Stanford

Joseph Woo, MD, FACS, FACC, FAHA

Norman E. Shumway Professor, Professor of Cardiothoracic Surgery and, by courtesy, of Bioengineering

CLINICAL OFFICE (PRIMARY)

- **Dept of Cardiothoracic Surgery**

  300 Pasteur Dr

  Falk Bldg CVRB

  Stanford, CA 94305

  Tel (650) 497-6757 **Fax** (650) 736-0901

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Maggie Pickford and Luke Abbaszadeh - Executive Assistants

  Email mpick4d@stanford.edu , labbasza@stanford.edu

  Tel (650) 723-8795, (650) 725-3828

Bio

BIO

Dr. Woo is a nationally recognized surgeon, innovator, researcher, and educator in cardiothoracic surgery.

He chairs the Stanford Health Cardiothoracic Surgery Department. He is the Norman E. Shumway Professor of Cardiothoracic Surgery and holds a courtesy appointment in the Department of Bioengineering.

Dr. Woo is a board-certified, fellowship-trained heart surgeon with an active clinical practice of more than 300 pump cases per year. He focuses on complex mitral and aortic valve repair, thoracic aortic surgery, cardiopulmonary transplantation, and minimally invasive surgery.

He has advanced these fields by developing innovative surgical procedures. He serves as principal investigator on two studies funded by National Institutes of Health (NIH) grants. One explores stem cells, angiogenesis, tissue engineering, and valvular biomechanics. Dr. Woo has received NIH funding for this study continuously since 2004.

He has served as primary investigator for clinical device trials. He also has been the primary investigator for translational scientific clinical trials entailing administration of stem cells during coronary artery bypass grafting and left ventricular arterial device (LVAD) implantation.

Dr. Woo has co-authored more than 400 articles in peer-reviewed publications.
Dr. Woo serves on the board of directors of the American Association for Thoracic Surgery (AATS). He is the president of the AATS Cardiac Surgery Biology Club. He is a fellow of the American College of Surgeons, American College of Cardiology, and American Heart Association. He serves on the leadership committee of the American Heart Association’s Council on Cardiovascular Surgery and Anesthesia.

He is a member of the Society of Thoracic Surgeons, International Society for Minimally Invasive Cardiac Surgery, International Society for Heart & Lung Transplantation, International Society for Heart Research, and other professional societies.

CLINICAL FOCUS

- Mitral Valve Repair
- Aortic Valve Repair
- Complex Valve Repair Surgery
- Minimally Invasive Surgery
- Aortic Aneurysm
- Valve Replacement Surgery
- Heart Failure
- Ventricular Assist Device
- Heart Transplantation
- Lung Transplantation
- Heart-Lung Transplantation
- Coronary Artery Bypass
- Coronary Artery Bypass, Off-Pump
- Robotics
- Reoperative Cardiac Surgery
- Clinical Device Trials
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Professor, Cardiothoracic Surgery
- Professor (By courtesy), Bioengineering
- Member, Bio-X
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Chair, Department of Cardiothoracic Surgery, Stanford University School of Medicine, (2014- present)
- Director, Stanford Healthcare Board, (2019-2022)
- Associate Director, Stanford Cardiovascular Institute, CT Surgery, (2014- present)
- Member, Executive Committee, Stanford University School of Medicine, (2014- present)
- Attending Cardiothoracic Surgeon, Stanford Hospital and Clinics, (2014- present)
- Attending Cardiothoracic Surgeon, Lucille Packard Children’s Hospital, (2014- present)

HONORS AND AWARDS

- 2018 Top Ten Clinical Research in USA Award, Clinical Research Forum (2018)
- Top Doctors, San Francisco Magazine (2015,2016,2017,2018)
- Surgical Mentorship Teaching Award, Department of Surgery, University of Pennsylvania (2013)
- Luigi Mastroianni Clinical Innovator Award, University of Pennsylvania (2012)
- Top Doctors of Philadelphia Region, Philadelphia Magazine (2009, 2010, 2011, 2012, 2013)

