April 2014-March 2017
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Chronic thromboembolic pulmonary hypertension Establishing surgical indication and prognosis by lung biopsy diagnosis. Role: Co-researcher April 2014-March 2017
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of spinal cord protection method by spinal fluid oxygenation applying nanobubble generation technology for spinal cord ischemia. Role: Co-researcher April 2014-March 2017
 - National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Clarification of involvement between gum disease and aortic aneurysm. Role: PI April 2013-March 2016

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Prediction of aortic dissection rupture by finite element analysis and development of aortic aneurysm rupture index by PET. Role: Co-researcher April 2013-March 2016.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of bioabsorbable drug sustained-release extravasation stent for prevention of venous graft deterioration and stenosis. Role: Co-researcher April 2013-March 2016.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Evaluation of right chamber outflow tract reconstruction using three-dimensional fluid analysis with laser Doppler. Role: Co-researcher April 2013-March 2016.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of application of new laser shock wave liquid jet scalpel in the field of cardiovascular surgery. Role: Co-researcher April 2012-March 2015.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Functional analysis and clinical application of the ubiquitin-proteasome system in the process of renal ischemia-reperfusion injury. Role: Co-researcher April 2012-March 2015.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Experimental study on the inhibitory effect of drug sustained-release film on pulmonary vein stenosis. Role: Co-researcher April 2012-March 2015.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of a fully implantable right heart assist device using artificial myocardium for right heart failure. Role: Co-researcher April 2012-March 2015.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of myocardial ischemia monitoring system using ultrasonic compact hardness sensor. Role: Co-researcher April 2012-March 2015.
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of spinal cord cooling method from inside the thoracic cavity. Role: Co-researcher April 2010-March 2013

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Prediction of thoracic aortic aneurysm rupture using finite element analysis: application to long-term prognosis after stent grafting. Role: Co-researcher April 2010-March 2013
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Research on artificial myocardium using Shape memory alloy. Role: Co-researcher April 2010-March 2013
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Study on clinical application of rapamycin film to coronary artery bypass surgery. Role: Co-researcher April 2010-March 2013
- National research grant from the Ministry of Health, Labor and welfare. Innovation for miniaturized optical fiber pressure sensor. Role: Co-researcher April 2009-March 2014
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Evaluation of long-term outcome after covering coronary artery bypass graft with biodegradable stent. Role: Co-researcher April 2009-March 2011
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Elucidation of mechanism in renal impairment during perioperative period for cardiovascular surgery and establishment of new strategy for renal protection. Role: Co-researcher April 2009-March 2011
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of gene therapy with proteoglycan "decolin" for coronary artery lesions after heart transplantation. Role: Co-researcher April 2009-March 2011
- National research grant from the Ministry of Health, Labor and welfare. Research on creating diagnostic criteria for Costello syndrome / CFC syndrome-related diseases and grasping the number of patients. Co-researcher April 2009-March 2011
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of new system for oxygen saturation analysis in deep solid organs. Role: Co-researcher April 2008-March 2010
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Spinal cord protection by surface cooling. Role: Co-researcher April 2008-March 2010

- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of novel monitoring system for spinal cord ischemia. Role: Co-researcher April 2007-March 2010
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of new mode of administration of vascular growth factor via airway to enhance pulmonary vascular maturation. Role: Co-researcher April 2005-March 2007
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Experimental study to elucidate mechanism of aortic aneurysmal changes due to smoking. Role : PI April 2005-March 2007
- National research grant from the Ministry of Education, Culture, Sport, science and Technology of Japan Research Project. Development of new modality of treatment for acute pulmonary hypertension to prevent postoperative right heart failure Role: Co-researcher April 2005-March 2007

Bibliography

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- Kakuta T, Fukushima S, Minami K, Kawamoto N, Tadokoro N, **Saiki Y**, Fujita T. Incidence of and risk factors for pacemaker implantation after the modified Cryo-Maze procedure for atrial fibrillation. *J Thorac Cardiovasc Surg*, 2021 Dec DOI: 10.1016/j.jtcvs.2021.10.064
- Toyama H, Takei Y, Saito K, Takahashi K, Suzuki T, Oishi H, **Saiki Y**, Okada Y, Ejima Y, Yamauchi M. Venovenous extracorporeal membrane oxygenation during bilateral lung transplantation for a patient with Eisenmenger syndrome complicated with giant pulmonary artery aneurysm, azygos continuation, and central airway obstruction. *J Cardiothorac Vasc Anesth*, 2021 Nov. DOI: 10.1053/j.jvca.2021.11.008
- Naganuma M, Akiyama M, Sasaki K, Maeda K, Ito K, Suzuki T, Katahira S, Suzuki Y, **Saiki Y**. Aortic insufficiency causes symptomatic heart failure during left ventricular

assist device support. *Tohoku J Exp Med*,235(3):229-237, 2021 Nov. DOI: 10.1620/tjem.255.229

