

Curriculum Vitae

Thomas G. Gleason, M.D.

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Education

08/85-06/89	B.A. with High Honors	Chemistry	Middlebury College Middlebury, VT
08/89-06/93	M.D. with Highest Distinction	Medicine	Rush Medical College Chicago, IL
07/95-06/97	M.S.	Surgery/Immunology	University of Virginia Charlottesville, VA

Post Graduate Education and Training

07/93-06/94	Intern	Surgery	University of Virginia Health Sciences Center, Charlottesville, VA <i>Dr. R. Scott Jones, Chairman</i>
07/94-06/00	Resident	Surgery	University of Virginia Health Sciences Center, Charlottesville, VA <i>Dr. R. Scott Jones, Chairman</i>
07/95-06/97	Research Fellow	Infectious Disease/ Immunology	University of Virginia Charlottesville, VA <i>Dr. Timothy L. Pruett, Supervisor</i> <i>Dr. Thomas J. Braciale, Supervisor</i>
07/00-06/02	Resident	Cardiothoracic Surgery	Hospital of the University of Pennsylvania, Philadelphia, PA <i>Dr. Larry R. Kaiser, Chairman</i> <i>Dr. Timothy J. Gardner, Division Chief</i>
07/02-06/03	Fellow	Advanced Cardiac/ Thoracic Aortic Surgery	Hospital of the University of Pennsylvania, Philadelphia, PA <i>Dr. Michael A. Acker, Division Chief</i> <i>Dr. Joseph E. Bavaria, Director,</i> <i>Thoracic Aortic Surgery</i>

Certifications

2001, 2010, 2020 American Board of Surgery
 2003, 2013, 2021 American Board of Thoracic Surgery

Medical Licensures

1993 Virginia (inactive)
 2000 Pennsylvania (active)
 2004 Illinois (inactive)
 2020 Massachusetts (active)
 2021 Maryland (active)
 2022 North Carolina (active)

Employment History

Faculty Academic Appointments

07/00-06/03	Instructor	Surgery	University of Pennsylvania School of Medicine
07/03-06/04	Assistant Professor	Surgery	University of Pennsylvania School of Medicine
12/04-12/06	Assistant Professor	Surgery	Northwestern University Feinberg School of Medicine, Chicago, IL
12/06-06/10	Associate Professor	Surgery	University of Pittsburgh School of Medicine
07/10-12/14	Associate Professor	Cardiothoracic Surgery	University of Pittsburgh School of Medicine
07/12-12/15	Associate Professor	Bioengineering	Swanson School of Engineering University of Pittsburgh
11/14-4/20	Ronald V. Pellegrini Professor and Chief (endowed with tenure)	Cardiothoracic Surgery (Division of Cardiac Surgery)	University of Pittsburgh School of Medicine
01/15-4/20	Professor	Bioengineering	Swanson School of Engineering University of Pittsburgh
05/20-6/21	Faculty	Surgery	Harvard Medical School
06/21-4/22	Professor	Surgery	University of Maryland School of Medicine

Appointments at Affiliated Institutions

01/08-4/2020	Faculty	McGowan Institute of Regenerative Medicine, University of Pittsburgh
01/08-4/2020	Faculty	Center for Vascular Remodeling and

		Regeneration, University of Pittsburgh
08/20-present	Faculty, Research Affiliate	Institute for Medical Engineering and Science, Massachusetts Institute of Technology

Non-academic Appointments

05/22-present	Cardiothoracic Surgeon	Asheville Heart Mission Hospital, Asheville, NC
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Other Employment

2009-2020	Faculty CryoLifeAortic Valve/Aortic Root Boot Camp	Atlanta, GA 2 days per year
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Professional Society Memberships

Local/Regional Societies

1993-2000	Albemarle Medical Society
1993-2001	Virginia Medical Society
2004-2007	Illinois State Medical Society
2004-2007	Chicago Medical Society
2006-present	Allegheny County Medical Society
2006-present	Pennsylvania Medical Society

National and International Societies

1994-present	American Medical Association	Member
1995-present	Alpha Omega Alpha	Member
2000-present	Muller-Jones Society	Member
2003-present	Society of Thoracic Surgeons	Member
2003-present	American College of Surgeons	Fellow
2004-present	American College of Chest Physicians	Fellow
2004-present	American College of Cardiology	Fellow
2004-present	International Society of Heart and Lung Transplantation	Member
2005-present	Association for Academic Surgery	Member
2008-present	American Heart Association	Fellow
2008-present	AHA Council on Cardiovascular Surgery and Anesthesia	Member
2011-present	American Association for Thoracic Surgery	Member
2013-present	Thoracic Surgery Foundation	Member
2014-present	AATS-Cardiac Surgery Biology Club	Member
2016-present	American Surgical Association	Member/Fellow
2017-present	American Society of Clinical Investigation	Member

Honors and Awards

1996-1997	PHS, National Research Service Award, "Bacterial Exposure, T Cells and Surgical Infection"	National Institutes of Health	Scholarship
1997	Sixth Annual Joseph Susman Memorial Award for most significant manuscript presented	Seventeenth Annual Meeting, Surgical Infection Society	Best paper award
1998	Alpha Omega Alpha	AOA National Honor Society	Scholarship
1998	Upjohn Achievement Award for most outstanding surgical resident	Upjohn, Inc.	
1999	Eighth Annual Joseph Susman Memorial Award for most significant manuscript presented	Nineteenth Annual Meeting, Surgical Infection Society	Best paper award
2010	Cardiac Surgical Faculty of the Year	University of Pittsburgh Heart, Lung, and Esophageal Surgery Institute	Teaching
2012-2019	"Best Doctor's List" Thoracic Surgery	Pittsburgh Magazine	
2015	Cardiac Surgical Faculty of the Year	University of Pittsburgh Department of Cardiothoracic Surgery	Teaching
2018, 2019	"Best Doctor's List" Thoracic Surgery	Best Doctors in America	

Clinical Activities

Practice Activities:

2002-present Patient care, OR, Wards, Consults Minimum 5 days/week
 Cardiothoracic Surgery
 (Hospital of the University of Pennsylvania, 2002-2004; Northwestern Memorial Hospital, 2004-2006, UPMC Presbyterian/Shadyside University Hospitals, 2006-2020; Brigham & Women's Hospital, 2020-2021, University of Maryland Medical Center, 2021-2022, Mission Hospital, 2022-present)

Administrative Service

Institutional Service

2004-2006	Director, Thoracic Aortic Surgery Program	Bluhm Cardiovascular Institute, Northwestern Memorial Hospital
2006-2020	Director, Center for Thoracic Aortic Disease, Department of Cardiothoracic Surgery	Heart and Vascular Institute University of Pittsburgh Medical Center (UPMC)

2006-2020	Co-Director, Center for Heart Valve Disease, Department of Cardiothoracic Surgery	Heart and Vascular Institute, UPMC
2007-2012	Course Director, Thoracic Aortic Conference (format changed in 2012) (see below) Department of Cardiothoracic Surgery	University of Pittsburgh School of Medicine
2010-2020	Course Director, Mock Orals Program Department of Cardiothoracic Surgery	University of Pittsburgh School of Medicine
2010-2013	Director of Quality, Department of Cardiothoracic Surgery	UPMC
2011-2014	Chief, Division of Cardiovascular Surgery	UPMC–Shadyside
2012-2020	Course Director, Weekly M & M Conference, Cardiac Case Conference, and Aortic Conference, Department of Cardiothoracic Surgery, Division of Cardiac Surgery	University of Pittsburgh School of Medicine
2014-2020	Chief, Division of Cardiac Surgery Department of Cardiothoracic Surgery	University of Pittsburgh School of Medicine
2014-2020	Co-Chair Faculty Promotions Committee, Department of Cardiothoracic Surgery	University of Pittsburgh School of Medicine
2016-2020	Co-Director, Heart and Vascular Institute	UPMC
2020-2021	Chief, Division of Cardiac Surgery	Brigham & Women's Hospital
2020-2021	Co-Executive Director, Heart and Vascular Center	Brigham & Women's Hospital
2014-present	Course Director, Rocky Mountain Valve Symposium	The International Heart Institute of Montana Foundation
2021-2022	Director of Cardiac Surgery Research	University of Maryland School of Medicine

Local and National Service

Local Service

2007-2020	M & M Conference Committee, Division of Cardiothoracic Surgery, UPMC	Chair
2007-2014	UPMC–Shadyside M & M Conference Committee	Co-Chair
2007-2020	Cardiac Surgery Practice Taskforce, Department of Cardiothoracic Surgery, UPMC	Chair
2008-2020	Residency Program Education Committee Department of Cardiothoracic Surgery, UPMC	Member
2008-2020	UPMC Surgical Team Innovation Committee	Member
2009-2020	UPMC–Shadyside PVI Oversight Committee	Member
2009-2018	UPMC–Shadyside Physician & Anesthesia Advisory Group	Member
2009-2020	UPMC Presbyterian Shadyside CV Services Leadership Group	Member
2010-2016	UPMC Heart & Vascular Assessment Team	Member
2011-2020	UPMC CVOP Pre-Op Team	Member
2011-2020	UPMC CVOP Post-Op Team	Member
2011-2016	UPMC Cardiothoracic Oversight Committee	Member
2011-2013	UPMC Faculty Promotions Committee, Department of Cardiothoracic Surgery	Member
2012-2020	UPMC–Shadyside Ethics Committee	Member
2013-2020	I-6 Residency Committee Department of Cardiothoracic Surgery, UPMC	Member
2013-2020	Clinical Competency Committee Department of Cardiothoracic Surgery, UPMC	Member

National/International Service

	Society of Thoracic Surgeons	
2005-2010	Taskforce of Guidelines for Thoracic Aortic Surgery	Chair
2006-2012	Endovascular Surgery Taskforce	Member
2006-2012	Workforce on Evidence-Based Surgery	Member
2017-present	Writing Committee for AATS/ACC/SCAI/STS Transcatheter Aortic Valve Replacement Requirements	Member
2017-present	STS/ACC National Transcatheter Valve Technology (TVT) Steering Committee	Member
2021-present	STS/ACC TVT Research and Publications Committee	

	Board of Directors	Co-Chair Director-at Large
2011-2015	American College of Cardiology Valvular Heart Disease, Aortic Working Group Committee	Member
2008-present 2019-2021	American Heart Association Council on Cardiovascular Surgery and Anesthesia Writing Group for Imaging and Surveillance of Chronic Aortic Dissection, Scientific Statement	Member Member
2018-2021 2020-2021	American Association for Thoracic Surgery STS/AATS Writing Committee for Guideline on Type B Aortic Dissection Writing Committee for Guideline on Type A Aortic Dissection	Member Member
2013-2021	Thoracic Surgery Foundation Research and Education Committee	Member
2011-present	Medtronic CoreValve US Pivotal Trial: National Steering Committee	Member
2011-present	Medtronic CoreValve US Pivotal Trial: National Screening Committee	Member
2012-present	SURTA VI Trial: National Steering Committee	Member
2012-present	SURTA VI Trial: National Screening Committee	Member
2013-present	CoreValve US Pivotal Trial: Publication Committee	Member
2014-present	Reprise III Trial: National Steering Committee	Member
2014-present	Reprise III Trial: National Case Review Committee	Member
2018-present	Global Accurate/Lotus Steering Committee	Member

Other Committees

1994-1998 Middlebury College Alumni Admissions Committee Virginia Chapter (Chairman)

Editorial Activities:

2003-present Ad hoc Reviewer, Annals of Thoracic Surgery

2003-present	Ad hoc Reviewer, Journal of Thoracic and Cardiovascular Surgery
2004-present	Ad hoc Reviewer, Journal of American College of Cardiology
2005-present	Ad hoc Reviewer, European Journal of Cardio-thoracic Surgery
2007-2015	Ad hoc Reviewer, Circulation
2016-present	Editorial Board, Circulation

Grant Review Activities:

2013-2014	Bioengineering, Technology, and Surgical Sciences Study Section (National Heart, Lung and Blood Institute, National Institutes of Health)	Ad Hoc Member
2014-2019	Bioengineering, Technology, and Surgical Sciences Study Section (National Heart, Lung and Blood Institute, National Institutes of Health)	Permanent Member

Teaching Service**Formal Teaching of Residents, Clinical Fellows, and Research Fellows (post-docs):****Didactic and Socratic Teaching Conferences**

For medical students, residents, and fellows

University of Pennsylvania

2002 – 2004	Cardiac Surgery Morbidity and Mortality	1 hr/week
2002 – 2004	Grand Rounds	2 hrs/year

Northwestern University

2004 – 2006	Cardiac Surgery Morbidity and Mortality	1 hr/week
2004 – 2006	Cardiac Surgery Case Conference	1 hr/week
2004 – 2006	Grand Rounds	3 hrs/year

University of Pittsburgh

2006 – 2020	Cardiac Surgery Morbidity and Mortality	1 hr/week
2006 – 2020	Cardiac Surgery Case Conference	1 hr/week
2006 – 2020	Thoracic Aortic Conference	1 hr/week
2006 – 2020	Grand Rounds	4 hrs/year
2007 – 2020	Cardiac Surgical Wet Lab	12 hrs/year

Brigham & Women's Hospital

2020 – 2021	Cardiac Surgery Morbidity and Mortality	1 hr/week
2020 – 2021	Cardiac Surgery Chief's Conference	1 hr/week
2020 – 2021	Grand Rounds	1 hr/week

University of Maryland

2021-present	Cardiac Surgery Morbidity and Mortality	1 hr/biweek
2021-present	Grand Rounds	1 hr/week
2021-present	Cardiac Surgery Resident Didactic	1 hr/week
2021-present	Medical Student Cardiac Surgery Lecture	1 hr/quarter yr

Clinical Supervisory and Training Responsibilities:

2002 – present Supervise Residents: OR, Ward rounds, Clinic 60-80 hrs/week

Laboratory and Other Research Supervisory and Training Responsibilities:

University of Pennsylvania (2002-04), Northwestern University (2004-06) University of Pittsburgh (2006-20), Brigham & Women's Hosp. (2020-21), University of Maryland (2021-present)

2002 – present	Undergraduate and graduate students	1-2 hrs/week
2006 – 2020	School of Medicine Proctor/Mentor Summer Research Project program	1-2 students/year
2002 – present	Thoracic Aortic Disease Research Laboratory meeting	2 hrs/week
2011 – present	Thoracic Aortic Disease Research/Bioengineering Joint Laboratory Meeting	2 hrs/biweek

Mentored Trainees and Faculty:

Traves D. Crabtree (1997-00) Professor, Department of Surgery, Southern Illinois School of Medicine
Career stage when mentored: Resident. Mentoring role: scientific research advisor. Associated Accomplishments: 20 peer-reviewed publications and 1 book chapter.

