

GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE

CURRICULUM VITAE

Thomas E. MacGillivray, M.D.

Department of Cardiac Surgery

MedStar Health / MedStar Washington Hospital Center

110 Irving St NW, Suite 6D-15G

Washington, DC 20010-2975

Phone (202) 877-7464; Fax (202) 877-3504

Email thomas.e.macgillivray@medstar.net

1. PERSONAL INFORMATION

A. Education:

- Undergraduate: Tufts University, Medford, MA, U.S.A., September 1979-June 1983, B.A. cum laude, Classical Studies
- Medical Education: Tufts University School of Medicine, Boston, MA, U.S.A., August 1984-June 1988, M.D.
- Internship: Massachusetts General Hospital, Department of Surgery/General Surgery, Boston, MA, U.S.A., July 1, 1988-June 30, 1989, Department Chair W. Gerald Austen, M.D.
- Residency: Massachusetts General Hospital, Department of Surgery/General Surgery, Boston, MA, U.S.A., July 1, 1989-June 30, 1995, Department Chair W. Gerald Austen, M.D.
- Research Fellowship: University of California, San Francisco, Department of Surgery/Pediatric Surgery, San Francisco, CA, July 1, 1991-June 30, 1993, Division Chief of Pediatric Surgery Michael Harrison, M.D.
- Fellowship: Massachusetts General Hospital, Department of Surgery/Cardiothoracic Surgery, Boston, MA, July 1, 1995-June 30, 1997, Department Chair W. Gerald Austen, M.D.
- Fellowship: Boston Children's Hospital, Department of Cardiac Surgery/Congenital Cardiac Surgery, Boston, MA, July 1, 1997-Dec 31, 1997, Department Chair Richard Jonas, M.D.
- Other: Rice University Jesse H. Jones Graduate School of Business, Houston Methodist Physician Leadership Development Program, Houston, TX, January 2019-June 2019

B. Professional Experience:

i. Academic Positions

Instructor of Surgery, Harvard Medical School, Boston, MA, U.S.A., March 1998-June 2008
Assistant Professor of Surgery, Harvard Medical School, Boston, MA, U.S.A., June 2008-April 2016
Associate Professor of Surgery, Harvard Medical School, Boston, MA, U.S.A., April 2016-November 2016
Jimmy F. Howell, M.D. Endowed Chair in Cardiovascular Surgery, Houston Methodist Hospital, Houston, TX, U.S.A., April 2017-August 2022

ii. Hospital Positions

Assistant in Surgery, Massachusetts General Hospital, Boston, MA, U.S.A., March 1998-December 1999
Assistant Surgeon, Massachusetts General Hospital, Boston, MA, U.S.A., January 2000-December 2004
Associate Visiting Surgeon, Massachusetts General Hospital, Boston, MA, U.S.A., January 2005-September 2011
Visiting Surgeon, Massachusetts General Hospital, Boston, MA, U.S.A., October 2011-December 2016
Temporary Privileges, Houston Methodist Hospital, Houston, TX, U.S.A., December 2016-February 2017
Chief, Division of Cardiac Surgery and Thoracic Transplant Surgery, Houston Methodist Hospital, Houston, TX, U.S.A., December 2016-August 2022
Active Staff, Houston Methodist Hospital, Houston, TX, U.S.A., January 2017-August 2022
Physician Executive Director, Cardiac Surgery, MedStar Health, Washington, DC, U.S.A., September 2022-present
Chair, Department of Cardiac Surgery, MedStar Washington Hospital Center, Washington, DC, U.S.A., September 2022-present

C. Licensure:

State: District of Columbia
License No: MD210002608
Initial Date: 08/11/2022
Renewal/Expiration Date: 12/31/2024

State: Maryland
License No: D0095215
Initial Date: 08/04/2022
Renewal/Expiration Date: 09/30/2023

State: Massachusetts
License No: 150690
Initial Date: 06/12/1996
Renewal/Expiration Date: 05/14/2023

