

UNIVERSITY OF PENNSYLVANIA – PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

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Citizenship: U.S.A.

Education:

1992-1996	M.D. Medical College of Virginia/ Virginia Commonwealth University, Richmond, VA
1988-1992	B.A. University of Virginia, Charlottesville, VA (Biology)

Postgraduate Training and Fellowship Appointments:

1996-1997	General Surgery Internship, Department of Surgery, University of Pennsylvania Medical Center, Philadelphia, PA
1997-1999	General Surgery Resident, Department of Surgery, University of Pennsylvania Medical Center, Philadelphia, PA
1999-2001	Post-doctoral Research Fellowship, Harrison Department of Surgical Research, University of Pennsylvania School of Medicine, Philadelphia, PA
2001-2003	General Surgery Resident, Department of Surgery, University of Pennsylvania Medical Center, Philadelphia, PA
2003-2005	Cardiothoracic Surgery Resident, Department of Surgery, University of Pennsylvania Medical Center, Philadelphia, PA
2005-2006	Endovascular / Aortic Surgery Fellow, Divisions of Cardiothoracic Surgery, Vascular Surgery & Cardiology (Section of Interventional Cath Lab), University of Pennsylvania Medical Center, Philadelphia, PA
2005	Society of Thoracic Surgeons' Thoracic Endografting Symposium, Chicago, IL (Aug 26-27 th , 2005)
2005	Gore TAG TM Thoracic Endoprosthesis Physician Training Course, University of Pennsylvania Medical Center, Philadelphia, PA

Faculty Appointments:

07/01/06-06/30/11	Assistant Professor of Surgery at PPMC, HUP & PAH, University of Pennsylvania School of Medicine, Philadelphia, PA
07/01/11-6/30/16	Associate Professor of Surgery at PPMC, HUP & PAH, University of Pennsylvania School of Medicine, Philadelphia, PA
07/01/16-current	Professor of Surgery at PPMC, HUP & PAH, University of Pennsylvania School of Medicine, Philadelphia, PA

Hospital and Administrative Appointments:

07/01/06-present	Attending Surgeon, Hospital of the University of Pennsylvania, Philadelphia, PA
07/01/06-present	Active Surgeon, Penn Presbyterian Medical Center, Philadelphia, PA
07/01/06-present	Surgical Director, Transcatheter Cardio-Aortic Therapies, University of Pennsylvania School of Medicine, Philadelphia, PA
08/07/06-present	Consulting Surgeon, Pennsylvania Hospital, Philadelphia, PA
01/01/13-06/30/15	Associate Clinical Director of Cardiovascular Surgery, Penn Presbyterian Medical Center, Philadelphia, PA
06/01/13-present	Co-Director, Penn Presbyterian Medical Center Heart and Vascular Pavilion, Philadelphia, PA
07/01/15-present	Chief of Cardiovascular Surgery, Penn Presbyterian Medical Center, Philadelphia, PA
01/01/17-present	Vice Chief of Clinical Operations and Quality, Division of Cardiovascular Surgery, University of Pennsylvania, Philadelphia, PA
10/1/2022-present	Julian Johnson II Endowed Professor of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA

Other Appointments:

1997-1999	Assistant Instructor, Department of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
2001-2002	Assistant Instructor, Department of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA
2002-2006	Instructor, Department of Surgery, University of Pennsylvania School of Medicine, Philadelphia, PA

Specialty Certification:

2004-2014	American Board of Surgery (48890)
2013-2024	American Board of Surgery-Recertification
2006-2016	American Board of Thoracic Surgery (7251)
2014-2026	American Board of Thoracic Surgery (Recertification)

Licensure:

1999-present	Pennsylvania
2015-present	New Jersey

Awards, Honors and Membership in Honorary Societies:

1988	Phi Eta Sigma Honor Society, University of Virginia
1989	Intermediate Honors, University of Virginia
1989	Alpha Epsilon Delta Honor Society, University of Virginia
1990	Golden Key Honor Society, University of Virginia
1993	Award for Outstanding Academic Achievement, Medical College of Virginia

1995 Medical Student Program of the American College of Surgeons' 81st Clinical Congress

Awards, Honors and Membership in Honorary Societies (cont):

1995 Alpha Omega Alpha Honor Society (Junior Year), Medical College of Virginia
2000-2002 Thoracic Surgery Foundation Research Fellowship Award
2003 The Penn Pearls Award, University of Pennsylvania School of Medicine Teaching Award
2003 The Leonard J. Perloff Chief Resident Teaching Award, Department of Surgery, University of Pennsylvania
2004 Pennsylvania Association for Thoracic Surgery 42nd Annual Meeting, Resident Presentation Award
2012-2020 *Philadelphia Magazine* Top Doctors (awarded annually through period)
2013 Thoracic Surgery Residents Association Dwight McGoon Award Nominee
2014 Thoracic Surgery Residents Association Dwight McGoon Award Nominee
2015 Thoracic Surgery Residents Association Dwight McGoon Award Nominee
2018 The Academy of Master Clinicians; University of Pennsylvania School of Medicine
2021 STS TSRA Socrates Award for Thoracic Surgery Residency Education

Memberships in Professional and Scientific Societies:

National/International Societies:

2008-present American Heart Association
2009-present Association for Academic Surgery
2007-present Society of Thoracic Surgeons
Membership Committee, 2011-2017
Workforce on Annual Meeting (Program Taskforce), 2012-2015
Chair, Taskforce on Advanced TEVAR course (Workforce New Technology), 2015-present
Taskforce on Access and Publications (A&P), Adult Cardiac Proposal Review Subcommittee, 2014-2019
Workforce on Annual Meeting (Tech Con Taskforce), 2016
Workforce on New Technology, 2016-2021
Chair, Workforce on Annual Meeting (Program Task Force), 2016-2017
Chair, Council on Meetings and Education Operating Board, 2016-2020
Chair, Workforce on International Meeting 2020-2022
Secretary – Elect 2021-2022
Secretary 2022-current

	Presidential Task Force on Global Corporate Relations 2022-current
2010-present	American College of Surgeons Advisory Council for Cardiothoracic Surgery 2018-2021 Advisory Council for Cardiothoracic Surgery 2021-2024

Memberships in Professional and Scientific Societies (cont):

2010-present	International Society for Minimally Invasive Cardiothoracic Surgery
2011-present	American College of Cardiology
2012-present	American Association of Thoracic Surgery TVT Registry Research and Publications Subcommittee, 2012-2015 Clinical Guideline Committee: Endovascular Aortic Disease Update, 2012 (Chair, 2014) Clinical Guideline Committee: Transcatheter Aortic Valve Replacement, 2012 (Chair, 2014) Guidelines Committee, 2016-2018 Education Committee (2017-2020) Cardiac Clinical Practice Standards Committee (2020-2023) Co-chair: Expert Consensus Document on Management of Acute type A Aortic Dissection (2021) Scientific Affairs and Government Relations Committee (2020-2023)
2017	STS / ACC TVT registry database update workgroup
2019	American Surgical Association