Sean Pelletier (1998-00) Associate Professor of Surgery, University of Virginia Health Sciences Center. Career stage when mentored: Resident. Mentoring role: scientific/clinical research advisor. Associated Accomplishments: 16 peer-reviewed publications.

Daniel P. Raymond (1998-00) Thoracic Surgeon, Cleveland Clinic Foundation. Career stage when mentored: Resident and fellow. Mentoring role: scientific/clinical research advisor. Associated Accomplishments: 9 peer-reviewed publications.

Bradley G. Leshnower (2000-present) Associate Professor of Surgery, Emory University School of Medicine
Career stage when mentored: Resident, fellow, faculty. Mentoring role: scientific/clinical research/career advisor. Associated Accomplishments: 5 peer-reviewed publications and 1 book chapter.

Frank W. Bowen, III (2000-04) Associate Professor of Surgery, Director, Thoracic Aortic Surgery, Cooper Medical School of Rowan University. Career stage when mentored: Resident, fellow. Mentoring role: scientific/clinical research advisor. Associated Accomplishments: 1 peer-reviewed publication.

Wilson Szeto (2000-04) Professor of Surgery, University of Pennsylvania Perelman School of Medicine. Career stage when mentored: Resident, fellow, faculty. Mentoring role: scientific/clinical research advisor. Associated accomplishments: 5 peer-reviewed publications and 1 review.

- T. Sloane Guy (2000-04) Professor of Cardiothoracic Surgery, Thomas Jefferson University School of Medicine. Career stage when mentored: Resident, fellow, faculty. Mentoring role: clinical/career advisor.
- Paul W.M. Fedak (2004-present) Professor and Chief of Cardiac Surgery, Libin Cardiovascular Institute of Alberta, Cumming School of Medicine, University of Calgary, Calgary, Alberta, Canada. Career stage when mentored: Fellow, faculty. Mentoring role: scientific/clinical research/career advisor. Associated Accomplishments: 2 peer-reviewed publications.
- Ekaterina A. Klyachko (2004-06) Team Science Program Administrator, Northwestern University Clinical and Translational Sciences Institute. Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor. Associated Accomplishments: 1 peer-reviewed publication.
- Gyu Gang (2004-06) Health System Clinician of Cardiac Surgery, Northwestern University School of Medicine. Career stage when mentored: Resident, fellow. Mentoring role: clinical/career advisor.
- Duk T. Pham (2004-06) Associate Professor of Surgery, Northwestern University School of Medicine. Career stage when mentored: Resident, fellow. Mentoring role: clinical/career advisor. Associated Accomplishments: 1 review.
- John de Graft-Johnson (2006-08) Cardiothoracic Surgeon, Modesto, CA. Career stage when mentored: Resident, fellow. Mentoring role: clinical research advisor. Associated Accomplishments: 1 peer-reviewed publication.
- Omar Awais (2006-08) Assistant Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, faculty. Mentoring role: clinical/career advisor.
- Jay K. Bhama (2007-20) Professor and Chief, Division of Cardiovascular Surgery, University of Arkansas for Medical Sciences. Career stage when mentored: Fellow, faculty. Mentoring role: clinical research/career advisor. Associated Accomplishments: 1 review.
- Julie A. Phillippi (2007-present) Associate Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Post-doctoral research fellow, faculty. Mentoring role: scientific research/career advisor. Associated Accomplishments: 24 peer-reviewed publications and 1 chapter.
- Chris C. Cook (2007-present) Associate Professor of Surgery, West Virginia University School of Medicine. Career stage when mentored: Resident, faculty. Mentoring role: clinical research/career advisor. Associated Accomplishments: 1 peer-reviewed publication and 4 chapters/reviews.

- Aditya Bansal (2007-09) Senior Staff Surgeon, Ochsner Clinic Foundation. Career stage when mentored: Resident, fellow, faculty. Mentoring role: clinical/career advisor.
- Enrique Gongora (2007-09) Associate Professor of Surgery, University of Alabama, Birmingham
Career stage when mentored: Fellow. Mentoring role: clinical research advisor. Associated Accomplishments: 1 chapter.
- Ryan Levy (2008-present) Assistant Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, fellow, faculty. Mentoring role: clinical/career advisor.
- Shamus Carr (2009-11) Associate Chief, Thoracic Surgery, Associate Professor of Surgery, University of Maryland School of Medicine. Career stage when mentored: Resident. Mentoring role: clinical/career advisor.
- Dhaval Trivedi (2009-present) Senior Staff Cardiac Surgeon, Kaiser Permanente Los Angeles Medical Center. Career stage when mentored: Post-doctoral research fellow. Mentoring role: clinical research/career advisor. Associated Accomplishments: 2 peer-reviewed publications and 2 chapters/reviews.
- Roman Petrov (2010-12) Assistant Professor of Thoracic Medicine and Surgery, Temple University
Career stage when mentored: Resident. Mentoring role: clinical/career advisor.
- Takeyoshi Ota (2010-2012) Associate Professor of Surgery, University of Chicago School of Medicine
Career stage when mentored: Fellow, faculty. Mentoring role: clinical research/career advisor. Associated Accomplishments: 4 peer-reviewed publications.
- Salvatore Pasta (2010-12) Professor, Department of Engineering, Viale Delle Scienze, Università degli Studi di Palermo. Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor. Associated Accomplishments: 6 peer-reviewed publications and 1 chapter.
- Maxim Gluhovksy (2011-13) Cardiac Surgeon, West Reading, Pennsylvania. Career stage when mentored: Resident, fellow. Mentoring role: clinical/career advisor.
- Trevor Weis (2011-12) Medical student, Duke University. Career stage when mentored: Undergraduate student University of Pittsburgh. Mentoring role: scientific research advisor.
- Muhammad Faraz Masood (2011-13)
Assistant Professor of Surgery, Washington University School of Medicine
Career stage when mentored: Resident, faculty. Mentoring role: clinical/career advisor.
- David Odell (2012-13) Associate Professor of Surgery, Northwestern University Feinberg School of Medicine. Career stage when mentored: Resident. Mentoring role: clinical/career advisor.

- Melissa Anastacio (2012-14) Director, Cardiac Surgical ICU, Medstar Health, Washington, D.C. Career stage when mentored: Resident. Mentoring role: clinical/career advisor.
- Alkiviadis Tsamis (2012-14) Lecturer, University of Leicester School of Engineering, Leicester, UK Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor. Associated Associated accomplishments: 7 peer-reviewed publications.
- Mary P. Kotlarczyk (2012-14) Research Assistant Professor, Department of Medicine, Division of Geriatric Medicine, University of Pittsburgh. Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor. Associated Associated accomplishments: 6 peer-reviewed publications
- Joseph E. Pichamuthu (2012-14) Staff Pharmacist. Career stage when mentored: Graduate Student. Mentoring role: scientific research advisor. Associated Associated accomplishments: 1 peer-reviewed publication.
- Jacqueline Birkness (2013) Undergraduate, University of Pittsburgh. Career stage when mentored: Undergraduate. Mentoring role: scientific research advisor.
- Paul VanRyzin (2013-15) PhD Candidate, Notre Dame College of Engineering. Career stage when mentored: Undergraduate. Mentoring role: scientific research advisor.
- Riley Herrmann (2014) Undergraduate student, Duke University. Career stage when mentored: High school student. Mentoring role: scientific research advisor.
- Marie Billaud (2014-present) Research Assistant Professor, University of Pittsburgh School of Medicine Career stage when mentored: Post-doctoral research fellow, faculty. Mentoring role: scientific research advisor. Associated Associated accomplishments: 8 peer-reviewed publications.
- Julianna Buchwald (2014-16) MD-PhD Candidate, University of Massachusetts. Career stage when mentored: Undergraduate student. Mentoring role: scientific research advisor.
- Patrick G. Chan (2014-present) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, post-doctoral research fellow. Mentoring role: clinical/scientific research advisor. Associated Associated accomplishments: 7 peer-reviewed publications.
- Laura Seese (2014) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, post-doctoral research fellow. Mentoring role: clinical/scientific research advisor. Associated Associated accomplishments: 12 peer-reviewed publications.
- Arturo J. Cardounel (2014-present) Chief Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, post-doctoral

- research fellow. Mentoring role: clinical/scientific research advisor. Associated Accomplishments: 2 peer-reviewed publications.
- Garret N. Coyan (2015-20) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident, post-doctoral research fellow. Mentoring role: clinical/scientific research advisor. Associated accomplishments: 3 peer-reviewed publications and 1 review.
- George Fercana (2015-18) Robotics Systems Engineer, Smith & Nephew, Pittsburgh, PA. Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor. Associated Accomplishments: 1 peer-reviewed publication.
- Roy Navid (2015) Undergraduate Student, Trinity College at the University of Cambridge, England. Career stage when mentored: High school student. Mentoring role: scientific research advisor.
- Paul VanRyzin (2015-16) Associate Clinical Specialist, Medtronic, Inc. Career stage when mentored: Undergraduate. Mentoring role: scientific research advisor.
- Joao Cavalcante (2015-20) Director, Cardiovascular Imaging, Minnesota Heart Institute, Abbott Northwestern Hospital. Career stage when mentored: Faculty. Mentoring role: clinical research/career advisor. Associated Accomplishments: 16 peer-reviewed publications.
- Partha D. Thirumala (2015-20) Associate Professor of Neurological Surgery, Director, Center for Clinical Neurophysiology, University of Pittsburgh School of Medicine Career stage when mentored: Faculty. Mentoring role: clinical research advisor. Associated Accomplishments: 11 peer-reviewed publications
- David Pennywell (2015-18) Staff Cardiac Surgeon, Arkansas Heart Hospital, Little Rock, Arkansas Career stage when mentored: Resident, fellow. Mentoring role: clinical/career advisor.
- Lionel Emerel (2015-present) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine Career stage when mentored: Resident, post-doctoral research fellow. Mentoring role: clinical/scientific research advisor. Associated Accomplishments: 2 peer-reviewed publications.
- Valentino Bianco (2016-2020) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine Career stage when mentored: Resident. Mentoring role: clinical research advisor. Associated Accomplishments: 28 peer-reviewed publications.
- McKenzie Hartman (2016) Undergraduate Student, Case Western Reserve University Career stage when mentored: High school student. Mentoring role: scientific research advisor.

- Ahmad Masri (2016-18) Assistant Professor of Medicine, Division of Cardiovascular Medicine, Oregon Health & Science University. Career stage when mentored: Post-doctoral research fellow. Mentoring role: clinical research advisor. Associated accomplishments: 8 peer-reviewed publications.
- Mohammed Alaeddine (2016-18) Cardiothoracic Surgeon, Phoenix Children's Hospital. Career stage when mentored: Resident. Mentoring role: clinical /career advisor.
- Fernando Safdie (2016-18) Cardiothoracic Surgeon, Mount Sinai Medical Center. Career stage when mentored: Resident. Mentoring role: clinical /career advisor.
- Lauren Huckaby (2016-present) Postdoctoral research fellow, Thoracic Aortic Disease Research Laboratory, University of Pittsburgh School of Medicine
Career stage when mentored: Resident, post-doctoral research fellow.
Mentoring role: clinical/scientific research advisor.
- Joshua Schneider (2017-18) Medical student, Duke University. Career stage when mentored: Undergraduate student University of Pittsburgh. Mentoring role: scientific research advisor.
- Ibrahim Sultan (2017-present) Assistant Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Faculty. Mentoring role: scientific/clinical research/career advisor. Associated accomplishments: 58 peer-reviewed and 3 editorials/reviews.
- Chris Sciortino (2017-20) Assistant Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Faculty. Mentoring role: scientific/clinical research/career advisor.
- Brett Duncan (2017-present) Thoracic Aortic Fellow, University of Pittsburgh School of Medicine
Career stage when mentored: Resident, fellow. Mentoring role: clinical/career advisor.
- Nathaniel I. Costin (2017) Medical Student, University of Michigan School of Medicine. Career stage when mentored: Medical student. Mentoring role: clinical research advisor. Associated accomplishments: 1 peer-reviewed publication.
- Keith Dufendach (2017-present) Senior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Resident. Mentoring role: clinical/scientific research advisor. Associated accomplishments: 22 peer-reviewed publications and 1 review.
- Arman Kilic (2018-present) Assistant Professor of Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Faculty. Mentoring role: scientific/clinical research/career advisor. Associated accomplishments: 50 peer-reviewed publications and 2 editorials/reviews.
- Edgar Aranda-Michel (2018-20) Medical Student, University of Pittsburgh School of Medicine. Career stage when mentored: Medical student. Mentoring role: clinical/scientific

research advisor. Associated accomplishments: 22 peer-reviewed publications.

Bryant Fisher (2018-present) Junior Resident in Cardiothoracic Surgery, University of Pittsburgh School of Medicine. Career stage when mentored: Medical student (Dean's Summer Research Program), resident. Mentoring role: clinical/scientific research advisor.

Alison M. Pouch (2018-present) Assistant Professor of Radiology, University of Pennsylvania Perelman School of Medicine. Career stage when mentored: Post-doctoral research fellow, faculty. Mentoring role: scientific research advisor.

Andreas Habertheuer (2019-present) Postdoctoral research fellow, Thoracic Aortic Disease Research Laboratory, University of Pittsburgh School of Medicine. Career stage when mentored: Post-doctoral research fellow. Mentoring role: clinical/scientific research advisor. Associated accomplishments: 1 peer-reviewed publication.