State: Texas

License No: R0065

Initial Date: 09/15/2016

Renewal/Expiration Date: 11/30/2023

D. Certification:

Board Certification: American Board of Surgery

Date of Certification: 10/28/1998-07/01/2007

Dates of Re-certification: 12/06/2007-07/01/2018, 10/11/2018-10/11/2028

Sub-Specialty Board: American Board of Thoracic Surgery

Date of Certification: 06/04/1999-12/31/2009

Dates of Re-certification: 12/15/2008-12/31/2019, 12/20/2019-12/31/2029

E. Languages Spoken:

English – fluent

2. RESEARCH AND SCHOLARLY ACTIVITIES

A. Publications:

i. Original Papers in Refereed Journals

1. Kassi M, Agrawal T, Xu J, Marcos-Abdula HG, Araujo-Gutierrez R, **MacGillivray T**, Suarez EE, Yousefzai R, Fida N, Kim JH, Guha A, Trachtenberg B, Bhimaraj A, Chang SM, Estep J. Outflow cannula alignment in continuous flow left ventricular devices is associated with stroke. *Int J Artif Organs* 2023;9:3913988231154284. Doi: 10.1177//03913988231154284. On line ahead of print. PMID: 36895175
2. Hendricks W, Mecca J, Rahimi M, Rojo MR, von Ballmoos MCW, McFall RG, Haddad P, Berczelli MT, Sinha K, Barnes RG, Peden EK, Lumsden AB, **MacGillivray TE**, Corr SJ. Evaluation of a novel RFID intraoperative cardiovascular analytics. *IEEE J Transl Eng Health Med.* 2022;10:1900309. Doi: 10.1109/jtehm.2022.3196832.eCollection 2022. PMID:35992372
3. Goldberg JB, Giri J, Kobayashi T, Ruel M, Mittnacht AJC, Rivera-Lebron R, DeAnda A Jr., Moriarty JM, **MacGillivray TE**. Surgical management and mechanical circulatory support in high risk pulmonary embolisms: historical context, current status, and future directions: a scientific statement from the American Heart Association. *Circulation* 2023;147(9) e628-e647. Doi: 10.1161/cir.0000000000001117. epub 2023 Jan 23. PMID: 36688837
4. Akkanti B, Suarez EE, O'Neil ER, Rali AS, Hussain R, Dinh K, Tuazon DM, **MacGillivray TE**, Diaz-Gomez JL, Simpson L, George JK, Kar B, Herlihy JP, Shafii AE, Gregoric ID, Masud F, Chatterjee S. Extracorporeal membrane oxygenation for COVID-19: Collaborative experience from the Texas Medical Center in Houston with 2 years follow-up. *ASAIO Journal* 2022;68:1443-1449. Doi: 10.1097/mat.0000000000001791.epub 2022 Sep 21. PMID: 36150083
5. Barsoom R, El Nihum LI, Al Abri Q, Ali A, Haley SL, Chamsi-Pasha MA, Wyler von Ballmoos MC, **MacGillivray TE**, Reardon MJ. Atypical presentation of right ventricular cardiac hamartoma in a young man. *Methodist DeBakey Cardiovasc J* 2022;18(1):102-107. doi:10.14797/mdcvj.1158