Local/Regional Societies:

2007-present	Pennsylvania Association of Thoracic Surgery
2011-present	Eastern Cardiothoracic Surgical Society

Scientific Committees:

2014-present	MicroInterventional Device: Data Safety Monitoring Committee for Secure Transapical Access and Closure Study (STASIS)
2015	Valve Academic Research Consortium (VARC)-3 Focus Update: Committee member
2020	American Heart Association Aortic Stenosis Science Advisory Group

Editorial Positions:

2006-present	Reviewer, <i>Annals of Thoracic Surgery</i>
2007-present	Reviewer, <i>Journal of Thoracic and Cardiovascular Surgery</i>
2009-present	CTSNET editorial board: Endovascular Portal
2010-present	Reviewer, <i>Circulation</i>
2010 Winter	Guest Co-Editor for Thoracic Endovascular Aortic Repair: <i>Seminars in Thoracic and Cardiovascular Surgery</i>

2017-present Deputy Editor, *Annals of Thoracic Surgery*

Academic Committees at the University of Pennsylvania and Affiliated Hospitals:

2007-present Clinical Research Advisory Committee (CRAC)

Major Teaching and Clinical Responsibilities at the University of Pennsylvania and Affiliated Hospitals:

2006-present Customary teaching and clinical responsibilities for attending surgeon, including surgical treatment of patients and teaching of fellows, residents and medical students during rotation at Penn Presbyterian Medical Center, the Hospital of the University of Pennsylvania and Pennsylvania Hospital, in the OR, on patient rounds and in the outpatient clinic

Lectures by Invitation (past 5 years):

January 2016 “Transcatheter Mitral Valve Replacement: CardiaQ.” STS AATS Tech Con, Society of Thoracic Surgeons (STS) 52d Annual Meeting, Phoenix, AZ

January 2016 “Valve Sparing Aortic Root Replacement.” How To: Technical Tricks and Pitfalls to Simplify Cardiac Surgery Procedures. STS 52d Annual Meeting, Phoenix, AZ

May 2016 “TEVAR for chronic type B aortic dissection”. AATS Aortic Surgery Symposium. New York, New York.

May 2016 “AATS Guidelines for TAVR”. AATS 96th Annual Meeting, Baltimore, MD

May 2016 “TEVAR 2016”. AATS 96th Annual Meeting, Baltimore, MD

June 2016 “TAVR in all Corners: The Time has Come: Con”. ISMICS, Montreal, Canada

June 2016 “How I Do It: TEVAR in Zone 0 Ascending and Branched Endograft Devices”. ISMICS, Montreal, Canada

October 2016 “TMVR: Is it ready for Prime Time?”. Westchester Valve Symposium. New York.

October 2016 “Should TAVR be offered to every patient: No”. TCT 2016, Washington D.C.

November 2016 “Can TAVR replace SAVR in low risk patients?”. AHA Annual Scientific Sessions 2016, New Orleans, LA

November 2016 “Transcatheter mitral valve replacement: US Clinical Trials”. AHA Annual Scientific Sessions 2016, New Orleans, LA

November 2016 “Aneurysmal descending thoracic aorta: Chronic Type B aortic dissection”. AHA Annual Scientific Sessions 2016, New Orleans, LA

December 2016 “What should ideal ascending aortic device look like? Where are the current devices failing short?” STS TEVAR Symposium, Chicago, IL

December 2016 “Getting credentialed for TEVAR”. STS TEVAR Symposium, Chicago, IL

- January 2017 “David procedure: Simplified”. STS Annual Meeting, Houston, TX
- January 2017 “Hybrid options for aortic arch.” SVS @ STS, STS Annual Meeting, Houston, TX

Lectures by Invitation (past 5 years, cont):

- February 2017 “Current management of chronic type B aortic dissection”. Houston Aortic Symposium, Houston, TX
- March 2017 “Structural valve deterioration: SAVR vs TAVR”. ACC Annual Meeting, Washington, D.C.
- April 2017 “Transfemoral TAVR – A case for the surgeons”. AATS Centennial, Boston MA
- April 2017 “Transcatheter mitral valve replacement” AATS Centennial, Boston MA.
- June 2017 “Current management Options for Aortic Arch pathology” Vascular Annual Meeting. San Diego, CA
- June 2017 “How we will optimally train future cardiovascular surgeons to manage complex aortic disease”. Vascular Annual Meeting. San Diego, CA.
- June 2017 “Will the heart team survive the modern era of minimalist TAVR?”. TVT. Chicago, IL
- September 2017 “Endovascular Stenting for DeBakey type I and II Aortic Dissection”. 11th Current Trends in Aortic, Cardiac, and General Thoracic Surgery. Houston, Texas
- October 2017 “What we can learn from surgical mitral annuloplasty for percutaneous therapies”. TCT 2017, Denver, CO
- October 2017 “Carillon indirect annuloplasty for functional MR: Data synthesis and RCT progress”. TCT 2017, Denver, CO
- November 2017 “Status of cerebral perfusion strategies during arch reconstruction”. American Heart Association Scientific Sessions 2017, Anaheim, CA.
- December 2017 “Future of TAVR: Implications for Surgeons”. Masters in Innovative Structural Heart and Valve Therapy: A Case based and Hands on Symposium. Chicago, IL
- December 2017 “Early TMVR Experience: CardiaQ”. Masters in Innovative Structural Heart and Valve Therapy: A Case based and Hands on Symposium. Chicago, IL
- January 2018 “Type A Dissection with Malperfusion: The Cardiac Surgeon Perspective”. STS Annual Meeting, Fort Lauderdale, FL
- March 2018 “Durability of current TAVR vs SAVR: TAVR” ACC Scientific Session, Orlando, FL
- April 2018 “Total Endovascular Arch Repair”. AATS Aortic Symposium. New York, New York
- May 2018 “Transcatheter mitral valve replacement”. AATS Annual Meeting, San Diego, CA
- May 2018 “Update on transcatheter aortic and mitral therapies”. Tower Health Cardiovascular Symposium. Reading, PA

- June 2018 “Type A Dissection with Malperfusion: The Cardiac Surgeon Perspective”. SVS Vascular Annual Meeting, Boston, MA
- January 2019 “Proximal and aortic arch stent grafting: State of the Art”. STS Annual Meeting, San Diego, CA

Lectures by Invitation (past 5 years, cont):