Marco T. Boskovski (2020-21) Assistant Professor of Surgery, University of California at San Francisco. Career stage when mentored: Senior Resident in Cardiothoracic Surgery. Mentoring role: clinical/scientific research advisor. Associated accomplishments: 1 peer-reviewed publication.

Kareem Bedeir (2020-present) Attending Surgeon, Cardio-thoracic and Vascular Surgical Associates, Infirmary Health, Mobile, Alabama. Career stage when mentored: Senior Resident in Cardiothoracic Surgery. Mentoring role: clinical/scientific research advisor. Associated accomplishments: 1 peer-reviewed publication.

Jose Aguilar Cosme (2021-present) Postdoctoral research fellow, Thoracic Aortic Disease Research Laboratory, University of Maryland School of Medicine. Career stage when mentored: Post-doctoral research fellow. Mentoring role: scientific research advisor.

Grant Support

Active Grants

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|-----------------------|---|
| 08/01/2017-07/31/2022 | Matrix Mediated Vasa Vasorum Dysfunction in Thoracic Aortic Disease
National Heart, Lung, and Blood Institute (NIH)
5RO1 HL131632-01A1 (Phillippi)
Co-investigator (10%): \$1,901,221
Goals: This project aims to determine how extracellular matrix of TAA affects remodeling and endothelial function of vasa vasorum, and to identify what matrix signals are necessary for regeneration of functional vasa vasorum. |
| 08/01/2018-07/31/2023 | The Role of Telomerase in Calcific Aortic Valve Disease
National Heart, Lung, and Blood Institute (NIH)
1RO1 HL142932-01 (St Hilaire)
Co-investigator (5%): \$2,324,200 |

Goals: The objective of this proposal is to define TERT's contribution to CAVD through its non-canonical actions and to identify a novel mechanism regulating CAVD pathogenesis.

10/01/2020-09/30/2024

ROS Mechanisms in BAV Aortopathy
National Heart, Lung, and Blood Institute (NIH)
2R01 HL109132-06
PI (5%) \$3,896,834

Goals: The primary objectives of this proposal are to 1) identify the inciting factors of oxidative stress-induced aortic extracellular matrix remodeling (with ascending aortic aneurysm formation) and 2) develop a multi-parameter, patent-specific (bio)imaging-based interrogation strategy, designed from newly established correlations of biological, biomechanical, and imaging indices, to predict aneurysm progression and/or dissection potential.

Completed Grants

07/01/1996-06/30/1998

Bacterial Exposure, T Cells and Surgical Infection
National Institute of Allergy and Infectious Diseases
(NIH) 1 F32 AI009482-01A1
PI: \$62,400 (Mentor: Pruett)

Goals: The goal of this project is to assess the matrix remodeling, mechanical properties, thrombosis, and intimal hyperplasia of our endothelialized, biomimetic, and compliance matched tissue engineered vascular graft.

06/06/2011-05/31/2015

Echocardiography to Predict Recurrent IMR after Surgical Mitral Valve Repair
National Heart, Lung, and Blood Institute (NIH)
1 R01 HL103723-01A1 (PI – Robert Gorman)
Subcontract PI (7.5%): \$2,857,555 (\$375,033)
Subcontract with University of Pennsylvania & Beth Israel Deaconess Medical Center

Goals: The goal of this project is to develop an echocardiographic-based technique to predict, preoperatively, the degree of recurrent IMR that can be expected for individual patients within the first year after MV repair with ring annuloplasty.

05/01/2012-04/30/2018

ROS Mechanisms in BAV Aortopathy
National Heart, Lung, and Blood Institute (NIH)
1 R01 HL109132-01A1
PI: (\$2,824,187)

Goals: This project tested the hypothesis that reactive oxygen species (ROS) accumulation in aortic smooth muscle cells (SMCs) mediates the aortopathy in patients with bicuspid aortic valve (BAV); it defined changes in SMC phenotype, ECM composition and architecture, and biomechanical tensile and delamination strengths and showed these changes were associated with ROS accumulation in BAV aortopathy.

01/15/2013-12/31/2014

Autologous Stem Cell-Based Tissue-Engineered Vascular Grafts

National Heart, Lung, and Blood Institute (NIH)
 1R21EB01613-02 (Vorp)
 Co-Investigator (5%): \$413,604
 Goals: The overall goal of this proposal is to begin the process of clinical translation of our novel, autologous, stem cell-based tissue-engineered vascular grafts.

2013-2015 A Perivascular Stem Cell Network in the Human Adult Aorta
 University of Pittsburgh
 Competitive Medical Research Fund; \$25,000 (total direct)
 Co-investigator: \$25,000
 Goals: This project will test the hypothesis that the vasa vasorum of the human adult thoracic aorta is a repository of multi-potential progenitor cells capable of differentiating towards the smooth muscle and endothelial lineages.

09/15/2015-09/15/2016 Engineered Neovascularization of Vasa Vasorum
 National Heart, Lung, and Blood Institute (NIH)
 1 R56 HL127214-01A1
 Co-Investigator (5%): \$2,824,187
 Goals: The goal of this project is to comprehensively characterize adventitial extracellular matrix (ECM) composition and microarchitecture in TAA and healthy adventitia and define how local adventitial cells impact ECM remodeling and biomechanical strength.

09/26/2017-09/26/2018 Preclinical Assessment of a Compliance Matched Biopolymer Vascular Graft
 National Heart, Lung, and Blood Institute (NIH)
 1R56HL136517-01 (Vande Geest)
 Co-Investigator (3.3%): \$672,682
 Goals: The goal of this project is to assess the matrix remodeling, mechanical properties, thrombosis, and intimal hyperplasia of our endothelialized, biomimetic, and compliance matched tissue engineered vascular graft.

Prior Research Support:

06/01/2007-12/21/2012 Seed funding
 University of Pittsburgh Medical Center
 PI

Training Grants and Mentored Trainee Grants:

01/01/2013-12/31/2014 The Role of eNOS in Bicuspid Aortic Valve Aortopathy
 American Heart Association
 13POST14570000
 Sponsor/Mentor (for Kotlarczyk): \$91,000
 Goals: The goal of this Post-Doctoral Fellowship Award was to determine the influence of endothelial nitric oxide synthase (eNOS) on

- manifestations of the aortopathy associated with bicuspid aortic valve (BAV).
- 07/01/2015-06/30/2020 Vascular Surgery Research Training (Vasctrain) Program
National Heart, Lung, and Blood Institute (NIH)
5T32 HL098036-10 (Tzeng)
Co-investigator/Mentor: \$1,958,428
- 09/30/2016-09/30/2018 Role of Collagen Microarchitecture in Oxidative Stress-Induced Cell
Damage in BAV Aortopathy
National Heart, Lung, and Blood Institute (NIH) 1 F32 HL137297-01
Sponsor/Mentor (for Chan) \$78,078
- 07/01/2016-06/30/2021 Training Program in Imaging Sciences in Translational Cardiovascular
Research
National Heart, Lung, and Blood Institute (NIH)
5T32 HL129964-04 (Villanueva)
Co-investigator: \$1,489,133
- 07/01/2017-6/30/20219 Mechanical Stretch-Induced Oxidative and Extracellular Matrix
Remodeling in Bicuspid Valve Aortopathy
American Heart Association Clinical Scientist Training Program Award
17CPOST33660203 (\$140K)
Sponsor/Mentor (for Emerel): \$140,000
- 07/01/2017-6/30/20219 Sex-specific Mechanisms of Bicuspid Aortic Valve Aortopathy
Thoracic Surgery Foundation
Nina Starr Braunwald Research Fellowship Award
Sponsor/Mentor (for Huckaby): \$60,000
- 08/01/2018-07/31/2020 A platform for outcomes data sharing and pre-operative image-guided
mechanistic assessment for bicuspid aortic valve surgery
National Heart, Lung, and Blood Institute (NIH)
KO1 HL141643
Co-mentor (for Pouch): \$321,123

Grants Submitted:

- 07/01/2016-06/30/2021 Cardiothoracic Surgery Research Training
National Institutes of Health
1 T32 HL154982-01 (Luketich-PI, Gleason MPI)
MPI/Co-director: \$1,475,508 (Total directs budgeted)

IRB-Approved Research Protocols (Active):

UMB IRB # HP-00096852

Title: Characterization of Thoracic Aortic Diseases
Sponsor: Departmental research funds and NHLBI
Principal Investigator: Thomas Gleason, MD

UMB IRB # HP-00096514

Title: Hypoxyprobe
Sponsor: Departmental research funds and NHLBI
Principal Investigator: Thomas Gleason, MD

UMB IRB # HP-00079899
Title: REFRESH II
Sponsor: Cytosorbents
National Principal Investigator: Thomas Gleason, MD

IRB-Approved Research Protocols (Completed):

BWH IRB # 2020P00095
Title: Role of Valve-Mediated Hemodynamics on Bicuspid and Tricuspid Aortopathy
Sponsor: NHLBI/Brigham & Women's Hospital
Principal Investigator: Thomas Gleason, MD

BWH IRB # 2020P000962
Title: Detection of hypoxia in human thoracic aorta using pimonidazole HCl
Sponsor: NHLBI/Brigham & Women's Hospital
Principal Investigator: Thomas Gleason, MD

BWH IRB # 2020P000953
Title: Genetic and Molecular characterization of Ascending, Descending and Abdominal Aortic Diseases in Patients Undergoing Surgery of the Aortic Valve and/or Aorta
Sponsor: NHLBI/Brigham & Women's Hospital
Principal Investigator: Thomas Gleason, MD

MGB IRB # 2019P001297
Title: Clinical Trial to Evaluate the Safety and Effectiveness of The Portable Organ Care System (OCS™) Heart For Resuscitation, Preservation and Assessment of Hearts from Donors after Circulatory Death (DCD Heart Trial)
Sponsor: MGH/BWH
Principal Investigator: David D'Alessandro, MD (Co-I Thomas Gleason, MD)

PITT IRB # PRO07010065
Title: Aortic Valve Operative Outcomes in Marfan Patients
Sponsor: National Marfan Foundation, Baylor College of Medicine
Principal Investigator: Thomas Gleason, MD

PITT IRB # PRO07020120
Title: Genetic and Molecular Characterization of Ascending Aortic Diseases in Patients Undergoing Surgery of the Aortic Valve and/or Aorta
Sponsor: Departmental research funds and NHLBI
Principal Investigator: Thomas Gleason, MD

PITT IRB # PRO08050238

Title: Cardiac Surgery and Thoracic Aortic Surgery Research Registry
Sponsor: Departmental support
Co-Principal Investigator: Thomas Gleason, MD

PITT IRB # 0508144

Title: Bipolar Radiofrequency Ablation – Role in Prevention of Postoperative Atrial Fibrillation
Sponsor: Investigator initiated supported with grant from Atricure
Co-Investigator: Thomas Gleason, MD

PITT IRB # 0506010

Title: Genomics and Postoperative Atrial Fibrillation
Sponsor: Investigator initiated supported with CMRF grant
Co-Investigator: Thomas Gleason, MD

PITT IRB # PRO07030146, CTO: 18533

Title: ANSWER – Anticoagulation Strategy with Bioprosthetic Valves Post Operative Registry
Sponsor: St. Jude Medical, Inc. CRO: DCRI
Co-Investigator: Thomas Gleason, MD

PITT IRB # PRO0712022

Title: Novel Computational 3D Dynamic Motion Model of the Human Heart, Pre-surgical Planning and CFD Optimization in Cardiac Surgery Patients
Co-Investigator: Thomas Gleason, MD

WIRB Pr. No. 20090201, CTO: 18204

Title: THRIVE – Descending Thoracic Aortic Aneurysm Endovascular Repair Post Approval Study
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20101619, CTO: 18426 / 18551

Title: Medtronic CoreValve® U.S. Pivotal Trial
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20111243

Title: WIRB Study No.: 1128366
Evaluation of XIENCE PRIME™ or XIENCE V® versus Coronary Artery Bypass Surgery for Effectiveness of Left Main Revascularization
Sponsor: Abbott Cardiovascular Systems, Inc.
Co-Investigator: Thomas Gleason, MD

IRB Pr. No PRO10120001

Sponsor: Echocardiography to Predict Recurrent IMR after Surgical MVR
NIH
Principal Investigator: Thomas Gleason, MD

Pitt IRB # PRO10030488

Title: The International Registry of Aortic Dissection (IRAD)
Sponsor: University of Michigan
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: #20120157 WIRB Study No.: 1131347
Title: Medtronic CoreValve® Continued Access Study
Sponsor: Medtronic, Inc.
Co-Investigator: Thomas Gleason, MD

Pitt IRB Pr. No. 20120299 WIRB Study No.: 1132462
Title: Use of the Zenith® Dissection Endovascular System in the Treatment of Patients
Sponsor: Cook Medical, Inc.
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No. 2012169 WIRB Study No. 1137584
Title: Use of the Zenith® TX2® Low Profile Endovascular Graft for Treatment of Blunt Thoracic Aortic Injury
Sponsor: Cook Medical, Inc.
Principal Investigator: Thomas Gleason, MD

Pitt IRB Pr. No: 20121435 WIRB Study No. 1136086
Title: CoreValve Expanded Use Study
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD, and Joon Lee, MD

WIRB Pr. No: 20121468 WIRB Study No. 1136291
Title: SURTAVI
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD, and Joon Lee, MD

Pitt IRB PR No: 13010594
Title: Arterial Stiffness and Wave Reflections as Determinants of Regression of Left Ventricular Hypertrophy and Fibrosis Assessed with Cardiac MRI After Aortic Valve Replacement for Severe Aortic Stenosis
Sponsor: ACRIN
Sub- Investigator: Thomas Gleason, MD

Pitt IR No. PRO14010462
Title: Retrospective Review of Outcomes of Patients Having Undergone Left Carotid Transposition With or Without Concomitant TEVAR
Sponsor: Departmental research funds
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No:20131339
Title: A Phase II, Randomized, Placebo-Controlled, Double-Blind (Sponsor Open) Study of GSK1278863, a HIF-Prolyl Hydroxylase Inhibitor, to Reduce Ischemic Events in Patients Undergoing Thoracic Aortic Aneurysm Repair
Sponsor: GlaxoSmithKline
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No. 20140245
Sponsor: CSL Behring

Title: A Retrospective Chart Review Study to Investigate Bleeding Risk and Blood Transfusion Requirements in Patients Undergoing Complex Cardiovascular Surgery in the United States”

Principal Investigator Thomas Gleason, MD

WIRB: Pr. No. 20141313

Sponsor: Medtronic, Inc.