- Class of 2012 Teaching Award, Penn Medicine (2009)
- 10 Philadelphia Medical Researchers to Watch for 2005, Philadelphia Inquirer (2005)
- 21 Up and Coming Leaders of Philadelphia Award Winner, Philadelphia Magazine (2003)
- 40 under Forty Award Winner, Philadelphia Business Journal (2003)
- Leonard J. Perloff Chief Resident Teaching Award (as determined by fellow residents), Department of Surgery, University of Pennsylvania (1999)
- Resident Prize First Place, Pennsylvania Association of Thoracic Surgery (1997)
- Surgical Scholar Award (Scoring 99th percentile on American Board of Surgery In-Service Exam), Department of Surgery, University of Pennsylvania (1997)
- Vivien Thomas Young Investigator Award Winner, American Heart Association (1997)
- William Y. Inouye Teaching Award (Top resident teacher as determined by medical students), Department of Surgery, University of Pennsylvania (1997)
- Penn Pearls Teaching Award (Teaching excellence, as determined by medical students), University of Pennsylvania (1995)
- I. S. Ravdin Prize (Top student in surgery), Department of Surgery, University of Pennsylvania (1992)
- Alpha Omega Alpha, University of Pennsylvania (1991)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Scientific Affairs and Government Relations Committee, American Association for Thoracic Surgery (2018 - present)
- Associate Editor, Journal of Thoracic and Cardiovascular Surgery (2015 - present)
- Chair, Leadership Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2013 - present)
- Co-Director, American Association for Thoracic Surgery/NIH Grant Workshop (2013 - 2013)
- Co-Chair, Research Scholarship Committee, American Association for Thoracic Surgery (2012 - 2014)
- Member, Scientific Publishing Committee, American Heart Association (2012 - 2014)
- Chair, Publications Committee, Society of University Surgeons (2012 - 2013)
- Member, Society of Thoracic Surgeons Workforce for Research Development Taskforce on Grant Procurement (2011 - present)
- Vice-Chair, Leadership Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2011 - 2013)
- Member, Publications Committee, Association for Academic Surgery (2011 - 2012)
- Co-Director, American Association for Thoracic Surgery/NIH Grant Workshop (2011 - 2011)
- Member, Society of Clinical Surgery (2010 - present)
- Member, Research Scholarship Committee, American Association for Thoracic Surgery (2010 - 2014)
- Chair, Scientific Sessions Program Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2010 - 2012)
- Liaison, Leadership Committee, Council on Functional Genomics and Translational Biology, American Heart Association (2010 - 2012)
- Member, Cardiac Surgery Biology Club (2009 - present)
- Member, Program Committee, American College of Cardiology Annual Scientific Session (2009 - 2011)
- Member, American Association for Thoracic Surgery (2007 - present)
- Member, Scientific Affairs and Government Relations Committee, American Association for Thoracic Surgery (2007 - present)
- Member, Research Committee, Thoracic Surgery Foundation for Research and Education (2007 - 2013)
- Vice-Chair, Scientific Sessions Program Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2007 - 2009)
- Fellowship, F.A.H.A. (2006 - present)
- Member, Scientific Sessions Program Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2006 - 2007)
- Member, Asian Society for Cardiovascular Surgery (2005 - present)
- Member, Society of University Surgeons (2005 - present)
- Fellowship, F.A.C.C. (2004 - present)

- Fellowship, F.A.C.S. (2004 - present)
- Member, Leadership Committee, Council on Cardiovascular Surgery and Anesthesia, American Heart Association (2004 - present)
- Member, College of Physicians of Philadelphia (2003 - present)
- Member, International Society for Minimally Invasive Cardiac Surgery (2002 - present)
- Member, International Society for Heart Research (2002 - present)
- Member, International Society for Heart & Lung Transplantation (2002 - present)
- Member, Society of Thoracic Surgeons (2002 - present)
- Member, Association for Academic Surgery (2002 - present)
- Member, American Heart Association, Council for Cardiothoracic and Vascular Surgery (2002 - present)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2002)
- Internship: Hospital of the University of Pennsylvania Dept of Anesthesia (1993) PA
- Fellow, University of Pennsylvania , Cardiothoracic Surgery (2001)
- Board Certification: General Surgery, American Board of Surgery (2000)
- Resident, University of Pennsylvania , Cardiothoracic Surgery (2001)
- Chief Resident, University of Pennsylvania , Surgery (1999)
- Resident, University of Pennsylvania , Surgery (1998)
- Post-Doctoral Research Fellow, University of Pennsylvania (1997)
- MD, University of Pennsylvania School of Medicine (1992)
- BS, Massachusetts Institute of Technology (1988)