- January 2019 “Complex Aortic Solutions”. UMD Grand Rounds Terumo Aortic, Baltimore, MD
- January 2019 “Emerging Technologies: Branch Endografts”. UMD Grand Rounds Terumo Aortic, Baltimore, MD
- February 2019 “Do we need different stent grafts for the management of ascending aortic disease”. Critical Issues America, Miami, FL
- February 2019 “Technical Concepts in Treating Aortic arch pathology”. CT Fellows Course Agenda, Philadelphia, PA
- February 2019 “Hands on Case Planning: How to choose your stent graft”. CT Fellows Course Agenda, Philadelphia, PA
- April 2019 “When not to TAVR valve in valve for failed surgical bioprosthesis”. AATS Annual Meeting, Toronto, Canada
- April 2019 “Hyperacute”. STS TEVAR Symposium, Chicago, IL
- April 2019 “Case Presentation, Team Reviews, and Panel Discussion”. STS TEVAR Symposium, Chicago, IL
- April 2019 “Anatomic Considerations during Branched Endograft Arch Repair and Stroke Risk” STS TEVAR Symposium, Chicago, IL
- August 2019 “TMVR – Edwards M3 and Evoque”, STS Masters in Structural Heart Symposium, Chicago, IL
- October 2019 “Branched Endograft: Should the Novel Technology Alter the Index Operation during Type A Aortic Dissection Repair”, EACTS Annual Meeting, Lisbon, Portugal
- October 2019 “Current and Future Treatment Strategies for the Aortic Arch-Aneurysm”, EACTS Annual Meeting, Lisbon, Portugal
- January 2020 “Management of Complex Aortic Arch Disease in 2020”, Aortic Summit, Keynote Speaker, RWJU, NJ
- April 2020 “Dual Branch Endograft for the Aortic Arch: US Early Feasibility Study”, AATS Aortic Surgery Symposium, New York, New York
- April 2021 “One year results of a pivotal study of second generation low profile endograft in subjects with thoracic aortic aneurysm and ulcer pathologies. Late breaking clinical trial, Annual meeting of American Association for Thoracic Surgery (Virtual)
- September 2021 “Thoracic Surgery Education: Priority for our Future”, Department of Cardiac Surgery Grand Rounds, University of Michigan
- November 2021 “Emerging endograft technology for the treatment of arch pathology”. ELSA 2021, Hong Kong
- March 2022 How to do it: Cerebral protection during aortic cannulation for acute type A aortic dissection. STS@ASCVTS Annual Meeting, Nara, Japan

April 2022	“Branch Endografting of the Aortic Arch: The Current Landscape”, Aortic Symposium Workshop, American Association of Thoracic Surgery Annual Meeting, Boston, MA
May 2022	“Management of the Aortic Arch – Current Landscape and future Innovations”, Grand Rounds, University of Ottawa, Canada
September 2022	“Management of the Aortic Arch – Current Landscape and future Innovations”, Grand Rounds, Nazareth Hospital, Philadelphia, PA, USA
September 2022	“Bio-Bentall for the non-repairable aortic valve: Technical overview and video”, 5 th North American Aortic Valve Repair Symposium, Philadelphia, PA, USA

Organizing Roles in Scientific Meetings:

January 2010	Program Committee, Joint Council of Thoracic Surgery Education (JCTSE)
January 2010	Program Committee, STS / AATS Taskforce on Transcatheter Heart Valves
December 2010	Program Director, STS Transcatheter Heart Valve Symposium
March 2011	Program Director, STS Transcatheter Heart Valve Symposium
June 2011	Program Co-Director, STS-ACCF Transcatheter Heart Valve Symposium
December 2011	Program Co-Director, ACCF-STS Transcatheter Heart Valve Symposium
February 2012	Program Co-Director, STS-ACCF Transcatheter Heart Valve Symposium
September 2012	Program Co-Director, ACCF-STS Transcatheter Heart Valve Symposium
January 2013	STS University Course Director, TAVR and TEVAR, Annual Scientific Meeting, Los Angeles, CA
March 2013	Program Co-Chair, TCT@ACC.13 Valvular Heart Disease-Aortic Working Group
April 2013	Program Co-Director, STS-ACCF Transcatheter Heart Valve Symposium
October 2013	Program Co-Chair, Eastern Cardiothoracic Surgical Society, Annual Scientific Meeting, Clearwater, FL
October 2013	TCT 2013 Scientific Committee, Aortic Endografts and Aneurysm Repair (Sponsored by ISES), San Francisco, CA
May 2014	Program Chair, Cardiac Masters Day Program: Innovations in TEVAR, International Society of Minimally Invasive Cardiothoracic Surgery 2014, Boston, MA
November 2014	Program Chair, STS Advanced Thoracic Endografting Symposium, Chicago, IL
January 2015	STS University Course Director, TAVR and TEVAR, 51 st Annual Scientific Meeting, San Diego, CA

- August 2015 Program Committee, STS Masters in Innovative Structural Heart & Valve Surgery: A Case-Based and Hands-On Symposium, Chicago, IL
- October 2015 Program Committee, TCT 2015 Scientific Committee, Aortic Endografts and Aneurysm Repair (Sponsored by ISES), San Francisco, CA

Organizing Roles in Scientific Meetings (cont):

- Nov 2016 Program co-director: Innovation in valve repair. STS @ AHA 2016, New Orleans, LA
- Dec 2016 Program co-director: STS TEVAR course 2016. Chicago, IL
- June 2017 Program co-direct: STS SVS Aortic Summit, San Diego, CA
- December 2017 Program co-director: STS Structural Heart Symposium. Chicago, IL
- April 2019 Program co-director: STS TEVAR Symposium, Chicago, IL
- August 2019 Program co-director: STS Mitral and Tricuspid Valve Symposium, Chicago, IL
- September 2021 Program co chair- STS@ CMC, Wuhan, China
- October 2021 Program co chair – STS @ CACVS, Wuhan, China
- January 2022 Program Taskforce – STS 58th Annual Meeting, Miami FL
- January 2023 Program Taskforce – STS 59th Annual Meeting, San Diego, CA

BIBLIOGRAPHY:

Research Publications, Peer Reviewed:

1. Sagher O, Zhang XQ, **Szeto WY**, Thai QA, Jin Y, Kassell NF, Lee KS. Live computerized videomicroscopy of cerebral microvessels in brain slices. *J Cerebral Blood Flow Metabolism*; 13(4):676-682, July 1993.
2. Popma SH, Krasinskas AM, **Szeto WY**, Kreisel D, Kamoun M, Rosengard BR. Allosensitization increases human anti-pig xenoreactivity. *Transplant Proc*; 32(5):954-955, August 2000.
3. Popma SH, Krasinskas AM, McLean AD, **Szeto WY**, Kreisel D, Moore JS, Rosengard BR. Immune monitoring in xenotransplantation: The multiparameter cytometric flow mixed lymphocyte culture assay. *Cytometry*;42(5):277-283, October 2000.
4. **Szeto WY**, Krasinskas AM, Kreisel D, Popma SH, Rosengard BR. Donor antigen-presenting cells are important in the development of obliterative airway disease. *J Thorac Cardiovasc Surg*; 120(6):1070-1077, December 2000.
5. Krupnick AS, Kreisel D, **Szeto WY**, Popma SH, Rosengard BR. A murine model of left ventricular tissue engineering. *J Heart Lung Transplant*; 20(2):197-198, February 2001.
6. Krupnick AS, Kreisel D, **Szeto WY**, Popma SH, Krasinskas AM, Rosengard BR. FAS-FAS ligand death pathway does not contribute to CTL-mediated apoptosis of mouse vascular endothelium. *J Heart Lung Transplant*; 20(2):218-9, February 2001.
7. Popma S, **Szeto WY**, Krasinskas AM, Kreisel D, Krupnick AS, Moore JS, Rosengard BR. The TCR repertoire of proliferating T cells is restricted by immunodominant antigens in the direct human anti-pig pathway. *J Heart Lung Transplant*; 20(2):215, February 2001.