Title: Medtronic CoreValve® Evolut™ R Clinical Study

Principal Investigator Thomas Gleason, MD

WIRB Pr. No. 1143684

Sponsor: St. Jude Medical, Inc.

Title: Portico™ Re-sheathable transcatheter Aortic Valve System US IDE Trial (Portico)

Principal Investigator Thomas Gleason, MD

WIRB Pr. No. 20141735

Sponsor: Boston Scientific, Inc.

Title: REPRISE III: REpositionable Percutaneous Replacement of Stenotic Aortic Valve through Implantation of Lotus™ Valve System—Randomized Clinical Evaluation

Principal Investigator Thomas Gleason, MD

WIRB Pr. No. 20151110

Sponsor: Cytosorbant, Inc.

Title: Cytosorb reduction of free hemoglobin during cardiac surgery (REFRESH I Trial)

Principal Investigator Thomas Gleason, MD

WIRB Pr. No. 20160159

Sponsor: Terumo Cardiovascular Systems Corporation

Title: Evaluation of the Thoraflex™ Hybrid Device for Use in the Repair or Replacement of the Ascending Aorta, Aortic Arch and Descending Aorta in an Open Surgical Procedure.

Principle Investigator Thomas Gleason, MD

WIRB Pr. No. 20160525

Sponsor: Medtronic, Inc.

Title: Transcatheter Aortic Valve Replacement With the Medtronic Transcatheter Aortic Valve Replacement System In Patients at Low Risk for Surgical Aortic Valve Replacement.

Principle Investigator Thomas Gleason, MD

WIRB Pr. No. 20121284

Sponsor: Edwards Lifesciences Corporation

Title: Multi-CenTer Experience with Rapid Deployment Edwards Intuity Valve System for Aortic Valve Replacement (TRANSFORM™ Trial)

Principle Investigator Thomas Gleason, MD

Pitt IR No. PRO16020002

Title: Predictors of Aortic Valve Outcomes

Sponsor: Departmental research funds
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20170395
Title: ReChord
Sponsor: NeoChord
Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO16050046
Title: Hydroxyprobe
Sponsor: n/a
Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO17090063
Title: Bicuspid Aortopathy
Sponsor: n/a
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20171760
Title: Apollo
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD

WIRB Pr. No. 20120840
Title: Cardiovascular Outcomes Assessment of the MitraClip Percutaneous Therapy for Heart Failure Patients with Functional MR (The COAPT Trial)
Sponsor: Abbott Vascular
Sub-Investigator: Thomas Gleason, MD

WIRB Pr. No. 20120840
Title: Cardiovascular Outcomes Assessment of the MitraClip Percutaneous Therapy for Heart Failure Patients with Functional MR (COAPT) Continued Access Study
Sponsor: Abbott Vascular
Sub-Investigator: Thomas Gleason, MD

WIRB Pr. No. 20172856
Title: CYTOSORB Reduction of Free Hemoglobin/Acute Kidney Injury (AKI) During Cardiac Surgery. (REFRESH II)
Sponsor: CytoSorbents Corporation
National PI: Thomas Gleason, MD

Pitt IRB: PRO17120296
Title: Right Atrial Appendage and Aortic Tissue Bank Study
Sponsor: n/a
Sub-Investigator: Thomas Gleason, MD

Pitt IRB: PRO07120298
Title: CT Imaging Features Predict Late Adverse Events
Sponsor: n/a

Principle Investigator: Thomas Gleason, MD

Pitt IRB: PRO18030131
Title: Drug Abuse-Associated Infective Endocarditis
Sponsor: n/a
Sub-Investigator: Thomas Gleason, MD

Pitt IRB: PRO17090063
Title: Role of Valve-Mediated Hemodynamics on Bicuspid & Tricuspid Aortopathy
Sponsor: n/a
Principle Investigator: Thomas Gleason, MD

Pitt IRB: PRO16060003
Title: TAVR UNLOAD
Sponsor: n/a
Sub-Investigator: Thomas Gleason, MD

Pitt IRB: PRO16080568
Title: Aortic Intervention Registry
Sponsor: n/a
Principle Investigator: Thomas Gleason, MD

Pitt IRB: PRO17080687
Title: Gene Expression and Post-Translational Modifications Associated with Post-Cardiotomy Right Ventricular Failure
Sponsor: n/a
Sub-Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20141313
Title: Evolut R
Sponsor: Medtronic, Inc.
Co-Principal Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20060180
Title: Clinical Trial of the On-X Valve Using Low Dose Anticoagulation
Sponsor: On-X Life Technologies, Inc.
Sub- Investigator: Thomas Gleason, MD

Pitt IRB: PRO17120298
Title: CT Imaging Features Predict Late Adverse Events in Acute Uncomplicated Standard Type B Aortic Dissection
Sponsor: Stanford
Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO15050330
Title: CoreValve Evolut Paravalvular Leak Assessment Using Cardiac MRI (CLASS CMR Study)
Sponsor: Medtronic, Inc.
Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO15050535

Title: CoreValve Evolut Paravalvular Leak Assessment Using Cardiac MRI (CLASS CMR Study) – Coordinating Center
 Sponsor: Medtronic, Inc.
 Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO17030242

Title: Prospective Evaluation of MRI as a Predictor of Outcomes in Patients Undergoing Mitral Valve Surgery: MRI-MVS Study
 Sponsor: Atlantic Health Systems Corporation
 Sub- Investigator: Thomas Gleason, MD

WIRB Pr. No.: 20183341

Title: REPRISE IV: REpositionable Percutaneous Replacement of Stenotic Aortic Valve through Implantation of LOTUS Edge Valve System in IntermediatE Surgical Risk Subjects
 Sponsor: Boston Scientific, Inc.
 Principal Investigator: Thomas Gleason, MD

Pitt IRB: PRO01803131

Title: Surgery for drug-associated infective endocarditis: a multicenter US cohort
 Sponsor: n/a
 Sub-Investigator: Thomas Gleason, MD

Report of Technological and Scientific Innovations

Discovered distinct material properties of BAV aorta With my research group, we demonstrated, for the first time, that aortic wall from bicuspid-associated aorta has distinct biomechanical properties compared to tricuspid (TAV) patients and that these properties do not suggest weaker aortic wall relative to TAV—contrary to clinical suppositions. We discovered that BAV aneurysmal aortic wall has greater tensile strength than that from diameter-matched TAV aneurysms. (See 64, 72 in Scholarship, research investigations.)

Pioneered characterization of ECM microarchitecture My research team pioneered the characterization of extracellular matrix (ECM) microarchitecture in human ascending aortic aneurysms using multiphoton microscopy (MPM) coupled with computational modeling to quantify ECM fiber anisotropy. The information gained from this approach will now be used in part to correlate in vivo-based imaging techniques with MPM-based interrogatories to adjudicate aortic wall disease state. (See 59, 65, 67, 68, 142 in Scholarship, research investigations.)

Discovery of distinct region-specific aortic biology and microarchitecture We demonstrated, for the first time, a differential pattern of ECM fiber orientation, alteration in oxidative stress pathways, gene expression and increased wall stress patterns in specific regions of the proximal ascending aorta, which helps explain the unique patterns of dilatation in BAV-associated ascending aortic aneurysms. (See 55, 63, 77, 95, 120 in Scholarship, research investigations.)

In vivo medial (aortic wall) hypoxia labeling We demonstrated locally intense hypoxia specifically in aneurysmal regions of BAV ascending aorta and distinct from other types of degenerative aneurysms. Subsequently, I instituted a clinical trial testing the efficacy of regional pimonidazole-HCl-uptake (a novel probe for this indication) in aneurysmal aorta

and confirmed that uptake correlates with severity of disease and valve morphotype. The next phase is to develop an *in vivo* pimonidazole-based probe. (See 117, 161 in Scholarship, research investigations; and supported by a competitive renewal RO1 grant.)

Development of a patient-specific multi-parameter imaging-based aortic integrity scoring system for risk adjudication

We created a patient-specific multiparameter imaging profile (from distensibility and morphometric data obtained by echocardiography, dynamic ECG-gated computed tomographic angiography (CTA), and wall shear stress data from 4D flow magnetic resonance imaging (MRI)) that is being correlated to local aortic wall material property differences, biomechanical testing, biological testing, and other microarchitectural assessments. These data are being computationally integrated in a stepwise manner to create a framework for a sophisticated constitutive model to predict aortic dissection. (See 89, 94, 169, 201 in Scholarship, research investigations; Emerel *et al.* in Scholarship, abstracts; and supported by a competitive renewal RO1 grant.)

Design and development of a dynamic perfusion-based 3D *in vitro* culture model

We designed and developed a patient-specific dynamic perfusion-based 3D *in vitro* culture model to mimic aortic media and study aortic smooth muscle (SMC) cell biology and extracellular matrix (ECM, *e.g.*, collagen and elastin) development, microarchitecture, and maturation using both polyurethane-based scaffolds and fibrin-based scaffolds. I have successfully demonstrated both collagen and elastin deposition in 3D constructs and have immortalized many distinct SMC lines from specific BAV phenotypes to allow for more controlled experimentation. (See Emerel *et al.* in Scholarship, abstracts; and supported by a competitive renewal RO1 grant.)

Clinical Innovations:

Bicuspid valve repair operation

Designed a novel aortic valve repair operation for patients with severe aortic insufficiency and the most common morphotype (type 1) of bicuspid aortic valve (BAV), using fresh native pericardium to reconstruct the valve and convert it from a dysfunctional type 1 to a functional type 0 BAV. (See 75 in Scholarship, research investigations.)

Algorithmic approach for optimizing neurocerebral protection/outcomes in type A aortic dissection

Designed and championed a protocol-driven, image- and neurophysiologic monitoring-based algorithmic approach to acute type A aortic dissection (TAAD) management aimed at optimizing neurocerebral outcomes that includes a novel technique of complete carotid arterial reconstruction. The developed strategy gave rise to one of the largest North American experiences with total aortic arch replacement for TAAD in the modern era. During my leadership tenure, UPMC became the largest patient contributor to the International Registry for Aortic Dissection over the course of the last 10 years with outstanding neurocerebral outcomes using the aforementioned approach. (See 86 in Scholarship, research investigations.)

Concomitant thoracic aortic stent grafting and complete abdominal bare metal stenting

The concept of more complete stenting and stabilization of the thoracoabdominal aorta at the time of acute type B aortic dissection has been evolving. Currently, there is only one FDA-approved device for this purpose, and I played a pivotal role as the largest enroller in completing the multi-institutional clinical trial that facilitated its approval. I have been at the forefront of developing the techniques

for acute type B aortic dissection	for this strategy and have the largest North American experience with its execution. (See 155, 203 in Scholarship, research investigations.)
Use of left subclavian to carotid transposition in context of acute type B aortic dissection	Left subclavian to carotid arterial transposition is a previously described technique that is very rarely used by cardiovascular surgeons in favor of left subclavian bypass, particularly in the setting of emergent cases, e.g. acute aortic dissection, due to its technical difficulty. I have championed its use and demonstrated its safety and efficacy in the context of acute type B aortic dissection. I have the largest reported North American experience with its use in this context (See 37, 218 in Scholarship, research investigations.)

Patents, Inventions and Copyrights

Patent Applications:

1. Phillippi JA, **Gleason TG**, Fercana GR, Badylak SF. “Vascular Extracellular Matrix Hydrogel”. PCT Application filed with USPTO on January 13, 2017. Serial #PCT/US2017/013355.
2. Phillippi JA, **Gleason TG**, Fercana GR, Badylak SF. “Vascular Extracellular Matrix Hydrogel”. Provisional Patent Application filed with USPTO on January 13, 2016. Serial # 62/278,065.