PATENTS

- Y. Joseph Woo, Pavan Atluri. "United States Patent 61/568,866 (Provisional Application Filed) Ventricular Assist Device Sleeve Adapter", Dec 9, 2011
- Y. Joseph Woo, Howard C. Herrmann. "United States Patent 10/591,963 Device for Facilitating Antegrade Cardioplegia delivery in Patients with Aortic Insufficiency", Apr 19, 2011

LINKS

- 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
- Stanford Advanced Therapeutics for Heart Failure Research Laboratory: http://med.stanford.edu/woolab.html
- Follow us on Twitter: https://twitter.com/StanfordCTSurg

Research & Scholarship

CLINICAL TRIALS

- Anticoagulation for New-Onset Post-Operative Atrial Fibrillation After CABG, Not Recruiting
- Emergency Ventilator Splitting Between Two or More Patients (COVID-19), Not Recruiting
- Evaluating the Benefit of Concurrent Tricuspid Valve Repair During Mitral Surgery, Not Recruiting
- Safety & Efficacy of Intramyocardial Injection of Mesenchymal Precursor Cells on Myocardial Function in LVAD Recipients, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Basil Baccouche, Danielle Mullis, Brandon Wesley

Postdoctoral Faculty Sponsor

Reid Dale, Koji Kawago, Yujiro Kawai

Publications

PUBLICATIONS

- **3D Imaging Reveals Complex Microvascular Remodeling in the Right Ventricle in Pulmonary Hypertension.** *Circulation research*
  Ichimura, K., Boehm, M., Andruska, A. M., Zhang, F., Schimmel, K., Bonham, S., Kabiri, A., Kheyfets, V. O., Ichimura, S., Reddy, S., Mao, Y., Zhang, T., Wang, et al
  2024
- **Structural, angiogenic, and immune responses influencing myocardial regeneration: a glimpse into the crucible.** *NPJ Regenerative medicine*
  Baccouche, B. M., Elde, S., Wang, H., Woo, Y. J.
  2024; 9 (1): 18
- **Mortality and morbidity after combined heart and liver transplantation in the failing Fontan: An updated dual center retrospective study.** *Clinical transplantation*
  Vaikunth, S. S., Ortega-Legaspi, J. M., Conrad, D. R., Chen, S., Daugherty, T., Haeffele, C. L., Teuteberg, J., Mclean, R., MacArthur, J. W., Woo, Y. J., Maeda, K., Ma, M., Nasirov, et al
  2024; 38 (4): e15302
- **Large Animal Translational Validation of 3 Mitral Valve Repair Operations for Mitral Regurgitation Using a Mitral Valve Prolapse Model: A Comprehensive In Vivo Biomechanical Engineering Analysis.** *Circulation. Cardiovascular interventions*
  Zhu, Y., Yajima, S., Park, M. H., Venkatesh, A., Stark, C. J., Tran, N. A., Walsh, S. K., Ethiraj, S., Wilkerson, R. J., Lin, L. E., Lee, S. H., Gates, K. Y., Arthur, et al
  2024; 17 (4): e013196
- **Stromal cell-derived factor-1 alpha improves cardiac function in a novel diet-induced coronary atherosclerosis model, the SR-B1#CT/LDLR KO mouse.** *Atherosclerosis*
  Mullis, D. M., Padilla-Lopez, A., Wang, H., Zhu, Y., Elde, S., Bonham, S. A., Yajima, S., Kocher, O. N., Krieger, M., Woo, Y. J.
  2024: 117518
- **Beating Heart Transplant Procedures Using Organs From Donors With Circulatory Death.** *JAMA network open*
  Krishnan, A., Ruaengsri, C., Guenthart, B. A., Shudo, Y., Wang, H., Ma, M. R., MacArthur, J. W., Hiesinger, W., Woo, Y. J.
  2024; 7 (3): e241828
- **Four Decades of Progress in Heart-Lung Transplantation: 271 Cases at a Single Institution.** *The Journal of thoracic and cardiovascular surgery*
  Elde, S., Baccouche, B. M., Mullis, D. M., Leipzig, M. M., Deuse, T., Krishnan, A., Fawad, M., Dale, R., Walsh, S., Padilla-Lopez, A., Wesley, B., He, H., Yajima, et al
  2024
- **Redo aortic valve replacement for an incorrectly sized rapid deployment valve.** *JTCVS techniques*
  Zhu, Y., Wang, H., Kim, J. B., Woo, Y. J.
  2024; 23: 18-20
- **Midterm outcomes of aortic valve replacement using a rapid-deployment valve for aortic stenosis: TRANSFORM trial.** *JTCVS open*
  Malaisrie, S. C., Mumtaz, M. A., Barnhart, G. R., Chitwood, R., Ryan, W. H., Accola, K. D., Patel, H. J., Woo, Y. J., Dewey, T. M., Koulogiannis, K., Dorsey, M. P., Grossi, E. A.
  2024; 17: 55-63
- **Beating Heart Transplantation: How to Do It.** *Innovations (Philadelphia, Pa.)*