8. Popma SH, **Szeto WY**, Moore JS, Krupnick AS, Kreisel D, Rosengard BR. Human T cells express CD86 and acquire APC function after stimulation with human or porcine APS. *J Heart Lung Transplant*; 20(2):215, February 2001.
9. **Szeto WY**, Krasinskas AM, Kreisel D, Krupnick AS, Popma SH, Rosengard BR. Depletion of recipient CD8⁺ T cells does not alter the development of cardiac allograft vasculopathy. *J Heart Lung Transplant*; 20(2):219, February 2001.

Research Publications, Peer Reviewed (cont):

10. Kreisel D, Petrowsky H, Krasinskas AM, **Szeto WY**, Krupnick AS, McLean AD, Popma SH, Moore JS, Rosengard BR. Third-party passenger leukocytes prolong liver allograft survival. *Transplant Proc*; 33(1-2):171-172, February/March 2001.
11. Popma SH, Krasinskas AM, Kreisel D, **Szeto WY**, McLean AD, Moore JS, Rosengard BR. Simultaneous blockade of B7-CD28 and CD40-CD40L costimulation eliminates the direct xenorestricted human anti-porcine T-cell response. *Transplant Proc*; 33(1-2):767-769, February/March 2001.
12. Kreisel D, Krupnick AS, **Szeto WY**, Popma SH, Sankaran D, Krasinskas AY, Amin K, Rosengard BR. A simple method for culturing mouse vascular endothelium. *J Immunol Methods*; 254(1-2):31-45, August 2001.
13. Kreisel D, Engels FHC, Krupnick AS, **Szeto WY**, Krasinskas AM, Popma SH, Tomaszewski JE, Arcasoy SM, Kotloff RM, Blumenthal NP, Buell JF, Rosengard BR. Emergent lung retransplantation after discovery of two primary malignancies in the donor. *Transplantation*; 71(12):1859-62, June 2001.
14. Krupnick AS, Kreisel D, **Szeto WY**, Popma SH, Amin KM, Moore JM, Rosengard BR. Multiparameter flow cytometric approach for the simultaneous evaluation of T lymphocyte-endothelial cell interactions. *Cytometry*; 46(5):271-80, October 2001.
15. Krupnick AS, Kreisel D, Engels FH, **Szeto WY**, Plappert T, Popma SH, Flake AW, Rosengard BR. A novel small animal model of left ventricular tissue engineering. *J Heart Lung Transplant*; 21(2):233-243, February 2002.
16. Kreisel D, Krupnick AS, Engels FH, Gelman AE, Popma SH, Krasinskas AM, **Szeto WY**, Turka LA, Rosengard BR. Non-hematopoietic allograft cells directly activate CD8⁺ T cells and trigger acute rejection: An alternative mechanism of allorecognition. *Nat Med*; 8(3):233-239, March 2002.
17. **Szeto WY**, Krasinskas AM, Kreisel D, Krupnick AS, Popma SH, Rosengard BR. Depletion of recipient CD4⁺ but not CD8⁺ T lymphocytes prevents the development of cardiac allograft vasculopathy. *Transplantation*; 73(7):1116-1122, April 2002.
18. Kreisel D, Petrowski H, Krasinskas AM, Krupnick AS, **Szeto WY**, Popma SH, McLean AD, Moore JS, Rosengard BR. The role of passenger leukocyte genotype in rejection and acceptance of rat liver allografts. *Transplantation*; 73(9):1501-1507, May 2002.
19. **Szeto WY**, Kreisel D, Karakousis GC, Pochettino A, Sterman DH, Kotloff RM, Arcasoy SM, Zisman DA, Blumenthal CRNP, Gallop RJ, Kaiser LR, Bavaria JE, Rosengard BR. Cardiopulmonary bypass for bilateral sequential lung transplantation in patients with chronic obstructive pulmonary disease without adverse effect on lung function or clinical outcome. *J Thorac Cardiovasc Surg*; 124(2):241-249, August 2002.
20. Krupnick AS, Kreisel D, Popma SH, Balsara KR, **Szeto WY**, Krasinskas AM, Riha M, Wells AD, Turka LA, Rosengard BR. Mechanism of T-cell mediated endothelial apoptosis. *Transplantation*; 74(6):871-876, September 2002.

21. Kreisel D, Krupnick AS, Balsara KR, Riha M, Geha AE, Popma SH, **Szeto WY**, Turka LA, Rosengard BR. Mouse vascular endothelium activates CD8⁺ T lymphocytes in a B7-dependent fashion. *J Immunol*; 169(11):6154-6161, December 2002.
22. **Szeto WY**, Fairman RM, Acker MA, Skelly CL, Augoustides JG, McGarvey M, Woo EY, Velazquez OC. Emergency endovascular deployment of stent graft in the ascending aorta for contained rupture of innominate artery pseudoaneurysm in a pediatric patient. *Ann Thorac Surg*; 81(5):1872-1875, May 2006.

Research Publications, Peer Reviewed (cont):

