



Yasuhiro Shudo

Clinical Assistant Professor, Cardiothoracic Surgery

CLINICAL OFFICES

- **Cardiothoracic Surgery**

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Bio

CLINICAL FOCUS

- Cardiovascular Surgery
- Heart Failure
- Heart Transplantation
- Mechanical Circulatory Support
- Extracorporeal Membrane Oxygenation
- Heart-Lung Transplantation
- Lung Transplantation

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Cardiothoracic Surgery

ADMINISTRATIVE APPOINTMENTS

- Clinical Assistant Professor, Cardiothoracic Surgery, (2017- present)

HONORS AND AWARDS

- ISHLT/O.H. Frazier Award in MCS Translational Research, The International Society of Heart & Lung Transplantation (2017)
- Travel Grant, Japan Surgical Society (2016)
- Circulation Top 10 Paper of 2013, Circulation, American Heart Association (2014)
- Research Fellowship, Uehara Memorial Foundation (2014)
- Circulation Journal Award, Japanese Circulation Society (2013)
- Postdoctoral Fellowship, American Heart Association (2012)
- Best Presentation Award, Japanese Society for Cardiovascular Surgery (2011)
- International Fellowship, Sinya Fund (2011)

- Young Investigator Award, American College of Cardiology (2011)
- Young Investigator Award, Japanese Heart Failure Society (2010)
- Young Investigator Award, European Association for Cardio-thoracic Surgery (2009)
- Young Investigator Award, Osaka University (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, The International Society of Heart & Lung Transplantation (2017 - present)
- Board Certified Cardiovascular Surgeon, Japanese Society for Cardiovascular Surgery (2014 - present)
- Board Certified Cardiology, Japanese Circulation Society (2012 - present)
- Member, Japanese College of Cardiology (2011 - present)
- Board Certified Surgeon, Japan Surgical Society (2007 - present)
- Fellowship, F.A.H.A., American Heart Association (2007 - present)
- Member, Japanese Society for Cardiovascular Surgery (2005 - present)
- Member, Japanese Circulation Society (2005 - present)
- Member, Japan Surgical Society (2001 - present)
- Member, Japanese Association for Thoracic Surgery (2001 - present)

PROFESSIONAL EDUCATION

- Board Certification: Cardiovascular Surgery, Japanese Board of Cardiovascular Surgery (2014)
- PhD Training: Osaka University Graduate School of Medicine (2013) Japan
- Clinical Instructor, Stanford University School of Medicine (2015-2016) , CA (2016)
- Post-Doctral Research Fellow, Stanford University School of Medicine (2014-2015) , CA (2014)
- Post-Doctral Research Fellow, University of Pennsylvania School of Medicine (2011-2013) , PA (2013)
- PhD, Osaka University Graduate School of Medicine (2008-2011) , Japan (2011)
- Fellowship: Osaka University Hospital (2008) Japan
- Fellowship: Osaka Rosai Hospital (2007) Japan
- Residency: Osaka Prefectural Hospital (2004) Japan
- Residency: Osaka University Hospital (2002) Japan
- Medical Education: Osaka University Medical School (2001) Japan

LINKS

- Stanford Adult Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-adult-cardiac-surgery>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Publications

PUBLICATIONS

- **Multidisciplinary approach utilizing early, intensive physical rehabilitation to accelerate recovery from veno-venous extracorporeal membrane oxygenation** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Zhu, Y., Bankar, D., Shudo, Y., Woo, Y.
2019; 56 (4): 811–12

