

CURRICULUM VITAE

NAME: JAMES K. WU, MD, MBA **Last Revised Date:** 1/19/2024

PRESENT TITLE: Chief, Division of Cardiothoracic Surgery
Lehigh Valley Heart Institute
LVPG Cardiac & Thoracic Surgery
Lehigh Valley Health Network

Home Address: 710 N. 38th St.
Allentown, PA 18104

Office Address: LVPG Cardiac & Thoracic Surgery
1250 S. Cedar Crest Blvd., Suite 310
Allentown, PA 18103

Citizenship: United States

Undergraduate Education:

Sept. 1985-June 1989 The University of Chicago - The College
Major – Chemistry BA June 1989

Graduate Education:

Sept. 1989-June 1993 The University of Chicago
Pritzker School of Medicine MD June 1993

Jan. 2018-May 2021 University of Massachusetts – Amherst
Isenberg School of Management MBA May 2021

Postdoctoral Residency and Fellowship Training:

1993-1994 Intern in Surgery, Stony Brook Teaching Hospitals, Stony Brook, NY
Chairperson - Naji Abumrad, M.D.
1994- 1997 Resident in Surgery, Stony Brook Teaching Hospitals, Stony Brook, NY
Chairperson - Naji Abumrad, M.D.
1997-1998 Chief Resident in Surgery, Stony Brook Teaching Hospitals, Stony Brook, NY
Chairperson - John J. Ricotta, M.D.
1998-1999 Junior Resident in Thoracic Surgery, Loyola University Medical Center,
Maywood, IL
Chairperson - Mamdah Bakhos, M.D.
1999-2000 Chief Resident in Thoracic Surgery, Loyola University Medical Center,
Maywood, IL
Chairperson - Mamdah Bakhos, M.D.
2000-2001 Chief Resident, Clinical Associate in Thoracic and Cardiovascular Surgery
The Cleveland Clinic Foundation, Cleveland, OH
Chairperson – Delos M. Cosgrove III, M.D.

Academic Appointments:

1993-1998 Clinical Assistant Instructor, SUNY Stony Brook School of Medicine, NY
2002-2011 Clinical Assistant Professor of Surgery, Penn State College of Medicine,
Hershey, PA
2018-present Clinical Assistant Professor, USF Morsani College of Medicine, Tampa, FL

2019-present Clinical Assistant Professor, Department of Surgery, Philadelphia College of Osteopathic Medicine, PA

Hospital Appointments:

2000-2001 Clinical Associate, The Cleveland Clinic Foundation, OH
2001-2004 Associate Staff, Sacred Heart Hospital, Allentown, PA
2001-Present Active Staff, Good Shepherd Specialty Hospital, Allentown, PA
2001-present Attending Surgeon, Division of Cardiothoracic Surgery, Lehigh Valley Health Network, Allentown, PA
2001-2013 Medical Director of Perfusion Services, Lehigh Valley Health Network, Allentown, PA
2012-2016 Medical Director of Open Heart Unit (OHU), Lehigh Valley Health Network, Allentown, PA
2013-2017 Chief, Section of Cardiac Surgery, Division of Cardiothoracic Surgery, Lehigh Valley Health Network
2017-present Chief, Division of Cardiothoracic Surgery, Lehigh Valley Health Network
2018-2022 Co-Director of Open Heart Unit (OHU), Lehigh Valley Health Network, Allentown PA

Employment/Consulting/Work History:

8/20/2001-10/3/2004 The Heart Care Group, P.C.
1202 S. Cedar Crest Boulevard, Suite 500
Allentown, PA 18106

10/4/2004-12/31/09 Specialty Physicians of LVHN, P.C.
Lehigh Valley Heart and Lung Surgeons
1240 S. Cedar Crest Boulevard, Suite 403
Allentown PA, 18103

1/1/10-12/31/14 Lehigh Valley Physician Group
Lehigh Valley Heart and Lung Surgeons
1250 S. Cedar Crest Boulevard, Suite 310
Allentown PA, 18103

1/1/15-present Lehigh Valley Physician Group
Cardiac & Thoracic Surgery – 1250 Cedar Crest
1250 S. Cedar Crest Boulevard, Suite 310
Allentown PA, 18103

Medical Licensure:

1997 New York # 205463
1998 Illinois # 036-094825
2000 Ohio # 35-07-8108-W
2001 Pennsylvania # MD073880 (Active)
2007 New Jersey # 25MA08217300 (Active)

