

Mauricio J. Garrido, MD
Curriculum Vitae

OFFICE ADDRESS: 1200 Old York Road, 5 Toll
Abington, PA 19001
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EDUCATION:

1998 M.D. Yale University School of Medicine (New Haven, CT)
1993 B.S. Chemical Engineering, Cornell University (Ithaca, NY)

POSTDOCTORAL TRAINING:

CLINICAL TRAINING

7/06-12/06 Fellow, VAD/Transplant & Minimally Invasive Cardiac Surgery
Columbia University, College of Physicians & Surgeons,
New York-Presbyterian Hospital (New York, NY)

2004-2006 Fellow, Cardiothoracic Surgery
Columbia University, College of Physicians & Surgeons,
New York-Presbyterian Hospital (New York, NY)

2001-2002 Fellow, Heart & Lung Procurement
Columbia University, College of Physician & Surgeons,
New York-Presbyterian Hospital (New York, NY)

1999-2004 Resident, General Surgery
Columbia University, College of Physicians & Surgeons,
New York-Presbyterian Hospital (New York, NY)

1998-1999 Intern, General Surgery
Columbia University, College of Physicians & Surgeons,
New York-Presbyterian Hospital (New York, NY)

RESEARCH TRAINING

- 2001-2002 Research Fellow
Surgical Treatment of Atrial Fibrillation & Robotic Cardiac Surgery
Columbia University, College of Physicians & Surgeons (New York, NY)
Division of Cardiothoracic Surgery
Principal Investigator: Mehmet C. Oz, MD
- 1996-1997 Medical School Thesis
Abdominal Aortic Aneurysm Rupture Mechanics & Rupture Risk Factors
Division of Vascular Surgery
Yale University School of Medicine (New Haven, CT)
Principal Investigator: Richard Gusberg, MD
- 1994 International Research Fellow
M.V. Diabetes Specialties Center (P) Ltd. (Madras, India)
Tropical Chronic Pancreatitis Epidemiology in Southern India
Principal Investigator: V. Mohan, MD
- 1992 Research Assistant
New York University School of Medicine (New York, NY)
Neuron Development in Simulated Weightlessness,
Principal Investigator: Kerry Walton, Ph.D.

HOSPITAL & ADMINISTRATIVE APPOINTMENTS:

- 2007- present Cardiothoracic Surgeon
Clinical Director, Cardiac Surgery
Co-Director, Structural Heart Program
Abington Hospital, Jefferson Health (Abington, PA)
- 8/09-11/10 Interim Chief, Division of Cardiothoracic Surgery
Abington Hospital (Abington, PA)
- 1/07-2/07 Attending, Cardiothoracic Surgery
Columbia University Medical Center (New York, NY)

MEDICAL LICENSURE & CERTIFICATION:

Board Certified, American Board of Thoracic Surgery, active since 2008.
Expires 12/31/2028.

Pennsylvania Medical License, active since 2007. Expires 12/31/2020.

DEA Certificate, Pennsylvania Expires 9/30/2020.

MEMBERSHIPS IN PROFESSIONAL & SCIENTIFIC SOCIETIES:

Member, Jefferson Leadership Academy.
Completed Jefferson Onboarding & Leadership Transformation (12-month training course. Philadelphia, PA (Since 2018)

Board Member, Delaware Valley Society of Thoracic Surgeons, PA (Since 2012)

Member, Philadelphia Academy of Surgery (Fellow), Philadelphia, PA (Since 2011)

Member, Society of Thoracic Surgeons (Since 2009)

AWARDS:

Recipient, Klein Award for Physician Innovation.
Recognition for “Outstanding Leadership as a Healthcare Innovator.”
Abington Jefferson Health, Abington, PA (2019)

Recipient, Catherine P. Zakrzewski Making a Difference Patient Safety Award
Recognition for “Advocacy for patients.”
Abington Jefferson Health, Abington, PA (2017)

Nurse Partners in Excellence Award,
Recognition for “Superior performance in communication and collegiality in the provision of clinical care to patients.”
Abington Memorial Hospital, Abington, PA (2010)