23. Levine S, Nguyen T, Friscia M, Zhu J, **Szeto W**, Kucharczuk JC, Tikunov BA, Rubinstein NA, Kaiser LR, Shrager JB. Parasternal intercostal muscle remodeling in severe chronic obstructive pulmonary disease. *J Applied Physiology*; 101(5):1297-1302, November 2006.
 24. Settepani F, **Szeto WY**, Pacini D, De Paulis R, Chiariello L, Di Bartolomeo R, Gallotti R, Bavaria JE. Reimplantation valve-sparing aortic root replacement in Marfan syndrome using the Valsalva conduit: an intercontinental multicenter study. *Ann Thorac Surg*; 83(2):S769-73; discussion S785-90, February 2007.
 25. Stearns JD, **Szeto WY**, Cheung AT. Echocardiographic evidence of the Brockenbrough-Braunwald-Morrow sign after mitral valve repair. *Anesth Analg*; 104(3):502-503, March, 2007.
- Research Publications, Peer Reviewed (cont): **Szeto WY**, Bavaria JE, Bowen FW, Woo EY, Fairman RM, Pochettino A. The hybrid total arch repair: Brachiocephalic bypass and concomitant endovascular aortic arch stent graft placement. *J Card Surg*; 22(2):97-104, March-April, 2007.
26. Geirsson A, **Szeto WY**, Pochettino A, McGarvey ML, Keane MG, Woo YJ, Augoustides JG, Bavaria JE. Significance of malperfusion syndromes prior to contemporary surgical repair for acute type A dissection: Outcomes and need for additional revascularizations. *Eur J Cardiothorac Surg*; 32(2):255-62, August 2007.
 27. Augoustides JG, **Szeto W**, Ochroch EA, Cowie D, Weiner J, Gambone AJ, Pinchasik D, Bavaria JE. Atrial fibrillation after aortic arch repair requiring deep hypothermic circulatory arrest: Incidence, clinical outcome, and clinical predictors. *J Cardiothorac Vasc Anesth*; 21(3):388-92, June 2007.
 28. **Szeto WY**, Bavaria JE, Bowen FW, Geirsson A, Cornelius K, Hargrove WC, Pochettino A. Reoperative aortic root replacement in patients with previous aortic surgery. *Ann Thorac Surg*; 84(5):1592-99, November 2007.
 29. Gutsche JT, Cheung AT, McGarvey ML, Moser WG, **Szeto W**, Carpenter JP, Fairman RM, Pochettino A, Bavaria JE. Risk factors for perioperative stroke after thoracic endovascular aortic repair. *Ann Thorac Surg*; 84(4):1195-1200, October 2007.
 30. Geirsson A, Bavaria JE, Swarr D, Keane MG, Woo YJ, **Szeto WY**, Pochettino A. Fate of the residual distal and proximal aorta after acute type a dissection repair using a contemporary surgical reconstruction algorithm. *Ann Thorac Surg*; 84(6):1955-1964, December 2007.
 31. Augoustides JG, **Szeto WY**. Unmasked diabetes insipidus after pericardial drainage and biopsy for pericardial effusion in association with Erdheim-Chester disease. *J Thoracic Cardiovasc Surg*; 136(1):217-218, July 2008.
 32. **Szeto WY**, McGarvey M, Pochettino A, Moser GW, Hoboken A, Cornelius K, Woo EY, Carpenter JP, Fairman RM, Bavaria JE. Results of a new surgical paradigm: Endovascular repair for acute complicated type B aortic dissection. *Ann Thorac Surg*; 86(1):87-94, July 2008.

33. Gutsche JT, **Szeto WY**, Cheung AT. Endovascular stenting of thoracic aortic aneurysm. *Anesthesia Clin*; 26(3):481-499, September 2008.
34. Woo EY, Carpenter JP, Jackson BM, Pochettino A, Bavaria JE, **Szeto WY**, Fairman RM. Left subclavian artery coverage during thoracic endovascular aortic repair: A single-center experience. *J Vasc Surg*; 48(3):555-60, September 2008.

Research Publications, Peer Reviewed (cont):

35. Messé SR, Bavaria JE, Mullen M, Cheung AT, Davis R, Augoustides JG, Gutsche J, Woo EY, **Szeto WY**, Pochettino A, Woo YJ, Kasner SE, McGarvey M. Neurologic outcomes from high risk descending thoracic and thoracoabdominal aortic operations in the era of endovascular repair. *Neurocrit Care*; 9(3):344-351, December 2008.
36. Wang GJ, Fairman RM, Jackson BM, **Szeto WY**, Pochettino A, Woo EY. The outcome of thoracic endovascular aortic repair (TEVAR) in patients with renal insufficiency. *J Vasc Surg*; 49(1):42-6, January 2009.
37. Augoustides JG, Geirsson A, **Szeto WY**, Walsh EK, Cornelius B, Pochettino A, Bavaria JE. Observational study of mortality risk stratification by ischemic presentation in patients with acute type A aortic dissection: The Penn classification. *Nat Clin Pract Cardiovasc Med*; 6(2):140-6, February 2009.
38. Reade CC, **Szeto WY**, Bavaria JE. Aortic valve commissural fenestrations due to sinus of valsalva dilation. *Ann Thorac Surg*; 87(2):646, February 2009.
39. **Szeto WY**, Bavaria JE. Hybrid repair of aortic arch aneurysms: Combined open arch reconstruction and endovascular repair. *Semin Thorac Cardiovasc Surg*; 21(4):347-354, Winter 2009.
40. Meyer SR, **Szeto WY**, Augoustides JG, Morris RJ, Vernick WJ, Paschal D, Fox J, Hargrove WC 3rd. Reoperative mitral valve surgery by the port access minithoracotomy approach is safe and effective. *Ann Thorac Surg*; 87(5):1426-30, May 2009.
41. Modi P, Rodriguez E, Hargrove WC 3rd, Hassan A, **Szeto WY**, Chitwood WR Jr. Minimally invasive video-assisted mitral valve surgery: A 12-year, 2-center experience in 1178 patients. *J Thorac Cardiovasc Surg*; 137(6):1481-87, June 2009.
42. Pochettino A, Brinkman WT, Moeller P, **Szeto WY**, Moser W, Cornelius K, Bowen FW, Woo YJ, Bavaria JE. Antegrade thoracic stent grafting during repair of acute DeBakey I dissection prevents development of thoracoabdominal aortic aneurysms. *Ann Thorac Surg*; 88(2):482-490, August 2009.
43. Wang GJ, **Szeto WY**, Fairman RM, Woo EY, Bavaria JE, Jackson BM. A composite approach to thoracic aortic stent grafting. *Vasc Endovasc Surg*; 44(1):36-9, January 2010.
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286. Shafi BM, Wheatley GH, Kerendi F, **Szeto WY**. Six month preclinical results of novel vascular anastomosis device intended to facilitate open aortic and arch vessel reconstruction. *Eur J Cardiothorac Surg Epubh March 18, 2022. PMID: 35301524*
287. Myers PO, Dayan V, **Szeto WY**, Thourani VH, Malaisrie SC, Moon MR, Prager RL, Ono M, Okita Y, Freemantle N, Milojevic M. Joint Surgical Associations (EACTS, LACES, ASCVTS, AATS, and STS) Position Statement Regarding the VARC 3 Definitions for Aortic Valve Clinical Research. *Ann Thorac Surg Jun 113(6): 1767, 2022. PMID 35307192*

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1. **Szeto WY**, Gleason TG. Operative management of ascending aortic dissections. *Semin Thorac Cardiovasc Surg*; 17(3):247-255, Fall 2005.
2. Brinkman WT, **Szeto WY**, Bavaria JE. Overview of great vessel trauma. *Thorac Surg Clin*; 17(1):95-108, February 2007.
3. McGarvey ML, Cheung AT, **Szeto W**, Messé SR. Management of neurologic complications of thoracic aortic surgery. *J Clin Neurophysiol*; 24(4):336-343, August 2007.
4. Brinkman WT, **Szeto WY**, Bavaria JE. Stent graft treatment for transverse arch and descending thoracic aorta aneurysms. *Curr Opin Cardiol*; 22(6):510-6, November 2007.
5. Augoustides JG, Wolfe Y, Walsh EK, **Szeto WY**. Recent advances in aortic valve disease: Highlights from a bicuspid aortic valve to transcatheter aortic valve replacement. *J Cardiothorac Vasc Anesth*; 23(4):569-576, August 2009.
6. Desai ND, **Szeto WY**. Complex aortic arch aneurysm and dissections: Hybrid techniques for surgical and endovascular therapy. *Curr Opin Cardiol*; 24(6): 521-527, November 2009
7. Augoustides JG, **Szeto WY**, Bavaria JE. Advances in aortic valve repair: Focus on functional approach, clinical outcomes, and central role of echocardiography. *J Cardiothor Vasc Anesth*; 4(6):1016-20, October 2010.