Board and Graduate Education Certification:

1993	Doctorate of Medicine
1999	Diplomate of the American Board of Surgery
2001	Diplomate of the American Board of Thoracic Surgery #6584
2008	Recertification for the American Board of Surgery (2009 – 2019)
2009	Recertification for the American Board of Thoracic Surgery (2011-2021)
2020	Recertification for the American Board of Thoracic Surgery (2021-2031)

Professional organizations, Board of Directors, and Committees:

2005-present	Steering Committee, DVSTSQII (Delaware Valley Society of Thoracic Surgery Quality Improvement Initiative)
2008-2013	Member, Lehigh County Medical Society Board of Trustees
2008-2010	Secretary, DVSTSQII
2009	Vice President, Lehigh County Medical Society
2010	President Elect, Lehigh County Medical Society
2011	President, Lehigh County Medical Society
2010-present	Treasurer, DVSTSQII
2012	Immediate-Past President, Lehigh County Medical Society
2012	PAMED Task Force to Improve Governance Processes & Structures
2013-present	Extracorporeal Life Support Organization (ECLS)
2012-present	Society of Thoracic Surgeons (STS)

Honors and Awards:

1985	National Honor Society
1985	Honors group of the Forty-Fourth Annual Science Talent Search for the Westinghouse Science Scholarships and Awards
1985	Finalist of the First Annual Otto P. Burgdorf Student Science Research Conferences, NY
1985	Dean's List, University of Chicago - The College
1986	Dean's List, University of Chicago - The College
1990	NIH Medical Student Summer Research Award
1997	Department of Surgery Outstanding Resident Faculty Award, SUNY Stony Brook, NY
2011	"Above and Beyond" award for Outstanding Contribution to the summer 2011 Research Scholar Program, Granted by LVHN, Dept. of Education, July 29, 2011

Service on Lehigh Valley Health Network:

2007-2010	Member Reviewer, Institutional Review Board, Lehigh Valley Health Network
2010-present	Service-Line Leadership Committee (SLLC), Lehigh Valley Health Network, Allentown, PA
2011-present	Cardiovascular Leadership Committee (CVLC), Lehigh Valley Health Network, Allentown, PA
2013-2016	Member-at-Large, Medical Executive Committee, Lehigh Valley Health Network
2013-present	Extra Corporeal Membrane Oxygenation (ECMO) Working Group
2016	LVHN Secure Texting Steering Committee
2022-present	Surgical Executive Committee, Lehigh Valley health Network, Allentown PA

Service to the Community Organizations, Board of Directors, Committees:

2010-present	Leonard Pool Society
2110-present	Summer Research Scholar Program, Lehigh Valley Health Network, Allentown, PA
2020-present	Pennsylvania Shakespeare Festival Board of Directors, DeSales University, PA
2020-present	Emerging Health Professionals (EPH) shadowing program for rising high school seniors, Lehigh Career & Technical Institute (LCTI) PA

Teaching responsibility:

8/2001-present	Training of general surgery residents rotating on the thoracic surgery service
8/2001-present	Teaching of 3 rd & 4 th year medical students rotating on the thoracic surgery service
8/2001-present	Teaching of physician assistant students rotating on the thoracic surgery service
2002-2009	Yearly lectures on Cardiopulmonary case presentation in Applied Physiology for Undergraduate curriculum, Muhlenberg College, Allentown, PA
2003-2009	Yearly lecture on Cardiothoracic Surgery and Medical School experience for Undergraduate Pre-Med curriculum, Cedar Crest College, Allentown, PA
6/2010-present	Summer Scholar Research program, LVHN
9/2013-2023	Developing Extra Corporeal Membrane Oxygenation (ECMO) teaching modules and symposia lectures for programmatic development
6/2020-present	Open Heart Unit (OHU) and Transitional Open Heart Unit (TOHU) Advanced Practice Clinician (APC) training for Cardiovascular and Cardiothoracic perioperative care

Clinical responsibilities:

2001-present	Practice of all aspect of adult cardiothoracic surgery, consultation, and post-operative management
2004	Initiation and development of Cardiac Implantable Electronic Devices (CIED) / lead management program
2006	Initiation and development of Thoracic Endovascular Aortic Repair (TEVAR) program
2006	Initiation and development of Septal Myectomy for the treatment of Obstructive Hypertrophic Cardiomyopathy (HCM) – Surgical Director
2007	Initiation and development of Minimally Invasive thorascopic Maze procedure for the treatment of atrial fibrillation
2012	Assist in development of the Trans-Catheter Aortic Valve Replacement (TAVR) program
2013	Management of section of adult cardiac surgery service at LVHN
2013	Initiation and development of Adult ECMO program – Medical Director
2013	Initiation and development of the hybrid Convergent ablation procedure for the treatment of persistent atrial fibrillation – Surgical Director