- **Heart-lung transplantation with concomitant aortic arch reconstruction for Eisenmenger syndrome and type B interrupted aortic arch.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Wang, H., Shudo, Y., MacArthur, J. W., Woo, Y. J.
2019
- **Cardioaortic replacement for a ruptured root pseudoaneurysm with pulsatile subcutaneous extension** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Wang, H., Shudo, Y., Hittinger, S. A., Woo, Y.
2019; 56 (3): 615–17
- **A modified implantation technique for temporary right ventricular assist device: Enabling ambulation and less invasive decannulation.** *Journal of cardiac surgery*
Rinewalt, D., Shudo, Y., MacArthur, J. W., Woo, Y. J., Hiesinger, W.
2019
- **Comprehensive Analysis of Differential Expressed Genes Related with Myocardial Reverse Remodeling Following HeartWare Ventricular Assist Device Implantation**
Shudo, Y., Jaatinen, K. J., Nishiga, M., Chen, I. Y., Greene, C. L., Koyano, T. K., Fong, R. W., Boyd, J. H., Lee, A. M., Hiesinger, W., Woo, J.
ELSEVIER SCIENCE INC.2019: S244
- **Impact of Concomitant Valvular Surgery on Patients Undergoing LVAD Implantation**
Mulumba, K. Y., Kasinpila, P., Fong, R., Kong, S., Hecker, L., Nissan, R., Banerjee, D., Teuteberg, J., Shudo, Y., Woo, Y., Hiesinger, W.
ELSEVIER SCIENCE INC.2019: S72–S73
- **Comparison of Patients Undergoing Multiorgan Transplantation with or without Prior Ventricular Assist Device**
Currie, M. E., Banerjee, D., Shudo, Y., Lingala, B., Zhu, Y., Haddad, F., Woo, J.
ELSEVIER SCIENCE INC.2019: S216–S217
- **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy Decreases Operative and Cardiopulmonary Bypass Time Compared to Clamshell Thoracotomy**
Shudo, Y., Rinewalt, D., Lingala, B., Kim, F. Y., He, H., Boyd, J. H., Lee, A. M., Hiesinger, W., Currie, M. E., MacArthur, J. W., Woo, J.
ELSEVIER SCIENCE INC.2019: S414
- **Successful Heart-Lung Transplant for a Patient on Continuous-Flow Left Ventricular Assist Device Support Complicated With Amiodarone-Induced Pulmonary Fibrosis** *TRANSPLANTATION PROCEEDINGS*
Currie, M. E., Shudo, Y., Mooney, J., Woo, Y. J.
2019; 51 (2): 593–94
- **Successful Heart-Lung Transplant for a Patient on Continuous-Flow Left Ventricular Assist Device Support Complicated With Amiodarone-Induced Pulmonary Fibrosis.** *Transplantation proceedings*
Currie, M. E., Shudo, Y., Mooney, J., Woo, Y. J.
2019; 51 (2): 593–94
- **Multidisciplinary approach utilizing early, intensive physical rehabilitation to accelerate recovery from veno-venous extracorporeal membrane oxygenation.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Zhu, Y., Bankar, D., Shudo, Y., Woo, Y. J.
2019
- **Successful heart-lung-kidney and domino heart transplantation following veno-venous extracorporeal membrane oxygenation support** *INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY*
Zhu, Y., Shudo, Y., Lee, A. M., Woo, Y.
2019; 28 (2): 316–17
- **Impact of "increased-risk" donor hearts on transplant outcomes: A propensity-matched analysis.** *The Journal of thoracic and cardiovascular surgery*
Shudo, Y., Cohen, J. E., Lingala, B., He, H., Zhu, Y., Woo, Y. J.
2019; 157 (2): 603–10
- **Cardioaortic replacement for a ruptured root pseudoaneurysm with pulsatile subcutaneous extension.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Wang, H., Shudo, Y., Hittinger, S. A., Woo, Y. J.
2019