- Hosoyama K, Maeda K, **Saiki Y**. What does complete revascularization mean in 2021? - Definitions, implications, and biases. *Curr Opin Cardiol*, 36(6):748-754, 2021 Nov.
- **Saiki Y**. Asymptomatic penetrating aortic ulcer: benign or malignant. *Circulation*, 144(14):1102-1103, 2021 Oct.
- Katahira S, Sugimura Y, Aubin H, Ise H, **Saiki Y**, Lichtenberg Artur, Westenfeld R, Boeken U, Akhyari P. Transplantation after Mustard operation for transposition of the great arteries" in its current form for publication. *Clin Case Rep*, 9(10):e04930, 2021 Oct.
- Naganuma M, Kanda K, Sasaki K, Maeda K, Ito K, Katahira S, **Saiki Y**. New hemostatic technique with combined use of Hydrofit((R)) and Surgicel((R)): an in vitro and in vivo study. *J Artif Organs*, 24(3):358-364, 2021 Sep.
- Kohno H, Matsumiya G, Sawa Y, Fukushima N, **Saiki Y**, Shiose A, Ono M. Can the intermittent low-speed function of left ventricular assist device prevent aortic insufficiency? *J Artif Organs*, 24(2):191-198, 2021 Jun.
- Suzuki H, Morita Y, Saito R, Tatebe S, Niihori T, **Saiki Y**, Yasuda S, Shimokawa H. Detection of intracellular histological abnormalities using cardiac magnetic resonance T1 mapping in patients with Danon disease: a case series. *Eur Heart J Case Rep*, 5(5): ytab145, 2021 May.
- Hayasaka k, Watanabe Y, Hirama T, Oishi H, Noda M, Toyama H, Ejima Y, **Saiki Y**, Okada Y. Successful single lung transplantation for dominant side : A Case report. *Transplant Proc*, 53(4): 1385-1387, 2021 May.
- Cho Y, Wakasa S, Usui A, Minatoya K, Arai H, Yaku H, Yamaguchi A, Komiya T, Matsumiya G, Hamano K, **Saiki Y**, Matsui Y. Non-heart transplant surgical approaches with mitral valve operation and surgical ventricular reconstruction for non-ischaemic dilated cardiomyopathy: a Japanese multicenter study. *Gen Thorac Cardiovasc Surg*, 69(4): 679-689, 2021 Apr.
- Maeda K, Yoshioka I, **Saiki Y**. Emergence of right to left shunt via postmyocardial infarction ventricular septal defect under Impella support. *Artif Organs*, 45(3):316-317, 2021 Mar.
- Committee for Scientific Affairs, The Japanese Association for Thoracic Surgery, Shimizu H, Okada M, Toh Y, Doki Y, Endo S, Fukuda H, Hirata Y, Iwata H, Kobayashi J, Kumamaru H, Miyata H, Motomura N, Natsugoe S, Ozawa S, **Saiki Y**, Saito A, Saji

H, Sato Y, Taketani T, Tanemoto K, Tangoku A, Tatsuishi W, Tsukihara H, Watanabe M, Yamamoto H, Minatoya K, Yokoi K, Okita Y, Tsuchida M, Sawa Y. Thoracic and cardiovascular surgeries in Japan during 2018 : Annual report by the Japanese Association for Thoracic Surgery. *Gen Thorac Cardiovasc Surg*, 69(1):179-212, 2021 Jan.

- Kurosawa K, Takasaki S, Suzuki H, Sato Y, Akiyama M, Akiba M, **Saiki Y**, Mano N. A case of an increase in prothrombin time-international normalized ratio by interaction between warfarin and baloxavir marboxil in a patient on implantable ventricular assist device. *J Pharm Pharm Sci*, 24:37-40, 2121 Jan.
- Enta Y, Tatebe S, **Saiki Y**, Tada N. Atrial septal defect closure via left subclavian vein approach in a patient with absent inferior vena cava. *World J Pediatr Congenit Heart Surg*, 13(1):96-98, 2021 Jan.