Journal Publications:

1. Ashish Kabra, MD, **James K Wu MD**, and Matthew W Martinez MD. Anomalous Right Coronary Artery Arising from the Pulmonary Artery. J Cardiovasc Magn Reson 2010;10-20
2. Blount JR, **Wu JK**, MD, Martinez MW, MD. Fabry's disease with LVOT obstruction: diagnosis and management. J Car Surg. 2013 Nov;28(6):695-8

3. Ayub B, MD, Guthier J, MD, **Wu JK, MD**, Marinez MW, MD. Durability, reliability, visibility: 48 year-survival of a Starr-Edwards mitral valve. *Heart Lung Circ* 2014 Jan;23(1):96-7
4. Mastoris KL, Qureshi A, Subrayappa NK, Martinez MW, **Wu J**. Anomalous origins of a coronary artery from the pulmonary artery: A series of three case reports undetected into adulthood. *Int J Case Rep Images* 2015;6(7):391–395.
5. Mackenzie, R. S., Craen, A. M., Niehaus, M. T., Czysz, A. J., Misselbeck, T. S., Weil, D. P., & **Wu, J. K.** (2016). Case report: Triple setup airway-simultaneous oropharyngeal, surgical, and ECMO preparation. *Am J Emerg Med*. 2016 Jun 16 pii: S0735-6757(16)30273-X. doi: 10.1016/j.ajem.2016.06.057
6. Niehaus MT, Pechulis RM, **Wu JK**, Frei S, Hong IJ, Sandhu RS, Greenberg MR. Extracorporeal membrane oxygenation (EcMo) for hypothermic cardiac deterioration: a case series. *Prehosp Disaster Med*.2016;31(4):1-2.
7. Juthani, Biren K, Jennifer Macfarlan, **James Wu**, Scott Beman, and Timothy S Misselbeck. “Incidence of General Surgical Procedures in Adult Patients on Extracorporeal Membrane Oxygenation.” *Journal of the Intensive Care Society*, (October 2018).
8. Juthani BK, Macfarlan J, **Wu J**, Misselbeck TS. Incidence of nosocomial infections in adult patients undergoing extracorporeal membrane oxygenation. *Heart Lung* 47 (2018) 626-630
9. Malas M, Locham S, Hughes G, Bacharach J, Brinster D, McKinsey J, Mannava K, **Wu J**, Rahimi S, Sharafuddin M, Mid-Term Outcomes in Patients Undergoing Endovascular Repair of Thoracic Aortic Aneurysms and Penetrating Atherosclerotic Ulcers using the RelayPlus Stent-Graft, *Journal of Vascular Surgery* (2020), doi:https://doi.org/10.1016/j.jvs.2020.05.059.

Abstract and Poster Presentations:

11/1/07	Poster Presentation: “Subtle Acute Traumatic Aortic Injury: Outcomes of Non-Operative Management”, Summit on Acute Aortic Diseases, Yale University Medical Center, New Haven, CT
4/29/10	Poster Presentation: “14-Year Experience of Traumatic Aortic Transection”, New York Aortic Symposium, New York, New York
10/6/10	Poster Presentation: “14-Year Experience of Traumatic Aortic Transection”, Pennsylvania Association for Thoracic Surgery Annual Meeting, Orlando, Florida
3/24/11	Poster Presentation: “Risk Factors Affecting Outcomes in Patients Undergoing Hypothermic Circulatory Arrest during Aortic Surgeries”, the Houston Aortic Symposium, Houston, TX
10/13/11	Oral presentation sponsor: “Risk Factors Affecting Surgical Outcomes in Patients Undergoing Hypothermic Circulatory Arrest During Aortic Surgeries: A 10-Year Study”, Oct 13-15, 2011 PATS/ECTSS National Harbor, MD
10/13/11	Oral presentation sponsor:” Efficacy of Intraoperative Epiaortic Screening during Coronary Bypass Surgery: 5-Year Study of Prevention of Cerebrovascular Accident”, Oct 13-15, 2011 PATS/ECTSS National Harbor, MD
10/23/11	Poster presentation:” Risk Factors Affecting Surgical Outcomes in Patients Undergoing Hypothermic Circulatory Arrest during Aortic Surgeries: A 10-Year Study”, American College of Surgeons, San Francisco CA
3/23/12	Poster presentation: “TREATMENT OF ACUTE AORTIC DISSECTION AT A COMMUNITY HOSPITAL: A 10 YEAR REVIEW OF OUTCOMES”, The