Publications

Peer-reviewed journal articles:

1. Byers JH, **Gleason TG**. Hexenyl radical cyclization via phenyl selenide transfer. *Chemical Communication* 1991;354-56.
2. Millikan KW, **Gleason TG**, Deziel DJ, Doolas A. The current role of U tubes for benign and malignant biliary obstruction. *Ann Surg.* 1993 Nov;218(5):621-29. PMID: 8239776
3. May AK, Sawyer RG, **Gleason TG**, Whitworth A, Pruett TL. In vivo cytokine response to Escherichia coli alpha-hemolysin determined with genetically engineered hemolytic and nonhemolytic E. coli variants. *Infect Immun.* 1996 Jun;64(6):2167-71. PMID: 8675322
4. **Gleason TG**, Sawyer RG, Houlgrave CW, Pruett TL. Killed bacterial preparations protect against live bacterial infection better than endotoxin: Tolerance is not unique to endotoxin. In Owen H (ed): *Wangenstein Surgical Forum of the 83rd Annual Clinical Congress, Volume XLVIII*. Chicago: American College of Surgeons, 1997;67-70.
5. Crabtree TD, Zhou J, Houlgrave CW, **Gleason TG**, Pruett TL, Sawyer RG. Bacterial DNA augments LPS lethality but induces tolerance to LPS in vitro. In Owen H (ed): *Wangenstein Surgical Forum of the 83rd Annual Clinical Congress, Volume XLIX*. Chicago: American College of Surgeons, 1997;4-5.
6. **Gleason TG**, May AK, Caparelli D, Farr BM, Sawyer RG. Emerging evidence of selection of fluconazole-tolerant fungi in surgical intensive care units. *Arch Surger.* 1997 Nov;132(11):1197-201. PMID: 9366712
7. **Gleason TG**, Sawyer RG, Pruett TL. Bacterially pre-exposed T cells impair bacterial elimination by non-Th1/Th2 cell mechanisms in a model of intra-abdominal infection. *Surgery* 1998;124(2):418-28. PMID: 9706167
8. **Gleason TG**, Houlgrave CW, May AK, Crabtree TD, Sawyer RG, Denham W, Norman JG, Pruett TL. Hemolytically active (acylated) alpha-hemolysin elicits interleukin-1beta (IL-1beta) but augments the lethality of Escherichia coli by an IL-1- and tumor necrosis factor-independent mechanism. *Infect Immun.* 1998;66(9):4215-21. PMID: 9712770

9. Crabtree TD, Pelletier SJ, **Gleason TG**, Pruett TL, Sawyer RG. Clinical characteristics and antibiotic utilization in surgical patients with *Clostridium difficile*-associated diarrhea. *Am Surg*. 1999 Jun;65(6):507-12. PMID: 10366203
10. Sawyer RG, Crabtree TD, **Gleason TG**, Antevil JL, Pruett TL. Impact of solid organ transplantation and immunosuppression on fever, leukocytosis, and physiologic response during bacterial and fungal infections. *Clin Transplant*. 1999 Jun;13(3):260-65. PMID: 10383107
11. Crabtree TD, **Gleason TG**, Pruett TL, Sawyer RG. Trends in nosocomial pneumonia in surgical patients as we approach the 21st century: a prospective analysis. *Am Surg*. 1999;65(8):706-10. PMID: 10432077
12. **Gleason TG**, Crabtree TD, Pelletier SJ, Raymond DP, Karchmer TB, Pruett TL, Sawyer RG. Prediction of poorer prognosis by infection with antibiotic-resistant gram-positive cocci than by infection with antibiotic-sensitive strains. *Arch Surg* 1999 Oct;134(10):1033-40. PMID: 10522842
13. Crabtree TD, Pelletier SJ, **Gleason TG**, Pruett TL, Sawyer RG. Gender-dependent differences in outcome after the treatment of infection in hospitalized patients. *JAMA* 1999 Dec;282(22):2143-48. PMID: 10591336
14. Crabtree TD, Pelletier SJ, **Gleason TG**, Pruett TL, Sawyer RG. Analysis of aminoglycosides in the treatment of gram-negative infections in surgical patients. *Arch Surg*. 1999 Dec;134(12):1293-99. PMID: 10593326
15. Pelletier SJ, Crabtree TD, **Gleason TG**, Banas LE, Patel SR, Pruett TL, Sawyer RG. Waiting for microbiologic data to direct therapy against nosocomial infections in febrile surgical patients: are outcomes worsened? *Arch Surg*. 1999 Dec;134(12):1300-8. PMID: 10593327
16. May AK, **Gleason TG**, Sawyer RG, Pruett TL. Contribution of *Escherichia coli* alpha-hemolysin to bacterial virulence and to intraperitoneal alterations in peritonitis. *Infect Immun*. 2000 Jan;68(1):176-83. PMID: 10603385
17. Pelletier SJ, Crabtree TD, **Gleason TG**, Pruett TL, Sawyer RG. Bacteremia associated with central venous catheter infection is not an independent predictor of outcomes. *J Am Coll Surg*. 2000 Jun;190(6):671-81. PMID: 10873002
18. Pelletier SJ, Crabtree TD, **Gleason TG**, Raymond DP, Oh CK, Pruett TL, Sawyer RG. Characteristics of infectious complications associated with mortality after solid organ transplantation. *Clin Transplant*. 2000 Aug;14(4 Pt 2):401-8. PMID: 10946779
19. Raymond DP, Crabtree TD, Pelletier SJ, **Gleason TG**, Banas LE, Patel S, Pruett TL, Sawyer RG. Extremes of white blood cell count do not independently predict outcome among surgical patients with infection. *Am Surg*. 2000 Dec;66(12):1124-31. PMID: 11149583
20. Crabtree TD, Jin L, Raymond DP, Pelletier SJ, Houlgrave CW, **Gleason TG**, Pruett TL, Sawyer RG. Preexposure of murine macrophages to CpG oligonucleotide results in a biphasic tumor necrosis factor alpha response to subsequent lipopolysaccharide challenge. *Infect Immun*. 2001 Apr;69(4):2123-29. PMID: 11254566
21. Raymond DP, Pelletier SJ, Crabtree TD, **Gleason TG**, Pruett TL, Sawyer RG. Impact of bloodstream infection on outcomes among infected surgical inpatients. *Ann Surg*. 2001 Apr;233(4):549-55. PMID: 11303138
22. Sawyer RG, Raymond DP, Pelletier SJ, Crabtree TD, **Gleason TG**, Pruett TL. Implications of 2,457 consecutive surgical infections entering year 2000. *Ann Surg*. 2001 June;233(6):867-74. PMID: 11371745
23. Crabtree TD, Pelletier SJ, Antevil JL, **Gleason TG**, Pruett TL, Sawyer RG. Cohort study of fever and leukocytosis as diagnostic and prognostic indicators in infected surgical patients. *World J Surg*. 2001 Jun;25(6):739-44. PMID: 11376409
24. Raymond DP, Pelletier SJ, Crabtree TD, **Gleason TG**, Hamm LL, Pruett TL, Sawyer RG. Impact of a rotating empiric antibiotic schedule on infectious mortality in an intensive care unit. *Crit Care Med*. 2001 Jun;29(6):1101-8. PMID: 11395583

25. Crabtree TD, Pelletier SJ, Raymond DP, Antevil JT, **Gleason TG**, Pruett TL, Sawyer RG. Effect of changes in surgical practice on the rate and detection of nosocomial infections: A prospective analysis. *Shock*. 2002 Apr;17(4):258-62. PMID: 11954823
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Editorials, Reviews, Chapters:

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37. **Gleason TG.** Commentary: Bicuspid aortic valve consensus or quandary? *J Thorac Cardiovasc Surg.* 2021 Sep;162(3):801-802. PMID: 33500135.
38. **Gleason TG**, Aranki S. Commentary: Valvular mimicry in simulation-espice, adspice, prospice. *J Thorac Cardiovasc Surg.* 2022 Feb;163(2):e174-e176. Epub 2020 Jul 24. PMID: 32859417.

Theses:

1. **Gleason TG.** Kinetics versus thermodynamics in intramolecular radical cyclizations. Honors thesis, Department of Chemistry, Middlebury College, Middlebury, VT, 1989.
2. **Gleason TG.** Transient gram negative bacterial exposures and alpha-hemolysin affect outcomes of acute and chronic E. coli infections. Master of Science thesis, Department of Surgery, University of Virginia, Charlottesville, VA, 1997.

Abstracts, Poster Presentations and Exhibits Presented at Meetings

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| April 2010 | Pichamuthu JE, Phillippi JA, Gleason TG , Vorp DA. Abstract: Ascending aortic aneurysm biomechanical properties are variable depending on aortic valve morphology. Aortic Symposium, New York, NY *Editor's Choice Abstract |
| Jan. 2017 | Alaeddine M, Badhwar V, Grau-Sepulveda MV, Halkos ME, Thourani VH, Jacobs JP, Matsouaka RA, Meze J, Brennan M, Gleason TG , Chu D. Late Breaking Abstract: The Impact of Aortic Clamping Strategy on Postoperative Stroke in Coronary Artery Bypass Grafting Operations: A Propensity-Matched Analysis of 52,611 Patients. STS Annual Meeting. Houston, Texas |
| Jan. 2017 | Gleason TG , Schindler J, Hagberg RC, Deeb G, Adams DH, Conte JV, Zorn GL, Hughes GC, Popma J, Reardon M. Late Breaking Abstract: Subclavian Access for Self-Expanding Transcatheter Aortic Valve Replacement Renders Equivalent Outcomes as Transfemoral. STS Annual Meeting. Houston, Texas |
| Jan. 2017 | Deeb G, Chetcuti S, Yabukov S, Kleiman N, Heiser JC, Merhi W, Zorn GL, Tadros P, Petrossian G, Robinson N, Mumtaz M, Gleason TG , Conte JV, Popma J, Reardon MJ. Late Breaking Abstract: Impact of Annular Size on Hemodynamics and Incidence of Prosthesis-Patient Mismatch Following Surgical Aortic Valve |

- Replacement or Transcatheter Aortic Valve Replacement with a Self-Expanding Bioprosthesis. STS Annual Meeting, Houston, Texas
- Feb. 2017 Chan PG, Billaud M, Phillippi J, and **Gleason TG**. Effect of collagen substrates on oxidative stress-induced changes in SMC phenotype in BAV aortopathy. American Surgical Congress. Las Vegas, NV.
- April 2017 Hall A, Chan P, **Gleason TG**, Phillippi JA and Nain AS. Aortic Aneurysmal Single Cell Biomechanics Using Nanonet Force Microscopy. 5th International Conference on Computational and Mathematical Biomedical Engineering. Pittsburgh, PA.
- April 2017 Thunes J, Phillippi JA, **Gleason TG**, and Maiti S. Modeling the constitutive response of aortic media with explicit incorporation of its lamellar structure including collagen fiber network architecture. 5th International Conference on Computational and Mathematical Biomedical Engineering. Pittsburgh, PA.
- June 2017 Thunes J, Phillippi JA, **Gleason TG**, Vorp DA, and Maiti S. Collagen Network Microstructure of the Ascending Thoracic Aortic Media Predicts Experimental Uniaxial Failure Behavior. Summer Bioengineering Conference. Tucson, AZ.
- Oct. 2017 Thunes J, Phillippi JA, **Gleason TG**, Vorp DA, and Maiti S. Predicting the Uniaxial Failure Properties Of The Aortic Media With An Embedded Fiber Finite Element Method Biomedical Engineering Society Annual Meeting. Phoenix, AZ.
- March 2018 Billaud M, Hill JC, Richards TD, Nine J, **Gleason TG** and Phillippi JA. Medial hypoxia and adventitial vasa vasorum remodeling in human ascending aortic aneurysm. Regenerative Medicine Workshop. Charleston, SC.
- March 2018 Yerneni S, Hill JC, Fercana GR, Badylak SF, **Gleason TG**, Weiss LE, Phillippi JA, and Campbell PG. Decellularized Chicken Chorioallantoic Membrane as a Novel Pro-Angiogenic Biomaterial. Regenerative Medicine Workshop. Charleston, SC.
- May 2018 Emerel L, Thunes JT, Maiti S, Kickliter T, Billaud M, Phillippi JA, Vorp DA, and **Gleason TG**. Aberrant Biomechanical Properties and Stress Mapping Dissection Probability Models in Ascending Aortas of Patients Sustaining Acute Type A Aortic Dissection During Surveillance. American Association for Thoracic Surgery. Anaheim, Calif.
- July 2018 Thunes J, Phillippi JA, **Gleason TG**, Vorp DA, and Maiti S. A structural finite element model of the ascending thoracic aorta. 8th World Congress of Biomechanics 2018. Dublin, Ireland.
- Sept. 2018 **Gleason TG**. Presentation: 5-year Outcomes from the Randomized CoreValve US Pivotal High Risk Trial: Final Results. TCT, San Diego, CA
- Sept. 2018 **Gleason TG**. Oral Abstracts Roundtable Discussion with Audience Q&A
- Nov. 2018 Sultan I, Patel H, Di Eusanio M, Chen E, Leshnower B, Arnaoutakis G, Bavaria J, Brinster D, Sundt T, Pacini D, Sechtem U, Bhan A, Montgomery D, Myrmet T, Trimarchi S, Eagle K, **Gleason TG**. Surgery for Type A Aortic Dissection in Patients

- with Cerebral Malperfusion. Results From the International Registry of Aortic Dissection. American Heart Association Scientific Sessions, Chicago, IL.
- Nov. 2018 Emerel LF, Fercana GR, Billaud M, Hill JC, Richards TD, Vorp DA, Wagner WR, Phillippi JA, **Gleason TG**. A Novel 3D Dynamic Culture Model of Human Ascending Aortic-Derived Smooth Muscle Cells. Postdoctoral Fellows Research Symposium, American Heart Association, Pittsburgh, PA.
- Nov. 2018 Chan P, Phillippi JA, Billaud M, **Gleason TG**. Oxidative Stress Induced Calpain and Caspase-3 Increased in Aortic Smooth Muscle Cells Derived From Bicuspid Aortic Valve Patients. American Heart Association Scientific Sessions, Chicago, IL.
- Nov. 2019 Pupovac SS, Hemil J, **Gleason TG**, Sundt TM, Desai ND, Pacini D, Ouounian M, Appoo JJ, Montgomery DG, Eagle K, Ota T, Di Eusanio M, Estrera AL, Coselli JS, Patel HJ, Trimarchi S, Brinster DR. Outcomes of Surgical Intervention for Acute Type A Aortic Dissection in Octogenarians - Insights From the International Registry of Acute Aortic Dissection (IRAD). AHA Scientific Sessions. Philadelphia, PA.
- Nov. 2019 Bianco V, Kilic A, **Gleason TG**, Navid F, Sultan I. Long-term Mortality and Readmissions Following Isolated Reoperative Coronary Artery Bypass Grafting: A Propensity Matched Analysis. AHA Scientific Sessions. Philadelphia, PA.
- Nov. 2019 Cardounel AJ, Aranda-Michel E, Humar R, Navid W, Kilic, A, Lee J, **Gleason TG**, Sultan I. Identification of SERCA2 as a Novel Effector and Therapeutic Target in Acute Post-Operative Right Ventricular Dysfunction. AHA Scientific Sessions. Philadelphia, PA.
- Nov. 2019 Sultan I, Bianco V, Aranda-Michel E, Kilic A, Zalewski A, Navid F, **Gleason TG**. Long-term Follow Up of Patients With Uncomplicated versus Complicated Acute Type B Aortic Dissection Managed With Early TEVAR. AHA Scientific Sessions. Philadelphia, PA.