Reviews in Peer Reviewed Research Publications (cont):

8. Augoustides JGT, **Szeto WY**, Desai ND, Pochettino A, Cheung AT, Savino JS, Bavaria JE. Classification of acute type A dissection: Focus on clinical presentation and extent. *Eur J Cardiothorac Surg*; 39(4): 519-22, April 2011.
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10. Ghadimi K, Patel PA, Gutsche JT, Sophocles A, Anwaruddin S, **Szeto WY**, Augoustides JG. Perioperative conduction disturbances after transcatheter aortic valve replacement. *J Cardiothorac Vasc Anesth*; 27(6):1414-20, December 2013.
11. Gutsche JT, Ghadimi K, Patel PA, Robinson AR 3rd. Lane BJ, **Szeto WY**, Augoustides JG. New frontiers in aortic therapy: focus on deep hypothermic circulatory arrest. *J Cardiothorac Vasc Anesth*; 28(4):1171-1175, August 2014.

12. Habertheuer A, Kocher A, Laufer G, Andreas M, **Szeto WY**, Petzelbauer P, Ehrlich M, Wiedemann D. Cardioprotection: A review of current practice in global ischemia and future translational perspective. *Biomedical Research International* 325725, September 2014.
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14. Tang GH, George I, Hahn RT, Bapat V, **Szeto WY**, Kodali SK. Transcatheter mitral valve replacement: Design implications, potential pitfalls and outcomes assessment. *Cardiol Rev*; 23(6):290-6, November-December 2015.
15. Sultan I, McGarvey J, Vallabhajosyula P, Desai ND, Bavaria JE, **Szeto WY**. Routine use of hemiarach during acute type A aortic dissection repair. *Ann Cardiothorac Surg*; 5(3):245-7, May 2016.
16. Ramakrishna H, Patel PA, Gutsche JT, Vallabhajosyula P, **Szeto WY**, MacKay E, Feinman JW, Shah R, Zhou E, Weiss SJ, Augoustides JG. Surgical aortic valve replacement – Clinical update on recent advances in the contemporary era. *J Cardiothorac Vasc Anesth* April 2016 (Epub ahead of print)
17. Sultan I, Bavaria JE, **Szeto WY**. Hybrid techniques for aortic arch aneurysm repair. *Semin Cardiothorac Vasc Anesth* July 2013 (Epub ahead of print).

Contributions to Peer-Reviewed Clinical Research Publications, Participation Cited but not by Authorship:

None

Research Publications, Non-Peer Reviewed:

None

Editorials, Reviews, Chapters, including participation in committee reports:

1. **Szeto WY**, Buzby GP. Nutrition, digestion, and absorption. In Kreisel D, Krupnick AS, Kaiser LR (eds.): *The Surgical Review: An Integrated Basic and Clinical Science Study Guide*. Philadelphia: Lippincott, Williams & Wilkins, 2000, 272-291.
2. **Szeto WY**, Rosengard BR. Basic concepts in transplantation immunology and pharmacological immunosuppression. In Baumgartner WA, Reitz B, Kasper E, Theodore J (eds.): *Heart and Lung Transplantation, 2nd Edition*. Philadelphia: WB Saunders Co., 15-25, 2001.
3. **Szeto WY**, Bavaria JE. Commentary on "Conventional open repair of descending thoracic aortic aneurysms". *Perspectives in Vascular Surgery & Endovascular Therapy* 19(2):122-123, June 2007.
4. Brinster DB, **Szeto WY**, Bavaria JE. Endovascular thoracic aortic stent grafting in acute aortic catastrophes. In Elefteriades J (ed.): *Acute Aortic Conditions*. New York: Taylor & Francis, 269-304, 2008.

5. Svensson LG, Kouchoukos NT, Miller DC, Bavaria JE, Coselli JS, Curi MA, Eggebrecht H, Elefteriades JA, Erbel R, Gleason TG, Lytle BW, Mitchell RS, Nienaber CA, Roselli EE, Safi HJ, Shemin RJ, Sicard GA, Sundt TM 3rd, **Szeto WY**, Wheatley GH 3rd. Society of Thoracic Surgeons Endovascular Surgery Task Force. Expert consensus document on the treatment of descending thoracic aortic disease using endovascular stent-grafts. *Ann Thorac Surg*;85(1 Suppl):S1-41, January 2008.
6. **Szeto WY**, Bavaria JE, Pochettino A. Hybrid procedure for arch aneurysms. In Davies A, Mitchell A (eds.): *Fast Facts: Vascular and Endovascular Surgery Highlights*. London: Health Press Limited, 2008, 51-58.
7. **Szeto WY**. Invited commentary on “Combining classic surgery with descending stent grafting in Acute DeBakey Type I Dissection”. *Ann Thorac Surg*;86(1):101-102, July 2008
8. **Szeto WY**, Gorman JH III, Gorman RC, Acker MA. Ischemic mitral regurgitation. Part III, Chap. 30 in Cohn LH (ed.): *Cardiac Surgery in the Adult, 3d Edition*. New York: McGraw-Hill, 2008, 785-802.
9. **Szeto WY**, Bavaria JE (Guest Editors). Advances in thoracic endovascular aortic repair: Introduction. *Semin Thorac Cardiovasc Surg*;21(4):339-340, Winter 2009.
10. **Szeto WY**, Brinkman W, Bavaria JE. Thoracic aortic endovascular repair for descending thoracic aortic and aortic arch aneurysms. Sect. IV, Chap. 23 in Selke F, Ruel M (eds.): *Atlas of Cardiac Surgical Techniques*. Philadelphia: Elsevier, 2010, 526-550.
11. **Szeto WY**, Bavaria JE. Endovascular therapy for the treatment of thoracic aortic aneurysms and dissections. Chap 72. In Selke FW, Del Nido PJ, Swanson SJ (eds.): *Sabiston and Spencer Surgery of the Chest, 8th Edition*. Philadelphia: WB Saunders/Elsevier, 2010, 1129-1142.
12. McClure S, **Szeto WY**, Mack M. Hybrid operating room suite. In Franco KL, Roselli EE, Thourani VH (eds.): *Cardiac Surgery: Technique and Practice*. 1st Edition. 2012.
13. Vallabhajosyula P, **Szeto WY**. Mechanical valves and conduits. In Franco KL, Roselli EE, Thourani VH (eds.): *Cardiac Surgery: Technique and Practice*. 1st Edition. 2012.
14. Vallabhajosyula P, **Szeto WY**. Acute type B dissection (endovascular repair). In Franco KL, Roselli EE, Thourani VH (eds.): *Cardiac Surgery: Technique and Practice*. 1st Edition. 2012.
15. Vallabhajosyula P, **Szeto WY**. Endovascular stent grafts for thoracic aortic aneurysm. Chap. 128 in Franco KL, Thourani VH (eds.): *Cardiothoracic Surgery Review, 1st Edition*. Philadelphia: Lippincott Williams & Wilkins, 2012, 588-592.