- **Evaluation of Risk Factors for Heart-Lung Transplant Recipient Outcome: An Analysis of the United Network for Organ Sharing Database.** *Circulation*
Shudo, Y., Wang, H., Lingala, B., He, H., Kim, F. Y., Hiesinger, W., Lee, A. M., Boyd, J. H., Currie, M., Woo, Y. J.
2019; 140 (15): 1261–72
- **Physical therapy in successful venoarterial extracorporeal membrane oxygenation bridge to orthotopic heart transplantation.** *Journal of cardiac surgery*
Rinewalt, D., Shudo, Y., Kawana, M., Woo, Y. J.
2019
- **Successful orthotopic heart transplantation in a patient with Marfan syndrome.** *Journal of cardiac surgery*
Ogawa, Y., Choi, C. W., Shudo, Y., Woo, Y. J.
2019
- **Impact of Donor Obesity on Outcomes After Orthotopic Heart Transplantation** *JOURNAL OF THE AMERICAN HEART ASSOCIATION*
Shudo, Y., Cohen, J. E., Lingala, B., He, H., Woo, Y.
2018; 7 (23)
- **Impact of Donor Obesity on Outcomes After Orthotopic Heart Transplantation.** *Journal of the American Heart Association*
Shudo, Y., Cohen, J. E., Lingala, B., He, H., Woo, Y. J.
2018; 7 (23): e010253
- **Operative Techniques and Pitfalls in Donor Heart-Lung Procurement.** *Transplantation proceedings*
Salna, M., Shudo, Y., Woo, Y. J.
2018; 50 (10): 3111–12
- **Successful Outcome Following Orthotopic Heart Transplantation With a Donor Half Way Across The Country.** *Transplantation proceedings*
Currie, M. E., Shudo, Y., Woo, Y. J.
2018; 50 (10): 4062–63
- **Planned Concomitant Left and Right Ventricular Assist Device Insertion to Avoid Long-term Biventricular Mechanical Support: Bridge to Right Ventricular Recovery.** *The heart surgery forum*
Salna, M., Shudo, Y., Teuteberg, J. J., Banerjee, D., Ha, R. V., Woo, Y. J., Hiesinger, W.
2018; 21 (5): E412–E414
- **Heart-lung transplantation over the past 10 years: an up-to-date concept.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Shudo, Y., Kasinpila, P., Lingala, B., Kim, F. Y., Woo, Y. J.
2018
- **Reply to Dimarakis and Venkateswaran.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Shudo, Y., Wang, H., Woo, Y. J.
2018
- **Successful heart-lung-kidney and domino heart transplantation following veno-venous extracorporeal membrane oxygenation support.** *Interactive cardiovascular and thoracic surgery*
Zhu, Y., Shudo, Y., Lee, A. M., Woo, Y. J.
2018
- **Impact of load variations on systolic function of failed left ventricle under extracorporeal membrane oxygenation assessed by strain and tissue doppler imaging**
Ouazani, N., Shudo, Y., Sallam, K., Lee, A., Boyd, J., Teuteberg, J.
WILEY.2018: 114–15
- **Ambulating femoral venoarterial extracorporeal membrane oxygenation bridge to heart-lung transplant.** *The Journal of thoracic and cardiovascular surgery*
Shudo, Y., Kasinpila, P., Lee, A. M., Rao, V. K., Woo, Y. J.
2018
- **Heart transplant after profoundly extended ambulatory central venoarterial extracorporeal membrane oxygenation.** *The Journal of thoracic and cardiovascular surgery*
Shudo, Y., Wang, H., Ha, R. V., Hayes, A. D., Woo, Y. J.