Major Invited Speeches

Local

1. "Extended Profundoplasty for Limb Threatening Ischemia", Annual Meeting of the Virginia Vascular Society, Charlottesville, VA, September 1998
2. "SJM Toronto Biologic Aortic Root Prosthesis: Early Phase II Study Experience", Pennsylvania Association for Thoracic Surgery, Miami, FL, October 2002
3. "Current Perfusion Strategies for Combined Aortic Root and Arch Replacement", The Illinois State Perfusion Society Meeting, Chicago, IL, October 2005
4. "Surgical Approached and Strategies for Complex Thoracic Aortic Reconstruction", The Blue Ridge Aortic Symposium, Roanoke, VA, December 2005
5. "The Dilated Aortic Root in 2005", Grand Rounds, Department of Cardiology, Northwestern Memorial Hospital, Chicago, IL, January 2005
6. "Current Perspectives on the Management of Aortic Root and Ascending Aortic Disease", Grand Rounds, University of Pittsburgh, Pittsburgh, PA, July 2006

7. “State of the Art of Aortic Valve Repair and Aortic Root Replacement”, Grand Rounds, Department of Cardiology, University of Pittsburgh School of Medicine, Pittsburgh, PA, February 2007
8. “Management of Aortic Valve Disease in 2007”, Grand Rounds, University of Pittsburgh Medical Center (UPMC), Shadyside Medical Grand Rounds, Pittsburgh, PA, February 2007
9. “First Annual Concepts in Cardiovascular Health Symposium”, Farmington, PA, February 2008
10. “Valve-Sparing Root Replacement”, Grand Rounds, UPMC Department of Cardiothoracic Surgery Weekly Conference, Pittsburgh, PA, July 2008
11. “Aortic Disease, Debate: AFib vs Surgery”, UPMC Advances in Cardiology Conference, Farmington, PA, April 2008
12. “ECHO in the OR for Valvular Reconstruction”, Three Rivers Echo Society’s Comprehensive Cardiovascular Imaging Symposium, Canonsburg, PA, May 2008
13. “Treatment of Aortic Aneurysm: Surgery vs Stent Grafting”, Grand Rounds, UPMC Mercy Department of Surgery, Pittsburgh, PA, October 2008
14. “Current Perfusion Techniques for Thoracic Aortic Surgery”, Pennsylvania State Perfusion Society Meeting – Perfusion in the 21st Century, Pittsburgh, PA, November 2008
15. “Trauma to the Great Vessels”, Grand Rounds, University of Pittsburgh Medical Center Trauma Services, Pittsburgh, PA, June 2009
16. “Presentation of Difficult Redo Cases”, Co-Director; Presenter, UPMC Eighth International Symposium on Redo Cardiac Surgery in Adults, Pittsburgh, PA June 2010
17. “TAVI: Where Does it Stand?”, UPMC Department of Cardiothoracic Surgery Weekly Conference – Grand Rounds, Pittsburgh, PA, November 2010
18. “Management of Aortic Stenosis in 2011”, Grand Rounds, UPMC Mercy Department of Cardiology, Pittsburgh, PA, February 2011
19. “Aortic Stenosis in High Risk Individuals: What’s the Right Approach?”, UPMC: From Controversy to Consensus in Cardiovascular Care: An Interactive Forum for General Practitioners and Cardiologists, Farmington, PA, May 2011
20. “Percutaneous Valve Repair: The Role of Multidisciplinary Approach”, UPMC Pittsburgh Vascular Symposium, Pittsburgh, PA, September 2011
21. “Disease of the Aortic Root”, Grand Rounds, UPMC Department of Cardiothoracic Surgery Weekly Conference, Pittsburgh, PA, November 2011
22. “Aortopathy Associated with Bicuspid Aortic Valve”, University of Pittsburgh McGowan Institute Retreat, Farmington, PA, March 2012
23. “Current Status of Transaortic Valve Replacement (TAVR)”, “Medical Neighborhood: Heart Team Approach to Aortic Valve”, *Panel Discussant*, UPMC Contemporary Approach to the Elderly Patient with Aortic Stenosis, 2014 Cardiovascular Care, Quality and Outcomes in the new Era of Health Care: An Interactive Forum, Farmington, PA, June 2014
24. “Natural History of Thoracic Aneurysmal Disease” *Speaker*, “Session III: Aortic Valve and Root” *Moderator*, “Valve-Sparing Aortic Root Replacement: The New Gold Standard?” *Speaker*, Panel: Session III: “Aortic Valve and Root” *Panelist*, Aortovascular Summit 2015, New York Presbyterian/Columbia University Medical Center, New York, NY, September 2015
25. “Ischemic Mitral Regurgitation”, Grand Rounds, University of Pittsburgh Medical Center, Pittsburgh, PA, January 2016
26. “How Should We Manage a Moderately Dilated Aorta with a Normally Functioning Bicuspid Valve?”, Grand Rounds, UPMC Cardiac Conference, Pittsburgh, PA, January 2016

27. “Bicuspid Aortic Valve Aortopathy” *Faculty*, “Aortic Disease Panel Discussion”, *Discussant*, Debate: “Extent of Surgery for Type A Aortic Dissections – Hemiarch versus Total Arch and Frozen Elephant Trunk” *Moderator*, University of Virginia Debates & Controversies, Roseland, VA, February 2016
28. “High Risk Cardiac Surgery”, UPMC CT Surgery M&M and Heart Team, System-Wide Collaborative Care Conference, University of Pittsburgh Medical Center, Pittsburgh, PA, November 2017
29. “TAVR”, Grand Rounds, UPMC Department of Cardiothoracic Surgery Conference, Pittsburgh, PA, July 2018
30. “TAVR”, Grand Rounds, UPMC Cardiac Conference, Pittsburgh, PA, December 2018

National

31. “Bacterially Pre-Exposed T Cells Impair Bacterial Elimination Via Non-Th1/Th2 Cell Mechanisms”, *Podium presentation*, 59th Annual Meeting of the Society of University Surgeons, Milwaukee, WI, February 1998
32. “Prospective Study of Fever as a Diagnostic and Prognostic Indicator in Surgical Patients Treated for Suspected Infection”, *Podium presentation*, 18th Annual Meeting of the Surgical Infection Society, New York, NY, April 1998
33. “Trends in Nosocomial Infections in Surgical Patients as we Approach the 21st Century: A Prospective Analysis”, *Podium presentation*, 41st Annual Meeting of the Midwest Surgical Association, Mackinac Island, MI, August 1998
34. “Bacterial DNA Augments LPS Lethality but Induces Tolerance to LPS in vitro”, *Podium presentation*, 84th Annual Clinical Congress of the American College of Surgeons, Orlando, FL, October 1998
35. “Prospective Analysis of Infection Treatment Rates Vs. Standard Infection Surveillance in Surgical Patients”, *Podium presentation*, 36th Annual Meeting of the Infectious Disease Society of America, Denver, CO, November 1998
36. “Prospective Study of *Clostridium difficile* Colitis in Surgical Patients”, *Podium presentation*, 67th Southeastern Surgical Congress, Tampa, FL, February 1999
37. “Waiting for Microbiologic Data to Direct Therapy Against Nosocomial Infections Does Not Worsen Outcome in Surgical Patients”, *Podium presentation*, “Are Aminoglycosides Associated With Increased Mortality in Surgical Patients Treated for Gram Negative Infection?”, *Podium presentation*, Nineteenth Annual Meeting of the Surgical Infection Society, Seattle, WA, April 1999
38. “Interracial Differences in Post-Transplant Infections”, *Podium presentation*, American Society of Transplantation Meeting, Chicago, IL, May 1999
39. “Analysis of Infectious Complications after Solid Organ Transplantation”, *Podium presentation*, Southeastern Organ Procurement Foundation Meeting. Memphis, TN, September 1999
40. “Bacteremia Associated with Central Venous Catheters is not an Independent Predictor of Outcome”, *Podium presentation*, American College of Surgeons Meeting, San Francisco, CA, October 1999
41. “Outcome Analysis of Intra-Abdominal Infection with Resistant Gram-Positive Organisms”, *Podium presentation*, “Extremes of White Blood Cell Count do not Independently Predict Worse

- Outcomes Among Surgical Patients with Infection”, Podium presentation, Southeastern Surgical Conference Meeting, Colorado Springs, CO, February 2000
42. “Improvement in Outcomes Following the Initiation of a Rotating Empiric Antibiotic Schedule in an ICU, *Podium presentation*, “Ethnicity Independently Predicts Mortality Associated with Infection in Surgical Patients”, *Podium presentation*, Surgical Infection Society, Providence, RI, April 2000
 43. “Macrophage TNF-Receptor Synthesis, Expression and Shedding in Response to CPG Oligonucleotide Exposure”. *Podium presentation*, American College of Surgeons Clinical Congress, Chicago, IL, October 2000
 44. “Prosthetic Valve Clinical Trials”, “The Enlarged Aortic Root in Younger Patients: Surgical Indications and Options”, Penn Cardiac Valve Symposium, Philadelphia, Pa, September 2004
 45. “Valve-Sparing Aortic Root Replacement”, *Podium presentation*, 41st Annual Meeting of the Society of Thoracic Surgeons, Tampa, FL, April 2005
 46. “Valve-Sparing Aortic Root Replacement: The State-of-the-Art.” First Annual Heart Valve Summit, Feinberg School of Medicine, Northwestern University, Chicago, IL, April 2005
 47. “Antibiotics, Infections, & Cardiothoracic Surgery”, *Podium presentation*, American College of Surgeons 91st Clinical Congress, San Francisco, CA, October 2005
 48. “Safety of Left Ventricular Apical Cannulation for Left Ventricular Assist Device in Massive Acute Anteroapical Myocardial Infarction”, *Podium presentation*, Southern Thoracic Surgical Association, 52nd Annual Meeting, Orlando, FL, October 2005
 49. “Managing Endoleaks”, Society of Thoracic Surgeons: Thoracic Endografting Symposium, Scottsdale, AZ, May 2006
 50. “Approach to Surgical Treatment of Disease of the Aortic Root and Ascending Aorta”, *Speaker*, “Novel Surgical Approaches to Aortic Valve Disease”, *Speaker*, “Debate: Patients Undergoing Coronary Revascularization Surgery with Mild Aortic Stenosis Should Have Aortic Valve Replacement Too”, *Moderator*, American College of Cardiology 2006 Heart Valve Summit, Chicago, IL, July 2006
 51. “Managing Endoleaks, Society of Thoracic Surgeons: Thoracic Endografting Symposium, Chicago, IL, July 2006
 52. “Dysregulation of Autoimmunity to Collagen V (Col-V) and Development of BOS Following Human Lung Transplantation”, *Abstract Discussant*, 92nd Annual American College of Surgeons, 2006 Clinical Congress, Chicago, IL, October 2006
 53. “Intraoperative Monitoring for Aortic Surgery”, American Clinical Neurophysiology Society Annual Meeting, Chicago, IL, November 2006
 54. “Treatment of Aortic Aneurysms: Surgery vs. Stent Grafting?” “Metallothionein (MT) Expression Is Down-regulated and MT Induction by Oxidative Stress Is Blunted in Ascending Aortic Aneurysms in Bicuspid Aortic Valve Patients”, “MRI/CT Imaging”, American Heart Association, 2006 Scientific Sessions, Chicago, IL, November 2006
 55. “Modified Reimplantation Techniques for Aortic Root Reconstruction. Vascutek, Valve-Sparing Root Replacement Symposium, San Diego, CA, January 2007
 56. “Aortic Valve Sparing: Who Should Get it and how does ECHO help? American Society of Echocardiography - E3 2007 Conference, New Orleans, LA, March 2007
 57. Surgical Decision Making in Bicuspid Aortic Valve and Ascending Aortic Aneurysm”, *Podium presentation*, “Severe Aortic Regurgitation and Severe Left Ventricular Dysfunction: Is Surgery

- Contradicted?”, *Podium presentation*, 56th Annual Scientific Sessions - American College of Cardiology, New Orleans, LA, March 2007
58. “Managing Endoleaks”, *Podium presentation*, Bavaria JE, **Gleason TG**, Garrett, Jr HE, Karmy-Jones R, Wheatley, III GH. Panel Discussion: Questions & Answers, *Moderator*, Panel: Bowen FW, Dagenais F, Karmy-Jones R, Svensson LG, Tehrani, HY. Case Presentations, *Led Panel*, The Society of Thoracic Surgeons Thoracic Endografting Symposium, Chicago, IL, July 2007
 59. “Restoring Root Geometry with Valve-Sparing Root Replacement: Modification of the Reimplantation Technique”, *Podium presentation*, American College of Surgeons 93rd Annual Clinical Congress, New Orleans, LA, October 2007
 60. “Thoracic Aortic Disease II, Abstract Oral Sessions”, *Moderator*, American Heart Association Scientific Sessions 2007, Orlando, FL, November 2007
 61. “Anatomy of Aortic Root/Wet Lab: Valve-Sparing Root Replacement”, *Instructor*, Society of Thoracic Surgeons, STS University, Ft. Lauderdale, FL, January 2008
 62. “Thoracic Aortic Disease, Abstract Oral Sessions”, *Moderator*, American Heart Association Scientific Sessions 2008, New Orleans, LA, November 2008
 63. “Managing Endoleaks”, The Society of Thoracic Surgeons Thoracic Endografting Symposium, Chicago, IL, November 2008
 64. “Case Presentations - Endovascular Management of Thoracic Aortic Disease”, *Moderator*, Panel 1: Dagenais, F, Karmy-Jones, R, Svensson, LG, Khoynzhad, A; Panel 2: Bowen FW, Dagenais F, Karmy-Jones R, Svensson LG. “Panel Discussion: Questions & Answers - Endovascular Management and Complications”, *Moderator* Panel: Bavaria JE, Gleason TG, Garrett, Jr HE, Karmy-Jones R, Wheatley, III GH. “Case Presentations - Getting Started with Thoracic Endografting”, *Moderator*, Panel 1: Bowen FW, Dagenais F, Karmy-Jones R, Svensson LG. Panel 2: Dagenais, F, Karmy-Jones, R, Svensson, LG. The Society of Thoracic Surgeons Endografting Symposium, Chicago, IL, November 2008
 65. “Case Study: Type A Aortic Dissection - Surgical Strategies”, *Invited Speaker*, “Surgical Decision Making - Treatment of the Aortic Root”, *Invited Speaker*, “Aortic Root Repair”, *Wet Lab Instructor*, “Breakfast with a Belly Ache: Visceral Malperfusion Syndrome and Dissection of the Descending Aorta: Diagnosis and Presentation”, *Invited Speaker*, Rocky Mountain Valve Symposium, Missoula, MT, July 2009
 66. “Anatomy of Aortic Root -Valve-Sparing Root Replacement”, *Wet Lab Instructor*, “Surgical Motion Pictures Matinee II: Adult Cardiac”, *Moderator*, Society of Thoracic Surgeons 2009 STS University, San Francisco, CA, January 2009
 67. “Aortic Valve Repair and Valve-Sparing Root Replacement: When is it Indicated and by What Technique?”, 2009 Houston Aortic Symposium: Frontiers in Cardiovascular Diseases, The Second in the Series, Houston, TX, March 2009
 68. “Type B Aortic Dissection: Observe, Open Operation or Endovascular Repair?”, “How to Treat Thoracoabdominal Aortic Aneurysms”, American Heart Association 2009 Scientific Sessions, Orlando, FL, November 2009
 69. “CryoLife Aortic Valve/Aortic Root Boot Camp”, *Instructor*, Atlanta, GA (Sponsor, CryoLife, Inc.), Minimally Invasive Mitral Valve Procedure: Technologies in Treatment of Mitral Valve: What is the Controversy?”, *Instructor*, “Minimally Invasive Mitral Valve Procedure: Debate – Which Technology & Approach is Best? Are we abandoning outcomes in favor of less invasive surgery?”, *Instructor*, “Minimally Invasive Aortic Valve Procedure: Debate – Which Technology & Approach is Best?”, *Instructor*, Rocky Mountain Valve Symposium, Missoula, MT, June 2010