Editorials, Reviews, Chapters, including participation in committee reports (cont):

16. Vallabhajosyula P, **Szeto WY**. Left ventricular apical access and closure of TAVR. *Cardiac Interventions Today* 7(2), March/April 2013.
17. **Szeto WY**. Invited commentary on “Operative outcomes after open repair of descending thoracic aortic aneurysms in the era of endovascular surgery”. *Ann Thorac Surg*; 97(5):1567-8, May 2014.
18. Sanborn TA, Tchong JE, Anderson HV, Chambers CE, Cheatham SL, Decaro MV, Durack JC, Everett AD, Gordon JB, Hammon WE, Hijazi ZM, Kashyap VS, Knudtson M, Landzberg MJ, Martinez-Rios MA, Riggs LA, Sim KH, Slotwiner DJ, Solomon H, **Szeto WY**, Weiner BH, Weintraub WS, Windle JR. ACC/AHA/SCAI 2014 Health policy statement on structured reporting for the cardiac catheterization laboratory: A report of the American College of Cardiology Clinical Quality Committee. *Circulation* 129(24):2578-609, June 2014.

19. Vallabhajosyula P, **Szeto WY**. Endovascular stent grafting of thoracic aortic aneurysm in a patient with rapidly enlarging aneurysm. *Endovascular Today*, September 2014 (on-line resource).
20. **Vallabhajosyula P**, Wallen T, Szeto W, Bavaria JE. Endovascular stent grafting of the thoracic aorta. Chap. 9 in Moorjani N, Ohri SK, Wechsler AW (eds.): *Cardiac Surgery: Recent Advances and Techniques*. London: Hodder Arnold, 2014, 111-132.
21. Rihal CS, Naidu SS, Givertz MM, **Szeto WY**, Burke JA, Kapur NK, Kern M, Garratt KN, Goldstein JA, Dimas V, Tu T; Society for Cardiovascular Angiography and Interventions (SCAI); Heart Failure Society of America (HFSA); Society of Thoracic Surgeons (STS); American Heart Association (AHA) and American College of Cardiology. 2015 SCAI/ACC/HFSA/STS Clinical expert consensus statement on the use of percutaneous cardiac assist devices in cardiovascular practice (Endorsed by the American Heart Association; the Cardiological Society of India, and Sociedad Latino Americana de Cardiologia Intervencionista: Affirmation of Value by the Canadienne Association of Value by the Canadian Association of Interventional Cardiology-Association Canadienne de Cardiologie d'intervention). *J Am Coll Cardiol*; 65(19):2140-2141, May 2015.
22. Vallabhajosyula P, **Szeto WY**. Management of the aortic arch & descending thoracic aorta for acute type A dissection: Moving away from the "less is more" paradigm. [Editorial] *J Thorac Cardiovasc Surg*;150(1):106-107, July 2015.
23. Vallabhajosyula P, **Szeto WY**, Bavaria JE. Endovascular therapy for the treatment of thoracic aortic pathologies. Chap. 72 in Selke F, del Nido P, Swanson (eds.): *Sabiston and Spencer's Surgery of the Chest, 8th Edition*. Philadelphia: W.B. Saunders/Elsevier, 2015, 1129-1142.
24. Vallabhajosyula P, McClure RS, **Szeto W**. Aortic root replacement with mechanical composite valve graft conduit. *Management of Multiple Organ System Dysfunction in the Cardiac Patient*. 2015, 1-10.
25. Vallabhajosyula P, McClure RS, **Szeto W**. Acute type B dissection (Endovascular Repair). *Management of Multiple Organ System Dysfunction in the Cardiac Patient*. 2015, 1-8.
26. Hobbs R, Vallabhajosyula P, **Szeto WY**. Anatomic considerations. Chap. in Ailawadi G, Kron I (eds.): *Catheter Based Valve & Aortic Surgery*. New York: Springer, 2016 (in press).
27. Hobbs R, Vallabhajosyula P, **Szeto WY**. In patients with Type A dissection that originates distal to left subclavian artery, can you treat like a type B? In Milner R, Skelly C (eds.): *Difficult Decisions in Vascular Surgery: An Evidence Based Approach*. New York: Springer, 2016 (in press).
28. McClure S, **Szeto WY**, Mack M. Hybrid operating room suite. Chap. in Franco KL, Roselli EE, Thourani VH (eds.): *Cardiac Surgery: Technique and Practice. 1st Edition*. Philadelphia: Lippincott Williams & Wilkins, 2016 (in press).
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31. **Szeto WY**, Bavaria JE. Endovascular treatment of aortic disease. Chapter 196 in Cameron D, Yang S (eds.): *Current Therapy in Thoracic & Cardiovascular Surgery, 2d Edition*. Philadelphia: Elsevier, 2016 (in press).

32. Assi R, Vallabhajosyula P, **Szeto WY**. Management of chronic descending thoracic and thoracomabdominal dissection and aneurysm- Stent grafting and debranching. Chapter in Frank Selke (ed) - *Aortic dissection and acute aortic syndromes*. Springer. 2020 (In Press).
33. Joshua C. Grimm, John J. Kelly, **Wilson Y. Szeto**. Valve sparing aortic root replacement with reimplantation technique in the management of patients presenting with acute type A aortic dissection. *Journal of Visualized Surgery* (in press).
34. Paul Fiorilli, Howard C. Herrmann, **Wilson Y. Szeto**. Transcatheter mitral valve replacement: latest advances and future directions. *Annals of Cardiothoracic Surgery-Special Issue Mitral Valve*. Guest Editors Gilbert Tang and Brian Plunkett. (in press).

Books:

None

Alternative Media:

1. Reade CC, **Szeto WY**. Femoral / brachial / radial access. *Endovascular Portal*. CTSNET.org, October 2008.
2. Vallabhajosyula P, **Szeto WY**. Transcatheter aortic valve implantation. *Endovascular Portal*. CTSNET.org, October 2010.