Resident Teaching Award, Department of Surgery
Columbia University Medical Center, New York, NY (2005)

Recipient, New Era Cardiac Care Fellowship Award (2002)

Academic Scholar, Leopold Schepp Foundation (1989-1997)

Recipient, Wilbur Downs International Fellowship Award, Yale University (1994)

Distinction in Leadership Award, Yale University School of Medicine (1994)

National Hispanic Scholar (1991-1996)

Member, Quill & Dagger Honor Society, Cornell University (1992)

Dean's List, College of Engineering, Cornell University (Fall 1989)

COMMITTEES:

Volunteer, College Applicant Interviewer, Cornell University Alumni Admissions Ambassador Network, Ithaca, NY (2018-present)

Committee Chair, Clinical Outcomes & Patient Experience
Abington Cardiovascular Management LLC
Abington Hospital, Abington, PA (2012-present)

Committee Member, Research Grant Allocation Committee, Innovator's Circle
Abington Memorial Hospital, Abington, PA (2011-2012)

Committee Member, Blood Management Committee
Abington Memorial Hospital, Abington, PA (2011-2012)

Committee Member, Credentials Committee
Abington Memorial Hospital, Abington, PA (2008-2012)

ACTIVITIES:

President, Lambda Upsilon Lambda Fraternity, Inc. (1992-1993)

Vice-President, La Asociación Latina, Cornell University (1990-1993)

Exchange Student, Chuo University High School, Tokyo, Japan.
Travel Scholarship Winner. (Summer 1988)

Exchange Student, Köln, Germany.
US Information Agency Scholar. (Summer 1987)

RESEARCH SUPPORT:

Department of Surgery Startup Grant (2001-2002)
Columbia University, College of Physicians & Surgeons, New York, NY
\$6,150

Research Fellowship for Medical Students (1996-1998)
Yale University School of Medicine, New Haven, CT
\$18,000

PRINCIPAL INVESTIGATOR:

Principal Investigator, Abington Memorial Hospital Research Site

“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 (V710) in adult patients scheduled for cardiothoracic surgery.” Merck Research Laboratories (closed on 6/2011)

SUB-INVESTIGATOR:

1. Convalescent Plasma for the Treatment of Patients with Covid-19 (current, activated on 4/2020)
2. Clinical Study to Evaluate Ambulatory Counterpulsation for the Treatment of Advanced Heart Failure: A Feasibility Study (iVAS) (current, activated on 10/2019)
3. MOMENTUM 3 Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with HeartMate 3™ Continued Access Protocol (current, opened to enrollment from 12/2016-10/2018)
4. MOMENTUM 3 Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with HeartMate 3™ (current, closed to enrollment on 8/2016)
5. Interagency Registry for Mechanically Assisted Circulatory Support (closed, reporting period from 1/2012-5/2018)
6. Destination Therapy Study of the Jarvik 2000 Audit Left Ventricular Assist System, Post-Auricular Cable (closed on 1/2018)
7. PREVENTion of HeartMate II Pump Thrombosis through Clinical Management: The PREVENT Multi-Center Study. (closed on 8/2016)
8. ROADMAP Study Protocol: Risk Assessment and Comparative Effectiveness of Left Ventricular Assist Device and Medical Management in Ambulatory Heart Failure Patients (closed on 4/2016)

PRESS:

Quinn, Peg. “Jefferson uses webcam to update family members from the OR while waiting for a loved one in surgery.” *The Inquirer*, Philadelphia, PA, June 21, 2019, Print and web article.

CONFERENCE & LECTURE PRESENTATIONS:

Oral

1. **Garrido M.** “High Fives & Humble Pies, Always Millimeters from Disaster.”, Presenter and Co-Moderator, Fall Educational Program, Delaware Valley Society of Thoracic Surgeons, December 2019, King of Prussia, PA.
2. **Garrido M.** “One decade and counting. Practical lessons learned leading a cardiac operating room.” Pennsylvania State Perfusion Society Conference, October 2019, Allentown, PA.
3. **Garrido M,** Yarnall C. “Seven Years of Working Together - What we’ve learned.” OR Managers Conference, September 2018, Nashville, TN.
4. **Garrido M,** Yarnall C. “Seven Years of Collaboration Between Surgeon & Perfusionist – What we’ve learned from each other.” Pennsylvania State Perfusion Society Conference, October 2017, Valley Forge, PA.
5. **Garrido M,** Goldman S. Co-Moderator, “Mitral Valve Surgery: Battle of Techniques.” Fall Educational Program, Delaware Valley Society of Thoracic Surgeons, November 2018, King of Prussia, PA.
6. **Garrido M.** “TAVR Patient Experience: Update of the latest Advancements, Patient Selection and Workup.” Cardiovascular Update: Minimally Invasive Advances in Heart and Vascular Surgery, April 2017, Abington Jefferson Health, Abington, PA.
7. **Garrido M,** Yarnall C. “Winning Hearts & Minds: A Cardiac Surgeon’s Tale of Implementing Effective Blood Management.” Mechanisms of Perfusion Conference, May 2015, Orlando, FL.
8. **Garrido M.** “Trans-catheter Aortic Valve Replacement – A new option.” Gitlin Primary Care Update Conference, Abington Memorial Hospital, Abington, PA, May 2014.
9. **Garrido M,** Sullivan T. “The Hybrid Operating Room: Evolution of Aortic Surgery.” Medical Grand Rounds, Abington Memorial Hospital, Abington, PA, January 2013.
10. **Garrido M,** Yarnall C. “Bloodless Surgery Techniques in Cardiac Surgery at Abington Memorial Hospital.” Abington Memorial Hospital, Abington, PA, Summer 2012.
11. **Garrido M,** Abai B. “Aortic Emergencies.” Medical Grand Rounds, Abington Memorial Hospital, Abington, PA. January 2012.
12. **Morris R,** **Garrido M,** Westphal C. “Ethical Dilemmas in Cardiac Surgery.” Schwartz Center Rounds, Abington Memorial Hospital, Abington, PA. January 2012.
13. **Garrido M,** Abai B. “Surgical and Endovascular Treatment of Acute Aortic Disease.” Emergency Medicine Grand Rounds, Albert Einstein Medical Center, Philadelphia, PA, August 2011.
14. **Garrido M.** “Surgical Treatment of Atrial Fibrillation.” Medical Grand Rounds, Abington Memorial Hospital, Abington, PA May 2010.

15. **Garrido M**, Reynolds V, Bierowski N. “Aortic Valve Bypass.” Grand Rounds, Princeton Hospital, Princeton, NJ. January 2010.
16. **Garrido M**. “Surgical Treatment of Atrial Fibrillation.” Gitlin Primary Care Update Conference, Abington Memorial Hospital, Abington, PA, October 2009.
17. **Garrido M**, Reynolds V, Bierowski N. “Aortic Valve Bypass: A New Paradigm for an Old Problem.” Medical Grand Rounds, Abington Memorial Hospital, Abington, PA, March 2009.
18. **Garrido M**. “Challenges of Achieving Transmurality on a Beating Heart” St. Jude Medical Dinner Symposium, STS Annual Conference, San Francisco, CA, January 2009
19. **Garrido M**. “Surgical Treatment of Atrial Fibrillation.” 2nd Annual Cardiovascular Nursing Symposium, Abington Memorial Hospital, Abington, PA, December 2007.
20. Sutter FP, **Garrido M**. “Robotic-Assisted Coronary Artery Bypass Grafting – The New Frontier in Cardiac Surgery.” Grand Rounds, Abington Memorial Hospital, Abington, PA. May 2007.
21. DiGiorgi PL, Kherani AR, **Garrido M**, Reel M, Oz MC. “Aortic valve leaflet extension with bovine aortic leaflets.” New Era Cardiac Care Conference, Dana Point, CA, January 2002.
22. Argenziano M, **Garrido M**, Williams M, Nifong LW, Smith C, Oz MC. “A totally endoscopic, beating-heart approach to pulmonary vein isolation for the treatment of atrial fibrillation.” Society for Minimally Invasive Cardiac Surgery (ISMICS) Conference 2002, New York, NY.
23. Argenziano M, Kohmoto T, Smith CR, **Garrido M**, Kherani A, Hermoni H, Dimitui J, Rose EA, Oz MC. “Robotically assisted, totally endoscopic atrial septal defect repair.” New York Society Thoracic Surgeons Conference, May 2002, New York, NY.
24. **Garrido M**, Argenziano M, Williams M, Kherani A, DiGiorgi P, Parish D, Reel M, Smith CR, Oz MC. “Totally endoscopic, off-pump pulmonary vein isolation for the treatment of atrial fibrillation.” New York Society of Thoracic Surgeons Conference, May 2002, New York, NY.
25. **Garrido M**. “Mechanics of radiofrequency ablation of cardiac tissue.” Course Presenter, Surgical Treatment of Atrial Fibrillation Course (2001-2002), Columbia University, New York, NY.
26. **Garrido M**. “Physics of cardiac tissue ablation with microwave energy”. Course Presenter, Microwave Atrial Fibrillation Ablation Course (2001-2002), Columbia University, New York, NY.
27. **Garrido M**. “Energy modalities for myocardial ablation.” Course Presenter, Intuitive Surgical DaVinci Robotic Cardiac Surgery Course (2001-2002) Columbia University, New York, NY.
28. DiGiorgi PL, Kherani AR, **Garrido M**, Reel M, Oz MC. “External correction of aortic root dilation.” New Era Cardiac Care Conference, Dana Point, CA, January 2002.
29. Naka Y, **Garrido M**, Kherani AR, Catanese K, Oz MC. Coordinator, In-Vivo Simulation LVAD Implantation into Cow. Thoratec HeartMate training course. 2001-2002, Columbia University, New York, NY.