6. Babu S, Zhu Z, Chavez M, Singh R, Li Z, El Nihum LI, Duarte VE, **MacGillivray TE**, Lin CH. PFO closure after pulmonary valve intervention in patients with hypoxemia due to right-to-left intracardiac shunt. *Methodist DeBakey Cardiovasc J* 2022;18(1):90-95. doi.org/10.14797/mdcvj.1153
7. Hendricks W, Mecca J, Rahimi M, Rojo MR, Wyler Von Ballmoos MC, McFall RG, Haddad P, Berczeli MT, Sinha K, Barnes RG, Peden EK, Lumsden AB, **MacGillivray TE**, Corr SJ. Evaluation of a novel system for RFID intraoperative cardiovascular analytics. *IEEE J Transl Eng Health Med* 2022 Aug 5;10.1900309. doi: 10.1109/jtehm.2022.3196832. eCollection 2022. PMID: 35992372.
8. Chan EY, Ali A, Umama JP, Nguyen DT, Hamilton DJ, Graviss EA, Ravi V, **MacGillivray TE**, Reardon MJ. Management of primary cardiac paraganglioma. *J Thorac Cardiovasc Surg* 2022 Jul;164(1):158-166.e1. doi: 10.1016/j.jtcvs.2020.09.100. Epub 2020 Oct 3. PMID: 33148444.
9. El Nihum LI, Zubair MM, Chinnadurai P, **MacGillivray TE**. Giant right coronary artery to coronary sinus fistula. *J Card Surg* 2022 May;37(5):1405-1407. doi: 10.1111/jocs.16346. PMID: 35182408.
10. Huang HJ, Yi SG, Mobley CM, Saharia A, Bhimiraj A, Moore LW, Kloc M, Androgue HE, Graviss EA, Nguyen DT, Eagar TN, Jones SL, Ankoma-Sey V, **MacGillivray TE**, Knight RJ, Gaber AO, Ghobrial RM. Early humoral immune response to two doses of severe acute respiratory syndrome coronavirus 2 vaccine in a diverse group of solid organ transplant candidates and recipients. *Clin Transplant* 2022 May;36(5):e14600. doi: 10.1111/ctr.14600. PMID: 35083796.
11. El Nihum LI, Zubair MM, Chinnadurai P, **MacGillivray TE**. Repair of pseudoaneurysm in extra-anatomic aortic arch bypass graft. *JTCVS Tech* 2022 Apr 19;13:11-13. doi: 10.1016/j.xjtc.2022.03.017. PMID: 35711175.
12. **MacGillivray TE**, Gleason TG, Patel HJ, Aldea GS, Bavaria JE, Beaver TM, Chen EP, Czerny M, Estrera AL, Firestone S, Fischbein MP, Hughes GC, Hui DS, Kissoon K, Lawton JS, Pacini D, Reece TB, Roselli EE, Stulak J. The Society of Thoracic Surgeons/American Association for Thoracic Surgery clinical practice guidelines on the management of type B aortic dissection. *J Thorac Cardiovasc Surg* 2022 April 1; 163(4):1231-1249. doi: 10.1016/j.jtcvs.2021.11.091. PMID: 35090765.