2018

- **Prolonged veno-arterial extracorporeal life support for cardiac failure.** *The International journal of artificial organs*
Guenther, S. P., Shudo, Y., Hiesinger, W., Banerjee, D.
2018: 391398818777359
- **Gene expression profiling of acute type A aortic dissection combined with in vitro assessment†.** *European journal of cardio-thoracic surgery*
Kimura, N., Futamura, K., Arakawa, M., Okada, N., Emrich, F., Okamura, H., Sato, T., Shudo, Y., Koyano, T. K., Yamaguchi, A., Adachi, H., Matsuda, A., Kawahito, et al
2017
- **Current status of domino heart transplantation.** *Journal of cardiac surgery*
Shudo, Y., Ma, M., Boyd, J. H., Woo, Y. J.
2017; 32 (3): 229-232
- **Adipose tissue-derived multi-lineage progenitor cells improve left ventricular dysfunction in porcine ischemic cardiomyopathy model** *JOURNAL OF HEART AND LUNG TRANSPLANTATION*
Shudo, Y., Miyagawa, S., Ohkura, H., Fukushima, S., Saito, A., Kawaguchi, N., Matsuura, N., Toda, K., Sakaguchi, T., Nishi, H., Yoshikawa, Y., Shimizu, T., Okano, et al
2017; 36 (2): 237-239
- **Successful use of donor lungs after repairing severely injured pulmonary vein of donor lungs.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Shudo, Y., Miller, S. L., Boyd, J. H., Woo, Y. J.
2017
- **An innovative biologic system for photon-powered myocardium in the ischemic heart.** *Science advances*
Cohen, J. E., Goldstone, A. B., Paulsen, M. J., Shudo, Y., Steele, A. N., Edwards, B. B., Patel, J. B., MacArthur, J. W., Hopkins, M. S., Burnett, C. E., Jaatinen, K. J., Thakore, A. D., Farry, et al
2017; 3 (6): e1603078
- **Layered smooth muscle cell-endothelial progenitor cell sheets derived from the bone marrow augment postinfarction ventricular function.** *The Journal of thoracic and cardiovascular surgery*
Shudo, Y., Goldstone, A. B., Cohen, J. E., Patel, J. B., Hopkins, M. S., Steele, A. N., Edwards, B. B., Kawamura, M., Miyagawa, S., Sawa, Y., Woo, Y. J.
2017; 154 (3): 955-63
- **Tissue-engineered smooth muscle cell and endothelial progenitor cell bi-level cell sheets prevent progression of cardiac dysfunction, microvascular dysfunction, and interstitial fibrosis in a rodent model of type 1 diabetes-induced cardiomyopathy.** *Cardiovascular diabetology*
Kawamura, M., Paulsen, M. J., Goldstone, A. B., Shudo, Y., Wang, H., Steele, A. N., Stapleton, L. M., Edwards, B. B., Eskandari, A., Truong, V. N., Jaatinen, K. J., Ingason, A. B., Miyagawa, et al
2017; 16 (1): 142
- **Percutaneous, minimally invasive approach to implantable left ventricular assist device deactivation.** *The Journal of thoracic and cardiovascular surgery*
Kidambi, S., Shudo, Y., Dake, M. D., Woo, Y. J., Ha, R. V.
2017
- **Operative technique and pitfalls in donor heart procurement.** *Asian cardiovascular & thoracic annals*
Shudo, Y., Hiesinger, W., Oyer, P. E., Woo, Y. J.
2017; 25 (1): 80-82
- **A modified explant technique of HeartWare ventricular assist device for bridge to recovery.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Shudo, Y., Choi, C. W., Woo, Y. J., Ha, R. V.
2017
- **A modified technique for orthotopic heart transplantation to minimize warm ischaemic time.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
Shudo, Y., Wang, H., Woo, Y. J.
2017
- **A modified implantation technique of left ventricular assist device: optimal outflow tract positioning.** *International journal of cardiology*
Shudo, Y., Choi, C. W., Woo, Y. J., Ha, R. V.