Poster

1. Hofmann MT, **Garrido M**, Shaughnessy K, Gottlieb C, Ritter AZ, Dementovych N, Mangin E. Preventing delirium in a patient with atypical dementia during hospitalization for coronary artery bypass grafting. American Geriatrics Society, 2013 Annual Scientific Meeting.
2. Sheth N, Hofmann MT, **Garrido M**, Bierowski N, Werthheimer J, Rosensweig AB. Mycotic pseudoaneurysm and purulent pericarditis attributed to streptococcus viridans in an elderly female. American Geriatrics Society, 2010 Annual Scientific Meeting.
3. Vigilance D, **Garrido M**, Patel S, Koslow S, Zeidner A, Peacock J, Cheema FH, Reiffel JA, Oz M, Argenziano M. Trans-telephonic Monitoring of Cardiac Arrhythmias Following Surgical Atrial Fibrillation Ablation. ISMICS, June 2004, London, England.
4. Kherani A, Oz M, Cheema F, Topkara V, Wilson D, Cheema A, **Garrido M**, Morgan J, Vigilance D, Naka Y. The hub-and-spoke system in treating acute cardiogenic shock: Who survives? ISHLT Annual Conference, April 2003, Vienna, Austria.
5. **Garrido M**, Williams M, Vigilance D, Casher J, Zeidner A, Kherani A, Morgan J, Hermoni H, Naka Y, Smith C, Oz M, Argenziano M. Surgical Ablation of Atrial Fibrillation: Clinical Results and Predictors of Success. American College of Cardiology (ACC) Conference, 2003, Chicago, IL
6. **Garrido M**, Cheema FH, et al. Human Left Atrial Thickness Direct Measurement Results - An Anatomic Guide to Ablation Target Depth for Surgical and Catheter-based Pulmonary Vein Isolation Devices. Second Asia Pacific Scientific Forum: New Discoveries in Cardiovascular Disease and Stroke: Bench to Bedside to Community. Honolulu, HI, Jun 8-10, 2003. *Circulation* 2003;107:e131
7. **Garrido M**, Argenziano M, Smith C, Ginsburg M, DeRose J, Gorenstein L, Dimitui J, Rose EA, Oz MC. Advanced thoracoscopic procedures are facilitated by computer-aided robotic technology. Society for Minimally Invasive Cardiac Surgery (ISMICS) Conference 2002, New York, NY.
8. **Garrido M**, Argenziano M, Oz MC, Dimitui J, Beck J, Mongero L, Rose EA, Smith C. Robotically assisted, totally endoscopic, atrial septal defect repair. International Society for Minimally Invasive Cardiac Surgery (ISMICS) Conference 2002, New York, NY.
9. Williams M, **Garrido M**, Argenziano M, Reel M, Casher J, Naka Y, Smith C, Oz M. Radiofrequency atrial ablation effectively treats atrial fibrillation during concurrent cardiac surgery. Presented at the North American Society of Pacing & Electrophysiology, May 2002, San Diego, CA.
10. **Garrido M**, Williams M, Kherani A, Parish D, Kourpanidis S, Casher J, Argenziano M, Oz M. Epicardial ethanol atrial ablation using needle-free