Krishnan, A., Guenthart, B. A., Ruengesri, C., Elde, S., Zhu, Y., MacArthur, J. W., Woo, Y. J.
2024: 15569845231220678

- **Biomechanical engineering analysis of neochordae length's impact on chordal forces in mitral repair.** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
  Zhu, Y., Lee, S. H., Venkatesh, A., Wu, C. A., Stark, C. J., Ethiraj, S., Lee, J. J., Park, M. H., Yajima, S., Woo, Y. J.
  2024

- **A 3D-Printed Externally Adjustable Symmetrically Extensible (EASE) Aortic Annuloplasty Ring for Root Repair and Aortic Valve Regurgitation.** *Cardiovascular engineering and technology*
  Zhu, Y., Park, M. H., Wilkerson, R. J., Joo, H. C., Pandya, P. K., Woo, Y. J.
  2024

- **Neochords: How long, how many, too many?** *JTCVS techniques*
  Elde, S., Woo, Y. J.
  2023; 22: 59-64

- **Diversifying cardiac intensive care unit models: Successful example of an operating surgeon-led unit.** *JTCVS open*
  Choi, P. S., Pines, K. C., Swaminathan, A., Nilkant, R., Mendez, M. A., He, H., Woo, Y. J., Martin, B.
  2023; 16: 524-531

- **Discussion to: Contemporary surgical techniques for mitral valve replacement in extensive mitral annular calcification** *JTCVS TECHNIQUES*
  El-Eshmawi, A., Woo, J.
  2023; 22: 13-15

- **Electrophysiological mapping of the epicardium via 3D-printed flexible arrays.** *Bioengineering & translational medicine*
  Pong, T., Cyr, K. J., Carlton, C., Aparicio-Valenzuela, J., Wang, H., Babakhanian, M., Maiuolo, A., Lucian, H., Wang, P. J., Woo, Y. J., Lee, A. M.
  2023; 8 (6): e10575

- **Sex Differences in Patients With 3-Vessel Coronary Artery Disease Undergoing FFR-Guided PCI or CABG: A Prespecified Analysis of the FAME 3 Trial**
  Takahashi, K., Otsuki, H., Zimmermann, F., Ding, V., Oldroyd, K., Wendler, O., Reardon, M., Woo, J., Yeung, A., Fearon, W.
  ELSEVIER SCIENCE INC.2023: B136

- **Outcomes Based on Angiographic vs Functional Significance of Complex 3-Vessel Coronary Disease: FAME 3 Trial.** *JACC. Cardiovascular interventions*
  Kobayashi, Y., Takahashi, T., Zimmermann, F. M., Otsuki, H., El Farissi, M., Oldroyd, K. G., Wendler, O., Reardon, M. J., Woo, Y. J., Yeung, A. C., De Bruyne, B., Pijls, N. H., Fearon, et al
  2023; 16 (17): 2112-2119

- **Chordal force profile after neochordal repair of anterior mitral valve prolapse: An ex vivo study.** *JTCVS open*
  Yajima, S., Zhu, Y., Stark, C. J., Wilkerson, R. J., Park, M. H., Stefan, E., Woo, Y. J.
  2023; 15: 164-172