2016; 223: 776-778

- **Isolation and trans-differentiation of mesenchymal stromal cells into smooth muscle cells: Utility and applicability for cell-sheet engineering.** *Cytotherapy*
Shudo, Y., Cohen, J. E., Goldstone, A. B., MacArthur, J. W., Patel, J., Edwards, B. B., Hopkins, M. S., Steele, A. N., Joubert, L., Miyagawa, S., Sawa, Y., Woo, Y. J.
2016; 18 (4): 510-517
- **A Tissue-Engineered Chondrocyte Cell Sheet Induces Extracellular Matrix Modification to Enhance Ventricular Biomechanics and Attenuate Myocardial Stiffness in Ischemic Cardiomyopathy** *TISSUE ENGINEERING PART A*
Shudo, Y., Cohen, J. E., MacArthur, J. W., Goldstone, A. B., Otsuru, S., Trubelja, A., Patel, J., Edwards, B. B., Hung, G., Fairman, A. S., Brusalis, C., Hiesinger, W., Atluri, et al
2015; 21 (19-20): 2515-2525
- **B-type natriuretic peptide response and reverse left ventricular remodeling after surgical correction of functional mitral regurgitation in patients with advanced cardiomyopathy.** *Journal of cardiology*
Kainuma, S., Taniguchi, K., Toda, K., Shudo, Y., Takeda, K., Funatsu, T., Miyagawa, S., Kondoh, H., Nishi, H., Yoshikawa, Y., Fukushima, S., Hamada, S., Kubo, et al
2015; 66 (4): 279-285
- **Evaluation of late aortic insufficiency with continuous flow left ventricular assist device†.** *European journal of cardio-thoracic surgery*
Hiraoka, A., Cohen, J. E., Shudo, Y., Macarthur, J. W., Howard, J. L., Fairman, A. S., Atluri, P., Kirkpatrick, J. N., Woo, Y. J.
2015; 48 (3): 400-406
- **Non-resectional leaflet remodeling mitral valve repair preserves leaflet mobility: A quantitative echocardiographic analysis of mitral valve configuration** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Shudo, Y., Cohen, J. E., MacArthur, J. W., Goldstone, A. B., Hiraoka, A., Howard, J., Fairman, A. S., Patel, J., Edwards, B. B., Atluri, P., Woo, Y. J.
2015; 186: 16-18
- **Bioengineered Stromal Cell- Derived Factor-1 alpha Analogue Delivered as an Angiogenic Therapy Significantly Restores Viscoelastic Material Properties of Infarcted Cardiac Muscle** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
Trubelja, A., MacArthur, J. W., Sarver, J. J., Cohen, J. E., Hung, G., Shudo, Y., Fairman, A. S., Patel, J., Edwards, B. B., Damrauer, S. M., Hiesinger, W., Atluri, P., Woo, et al
2014; 136 (8)
- **A bioengineered hydrogel system enables targeted and sustained intramyocardial delivery of neuregulin, activating the cardiomyocyte cell cycle and enhancing ventricular function in a murine model of ischemic cardiomyopathy.** *Circulation. Heart failure*
Cohen, J. E., Purcell, B. P., Macarthur, J. W., Mu, A., Shudo, Y., Patel, J. B., Brusalis, C. M., Trubelja, A., Fairman, A. S., Edwards, B. B., Davis, M. S., Hung, G., Hiesinger, et al
2014; 7 (4): 619-626
- **Preclinical evaluation of the engineered stem cell chemokine stromal cell-derived factor 1a analog in a translational ovine myocardial infarction model.** *Circulation research*
Macarthur, J. W., Cohen, J. E., McGarvey, J. R., Shudo, Y., Patel, J. B., Trubelja, A., Fairman, A. S., Edwards, B. B., Hung, G., Hiesinger, W., Goldstone, A. B., Atluri, P., Wilensky, et al
2014; 114 (4): 650-659
- **Addition of Mesenchymal Stem Cells Enhances the Therapeutic Effects of Skeletal Myoblast Cell-Sheet Transplantation in a Rat Ischemic Cardiomyopathy Model** *TISSUE ENGINEERING PART A*
Shudo, Y., Miyagawa, S., Ohkura, H., Fukushima, S., Saito, A., Shiozaki, M., Kawaguchi, N., Matsuura, N., Shimizu, T., Okano, T., Matsuyama, A., Sawa, Y.
2014; 20 (3-4): 728-739
- **Continuous Flow Left Ventricular Assist Device Implant Significantly Improves Pulmonary Hypertension, Right Ventricular Contractility, and Tricuspid Valve Competence** *JOURNAL OF CARDIAC SURGERY*
Atluri, P., Fairman, A. S., MacArthur, J. W., Goldstone, A. B., Cohen, J. E., Howard, J. L., Zalewski, C. M., Shudo, Y., Woo, Y. J.
2013; 28 (6): 770-775
- **Sustained release of engineered stromal cell-derived factor 1-a from injectable hydrogels effectively recruits endothelial progenitor cells and preserves ventricular function after myocardial infarction.** *Circulation*
Macarthur, J. W., Purcell, B. P., Shudo, Y., Cohen, J. E., Fairman, A., Trubelja, A., Patel, J., Hsiao, P., Yang, E., Lloyd, K., Hiesinger, W., Atluri, P., Burdick, et al
2013; 128 (11): S79-86