13. **MacGillivray TE**, Gleason TG, Patel HJ, Aldea GS, Bavaria JE, Beaver TM, Chen EP, Czerny M, Estrera AL, Firestone S, Fischbein MP, Hughes GC, Hui DS, Kissoon K, Lawton JS, Pacini D, Reece TB, Roselli EE, Stulak J. The Society of Thoracic Surgeons/American Association for Thoracic Surgery clinical practice guidelines on the management of type B aortic dissection. *Ann Thorac Surg* 2022 Apr;113(4):1073-1092. doi: 10.1016/j.athoracsur.2021.11.002. PMID: 35090687.
14. Zubair MM, El Nihum LI, Haley SL, Al Abri Q, Lenihan DJ, **MacGillivray TE**, Reardon MJ. Large, hormonally active primary cardiac paraganglioma: diagnosis and management. *Ann Thorac Surg* 2022 Mar;113(3):e167-e170. doi: 10.1016/j.athoracsur.2021.05.042. PMID: 34111385.
15. Zainab A, Nguyen DT, Graviss EA, Fatima S, Masud FN, **MacGillivray TE**. Development and validation of a risk score for respiratory failure after cardiac surgery. *Ann Thorac Surg*. 2022 Feb;113(2):577-584. doi: 10.1016/j.athoracsur.2021.03.082. PMID: 33839130.
16. Chan EY, Ali A, Zubair MM, Nguyen DT, Ibarra-Cortez SH, Graviss EA, Shapira OM, Ravi V, **MacGillivray TE**, Reardon MJ. Primary cardiac sarcomas: treatment strategies. *J Thorac Cardiovasc Surg* 2022 Feb 1;S0022-5223(22)00100-3. doi: 10.1016/j.jtcvs.2021.10.070. PMID: 35219517.
17. Thourani VH, Brennan JM, Edelman JJ, Thibault D, Jawitz OK, Bavaria JE, Higgins RSD, Sabik JF 3rd, Prager RL, Dearani JA, **MacGillivray TE**, Badhwar V, Svensson LG, Reardon MJ, Shahian DM, Jacobs JP, Ailawadi G, Szeto WY, Desai N, Roselli EE, Woo YJ, Vemulapalli S, Carroll JD, Yadav P, Malaisrie SC, Russo M, Nguyen TC, Kaneko T, Tang G, Ruel M, Chikwe J, Lee R, Habib RH, George I, Leon MB, Mack MJ. Association of volume and outcomes in 234 556 patients undergoing surgical aortic valve replacement. *Ann Thorac Surg* 2021 Nov 14;S0003-4975(21)01891-9. doi: 10.1016/j.athoracsur.2021.06.095. Online ahead of print. PMID: 34785247.
18. Chan EY, Ravi V, Ali A, Nguyen DT, Graviss EA, **MacGillivray TE**, Reardon MJ. Surgical management of primary pulmonary artery sarcoma. *Semin Thorac Cardiovasc Surg* 2021 Nov 4;S1043-0679(21)00472-X. doi: 10.1053/j.semctvs.2021.10.013. Online ahead of print. PMID: 34743005.
19. El Nihum LI, Li Z, Ramchandani M, Reardon MJ, Suarez EE, **MacGillivray TE**, Duarte V, Lin CH. Ventricular fibrillation arrest and pulmonary homograft rupture during transcatheter pulmonary valve:

- successful rescue by Heart Team. *Methodist DeBakey Cardiovasc J* 2021 Jul 1;17(2):152-156. doi: 10.14797/CAVR7956. eCollection 2021. PMID: 34326935.
20. Guha A, Hannawi B, Cruz-Solbes AS, Nguyen DT, Bruckner BA, Trachtenberg B, Graviss EA, Bhimaraj A, Park M, Hussain I, **MacGillivray TE**, Suarez EE, Estep JD. Implication of ventricular assist devices in extracorporeal membranous oxygenation patients listed for heart transplantation. *J Clin Med* 2019 Apr 26;8(5):572. doi: 10.3390/jcm8050572. PMID: 31035470.
 21. El Nihum LI, Li Z, Chinnadurai P, Bavare CS, Reardon MJ, **MacGillivray TE**, Lin CH. CT-guided endovascular exclusion of pseudoaneurysmal subclavian bypass after early-age surgical correction of complex aortic coarctation. *J Am Coll Cardiol Case Rep* 2021 Feb 3;3(2):225-229. doi: 10.1016/j.jaccas.2020.11.026. eCollection 2021 Feb. PMID: 34317507.
 22. Fuentes Rojas SC, Thakkar A, Chinnadurai P, Karanja E, Bawa D, Monteiro G, **MacGillivray T**, Breinholt JP, Lin CH. Transcatheter embolization of a persistent vertical vein: a rare cause of left-to-right shunt and right-sided heart failure. *Methodist DeBakey Cardiovasc J* 2019 Jan-Mar;15(1):86-87. doi: 10.14797/mdcj-15-1-86. PMID: 31049155.
 23. Youniss MA, Ghoshhajra B, Bernard S, Bhatt AB, Aranki SF, **MacGillivray TE**, Defaria Yeh D. Familial anomalous origin of right coronary artery from the left coronary sinus. *Am J Cardiol* 2018 Nov 15;122(10):1800-1802. doi: 10.1016/j.amjcard.2018.08.016. PMID: 30227962.
 24. Capoulade R, Teoh JG, Bartko PE, Teo E, Scholtz JE, Tastet L, Shen M, Mihos CG, Park YH, Garcia J, Larose E, Isselbacher EM, Sundt TM, **MacGillivray TE**, Melnitchouk S, Ghoshhajra BB, Pibarot P, Hung J. Relationship between proximal aorta morphology and progression rate of aortic stenosis. *J Am Soc Echocardiogr* 2018 May;31(5):561-569. doi: 10.1016/j.echo.2017.12.008. PMID: 29455849.
 25. Auyang PL, Chinnadurai P, **MacGillivray T**, Lumsden AB, Breinholt JP, Lin CH. Intraoperative cone beam computed tomography-guided endovascular recanalization of an interrupted aorta. *J Vasc Surg*. 2018 Apr;67(4):1292-1296. doi: 10.1016/j.jvs.2017.11.072. PMID: 29463459.
 26. Chan EY, Goodarzi A, Sinha N, Nguyen DT, Youssef JG, Suarez EE, Kaleekal T, Graviss EA, Bruckner BA, **MacGillivray TE**, Scheinin SA. Long-term survival in bilateral lung transplantation for scleroderma-related lung disease. *Ann Thorac Surg* 2018 Mar;105(3):893-900. doi: 10.1016/j.athoracsur.2017.09.038. PMID: 29394994.
 27. Lino Cardenas CL, Kessinger CW, Cheng Y, MacDonald C, **MacGillivray T**, Ghoshhajra B, Huleihel L, Nuri S, Yeri AS, Jaffer FA, Kaminski N, Ellinor P, Weintraub NL, Malhotra R, Isselbacher EM, Lindsay ME. An HDAC9-MALAT1-BRG1 complex mediates smooth muscle dysfunction in thoracic aortic aneurysm. *Nat Commun* 2018 Mar 8;9(1):1009. doi: 10.1038/s41467-018-03394-7. PMID: 29520069.
 28. Bavaria JE, Prager RL, Naunheim KS, Allen MS, Higgins RSD, Thourani VH, **MacGillivray TE**, Boden N, Sabik JF 3rd, STS Executive Committee. Surgeon involvement in transcatheter aortic valve replacement in the United States: a 2016 Society of Thoracic Surgeons survey. *Ann Thorac Surg* 2017 Sep;104(3):1088-1093. doi: 10.1016/j.athoracsur.2017.03.055. PMID: 28408203.
 29. Kim YY, He W, **MacGillivray TE**, Benavidez OJ. Readmissions after adult congenital heart surgery: frequency and risk factors. *Congenit Heart Dis* 2017 Mar;12(2):159-165. doi: 10.1111/chd.12433. PMID: 27992675.
 30. Durand ML, Ennis SC, Baker JN, Camuso JM, McEachern KM, Kotton CN, Lewis GD, Garcia JP, **MacGillivray TE**. Topical polymyxin-trimethoprim prophylaxis may decrease the incidence of driveline infections in patients with continuous-flow left ventricular assist devices. *Artif Organs* 2017 Feb;41(2):169-175. doi: 10.1111/aor.12726. PMID: 27098102.
 31. Cheezum MK, Ghoshhajra B, Bittencourt MS, Hulten EA, Bhatt A, Mousavi N, Shah NR, Valente AM, Rybicki FJ, Steigner M, Hainer J, **MacGillivray T**, Hoffmann U, Abbara S, Di Carli MF, DeFaria Yeh D, Landzberg M, Liberthson R, Blankstein R. Anomalous origin of the coronary artery arising from the opposite sinus: prevalence and outcomes in patients undergoing coronary CTA. *Eur Heart J Cardiovasc Imaging* 2017 Feb;18(2):224-235. doi: 10.1093/ehjci/jev323. PMID: 26848152.
 32. Kim JB, Spotnitz M, Lindsay ME, **MacGillivray TE**, Isselbacher EM, Sundt TM 3rd. Risk of aortic dissection in the moderately dilated ascending aorta. *J Am Coll Cardiol* 2016 Sep;68(11):1209-19. doi: 10.1016/j.jacc.2016.06.025. PMID: 27609684.