70. “The Gold Standard for Aortic Valve Replacement: STS Results”, “Are We Compromising Results with Hybrid Procedures and Our Lust for Less Invasiveness?”, “Distal Ascending Aorta: Size Matters”, “Modified ‘David-V’ Valve-Sparing Aortic Root Replacement”, *Wet Lab Instructor*, Rocky Mountain Valve Symposium, Missoula, MT, July 2011
71. “Leaflet Resection: Quadrangular, Triangular, Folding or None”, *Instructor*, “Panel Discussion: Surgical Decision Making in Valve Repair”, *Led Discussion*, “Clinical Trials in Ischemic MR”, *Instructor*, “Surgical Techniques for Repair of Ischemic MR”, *Instructor*, “Panel Discussion: Is the Clip the Stitch?”, *Led Discussion*, Rocky Mountain Valve Symposium, Missoula, MT, July 2012
72. “Etiology of Poor LV Function: The Usual and Not so Usual Suspects”, *Instructor*, “Surgical Techniques: Aortic Root Enlargement”, *Wet lab instructor*, “STS Risk Score and Beyond: Patient Selection and High Risk Surgery”, *Instructor* Rocky Mountain Valve Symposium, Missoula, MT, July 2013
73. “Have We Been Fooled by a Parallax View? TEVAR vs. Open Repair”, Virginia Vascular Society Annual Meeting, White Sulphur Springs, WV, September 2010
74. “Cardiac Surgery: Current Topics in Thoracic Aortic Disease”, *Co-Moderator*, “Bicuspid Aortic Valve and Descending Aortic Aneurysms: What is the Optimal Treatment Strategy?”, *Presentation type*, “Cardiac Surgery I”, *Moderator*, American College of Surgeons 96th Annual Clinical Congress, Washington, DC, October 2010
75. “Session VII. Valve-Sparing. To Spare the Aortic Valve: The Graft Should fit the Valve, not the Valve fit the Graft”, Ross Summit III – 2010, Atlanta, GA, October 2010
76. “Who Is Too Sick for TAVI? Defining Cohort C”, *Invited Speaker*, “Alternative Access for TAVI: Beyond the LV Apex”, *Invited Speaker*, “Transcatheter heart valve simulation demonstrations”, *Instructor*, ACCF/STS Transcatheter Heart Valve Symposium, Washington, DC, November 2011
77. “Debate: What’s the best Therapy for Chronic Type B Dissection with Aneurysm? Open TAAA”, *Moderator*, STS/AATS Tech-Con & Annual Meeting, Ft. Lauderdale, FL, January 2012
78. “Adult Cardiac Session: Aortic Valves”, *Moderator*, Society of Thoracic Surgeons Annual Meeting, Ft. Lauderdale, FL, January 2012
79. “Preoperative Planning and Imaging for TAVR”, *Invited Speaker*, “Panel Discussion: Transcatheter Heart valve Therapies”, *Panelist*, “Future Directions in Transcatheter Heart Valve Therapies”, *Moderator*, “The Use of the Ascending Aorta or Subclavian artery for Valve Deployment in TAVR”, *Invited Speaker*, STS/ACCF Transcatheter Heart Valve Symposium, Chicago, IL, February 2012
80. “Have We Been Fooled by a Parallax View: TEVAR vs. Open Repair”, The Methodist Hospital Grand Rounds, Houston, TX, May 2012
81. “Stenting and Non-Dissection”, 2012 GenTAC Thoracic Aortic Disease Summit, Chicago, IL, August 2012
82. “Complication of Non-femoral Approaches”, *Invited Speaker*, “Who is Too Sick for TAVR / Frailty?”, *Invited Speaker*, Interactive Hands-On Valve Stations, *Instructor*, Trial by Jury Case presentations – Jury Deliberation, *Moderator*, 2012 ACCF/STS Transcatheter Heart Valve (THV) Symposium, Washington, DC, September 2012
83. “Quantitative Three-Dimensional Analysis of Bicuspid Aortic Valves: A Single Modality Approach for Characterization of Valvular and Proximal Aortic”, *Abstract Discussant*, American College of Surgeons Clinical Congress, Chicago, IL, October 2012

84. “BAV Insufficiency w/ Root/Ascending Aneurysm: Best Therapy – Valve-Sparing Reimplantation with Primary Cusp Repair”, Terumo/Vascutek Great Debates (Sponsored), San Francisco, CA, January 2013
85. “Late-Breaking Clinical Trial Abstract Presentations - Adult Cardiac I session”, *Moderator*, Society of Thoracic Surgery Annual Meeting, San Francisco, CA, January 2013
86. “Thoracic Aortic Disease: A Surgeon’s Viewpoint”, “Need to Know”, 35th Annual Big Sky Cardiology, Big Sky, MT, February 2013
87. “TAVR: Peri-Procedural Complications”, *Co-Chair*, “Aortic Insufficiency: Incidence, Implications, and New Technology”, *Case Presenter*, American College of Cardiology, San Francisco, CA, March 2013
88. Assessment of Frailty: Utility vs. Futility”, *Invited Speaker*, “Panel Discussion”, *Panelist*, Society of Thoracic Surgeons/American College of Cardiology Foundation Transcatheter Heart Valve Symposium, Dallas, Texas, April 2013
89. “On Overview of Patient Risk Stratification in Patients Enrolled in the CoreValve US Extreme Risk Study”, TCT Conference: Late Breaking Clinical Trial - CoreValve US Pivotal Extreme Risk Study: Overview and In-Depth Analysis, San Francisco, CA, October 2013
90. “Indications and Contraindications of TEVAR for Genetically Triggered Aortic Aneurysmal Disease”, *Invited Speaker and Panel Discussion*, GenTAC Aortic Summit, The GenTac Alliance, Baltimore, MD, July 2014
91. “Aortic Valve Repair - Indications, Techniques and Outcomes”, *Invited Lecture*, “Bicuspid Aortic Valve and Associated Aortopathy”, *Invited Lecture*, “Controversies in Aortic Valve Surgery: Is TAVR Changing the Landscape?”, *Led Panel Discussion*, “Valve-Sparing Aortic Root Replacement – How I Do it”, *Invited Lecture*, Rocky Mountain Valve Symposium, Missoula, MT, July 2014
92. “Valve Center of Excellence per the Guidelines – Wolf in Sheep’s Clothing?”, *Led Panel Discussion*,
93. “Carlos Duran Lecture: Mitral Valve Repair: Classic Resectional Techniques. 2015”, *Invited Lecture*, “Long Term Results of Mitral Repair”, *Invited Lecture*, Panel: “Resect, Respect, Rethink”, *Led Panel Discussion*, Panel: “Concomitant Atrial Arrhythmia Surgery – Mini Maze vs. Cox Maze: Is There a Right or Wrong Answer?”, *Led Panel Discussion*, Wet Lab: “Leaflet Resection-Neochords”, *Instructor*, Rocky Mountain Valve Symposium, Missoula, MT, July 2015
94. Bicuspid Aortic Valve with Associated Root/Ascending Aortic Pathology: Surgical Decision”, *Invited Lecture*, Panel Discussion: “TAVR Near Horizons: Expanding to Lower Risk. What Constitutes Intraoperative Success”, *Led Panel Discussion*, “Hands on Wet Lab and Workshop: Aortic Root Enlargement”, *Instructor*, “Bioprosthetic Valve Failure: Real World Results of TAVR Valve-in-Valve vs. Re-do Surgical AVR.”, *Invited Lecture*, “Patients Prosthesis Mismatch in TAVR: TAVR Valve-in-Valve, TAVR-in-TAVR.”, *Invited Lecture*, Rocky Mountain Valve Symposium, Missoula, MT, July 2016
95. “Point/Counter Point: Is Mitral Valve Surgery History?”, *Moderator*, “What Constitutes A Successful Repair: Goals of 2nd Pump Run”, *Invited Lecture*, Wet Lab – Leaflet Resection-Neochords”, *Instructor*, Rocky Mountain Valve Symposium, Missoula, MT, July 2017
96. “Ischemic MR: Mitral Valve Surgical Risks and Benefits of Surgery”, *Invited Lecture*, “Mitral Valve Surgical Techniques”, *Moderator*, Rocky Mountain Valve Symposium, Missoula, MT, July 2018

97. “Aortic Root Replacement: Stentless Prosthesis Repair with Type 1 - Type 0 Conversion”, *Lecture*, “Mechanical vs. Bioprosthetic Valve Durability: What is the Date?”, *Invited Lecture*, Panel Discussion: “Small Aortic Root Annulus”, *Led Panel Discussion*, Rocky Mountain Valve Symposium, Missoula, MT, July 2019
98. . Towards Surgical Skill-Set Mastery with Mentored Simulation Practice”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, October 2014
99. Panel Discussion: “Simulation and Surgical Skill-Set Mastery: Aortic Valve Repair, Valve-Sparing Root Replacement”, *Discussant*, “Simulation Aortic Valve Repair and Valve-Sparing Aortic Replacement”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, July 2015
100. “Simulation and Surgical Skill-Set Mastery: Aortic Valve Repair, Valve-Sparing Root Replacement”, *Faculty Discussant*, “Simulation Aortic Valve Repair and Valve-Sparing Aortic Replacement”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, October 2016
101. “Simulation and Surgical Skill-Set Mastery: Aortic Valve Repair, Valve-Sparing Root Replacement”, *Faculty Discussant*, “Simulation Aortic Valve Repair and Valve-Sparing Aortic Replacement”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, October 2017
102. “Simulation and Surgical Skill-Set Mastery: Aortic Valve and Root Simulations Modules”, *Faculty Discussant*, “Simulation Aortic Valve Repair and Valve-Sparing Aortic Replacement”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, October 2018
103. “Simulation Aortic Valve Repair and Valve-Sparing Aortic Replacement”, *Instructor*, CryoLife Aortic Valve and Aortic Root Boot Camp, Atlanta, GA, October 2019
104. “Adult Cardiac Track II: Debate: TEVAR for Chronic Type B Dissection Versus DTA/TAAA”, *Con viewpoint*, “Advanced Course II: Aortic Valve Repair Wet Lab, Cardiology, Surgery and Anesthesia Wet Lab for Advanced Primary Aortic Leaflet Repair Techniques Including Cusp Augmentation”, *Instructor*, Society of Thoracic Surgeons Tech-Con, Orlando FL, March 2014
105. “Current Status of Thoracic Endovascular Aortic Repair in Treating Thoracic Aortic Disease”, *Invited Speaker*”, “Current State of Endovascular Thoracic Aortic and Aortic Valve Technology”, *Panel Discussant*, American College of Surgeons Clinical Congress, San Francisco, CA, October 2014
106. “The PETTICOAT Concept: Update on STABLE trial”, *Invited Lecture*, “Retrograde Type A Dissection: Predictors and Management”, *Invited Lecture*, *Panel Discussant*: Thoracic Aortic Disease Session, “Case Based Presentations: How I Do I - Repair of Retrograde Type A Dissection”, *Invited Lecture*, “Case Based Presentations”, *Panel Discussant*, “Thoracoabdominal Aortic Pathology”, *Moderator*, “Challenging Case Presentations - Aortic Dissection”, *Moderator*, Advanced TEVAR Symposium, Rosemont, IL, November 2014
107. “Current Controversies in Coronary Revascularization”, *Moderator*, American Heart Association Scientific Sessions, Chicago, IL, November 2014
108. “Basic Science Research: Adult Cardiac”, *Moderator*, Society of Thoracic Surgeons Annual Meeting, San Diego, CA, January 2015
109. “Indications and Contraindications to TEVAR in Genetically Triggered Aortic Disease”, Houston Aortic Symposium, Houston, TX, March 2015
110. “Expanding Indications for TAVR”, *Co-Chair*, American College of Cardiology 2015 Scientific Sessions, San Diego, CA, March 2015