- **Spatially oriented, temporally sequential smooth muscle cell-endothelial progenitor cell bi-level cell sheet neovascularizes ischemic myocardium.** *Circulation*
Shudo, Y., Cohen, J. E., MacArthur, J. W., Atluri, P., Hsiao, P. F., Yang, E. C., Fairman, A. S., Trubelja, A., Patel, J., Miyagawa, S., Sawa, Y., Woo, Y. J.
2013; 128 (11): S59-68
- **Normalization of postinfarct biomechanics using a novel tissue-engineered angiogenic construct.** *Circulation*
Atluri, P., Trubelja, A., Fairman, A. S., Hsiao, P., MacArthur, J. W., Cohen, J. E., Shudo, Y., Frederick, J. R., Woo, Y. J.
2013; 128 (11): S95-104
- **Predicting Right Ventricular Failure in the Modern, Continuous Flow Left Ventricular Assist Device Era** *59th Annual Meeting of the Southern-Thoracic-Surgical-Association (STSA)*
Atluri, P., Goldstone, A. B., Fairman, A. S., MacArthur, J. W., Shudo, Y., Cohen, J. E., Acker, A. L., Hiesinger, W., Howard, J. L., Acker, M. A., Woo, Y. J.
ELSEVIER SCIENCE INC.2013: 857-64
- **Myocardial Layer-Specific Effect of Myoblast Cell-Sheet Implantation Evaluated by Tissue Strain Imaging** *CIRCULATION JOURNAL*
Shudo, Y., Miyagawa, S., Nakatani, S., Fukushima, S., Sakaguchi, T., Saito, A., Asanuma, T., Kawaguchi, N., Matsuura, N., Shimizu, T., Okano, T., Sawa, Y.
2013; 77 (4): 1063-1072
- **Mathematically engineered stromal cell-derived factor-1 alpha stem cell cytokine analog enhances mechanical properties of infarcted myocardium** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
MacArthur, J. W., Trubelja, A., Shudo, Y., Hsiao, P., Fairman, A. S., Yang, E., Hiesinger, W., Sarver, J. J., Atluri, P., Woo, Y. J.
2013; 145 (1): 278-284
- **Mitral Valve Repair for Medically Refractory Functional Mitral Regurgitation in Patients With End-Stage Renal Disease and Advanced Heart Failure** *CIRCULATION*
Kainuma, S., Taniguchi, K., Daimon, T., Sakaguchi, T., Funatsu, T., Miyagawa, S., Kondoh, H., Takeda, K., Shudo, Y., Masai, T., Ohishi, M., Sawa, Y.
2012; 126 (11): S205-S213
- **Serial multidetector computed tomography assessment of left ventricular reverse remodeling, mass, and regional wall stress after restrictive mitral annuloplasty in dilated cardiomyopathy** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Shudo, Y., Taniguchi, K., Takeda, K., Sakaguchi, T., Funatsu, T., Kondoh, H., Sawa, Y.
2012; 143 (4): S43-S47
- **Left Ventricular Mechanics Following Restrictive Mitral Annuloplasty for Functional Mitral Regurgitation: Two-Dimensional Speckle Tracking Echocardiographic Study** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*
Shudo, Y., Nakatani, S., Sakaguchi, T., Miyagawa, S., Yoshikawa, Y., Takeda, K., Saito, S., Takeda, Y., Sakata, Y., Yamamoto, K., Sawa, Y.
2012; 29 (4): 445-450
- **The extent of early left ventricular reverse remodelling is related to midterm outcomes after restrictive mitral annuloplasty in patients with non-ischaemic dilated cardiomyopathy and functional mitral regurgitation** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Takeda, K., Sakaguchi, T., Miyagawa, S., Shudo, Y., Kainuma, S., Masai, T., Taniguchi, K., Sawa, Y.
2012; 41 (3): 506-511
- **Novel regenerative therapy using cell-sheet covered with omentum flap delivers a huge number of cells in a porcine myocardial infarction model** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
Shudo, Y., Miyagawa, S., Fukushima, S., Saito, A., Shimizu, T., Okano, T., Sawa, Y.
2011; 142 (5): 1188-1196
- **Establishing New Porcine Ischemic Cardiomyopathy Model by Transcatheter Ischemia-Reperfusion of the Entire Left Coronary Artery System for Preclinical Experimental Studies** *TRANSPLANTATION*
Shudo, Y., Miyagawa, S., Fukushima, S., Saito, A., Kawaguchi, N., Matsuura, N., Sawa, Y.
2011; 92 (7): E34-E35
- **Does Stringent Restrictive Annuloplasty for Functional Mitral Regurgitation Cause Functional Mitral Stenosis and Pulmonary Hypertension?** *CIRCULATION*
Kainuma, S., Taniguchi, K., Daimon, T., Sakaguchi, T., Funatsu, T., Kondoh, H., Miyagawa, S., Takeda, K., Shudo, Y., Masai, T., Fujita, S., Nishino, M., Sawa, et al
2011; 124 (11): S97-S106
- **Restrictive Mitral Annuloplasty With or Without Surgical Ventricular Restoration in Ischemic Dilated Cardiomyopathy With Severe Mitral Regurgitation** *CIRCULATION*