- **Discussion to: Neochordal Goldilocks: Analyzing the biomechanics of neochord length on papillary muscle forces suggests higher tolerance to shorter neochordae.** *The Journal of thoracic and cardiovascular surgery*
  Park, M. H., Casselman, F., Joseph Woo, Y.
  2023

- **Fractional Flow Reserve-Guided PCI or Coronary Bypass Surgery for 3-Vessel Coronary Artery Disease: 3-Year Follow-Up of the FAME 3 Trial.** *Circulation*
  Zimmermann, F. M., Ding, V. Y., Pijls, N. H., Piroth, Z., van Straten, A. H., Szekely, L., Davidavicius, G., Kalinauskas, G., Mansour, S., Kharbanda, R., Östlund-Papadogeorgos, N., Aminian, A., Oldroyd, et al
  2023

- **Perspectives on the 2022 Joint Guidelines on the Diagnosis and Management of Aortic Disease.** *The Journal of thoracic and cardiovascular surgery*
  Hui, D. S., Chen, E. P., DeAnda, A., Girardi, L. N., Kim, K. M., Woo, Y. J., Tseng, E. E., Preventza, O.
  2023

- **An analytical, mathematical annuloplasty ring curvature model for planning of valve-in-ring transcatheter mitral valve replacement.** *JTCVS techniques*
  Park, M. H., Marin-Cuartas, M., Sellke, M., Pandya, P. K., Zhu, Y., Wilkerson, R. J., Holzhey, D. M., Borger, M. A., Woo, Y. J.
  2023; 20: 45-54

- **Blood transfusion in cardiac surgeries - Toward a personalized protocol.** *American journal of surgery*
  Min, Y., Dalal, A. R., Pedroza, A. J., Pham, T. D., Panigrahi, A. K., Goldstone, A. B., MacArthur, J. W., Woo, Y. J., Baiocchi, M., Fischbein, M. P.
  2023
- **Biomechanics and clinical outcomes of various conduit configurations in valve sparing aortic root replacement.** *Annals of cardiothoracic surgery*
  Zhu, Y., Park, M. H., Pandya, P. K., Stark, C. J., Mullis, D. M., Walsh, S. K., Kim, J. Y., Wu, C. A., Baccouche, B. M., Lee, S. H., Baraka, A. S., Joo, H., Yajima, et al
  2023; 12 (4): 326-337
- **Early clinical outcomes and molecular smooth muscle cell phenotyping using a prophylactic aortic arch replacement strategy in Loeys-Dietz syndrome.** *The Journal of thoracic and cardiovascular surgery*
  Pedroza, A. J., Cheng, P., Dalal, A. R., Baeumler, K., Kino, A., Tognozzi, E., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Hiesinger, W., MacFarlane, E. G., Fleischmann, et al
  2023
- **Successful Heart Transplants from Over 2,000 Miles Away.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Weininger, G., Choi, A. Y., Joseph Woo, Y., MacArthur, J. W.
  2023
- **Electrophysiological mapping of the epicardium via 3D-printed flexible arrays** *BIOENGINEERING & TRANSLATIONAL MEDICINE*
  Pong, T., Cyr, K. J., Carlton, C., Aparicio-Valenzuela, J., Wang, H., Babakhanian, M., Maiuolo, A., Lucian, H., Wang, P. J., Woo, Y., Lee, A. M.
  2023
- **Advances in 3D Bioprinting: Techniques, Applications, and Future Directions for Cardiac Tissue Engineering.** *Bioengineering (Basel, Switzerland)*
  Wu, C. A., Zhu, Y., Woo, Y. J.
  2023; 10 (7)
- **Outcomes of Patients Undergoing Combined Heart-Kidney Transplantation With or Without Prior Ventricular Assist Device.** *Transplantation proceedings*
  Currie, M., Leipzig, M., Kaghazchi, A., Zhu, Y., Shudo, Y., Woo, Y. J.
  2023
- **Dedifferentiation and Proliferation of Artery Endothelial Cells Drive Coronary Collateral Development in Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
  Arolkar, G., Krishna Kumar, S., Wang, H., Gonzalez, K. M., Kumar, S., Bishnoi, B., Rios Coronado, P. E., Woo, Y. J., Red-Horse, K., Das, S.
  2023
- **First-in-human beating-heart transplant.** *JTCVS techniques*
  Krishnan, A., Kasinpila, P., Wang, H., Ruaengsri, C., Shudo, Y., Jackson, E., Woo, Y. J.
  2023; 19: 80-85
- **Biomechanical analysis of novel leaflet geometries for bioprosthetic valves.** *JTCVS open*
  Pandya, P. K., Park, M. H., Zhu, Y., Woo, Y. J.
  2023; 14: 77-86
- **American one-cut ascending and aortic root resection technique.** *JTCVS techniques*
  Zhu, Y., Paulsen, M. J., Woo, Y. J.
  2023; 19: 10-11
- **Neochordal Goldilocks: Analyzing the Biomechanics of Neochord Length on Papillary Muscle Forces Suggests Higher Tolerance to Shorter Neochordae.** *The Journal of thoracic and cardiovascular surgery*
  Park, M. H., van Kampen, A., Zhu, Y., Melnitchouk, S., Levine, R. A., Borger, M. A., Woo, Y. J.
  2023
- **Response to: Correspondence on "Has personalised surgery made another advancement in aortic root surgery?" by Zhu and Woo.** *Heart (British Cardiac Society)*
  Zhu, Y., Woo, J.
  2023
- **Remodeling valve-sparing pulmonary root replacement repair of giant pulmonary artery aneurysm.** *JTCVS techniques*
  Paulsen, M. J., Aranda-Michel, E. C., Berry, G. J., Woo, Y. J.