- Houston Aortic Symposium: Frontiers in Cardiovascular Diseases, the Fifth in the Series, Houston Texas
- 4/12/12 Oral presentation sponsor: “Conventional Aortic Valve Replacement in Octogenarians – A single Center experience”, Valves in the Heart of Big Apple, April 12-14, 2012 NYC NY
- 4/12/12 Oral presentation sponsor: “Aortic Valve Replacement in a Patient with Systemic Amyloidosis”, Valves in the Heart of Big Apple, April 12-14, 2012 NYC NY
- 9/8/12 Lehigh County Medical Society 2012 Symposium: “Anatomy of Medical Malpractice Lawsuit”, Lehigh Valley Hospital, Allentown, PA
- 10/3/12 Poster presentation: “Conventional Isolated Aortic Valve Replacement In Octogenarians: —A 10-Year Single Center Experience”, at the American College of Surgeons’ 2012 Clinical Congress, Wednesday, October 3, 2012 in Chicago, IL
- 10/6/12 Oral presentation sponsor: “The Effect of Severe Pulmonary Hypertension in Mitral Valve Surgery Patients: A Seven Year Single Center Review” at the 50th Annual Meeting, October 4-6, 2012 at the Ritz-Carlton in Naples, Florida
- 10/6/12 Oral presentation sponsor: “Conventional Isolated Aortic Valve Replacement in Octogenarians - a 10-Year Single Center Experience” at the 50th Annual Meeting, held October 4-6, 2012 at the Ritz-Carlton in Naples, Florida
- 7/20/13 Causes of Post Cardiac Surgical Readmissions
Janissa Nair, James K. Wu
Publication: Research Scholars Poster Presentation
- 7/20/13 Effective Use of the PleurX (R) Catheter in Pericardial Space
Steven Kurban, James K. Wu
Publication: Research Scholars Poster Presentation
- 7/20/13 Septal Myectomy in Obstructive HCM High Risk Patients
Heather Geist, James K. Wu
Publication: Research Scholars Poster Presentation
- 9/20/13 Poster Presentation, “Successful Long-Term Extracorporeal Cardiopulmonary Membrane Oxygenation without Anti-Coagulation” 24th Annual ELSO Conference, Hyatt Regency Philadelphia at Penn's Landing
- 10/3/14 Poster presentation: “Septal Myectomy in Obstructive HCN High Risk Patients”, at the American College of Surgeons 2014 Clinical Congress, San Francisco, CA
- 1/17/15 Poster presentation: Extreme Physical Therapy- Progression of Functional Mobility of 25 Year Old on ECMO 72 Days at the 2015 Critical Care Congress, Phoenix, AZ Abstract ID: 3454 New Abstract Number: 1255
- 9/18/15 Poster presentation: Outcomes of patients on extracorporeal membrane oxygenation (ECMO) for periods of time without anticoagulation at LVHN in the past 3 years, Bryan Auvil, Rosalie Mattiola, Biren Juthani, DO, Rita Pechulis, MD, James Wu, MD 26th Annual ELSO conference in Atlanta, Georgia on September 18-20.
- 9/18/15 Poster presentation: Review of In-Hospital and Out-of-Hospital Cardiac Arrests at a Tertiary Community Hospital for Potential ECPR Rescue, Amanda Broderick, Jordan Williams, Alexandra Maryashina, Biren Juthani, DO, James Wu, MD 26th Annual ELSO conference in Atlanta, Georgia on September 18-20.
- 11/7/15 Poster presentation: THE UTILIZATION OF A NON-INVASIVE VENTILATOR TO COMPENSATE FOR CHEST TUBE LEAK DURING EXTRACORPOREAL MEMBRANE OXYGENATION, Number: 2277780), Poster Discussion, at the 2015 AARC OPEN FORUM, November 7-10 in Tampa, Florida
- 9/17/16 Poster presentation: Incidence of Deep Vein Thrombosis in Patients Undergoing Right Internal Jugular Vein cannulation for Venovenous Extracorporeal Membrane Oxygenation, Taryn Samet, Nicole Stansbury, Rita

Pechulis, MD, James Burke, MD, Timothy Misselbeck, MD, James Wu, MD. The 27th Annual ELSO Conference in conjunction with AmSECT held on September 15-18, 2016 in San Diego, California at the Manchester Grand Hyatt Hotel.