[2020]

- Sasaki K, Kumagai K, Maeda K, Akiyama M, Ito K, Matsuo S, Katahira S, Suzuki T, Suzuki Y, Kaiho Y, Sugawara Y, Tsuji I, **Saiki Y**. Preventive effect of low-dose landiolol on postoperative atrial fibrillation study (PELTA study). *Gen Thorac Cardiovasc Surg*. 68(11):1240-1251, 2020 Nov.
- Imamura T, Kinugawa K, Ono M, Fukushima N, Shiose A, Matsui Y, Yamazaki K, **Saiki Y**, Matsumiya G, Arai H, Sawa Y. Bridge-to-bridge left ventricular assist device implantation strategy vs. primary left ventricular assist device implantation strategy. *Circ J*, 84(12):2198-2204, 2020 Nov.
- Kajiwara T, Naitoh T, Suzuki Y, Kohyama A, Karasawa H, Suzuki H, Akiyama M, **Saiki Y**, Watanabe K, Ohnuma S, Kamei T, Unno M. Laparoscopic right hemicolectomy for an ascending colon cancer patient with an implantable left ventricular assist device: a case report. *Surg Case Rep*, 6(1):282, 2020 Nov 9. doi: 10.1186/s40792-020-01064-9.
- Maeda K, Yoshioka I, **Saiki Y**. Emergence of right to left shunt via post-myocardial infarction ventricular septal defect under Impella support. *Artif Organs*. 2020 Oct 20. doi: 10.1111/aor.13824. Online ahead of print.
- Masaki N, Adachi O, Katahira S, Saiki Y, Horii A, Kawamoto S, **Saiki Y**. Progression of vascular remodeling in pulmonary vein obstruction. *J Thorac Cardiovasc Surg*. 160(3):777-790.e775, 2020 Sep.
- Yamamoto J, Endo A, Sugawara H, Izumi T, Takahashi K, Yamamoto S, Akiyama M, Adachi O, Kaneko K, Sawada S, Imai J, **Saiki Y**, Shimokawa H, Katagiri H. Native valve endocarditis due to *Staphylococcus warneri* developing in a patient with type 1

- diabetes. *Intern Med*, 59(18):2269-2274, 2020 Sep.
- Inoue Y, Matsuda H, Uchida K, Komiya T, Koyama T, Yoshino H, Ito T, Shiiya N, **Saiki Y**, Kawaharada N, Nakai M, Iba Y, Minatoya K, Ogino H. Analysis of acute type A aortic dissection in Japan registry of aortic dissection (JRAD). *Ann Thorac Surg*. 110(3):790-798, 2020 Sep.
 - Naganuma M, Saiki Y, Kanda K, Akiyama M, Adachi O, Horii A, **Saiki Y**. Nanobubble technology to treat spinal cord ischemic injury. *J Thorac Cardiovasc Surg*, 3:1-11, 2020 Jul <https://doi.org/10.1016/j.xjon.2020.07.005>
 - Yamamoto H, Miyata H, Tanemoto K, **Saiki Y**, Yokoyama H, Fukuchi E, Motomura N, Ueda Y, Takamoto S. Quality improvement in cardiovascular surgery: results of a surgical quality improvement programme using a nationwide clinical database and database-driven site. visits in Japan. *BMJ Qual Saf*, 29(7):560-568, 2020 Jul.
 - Kakuta R, Nakano R, Yano H, Ozawa D, Ohta N, Matsuoka T, Motoyoshi N, Kawamoto S, **Saiki Y**, Katori Y, Kaku M. First two cases of infected aortic aneurysm caused by non-vaccine *Streptococcus pneumoniae* serotype 23A. *Ann Lab Med*, 40(3):270-273, 2020 May.
 - Mishima E, Ota H, Suzuki T, Toyohara T, Seiji K, Ito S, **Saiki Y**, Takase K, Abe T. Apparent diffusion coefficient in the resolution of renal ischemia after angioplasty on diffusion-weighted imaging: renal artery stenosis caused by progressive thrombosis in residual chronic aortic dissection. *Intern Med*, 59(9):1173-1177, 2020 May.
 - Tsuchiya S, Matsumoto Y, Suzuki H, Takanami K, Kikuchi Y, Takahashi J, Miyata S, Tomita N, Kumagai K, Taki Y, **Saiki Y**, Arai H, Shimokawa H. Transcatheter aortic valve implantation and cognitive function in elderly patients with severe aortic stenosis. *EuroIntervention*, 15(18): e1580-e1587, 2020 Apr.
 - Sakatsume K, Kawatsu S, Adachi O, **Saiki Y**. Intraoperative identification of major blood supply to Adamkiewicz artery after multistep surgeries in thoraco-abdominal aortic aneurysm repair. *Interact Cardiovasc Thorac Surg*,30(4):656-658, 2020 Apr.
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