2023; 18: 60-62

- **The 170°/190° commissure positioning technique for bicuspid aortic valve repair using valve-sparing aortic root replacement.** *JTCVS techniques*
  Zhu, Y., Woo, Y. J.
  2023; 18: 37-39

- **Ex Vivo Modeling of Atrioventricular Valve Mechanics in Single Ventricle Physiology.** *Annals of biomedical engineering*
  Moye, S. C., Kidambi, S., Lee, J. Y., Cowles, T. H., Gilligan-Steinberg, S. D., Bryan, A. Y., Wilkerson, R., Woo, Y. J., Ma, M. R.
  2023

- **Microfluidic encapsulation of photosynthetic cyanobacteria in hydrogel microparticles augments oxygen delivery to rescue ischemic myocardium.** *Journal of bioscience and bioengineering*
  Stapleton, L. M., Farry, J. M., Zhu, Y., Lucian, H. J., Wang, H., Paulsen, M. J., Totherow, K. P., Roth, G. A., Brower, K. K., Fordyce, P. M., Appel, E. A., Woo, Y. J.
  2023

- **Has personalised surgery made another advancement in aortic root surgery?** *Heart (British Cardiac Society)*
  Zhu, Y., Woo, J.
  2023

- **Blood transfusion in aortic root surgery impairs midterm survival.** *JTCVS open*
  Dalal, A. R., Pedroza, A. J., Krishnan, A., Min, Y., Tognozzi, E., Yokoyama, N., Nakamura, K., Mitchel, O. R., Baiocchi, M., Woo, Y. J., MacArthur, J. W., Fischbein, M. P.
  2023; 13: 9-19

- **Outcomes after concomitant arch replacement at the time of aortic root surgery.** *JTCVS open*
  Krishnan, A., Dalal, A. R., Pedroza, A. J., Nakamura, K., Yokoyama, N., Tognozzi, E., Woo, Y. J., Fischbein, M., MacArthur, J. W.
  2023; 13: 1-8

- **Trimmed central venous catheters do not increase endothelial injury in an ovine model.** *The journal of vascular access*
  Wang, H., Williams, K. M., Elde, S., Bulterys, P. L., Thakore, A. D., Lucian, H. J., Farry, J. M., Mullis, D. M., Zhu, Y., Paulsen, M. J., Woo, Y. J.
  2023: 11297298231153716

- **Outcomes of Reoperative Aortic Root Replacement After Previous Acute Type A Dissection Repair.** *Seminars in thoracic and cardiovascular surgery*
  Pedroza, A. J., Dalal, A. R., Krishnan, A., Yokoyama, N., Nakamura, K., Tognozzi, E., Woo, Y. J., Macarthur, J. W., Fischbein, M. P.
  2023