- Shudo, Y., Taniguchi, K., Takeda, K., Sakaguchi, T., Funatsu, T., Matsue, H., Miyagawa, S., Kondoh, H., Kainuma, S., Kubo, K., Hamada, S., Izutani, H., Sawa, et al
2011; 124 (11): S107-S114
- **Novel software package for quantifying local circumferential myocardial stress** *INTERNATIONAL JOURNAL OF CARDIOLOGY*
Shudo, Y., Matsumiya, G., Takeda, K., Matsue, H., Taniguchi, K., Sawa, Y.
2011; 147 (1): 134-136
 - **Resection of advanced stage malignant retroperitoneal neoplasms with tumor thrombus extending into the right atrium: Report of four cases** *SURGERY TODAY*
Shudo, Y., Matsumiya, G., Sakaguchi, T., Fujita, T., Yamauchi, T., Sawa, Y.
2011; 41 (2): 262-265
 - **Assessment of Changes in Mitral Valve Configuration With Multidetector Computed Tomography Impact of Papillary Muscle Imbrication and Ring Annuloplasty** *CIRCULATION*
Shudo, Y., Matsumiya, G., Sakaguchi, T., Miyagawa, S., Yoshikawa, Y., Yamauchi, T., Takeda, K., Saito, S., Nakatani, S., Taniguchi, K., Izutani, H., Sawa, Y.
2010; 122 (11): S29-S36
 - **Mechanism of Beneficial Effects of Restrictive Mitral Annuloplasty in Patients With Dilated Cardiomyopathy and Functional Mitral Regurgitation** *CIRCULATION*
Takeda, K., Taniguchi, K., Shudo, Y., Kainuma, S., Hamada, S., Matsue, H., Matsumiya, G., Sawa, Y.
2010; 122 (11): S3-S9
 - **A Simplified Echocardiographic Measurements of Direct Effects of Restrictive Annuloplasty on Mitral Valve Geometry** *ECHOCARDIOGRAPHY-A JOURNAL OF CARDIOVASCULAR ULTRASOUND AND ALLIED TECHNIQUES*
Shudo, Y., Matsue, H., Toda, K., Hata, H., Fujita, S., Taniguchi, K., Sawa, Y.
2010; 27 (8): 931-936
 - **Impact of surgical ventricular reconstruction for ischemic dilated cardiomyopathy on restrictive filling pattern.** *General thoracic and cardiovascular surgery*
Shudo, Y., Matsumiya, G., Sakaguchi, T., Miyagawa, S., Yamauchi, T., Takeda, K., Saito, S., Taniguchi, K., Sawa, Y.
2010; 58 (8): 399-404
 - **Assessment of regional myocardial wall stress before and after surgical correction of functional ischaemic mitral regurgitation using multidetector computed tomography and novel software system** *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*
Shudo, Y., Taniguchi, K., Takeda, K., Sakaguchi, T., Matsue, H., Izutani, H., Matsumiya, G., Sawa, Y.
2010; 38 (2): 163-169
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