- technology for surgical treatment of atrial fibrillation. Presented at the North American Society of Pacing & Electrophysiology, May 2002, San Diego, CA.
11. Argenziano M, Smith CR, Ginsburg ME, De Rose JJ, Gorenstein LA, Dimitui J, **Garrido M**, Rose E, Oz M. Advanced thoracoscopic procedures are facilitated by computer-aided robotic technology. Cardiothoracic Technique & Technologies (CTT) Conference January 2002, Miami Beach, FL.
 12. DiGiorgi P, Schubl BA, Reel M, Kherani A, **Garrido M**, Oz MC. External correction of aortic root dilation. Cardiothoracic Technique & Technologies (CTT) Conference January 2002, Miami Beach, FL.
 13. DiGiorgi P, Schubl S, Reel M, Kherani A, **Garrido M**, Oz MC. Aortic valve leaflet extension with bovine aortic leaflets. Cardiothoracic Technique & Technologies (CTT) Conference January 2002, Miami Beach, FL.
 14. Argenziano M, DeRose JJ, Oz MC, Dimitui J, **Garrido M**, Beck J, Rose E, Chitwood R, Nifong W, Smith CR. Totally endoscopic atrial septal defect repair utilizing robotic assistance. Cardiothoracic Technique & Technologies (CTT) Conference January 2002, Miami Beach, FL.
 15. **Garrido M**, Williams M, Casher J, Argenziano M, Kherani A, Nifong LW, Chitwood, Jr. WR, Naka Y, Oz MC. Minimally invasive and endoscopic beating heart approaches to pulmonary vein isolation for the treatment of atrial fibrillation. Cardiothoracic Technique & Technologies (CTT) Conference January 2002, Miami Beach, FL.
 16. Williams M, **Garrido M**, Kourpanidis S, Casher J, Barbone A, DiGiorgi P, D'Alessandro D, Argenziano M, Naka Y. Epicardial atrial ablation with high intensity focused ultrasound on the beating heart. American Heart Association Scientific Sessions Conference, November 2001, Anaheim, CA.
 17. **Garrido M**, Mohan V. Risk factors for tropical chronic pancreatitis in India. Wilbur Downs International Research Fellowship Conference, May 1995, Yale University, New Haven, CT.

BIBLIOGRAPHY:

**Peer-reviewed Articles*

1. *Lim PS, Bierowski N, **Garrido M**, Watson R, Balaratna A, Addonizio VP. Repair of left ventricular aneurysm with acellular dermis graft: A case report. *Journal of Cardiology Cases* 6(2012) e42-e44.
2. *Russo M, Chen JM, Sorabella RA, Martens TP, **Garrido M**, Davies R, George I, Cheema FH, Mosca R, Mital S, Ascheim DD, Argenziano M, Stewart AS, Oz MC, Naka, Y. The effect of ischemic time on survival following heart transplantation varies by donor age: an analysis of the United Network of Organ Sharing Database. *J Thorac Cardiovasc Surg.* 2007 Feb; 133(2):554-9.
3. *Topkara VK, Williams MR, Cheema FH, Vigilance DW, **Garrido M**, Russo MJ, Oz MC, Argenziano M. Surgical ablation of atrial fibrillation: the Columbia Presbyterian experience. *Journal of Cardiac Surgery* 2006 Sept-Oct; 21(5):441-8.