- 9/17/16 Poster presentation: Comparison of In-Line versus Conventional Independent Continuous Renal Replacement Therapy in Extracorporeal Membrane Oxygenation Patients, Nicole Stansbury, Taryn Samet, Rita Pechulis, MD, James Burke, MD, Timothy Misselbeck, MD, James Wu, MD, The 27th Annual ELSO Conference in conjunction with AmSECT held on September 15-18, 2016 in San Diego, California at the Manchester Grand Hyatt Hotel.
- 10/21/16 Poster presentation: Incidence of Deep Vein Thrombosis in Patients Undergoing Right Internal Jugular Vein cannulation for Veno-Venous Extracorporeal Membrane Oxygenation, Taryn Samet, Nicole Stansbury, Rita Pechulis, MD, James Burke, MD, Timothy Misselbeck, MD, James Wu, MD. The 54th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 19-22, 2016 at the Loews Don CeSar Hotel, St. Pete Beach, Florida.
- 10/21/16 Poster presentation: 10-year outcome of the Thoracic Endovascular Aortic Repair (TEVAR) Procedure, Jacob Fink, Youssef Zaki, Dr. Timothy Misselbeck M.D. and Dr. James Wu MD. The 54th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 19-22, 2016 at the Loews Don CeSar Hotel, St. Pete Beach, Florida.
- 10/21/16 Poster presentation: Incidental Findings on CT Scans in Transcatheter Aortic Valve Replacement Patients, Sydney Pickering, Alexandra Maryashina, Erik Sylvain, MD, Raymond L. Singer, MD, MMM, James Wu, MD The 54th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 19-22, 2016 at the Loews Don CeSar Hotel, St. Pete Beach, Florida.
- 10/21/16 Poster presentation: Outcomes of Convergent Ablation Procedure using a Cryo-balloon Catheter for Treatment of Persistent Atrial Fibrillation, Rosalie Mattiola, Avery Cox, Bryan Auvil, Jennifer Macfarlan, MPH, Gregory Altemose, MD, Babak Bozorgnia, MD, Hari Joshi, MD, Timothy Misselbeck, MD, James K Wu, MD, MD, The 54th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 19-22, 2016 at the Loews Don CeSar Hotel, St. Pete Beach, Florida.
- 9/25/2017 Poster presentation: A Retrospective Analysis of the Outcomes of Extracorporeal Cardiopulmonary Resuscitation (ECPR), Rachel Willis, Kennedy Gallagher James Burke, MD, Timothy S. Misselbeck, MD, James Wu, MD, the 28th Annual ELSO Conference held on September 24-27, 2017 Hilton Baltimore, Baltimore, MD
- 10/20/2017 Poster presentation: “Mid-Term Survival Rate of Transcatheter Aortic Valve Replacement With and Without Dialysis”, Taryn Samet, Sydney Pickering, Timothy S. Misselbeck, MD, Raymond Singer, MD, James Wu, MD at the 55th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 18-21, 2017 at the Omni Amelia Island Plantation Resort, Amelia Island, Florida.
- 10/20/2017 Poster presentation: “Creatinine Trends in Transcatheter Aortic Valve Replacement Patients”, Sydney Pickering, Taryn Samet, Timothy S. Misselbeck, MD, Raymond Singer, MD, James Wu, MD at the 55th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 18-21, 2017 at the Omni Amelia Island Plantation Resort, Amelia Island, Florida.
- 10/20/2017 Poster presentation: “Outcomes of Pulmonary Embolism in a Tertiary setting”. Nicole Stansbury, James Wu, MD at the 55th Annual Meeting of the Eastern Cardiothoracic Surgical Society held October 18-21, 2017 at the Omni Amelia Island Plantation Resort, Amelia Island, Florida
- 9/14/2018 Poster presentation: “Lactate Trends in Veno-Arterial Extracorporeal Membrane Oxygenation Patients Presenting with Sepsis”, Kennedy Gallagher, Niharika Boinpally, Michael Healy, James Wu, MD at the 29th Annual ELSO Conference held on September 13-16, 2018 The Westin Kierland, Scottsdale AZ