111. “BAV-Associated Aortopathy: The Interplay of Oxidative Stress, Cellular Mechanisms, and Microarchitectural Changes to the ECM”, Cardiac Surgery Biology Club Meeting, Seattle, WA, April 2015
112. “Transfemoral Access: How to TAVR Session I: Vascular Access and Closure - Transfemoral and Alternative Sites”, *Discussant*, “Alternative Access: How to TAVR Session I: Vascular Access and Closure - Transfemoral and Alternative Sites”, *Presenter*: Direct Aortic vs Subclavian-Axillary TAVR: Lessons from the CoreValve Pivotal Trial: How to TAVR Session I: Vascular Access and Closure - Transfemoral and Alternative Sites. Transcatheter Valve Therapy (TVT) Chicago, Chicago, IL, June 2015
113. “Review of Self-Expandable TAVR Randomized Trials” Panel: Session I: Patient Selection and Preparation: Case Presentation and Discussion, *Primary Discussant*, “Why and How I Perform a Valve-Sparing Root Replacement”, *Speaker*, Panel: Session II: “Case Presentation and Techniques in SAVR and TAVR, *Primary Discussant*, Society of Thoracic Surgeons Masters in Innovative Structural Heart and Valve Surgery: A Case-Based and Hands-On Symposium, Chicago, IL, August 2015
114. “Intervention and Surgery: Thoracic Aorta”, *Moderator*, American Heart Association Scientific Sessions, Orlando, FL, November 2015
115. “The Year in Review: What’s New in the Management of Aortic Valve Disease”, Society of Thoracic Surgeons Annual Meeting, Phoenix, AZ, January 2016
116. “Alternative Access: Direct Aortic vs. Subclavian”, *Invited Speaker*, “Panel Discussion - Alternative Access”, *Primary Discussant*, Minnesota Valve Symposium, Minneapolis, MN, April 2016
117. “Developing Advanced Skills in Aortic Surgery”, *Invited Speaker*, “Wet Lab Simulation”, *Instructor*, “Molecular Basis of Valve Disease: What Do We Know in 2016”, *Invited Speaker*, “To Replace or Not to Replace the 4.5 cm Aneurysm During Elective Cardiac Surgery: The Debate Continues”, *Moderator*, “Oxidative Stress and Thoracic Aortic Aneurysm Formation”, *Invited Speaker*, American Heart Association Scientific Sessions, New Orleans, LA, November 2016
118. “Who Gets Isolated Arch Aneurysm? Is It High Risk by Definition?”, *Faculty*, “Case Presentations: Arch Aneurysm Cases, **Gleason TG, Patel HJ.** “Panel Discussion: Session II Aneurysm 2”, *Discussant*, “Conversation with the Experts: Review of the Guideline Clarification for Treating Bicuspid Valve Aortopathy”, *Expert*, Society of Thoracic Surgeons TEVAR Symposium, Chicago, IL, December 2016
119. “AVR Running Suture, “How to” Video Session: Technical Tricks and Pitfalls to Simplify Cardiac Surgery Procedures”, *Invited Speaker*, “Debate: Should a Moderately Dilated Ascending Aorta (4.6-5.4 cm) be Replaced in Patients with Normally Functioning Bicuspid Aortic Valve?”, *CON viewpoint*, Society of Thoracic Surgeons Annual Meeting, Houston, TX, January 2017
120. “Complete Replacement of the Transverse Arch and Great Vessels for Acute Type 1 Dissection”, *Invited Speaker*, Debate: “Malperfusion in Type A Aortic Dissection.”, *Moderator*, Houston Aortic Symposium, Houston, Texas, February 2017
121. Strategies to Reduce Neurocerebral Complications with Acute Type A Aortic Dissection: An Algorithmic Approach”, 25th Biennial Muller-Jones Surgical Society Meeting, Charlottesville, VA, March 30-April 1, 2017
122. DEBATE: “Low Risk TAVR Trials: A Heart Surgeon’s Savior or Nemesis?” PRO: Michael J. Reardon, M.D. CON: Ani C. Anyanwu, M.Sc., M.D., *Moderator*, “Reconstruction of the

- Bicuspid Aortic Valve”, *Presenter*, Current Trends in Aortic, Cardiac and General Thoracic Surgery, Houston, TX, September 2017
123. Should Bicuspid Valves Ever be Repaired?”, “Toward Precision/Molecular Medicine: Determinants of Surgical Decision Making in Bicuspid Valve Disease”, American Heart Association Scientific Sessions, Anaheim, CA, November 2017
 124. My Tube Adult Cardiac How To Video Session. Bicuspid Aortic Valve Repair”, *Invited Speaker*, “STS Video Roundtable Debate on Exercise Restriction in Cardiac Surgery”, *Moderator*, “Adult Cardiac Aorta I”, *Moderator*, Debate: “55 YO Patient Presenting with Acute Type A Aortic Dissection with Stroke and Hemiplegia (Aggressive Immediate Intervention)”, *Moderator*, Society of Thoracic Surgeons Annual Meeting, Ft. Lauderdale, FL, January 2018
 125. Roundtable Discussion “TAVR and the TVT Registry: Updates and Insights”, *Discussant*, STS University: “Valve-Sparing Aortic Root Replacement”, *Instructor*, “Adult Cardiac: Aorta I, *Moderator*, Society of Thoracic Surgeons Annual Meeting., San Diego, CA, January 2019
 126. “Session III: Ascending Aorta/Aortic Dissection (Proximal)”, *Moderator*, “Blood Product Conservation and Its Impact on Type A Aortic Dissection Mortality and Complication”, *Presenter*, The Houston Aortic Symposium, Houston, TX, May 2019
 127. “Craver Lectureship: Bicuspid Aortic Valve-Associated Aortopathy: Insights from the Clinic to the Laboratory and Back”, *Grand Rounds*, Emory University School of Medicine, Atlanta, GA, March 2019
 128. Is there Really Such a Thing as Uncomplicated Type B Dissection? *Invited Speaker*, Case Presentation: “Retrograde Ascending Dissection with Petticoat case”, *Invited Speaker*, Case Presentation: “Acute Dissection Presenting with Neuro Malperfusion - Non TEVAR.”, *Invited Speaker*, “Table/Wet Lab Instruction: Hyperacute; Chronic; Hybrid Arch Repair, *Instructor*, Society of Thoracic Surgeons TEVAR Symposium, Chicago, IL, April 2019
 129. Endovascular Strategies in Thoracic Aortic Surgery”, *Moderator*, “Aortic Dissection: New Insights”, *Moderator*, American Heart Association Scientific Sessions, Philadelphia, PA, November 2019
 130. “Operating on Diseased Aortas: Geometry, Genetics and Patience”, *Presenter*, GENTAC Aortic Summit 2020, Sponsor: National Marfan Foundation, Virtual Meeting, October 2020
 131. “Bicuspid Aortopathy: Insights from the clinic to the lab and back.” Annual Albert Broccoli Visiting Professor in Aortic Surgery, The Johns Hopkins University School of Medicine, Baltimore ,MD, September, 2021.

International

132. “Gender Equality at Last: Results of a Prospective Study of 646 Consecutive Infections Among Hospitalized Patients”, 38th Annual Meeting of the Interscience Conference on Antimicrobial Agents and Chemotherapy, San Diego, CA, September 1998
133. “Importance of Gram Positive Bacillary Infections in Hospitalized Patients”, *Podium presentation*, International Conference on Emerging Infectious Diseases, Atlanta, GA, July 2000
134. “Total Proximal Aortic Replacement: Independent Predictors of Intermediate-Term Mortality”, *Podium presentation*, “Morbidity and mortality after combined distal arch and extent I/II thoracoabdominal aneurysm Repair using Deep Hypothermic Circulatory Arrest via the Left Chest”, *Podium presentation*, “Endovascular Repair of Thoracic Aortic Aneurysm: Results From Phase I & II Study With Medtronic “Talent” Stent Graft”, *Podium presentation*, Aortic Surgery Symposium IX, New York, NY, April 2004

135. “Management of Aortic Graft Infections in the Chest.”, *Podium presentation*, Sixth International Symposium on Redo Cardiac Surgery in Adults, San Francisco, CA, April 2005
136. “Composite Open-Endograft Reconstruction of the Proximal Thoracic Aorta”, Aortic Surgery Symposium X, New York, NY, April 2006
137. “Redo Proximal Aortic Surgery after Thoracic Aortic Stent Graft Disasters, *Podium presentation*, Seventh International Symposium on Redo Cardiac Surgery in Adults, Washington, DC, May 2007
138. “Valve Repair, Annuloplasty, and Valve-sparing Aortic Root Replacement: the State-of-the-Art for Bicuspid Aortic Valve Syndrome”, *Grand Rounds*, Libin Cardiovascular Institute, University of Calgary, Calgary, Alberta, Canada, May 2009
139. “How Should We Manage Penetrating Ulcers and Intramural Hematomas of the Thoracic Aorta?”, *Podium presentation*, 91st American Association for Thoracic Surgery Annual Meeting, Philadelphia, PA, May 2011
140. “Looking Beyond PARTNER 2 and SURTAVI: Has the Time Come to Expand the Indications for TAVR Beyond the Inoperable and High Risk to the Moderate Risk?”, *Con: Equipoise Remains Justified*, “Advanced Course II: Aortic Valve Repair Wet Lab. Cardiology, Surgery and Anesthesia Wet Lab for Advanced Primary Aortic Leaflet Repair Techniques Including Cusp Augmentation”, *Faculty Instructor, Moderator*, Florida Valve International Symposium, Miami, FL, March 2014
141. “Update on Stable Trial for Acute, Complicated Type B Dissection, *Speaker and Panel Discussant*, American Association for Thoracic Surgery Aortic Symposium 2014, New York, NY, April 2014
142. “Late Breaker Slot Neurologic Event-Risk and –Extent and –Extent are Equivalent for TAVR and SAVR in High Risk Patients: A Neurological Sub-Study of the US Pivotal Randomized Trial of a Self-Expanding Prosthesis”, *Primary Discussant* - “Abstract: First North American single Centre Experience with the Enable Sutureless Aortic Bioprosthesis in a High-Risk Surgical Cohort”, American Association for Thoracic Surgery Annual Meeting, Seattle, WA, April 2015
143. “Nuanced BAV Repair Case Studies: Assessment and Decision Making - To Do or Not To Do? 1st Annual North America Aortic Valve Symposium. Perelman School of Medicine, University of Pennsylvania., Philadelphia, PA, May 2015
144. “Preliminary Results of the STABLE II Trial”, *Invited Speaker*. “Panel Discussion”, *Primary Discussant*, American Association for Thoracic Surgery Aortic Symposium, New York, NY, May 2016
145. “Nuances with Syndromic Type A Dissections: Marfan’s, Bicuspid Aortic Valve, Familial Disease”, RomAorta, Piazza della Repubblica, Rome, Italy, August 2016
146. “Radical Bicuspid Aortic Valve Repair - Type I to Type 0 Conversion: Live-in-Box Presentation and Outcomes”, *Invited Speaker*, Panel Discussion: “Bicuspid Aortic Valve Repair - Deep Dive”, *Discussant*, 2nd Annual North American Aortic Valve Repair Symposium, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, September 2016
147. Mutations in ROBO4 Lead to the Development of Bicuspid Aortic Valve and Ascending Aortic Aneurysm”, *Discussant*, “Use of Novel Hemoabsorption Technology to Reduce Plasma Free Hemoglobin during Complex Cardiac Surgery: Results from the Randomized Controlled Safety and Feasibility REFRESH I Trial”, *Invited Speaker*, American Association for Thoracic Surgery Annual Meeting, Boston, MA, May 2017

148. Bicuspid Aortic Valve Repair Outcomes: “BAV Repair with Pericardial Patch Augmentation”, *Podium presentation*, “Abstract and Video Session #2”, *Moderator*, Aortic Valve Repair Summit, Ottawa, Ontario, Canada, June 2017
149. “Complete Conversion of Type 1 to Type 0 Bicuspid Aortic Valve for Severe Aortic Insufficiency”, *Keynote Speaker*, Luncheon Seminar: “How to Select the Right Tissue Valve for Better Outcomes in Aortic Valve Disease”, *Speaker*, Lecture: “Midterm Clinical Result for the Trifecta Valve and Running Suture Technique”, *Speaker*, Presentation: “JATS session Pro-Con Great Debate: Bicuspid Aortic Valve Related Aortopathy”, *Moderator*, Japanese Association of Thoracic Surgery Meeting, Sapporo, Japan, September 2017
150. “Session 3 - Arch”, *Moderator*, “Cerebral Protection: Hot, Cold, Forward, Backward? *Invited Speaker*, Panel Discussion: “Session 3 - Arch”, *Discussant*, “Breakfast Breakout Session: Aortic Surgery Forum”, **Gleason TG**, *LeMarie SA*, American Association for Thoracic Surgery Aortic Symposium, New York, NY, April 2018
151. “Debate – Is TAVI the New Gold Standard in the Treatment of Patients with Aortic Stenosis? Yes: C. Tamburini; No: L. Menicanti”, *Moderator*, “Fifteen Years After the First TAVI, Where are we and Where are Headed? Unanswered questions and forthcoming trials”, *Keynote Speaker*, ISMETT Focus on TAVI – Transcatheter Aortic Valve Implantation, Palermo, Italy, May 2018
152. Debate: “Aggressive Resection/Reconstruction of the Aortic Arch in Type A Dissection”, *Con viewpoint* “Cannulation Strategy in Type A Dissection: Order Out of Chaos”, *Presenter*, “Panel Discussion - Aorta/Aortic Arch/Neurologic Protections”, *Discussant*, STS/EACTS Latin America Conference, Cartagena, Columbia, November 2018
153. “Brain Protection for Complex Type A Aortic Dissection Involving the Arch and Carotids”, *Invited Speaker*, “Aorta Talks with Experts”, *Moderator*, “Current Status of TEVAR for Complicated Type B Dissection”, *Presenter*, Update in Thoracic and Cardiovascular Surgery Symposium, Seoul, Korea., December 2018
154. “Choosing Between a Supracoronary Graft and a Root Replacement”, *Speaker*, “Seminars in Thoracic and Cardiovascular Surgery Roundtable Discussion on Contemporary Surgical Management of Type A Aortic Dissection”, *Discussant*, American Association for Thoracic Surgery Annual Meeting, Toronto, Ontario, Canada, May 2019