4. *Vigilance DW, **Garrido M**, Williams M, Wan E, Zeidner A, Casher J, Kherani A, Morgan J, Naka Y, Smith C, Oz MC, Argenziano M. Off-Pump epicardial atrial fibrillation surgery utilizing a novel bipolar radiofrequency system. *Heart Surgery Forum* 2006; 9(5):e803-6.
5. *Lima B, Kherani AR, Hata JA, Cheema FH, Casher J, Oz MC, Rao V, Fal JM, Chen JM, Morgan JA, Vigilance DW, **Garrido M**, Milano CA, Naka Y. Does a pre-left ventricular assist device screening score predict long-term transplantation success? A 2-center analysis. *Heart Surgery Forum* 2006; 9(5):E783-5.
6. *Kherani AR, Cheema FH, Casher J, Fal JM, Mutrie CJ, Chen JM, Morgan JA, Vigilance DW, **Garrido M**, Smith CR, Oz MC. Edge-to-edge mitral valve repair: the Columbia Presbyterian experience. *Ann Thorac Surg.* 2004 Jul;78(1):73-6.
7. *Morgan JA, Peacock JC, Kohmoto T, **Garrido M**, Schanzer BM, Kherani AR, Vigilance DW, Cheema FH, Kaplan S, Smith CR, Oz MC, Argenziano M. Robotic techniques improve quality of life in patients undergoing atrial septal defect repair. *Ann Thorac Surg.* 2004 Apr;77(4):1328-33.
8. *Morales DL, **Garrido M**, Madigan J, Helman D, Faber J, Williams M, Landry D, Oz MC. A double-blind randomized trial: Prophylactic vasopressin reduces hypotension after cardiopulmonary bypass. *Ann Thorac Surg.* 2003 Mar;75(3):926-30.
9. *Kherani AR, Cheema FH, Oz MC, Fal JM, Morgan JA, Topkara VK, Wilson DA, Vigilance DW, **Garrido M**, Naka Y. Implantation of a left ventricular assist device and the hub-and-spoke system in treating acute cardiogenic shock: who survives? *J Thorac Cardiovasc Surg.* 2003 Nov;126(5):1634-5.
10. ***Garrido M**, Coady M, Gusberg R. Analysis of risk factors for abdominal aortic aneurysm rupture other than aortic diameter and growth rate. Medical School Thesis Paper, April 1998, Yale University School of Medicine, New Haven, CT.

Book Chapters & Review Papers

1. Kherani AR, Cheema FH, Casher J, Fal JM, Mutrie CJ, Chen JM, Morgan JA, Vigilance DW, **Garrido M**, Smith CR, Oz MC. Edge-to-edge mitral valve repair: The Columbia Presbyterian experience [Review]. *Annals of Thoracic Surgery* 2004 Jul; 78(1):73-6.
2. Williams MR, **Garrido M**, Oz MC, Argenziano M. Alternative energy sources for surgical atrial ablation. *J Card Surg.* 2004 May-Jun; 19(3):201-6.
3. **Garrido M**, Williams M, Argenziano M. Minimally invasive surgery for atrial fibrillation: toward a totally endoscopic, beating heart approach. *J Card Surg,* 2004 May-Jun; 19(3):216-20.
4. **Garrido M**, Argenziano M, Rose EA. Surgical treatment of ischemic heart disease in the elderly. *Cardiac Surgery in the Elderly*, Edwards N (ed.).
5. **Garrido M**, Hardy M. A surgical renaissance: The work of Ambroise Paré. *Current Surgery*, 57(4):324-325.
6. Edwards N, **Garrido M**. Advances in cardiac transplantation. *Advanced Therapy in Cardiac Surgery*, 2nd Edition Franco KL, Verrier ED (eds.).

7. Kherani A, **Garrido M**, Cheema FH, Naka Y, Oz MC. Non-transplant surgical options for congestive heart failure. *Cong. Heart Failure* 2003 Jan-Feb; 9(1):17-24.
8. **Garrido M**, Oz MC. New surgical treatments for heart failure. *Current Cardiol Rep*, 2002, 4(3):233-237.