- 9/15/2018 Poster presentation: “Comparison of Survival Indicators between Myocardial Infarction Patients and Septic Patients Who Received Venous-Arterial Extracorporeal Membrane Oxygenation Treatment”, Niharika Boinpally, Kennedy Gallagher, Michael Healy, James Wu, MD at the 29th Annual ELSO Conference held on September 13-16, 2018 The Westin Kierland, Scottsdale AZ
- 9/16/2018 Poster presentation: “Does Pre-Operational pH Affect Outcomes in Venous-Arterial Extracorporeal Membrane Oxygenation Patients with Myocardial Infarction?”, Michael Healy, Kennedy Gallagher, Niharika Boinpally, James Wu, MD at the 29th Annual ELSO Conference held on September 13-16, 2018 The Westin Kierland, Scottsdale AZ
- 10/18/2018 Poster presentation: “Lactate Trends in Venous-Arterial Extracorporeal Membrane Oxygenation Patients Presenting with Sepsis”, Kennedy Gallagher, Niharika Boinpally, Michael Healy, James Wu, MD at the ECTSS 56th Annual Meeting October 17-20, 2018 Opal Sands Resort, Clearwater Beach, Florida
- 10/17/2019 Podium presentation: “Outcomes of Implantable Cardioverter Defibrillator (ICD)/Pacing Lead Extraction Over 8 Years”, Alexandra Repp, Sophie Pickering, Caitlin Hoeing, Samrah Ansari, James K. Wu, MD, at the ECTSS 57th Annual Meeting October 16-19, 2019 Ritz Carlton, Naples, Florida
- 10/9/2020 Virtual poster presentation: “Outcomes of Septal Myectomy on Patients with Hypertrophic Cardiomyopathy” Caitlin Hoeing, James Wu, MD at the ECTSS Virtual 58th Annual Meeting October 9, 2020
- 3/3/2022 E-poster presentation: P62 “Outcomes of Surgical Ultrasonic Aspirator Use for Patients With Severe Mitral Annular Calcification Undergoing Mitral Valve Replacement” Puja Patel, DO, James K. Wu, MD, et al at the Heart Valve Society Annual Meeting on March 3, 2022 in Nobu Hotel Miami FL
- 4/2/2022 E-Poster presentation: “A Coronary Artery Aneurysm Conundrum: Case Report”, Amy Lam, DO, Amy Goodrich-Harris, DO, James K. Wu, MD,³ Ghulam Akhbar, MD, at the American College of Cardiology 71st Annual Scientific Session & Expo in Washington, DC, April 2 – 4, 2022.
- 10/17/2022 Podium Presentation: “Angiovac Outcome Analysis In Tricuspid Valve Endocarditis”, Toledo S, Patel P, Broadwin M, Keita P, Veluz J, Nassar A, Misselbeck T, Wu J. American College Of Surgeons Owen H. Wangenstein Scientific Forum At Clinical Congress American College of Surgery, San Diego CA

Invited lectures and Grand Round Presentations:

- 1991 Plastic and Reconstructive Surgery Grand Rounds, “Clinical Presentation and Management of Martorell’s ulcers”, Chicago, IL
- 1994 Trauma Symposium, “Retroperitoneal Injury”, Stony Brook, NY
- 1995 Pediatric Surgery Symposium, “Embryology of the Abdominal Wall”, Stony Brook, NY
- 1997 General Surgery Grand Rounds, “Surgical Treatment of Esophageal Cancer”, Stony Brook, NY
- 2001 Resident Day Research Presentation, “Natural History of Mitral Regurgitation in patients undergoing Aortic Valve Replacement”, Cleveland Clinic Foundation, OH
- 2001 Surgical Grand Round, “Surgical Options in End Stage Heart Failure”, Lehigh Valley Hospital, Allentown, PA
- 2002 Medical Grand Round, “Surgical Options in End Stage Heart Failure”, Lehigh Valley Hospital, Allentown, PA

2004 Mini-med school, Lehigh Valley Hospital, Allentown, PA

2006 Heart Failure Symposium, Mitral Valve Surgery in Heart Failure”,
Lehigh Valley Hospital, Allentown, PA

2/8/07 Third Annual Advances in Cardiac Care, “Surgical Treatment of Atrial
Fibrillation”, Best Western Hotel Conference Center, Bethlehem, PA

2007 Advances in Heart Failure Management, “Mitral Valve Surgery in Heart
Failure”, Lehigh Valley Hospital – Muhlenberg, Bethlehem, PA