- **Beating heart pulmonary autograft harvest and modified inclusion technique with anti-commissural plication for the Ross procedure.** *JTCVS techniques*
  Zhu, Y., Wang, H., Woo, Y. J.
  2023; 17: 52-55

- **Optimization of FRESH Microspheres for Substantially Improved 3D Bioprinting Capabilities.** *Tissue engineering. Part C, Methods*
  Wu, C. A., Zhu, Y., Venkatesh, A., Stark, C. J., Lee, S. H., Woo, Y. J.
  2023

- **A newer era of heart-lung transplantation?** *European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery*
  Williams, K. M., Woo, Y. J.
  2023

- **Revised Heart Allocation Policy Improved Waitlist Mortality and Waiting Time With Maintained Outcomes in En-Bloc Heart-Lung Transplant Candidates and Recipients.** *Transplant international : official journal of the European Society for Organ Transplantation*
  Shudo, Y., He, H., Elde, S., Woo, Y. J.
  2023; 36: 11956

- **Midterm Outcomes in Type A Aortic Dissection Repair with and without Malperfusion in a Hybrid Operating Room.** *Seminars in thoracic and cardiovascular surgery*
  Dalal, A. R., Dossabhoy, S., Heng, E., Yasin, A., Leipzig, M. M., Bonham, S. A., Fischbein, M. P., Lee, J. T., Woo, Y. J., Watkins, A. C.
  2022

- **Surgical management of severe mitral annular calcification.** *Asian cardiovascular & thoracic annals*

Elde, S., Zhu, Y., MacArthur, J. W., Woo, Y. J.
2022: 2184923221136935

- **Three-Dimensional Bioprinting with Alginate by Freeform Reversible Embedding of Suspended Hydrogels with Tunable Physical Properties and Cell Proliferation.** *Bioengineering (Basel, Switzerland)*
  Zhu, Y., Stark, C. J., Madira, S., Ethiraj, S., Venkatesh, A., Anilkumar, S., Jung, J., Lee, S., Wu, C. A., Walsh, S. K., Stankovich, G. A., Woo, Y. J.
  2022; 9 (12)

- **Outcomes of Heart Transplantation Using a Temperature-controlled Hypothermic Storage System.** *Transplantation*
  Zhu, Y., Shudo, Y., He, H., Kim, J. Y., Elde, S., Williams, K. M., Walsh, S. K., Koyano, T. K., Guenthart, B., Woo, Y. J.
  2022

- **Biomechanical evaluation of aortic regurgitation from cusp prolapse using an ex vivo 3D-printed commissure geometric alignment device.** *Journal of cardiothoracic surgery*
  Zhu, Y., Park, M. H., Imbrie-Moore, A., Wilkerson, R., Madira, S., Woo, Y. J.
  2022; 17 (1): 303

- **Resection of a synovial cell sarcoma by cardiac autotransplantation: A case report.** *JTCVS techniques*
  Mullis, D. M., Zhu, Y., Guenthart, B. A., Bonham, S. A., Trope, W. L., Berry, G. J., Woo, Y. J., MacArthur, J. W.
  2022; 16: 123-127

- **Native and Post-Repair Residual Mitral Valve Prolapse Increases Forces Exerted on the Papillary Muscles: A Possible Mechanism for Localized Fibrosis?** *Circulation. Cardiovascular interventions*
  Park, M. H., van Kampen, A., Melnitchouk, S., Wilkerson, R. J., Nagata, Y., Zhu, Y., Wang, H., Pandya, P. K., Morningstar, J. E., Borger, M. A., Levine, R. A., Woo, Y. J.
  2022; 15 (12): e011928

- **Force Profiles of Single Ventricle Atrioventricular Leaflets in Response to Annular Dilation and Leaflet Tethering.** *Seminars in thoracic and cardiovascular surgery*
  Kidambi, S., Moye, S. C., Lee, J., Cowles, T. H., Strong, E. B., Wilkerson, R., Paulsen, M. J., Woo, Y. J., Ma, M. R.
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- **Coronary Artery Bypass Surgery Without Saphenous Vein Grafting: JACC Review Topic of the Week.** *Journal of the American College of Cardiology*
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