33. Kim JB, Ejiofor JI, Yammine M, Ando M, Camuso JM, Youngster I, Nelson SB, Kim AY, Melnitchouk SI, Rawn JD, **MacGillivray TE**, Cohn LH, Byrne JG, Sundt TM 3rd. Surgical outcomes of infective endocarditis among intravenous drug users. *J Thorac Cardiovasc Surg* 2016 Sep;152(3):832-841.e1. doi: 10.1016/j.jtcvs.2016.02.072. PMID: 27068439.
34. Rodriguez E, Nifong LW, Bonatti J, Casula R, Falk V, Folliguet TA, Kiaii BB, Mack MJ, Mihaljevic T, Smith JM, Suri RM, Bavaria JE, **MacGillivray TE**, Chitwood WR Jr. Pathway for surgeons and programs to establish and maintain a successful robot-assisted adult cardiac surgery program. *J Thorac Cardiovasc Surg* 2016 Jul;152(1):9-13. doi: 10.1016/j.jtcvs.2016.05.018. PMID: 27343904.
35. Rodriguez E, Nifong LW, Bonatti J, Casula R, Falk V, Folliguet TA, Kiaii BB, Mack MJ, Mihaljevic T, Smith JM, Suri RM, Bavaria JE, **MacGillivray TE**, Chitwood WR Jr. Pathway for surgeons and programs to establish and maintain a successful robot-assisted adult cardiac surgery program. *Ann Thorac Surg* 2016 Jul;102(1):340-4. doi: 10.1016/j.athoracsur.2016.02.085. PMID: 27343505.
36. Vapnik JS, Kim JB, Isselbacher EM, Ghoshhajra BB, Cheng Y, Sundt TM 3rd, **MacGillivray TE**, Cambria RP, Lindsay ME. Characteristics and outcomes of ascending versus descending thoracic aortic aneurysms. *Am J Cardiol* 2016 May 15;117(10):1683-90. doi: 10.1016/j.amjcard.2016.02.048. PMID: 27015890.
37. Kim JB, Ejiofor JI, Yammine M, Camuso JM, Walsh CW, Ando M, Melnitchouk SI, Rawn JD, Leacche M, **MacGillivray TE**, Cohn LH, Byrne JG, Sundt TM. Are homografts superior to conventional prosthetic valves in the setting of infective endocarditis involving aortic valve? *J Thorac Cardiovasc Surg* 2016 May;151(5):1239-1246. doi: 10.1016/j.jtcvs.2015.12.061. PMID: 26936004.
38. Feins EN, DeFaria Yeh D, Bhatt AB, Stefanescu A, Youniss MA, Ghoshhajra BB, Inglessis-Azuaje I, Liberthson RR, **MacGillivray TE**. Anomalous aortic origin of a coronary artery: surgical repair with anatomic- and function-based follow-up. *Ann Thorac Surg* 2016 Jan;101(1):169-76. doi: 10.1016/j.athoracsur.2014.07.003. PMID: 26428691.
39. Heng E, Stone JR, Kim JB, Lee H, **MacGillivray TE**, Sundt TM. Comparative histology of aortic dilatation associated with bileaflet versus trileaflet aortic valves. *Ann Thorac Surg* 2015 Dec;100(6):2095-101. doi: 10.1016/j.athoracsur.2015.05.105. PMID: 26338050.
40. Carroll BJ, Shah RV, Murthy V, McCullough SA, Reza N, Thomas SS, Song TH, Newton-Cheh CH, Camuso JM, **MacGillivray T**, Sundt TM, Semigran MJ, Lewis GD, Baker JN, Garcia JP. Clinical features and outcomes in adults with cardiogenic shock supported by extracorporeal membrane oxygenation. *Am J Cardiol* 2015 Nov 15;116(10):1624-30. doi: 10.1016/j.amjcard.2015.08.030. PMID: 26443560.
41. Kim JB, Kim K, Lindsay ME, **MacGillivray T**, Isselbacher EM, Cambria RP, Sundt TM 3rd. Risk of rupture or dissection in descending thoracic aortic aneurysm. *Circulation* 2015 Oct 27;132(17):1620-9. doi: 10.1161/circulationaha.114.015177. PMID: 26338955.
42. Yeh DD, Ghoshhajra B, Inglessis-Azuaje I, **MacGillivray T**, Liberthson R, Bhatt AB. Massive pulmonary artery aneurysm causing left main coronary artery compression in the absence of pulmonary hypertension. *Tex Heart Inst J* 2015 Oct 1;42(5):465-7. doi: 10.14503/thij-15-5028. PMID: 26504443.
43. Ptaszek LM, Kim K, Spooner AE, **MacGillivray TE**, Cambria RP, Lindsay ME, Isselbacher EM. Marfan syndrome is associated with recurrent dissection of the dissected aorta. *Ann Thorac Surg* 2015 May;99(5):1616-23. doi: 10.1016/j.athoracsur.2014.12.066. PMID: 25818572.
44. Mohebbi J, Ibrahim AE, **MacGillivray TE**, Goverman J, Fagan SP. Mitral valve repair via right thoracotomy for multidrug resistant Pseudomonas endocarditis in a burn patient: Case report and review of the literature. *Burns* 2015 May;41(3):347-50. doi: 10.1016/j.burns.2015.01.002. PMID: 25703662.
45. Subramanian K, Gianni D, Balla C, Assenza GE, Joshi M, Semigran MJ, **Macgillivray TE**, Van Eyk JE, Agnetti G, Paolucci N, Bamburg JR, Agrawal PB, Del Monte F. Cofilin-2 phosphorylation and sequestration in myocardial aggregates: novel pathogenetic mechanisms for idiopathic dilated cardiomyopathy. *J Am Coll Cardiol* 2015 Mar 31;65(12):1199-214. doi: 10.1016/j.jacc.2015.01.031. PMID: 25814227.
46. Fitzsimons MG, Ichinose F, Vagefi PA, Markmann JF, Pierce ET, **MacGillivray TE**, Hertl M, Gauran C, Madsen JC, Baker J. Successful right ventricular mechanical support after combined heart-