12/4/07 5th Annual Update: Contemporary Advancement in Heart Failure,
Electrophysiology and Cardiothoracic Surgery. “Aortic Dissection”, Hazelton,
PA

4/18/09 6th Annual Heart Care Group Symposium: Cutting Edge Cardiology, “Aortic
Valve Replacement: Surgical Perspective”, Macungie, PA

10/21/09 Heart Rhythm Center Community event: Turn off Atrial Fibrillation, Turn on
your Heart, Lehigh Valley Hospital - Cedar Crest, Allentown, PA

12/1/09 7th Annual Update: Contemporary Advances in Cardiovascular Services.
Thoracic and Cardiovascular Update – 09, Valley Country Club, Sugarloaf, PA

10/2/10 Hypertrophic Cardiomyopathy: What to Know and What to Do, “Surgical
Treatment for Symptomatic Hypertrophic Cardiomyopathy - Indication and
Management”, Lehigh Valley Hospital, Allentown, PA

1/2/11 Surgical Grand Rounds, “Thoracic Aortic Aneurysm Repair: How the Easier
Way Became Harder”, Lehigh Valley Hospital, Allentown, PA

9/8/12 Lehigh County Medical Society 2012 Symposium: “Anatomy of Medical
Malpractice Lawsuit”, Lehigh Valley Hospital, Allentown, PA

10/19/12 Invited lecture: “Acute Aortic Disease” at Poconos EMS conference, Poconos
Manor Inn PA

3/2/13 Invited lecture: “TEVAR” at Updates in Cardiology, Lehigh Valley Hospital,
Allentown, PA

11/9/13 “Surgical Management of HCM”, Pennsylvania State Perfusion Society Fall
Meeting at the Westin Hotel, Philadelphia PA

4/2/13 Surgical Grand Rounds, “ECMO in Adult ARDS”, Lehigh Valley Hospital,
Allentown PA

4/25/14 “ECMO in Adult ARDS”, Pennsylvania Society for Respiratory Care 17th
Annual Eastern Regional Conference at the Radisson Hotel and Conference
Center, King of Prussia PA

4/1/14 “Difficult Lung Problems and ECMO for Adult ARDS”, LVHN Mini Medical
School, Allentown PA

9/18/14 “ECMO in Adult ARDS”, Clinical Insights in respiratory Care, Lehigh Valley
Hospital, Allentown, PA

9/27/14 “The TEVAR team – the Lehigh Valley approach”, Mid Atlantic Aortic
Symposium – ISES, Philadelphia PA

10/25/14 “HCM – Surgical management”, Pennsylvania State Perfusion Society Fall
meeting, Mohegan Sun, Wilkes Barre, PA

11/22/14 “ECMO for cardiopulmonary support”, Eastern PA EMS conference, Lehigh
Valley Hospital, Allentown, PA

2/18/15 “ECMO for Adult ARDS”, Grand rounds at Pottstown Memorial Hospital,
Pottstown, PA

11/3/16 “VA ECMO Physiology”, ECMO symposium 2016, Lehigh Valley Hospital,
Allentown PA

4/6/17 “Extracorporeal ECP with ECMO”, 7th Annual Antonio Panebianco cardiac
Nursing Symposium, Northampton Country Club, Easton PA

4/29/17 “Surgical Options for Cardiopulmonary Resuscitation: Techniques and
Outcomes”, Update in Cardiology 2017: Focus on Critical Care, Allentown, PA

12/13/19 “Surgical Management of HCM”, Cardiology Grand Rounds, Morristown
Medical Center, Morristown NJ

10/4/22 “What is Atrial Fibrillation?” Community education lecture series. Macungie
Institute, Macungie PA

Clinical Trials & Research Experience:

- 1984 Study of Secondary Current Mechanism in River Meanders, Dr. A. J. Odgaard, Iowa Institute of Hydraulic research, University of Iowa, IA
- 1986-1988 Effects of NGF on the development and aging of the Septal-Hippocampal System, Dr. Bruce Wainer, Dept. of Pharmacology and Physiological Sciences, University of Chicago, IL
- 1990 Ultrastructural Study of Human Osteoarthritic Cartilage Proteoglycans, Dr. Lawrence Pottenger, Dept. of Orthopedic Surgery, University of Chicago, IL
- 1992-1993 Calcium Channel Blockers and Scar Formation, Dr. Raphael Lee, Division of Plastic and Reconstructive Surgery, University of Chicago, IL
- 2000-2001 Natural History of Mitral valve regurgitation in patients undergoing Aortic valve replacement, Dr. Patrick M. McCarthy, Department of Thoracic and Cardiovascular Surgery, Cleveland Clinic foundation, OH
- 2006-2008 Co-Principal Investigator, Phase 1 trial, Recombinant Factor XIII for first time myocardial revascularization requiring Cardiopulmonary Bypass. Sponsor Company Novo Nordisk
- 2007-2013 Principal Investigator, A Randomized, Multicenter, Double-Blind, Group-Sequential Study to evaluate the Efficacy, Immunogenicity, and Safety of a Single Dose of Merck 0657nl Staphylococcus Aureus Vaccine in Adult Patients Scheduled for Cardiothoracic Surgery. Sponsor Company Merck & Co.
- 2009-2011 Co-Principal Investigator, Phase 2 trial, A Multi-Center, Randomized, Double-Blind, Placebo Controlled Trial on Efficacy and Safety of FXIII Replenishment with two different Doses of Recombinant Factor XIII following Cardiopulmonary Bypass Surgery. Sponsor Company Novo Nordisk
- 2009-2011 Co-Principal Investigator, The Effect of Adenosine on Clinically Significant Adverse Cardiovascular and Cerebrovascular Events in High-Risk Subjects Undergoing Coronary Artery Bypass Graft (CABG) Surgery Using Cardiopulmonary Bypass: RED-CABG Trial. Sponsor Company Schering-Plough
- 2013-2019 Principal Investigator, Post-Approval Study of the Relay Thoracic Stent-Graft With Plus Delivery System in Patients with Thoracic Aortic Aneurysms and Penetrating Ulcers. Sponsor Company Bolton Medical
- 2014-2016 Principal Investigator, A Double-blind, Randomized, Placebo-Controlled Study of Levosimendan in Patients with Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass; LEVO-CTS. Sponsor Company Tenax Therapeutics

2016-2018	Sub-Investigator, Transcatheter Aortic Valve Replacement With the Medtronic Transcatheter Aortic Valve Replacement System In Patients at Low Risk for Surgical Aortic Valve Replacement. Sponsor Company Medtronic
2016-2017	Sub-Investigator, Pivotal Clinical Study to Evaluate the Safety and Effectiveness of MANTA Vascular Closure Device. Sponsor Company Essential Medical, Inc.
2018-2019	Sub-Investigator, The VENT-AVOID Trial A Prospective, Multi-Center, Randomized, Controlled, Pivotal Trial to Validate the Safety and Efficacy of the Hemolung® Respiratory Assist System for COPD Patients Experiencing an Acute Exacerbation Requiring Ventilatory Support. Sponsor Company ALung Technologies, Inc.
2019-2020	Sub-Investigator, A Randomized, Double-Blind, Placebo Controlled, Phase 3 Study To Evaluate The Efficacy And Safety Of QPI-1002 For The E Prevention Of Major Adverse Kidney Events (MAKE) In Subjects At High Risk For Acute Kidney Injury (AKI) Following Cardiac Surgery. Sponsor Company Quark Pharmaceuticals, Inc.
2019-2022	Sub-Investigator, Optimize PRO TAVR Post Market Study. Sponsor Company Medtronic Inc.
2020-2022	Principal Investigator, A prospective, randomized, active (warfarin) controlled, parallel-arm clinical trial to determine if patients with an On-X aortic valve can be maintained safely and effectively on the factor Xa inhibitor apixaban. Sponsor Company CryoLife Inc, now Artivion.
2021-present	Principal Investigator, A Prospective and Retrospective, Multi-Centre, Post-Market, Non-Interventional Study of Terumo Aortic Knitted and Woven Grafts, and Cardiovascular Patches. Sponsor Company Terumo Aortic
2021-2022	Co-Principal Investigator, Epicardial Delivery of XC001 Gene Therapy for Refractory Angina Coronary Treatment (The EXACT Trial): A Phase 1/2 Multi-Center, Open-Label Study to Evaluate Safety, Tolerability and Efficacy. Sponsor Company XyloCor Therapeutics, Inc.
2023-present	Sub-Investigator, Evolut™ EXPAND TAVR II Pivotal Trial. Sponsor company Medtronic Inc.
2024-present	Principal Investigator, Left Atrial Appendage Exclusion for Prophylactic Stroke Reduction Trial LeAAPS Trial. Sponsor company AtriCure, Inc.