Patents:

None

Peer Reviewed Grants:

1. Mount Sinai Medical Center (**PI**) 9/30/09-8/31/12
Hybrid Revascularization vs. Percutaneous Coronary Intervention: A Planning Grant
2. NIH 5-UO1-HL088957-02 (**Co-I**) 9/1/08-8/31/09
Cardiac Surgery Techniques to Treat Ventricular and Aortic Remodeling
3. NHLBI/CTSN Clinical Trials (**Sub-I**) 3/05/2009 – 04/48/2014
Evaluation of Outcomes Following Mitral Valve Repair/Replacement in Severe Chronic Ischemic Mitral Regurgitation
4. NHLBI/CTSN Clinical Trials (**Sub-I**) 3/5/2009-4/10/2015
Surgical Interventions for Moderate Ischemic Mitral Regurgitation
5. NHLBI/CTSN Clinical Trials (**sub-I**) 11-3-2015-9/1/2016
Neuroprotection in Patients Undergoing Aortic Valve Replacement
6. NHLBI/CTSN Clinical Trials (**sub-I**) 2/1/2014-6/21/2016
Rate Control Versus Rhythm Control for Postoperative Atrial Fibrillation
7. National Institute of Health (**site PI**) 9/2016-current
Cognitive Effects of Body Temperature During Hypothermic Circulatory Arrest in Arch Surgery

Industry Sponsored Research - Grants:

1. Medtronic Corporation (**Co-I**) 11/20/06-11/19/12
Valor II: The valiant thoracic stent graft system clinical study
2. W.L. Gore and Associates (**PI**) 01/30/06 – 06/30/13
TAG 05-02. A Clinical Evaluation of the Gore Tag Thoracic Endoprosthesis in the Primary Treatment of Descending Thoracic Aortic Aneurysms
3. Bolton Medical (**PI**) 2/6/07-5/5/17
Phase II Clinical Study of the Safety and Efficacy of the Relay Thoracic Stent-Graft in Patients with Thoracic Aortic Pathologies
4. Encysive Pharmaceuticals (**PI**) 9/21/07-6/30/12
Selective Endothelin Type A Receptor Inhibition in Cardiac Surgery Subjects with Pre-existing Cardiovascular Risk Factors: A Dose Confirmation Study
5. Edwards Lifesciences LLC (**Co-I**) 10/16/07-9/30/12
Placement of Aortic Transcatheter Valves Trial (PARTNER trial)
6. St. Jude Medical (**Co-I**) 7/31/07-6/30/13
An Observational Prospective Evaluation of the Trifecta Valve
7. Schering-Plough Pharmaceuticals (**PI**) 10/19/09-9/30/11
The Effect of Acadesine on Clinically Significant Adverse Cardiovascular and Cerebrovascular Events in High-Risk Subjects Undergoing Coronary Artery Bypass Graft Surgery Using Cardiopulmonary Bypass: RED-CABG Trial.
8. Medtronic Corporation (**PI**) 9/2/10-8/31/15
Evaluation of the clinical performance of the Valiant Thoracic Stent Graft with the Captivia Delivery System for the treatment of acute, complicated Type B aortic dissections
9. Edwards Lifesciences LLC (**Co-I**) 3/2011-6/2013
Placement of Aortic Transcatheter valve trial 2 (PARTNER 2 trial)
10. Medtronic Corporation (**Co-I**) 4/2012-2017
SURTA VI: Transcatheter aortic valve replacement clinical study Sorin Group USA, Inc.
11. Sorin (**PI**) 11/14/13 – 10/14/18
Clinical Investigation of the Perceval Sutureless Heart Valve
12. Boston Scientific (**Co-I**) 3/2015-2018
Reprise III: Transcatheter aortic valve replacement clinical study
13. W.L. Gore and Associates (**co PI**) 7/2015-current

A Clinical Evaluation of the Gore Tag Thoracic Side Branched Endoprosthesis in the Treatment of Thoracic Aortic Aneurysms. An Early Feasibility Study

14. Claret Medical, Inc. **(PI)** 1/13/15 – 7/31/15
Cerebral Protection in Transcatheter Aortic Valve Replacement (The Sentinel Study)
15. Bolton Medical **(National PI)** 10/2016-6/2019
Clinical Study of the Safety and Efficacy of the Relay Pro Thoracic Stent-Graft in Patients with Thoracic Aortic Pathologies
16. Edwards Lifesciences LLC **(Co-I)** 7/2016-7/2018
Placement of Aortic Transcatheter valve trial 3 (PARTNER 3 trial)
17. Edwards Lifesciences LLC **(PI)** 7/16-10/2018
Transcatheter Mitral Valve Replacement CardiaQ-Edwards, An Early Feasibility Study
18. Bolton Medical **(National PI)** 10/1/17-current
A Prospective, Multicenter, Non Blinded, Non Randomized Early Feasibility Study of Relay Branch Thoracic Stent Graft System in Subjects with Thoracic Aortic Pathologies Requiring Treatment Proximal to the Origin of the Innominate Artery.
19. Edwards Lifesciences LLC **(co PI)** 10/1/17-current
Cardioband System ACTIVE Pivotal Clinical Trial
20. Edwards Lifesciences, LLC **(PI)**, 9/2018 – 7/2019
Centera Transcatheter aortic valve trial (ExCEED)
21. Edwards Lifesciences, LLC **(Co-I)**, 6/2019- current
Transcatheter mitral valve repair with Pascal, CLASP IID / F clinical trial
22. Boston Scientific **(Co-I)** 7/2019- 2021
Reprise III: Transcatheter aortic valve replacement clinical study
23. Edwards Lifesciences LLC **(PI)** 10/2018-present
MISCEND - Transcatheter Mitral Valve Replacement Evoque, An Early Feasibility Study
24. Edwards Lifesciences LLC **(Co-I)** 7/2020-2021
Transcatheter Tricuspid Valve Replacement Evoque, An Early Feasibility Study
25. Edwards Lifesciences LLC **(Co-PI)** 6/2021-present
TRISCEND – Transcatheter Tricuspid Valve Replacement Evoque, Pivotal Study
26. Edwards Lifesciences LLC **(PI)** 1/2021-present
RESTORE Trial: A prospective multi center trial to evaluate the safety and effectiveness of beating heart mitral valve repair with the HARPOON System

- 27. Cryolife (National PI), 2021**
A **Prospective**, Single **ARm**, Multi Center Clinical Investigation to **EValuatE** the Safety and Effectiveness of AMDS in the **TREatment** of Acute DeBakey Type I Dissection: **PERSEVERE**

- 28. Edwards Lifesciences, LLC (Co-I), Jan 2022**
Transcatheter tricuspid valve repair with Pascal, CLASP TR clinical trial

- 29. Corcym (Co-PI), August 2022**
MANTRA - Mitral, Aortic, and Tricuspid Post Market Study in a Real World Setting

- 30. Terumo Aortic (Co-PI), August 2022**
PANTHER – A prospective and retrospective, multi-centre, post-market, non-interventional study of Terumo Aortic knitted and woven grafts and cardiovascular patches

- 31. Ottawa Heart Institute Research Corporation (co-PI), January 2022**
TITAN:SvS – Treatment in thoracic aortic aneurysm: Surgery vs surveillance