- liver transplantation. *J Cardiothorac Vasc Anesth* 2014 Dec;28(6):1583-5. doi: 10.1053/j.jvca.2013.10.013. PMID: 24462515.
47. Kim KM, Cambria RP, Isselbacher EM, Baker JN, LaMuraglia GM, Stone JR, **MacGillivray TE**. Contemporary surgical approaches and outcomes in adults with Kommerell diverticulum. *Ann Thorac Surg* 2014 Oct;98(4):1347-54. doi: 10.1016/j.athoracsur.2014.05.045. PMID: 25134861.
 48. Ecker JL, Solt K, Fitzsimons MG, **MacGillivray TE**. Case records of the Massachusetts General Hospital. Case 40-2012: A 43-year-old woman with cardiorespiratory arrest after a cesarean section. *N Engl J Med* 2012 Dec 27;367(26):2528-36. doi: 10.1056/nejmcpc1201413. PMID: 23268668.
 49. Goldstein DJ, Maybaum S, **MacGillivray TE**, Moore SA, Bogaev R, Farrar DJ, Frazier OH; HeartMate II Clinical Investigators. Young patients with nonischemic cardiomyopathy have higher likelihood of left ventricular recovery during left ventricular assist device support. *J Card Fail* 2012 May;18(5):392-5. doi: 10.1016/j.cardfail.2012.01.020. PMID: 22555270.
 50. Wang H, Smith RN, Spooner AE, Isselbacher EM, Cambria RP, **MacGillivray TE**, Stone JH, Stone JR. Giant cell aortitis of the ascending aorta without signs or symptoms of systemic vasculitis is associated with elevated risk of distal aortic events. *Arthritis Rheum* 2012 Jan;64(1):317-9. doi: 10.1002/art.33343. PMID: 21953530.
 51. Carvalho AR, Ichinose F, Schettino IA, Hess D, Rojas J, Giannella-Neto A, Agnihotri A, Walker J, **MacGillivray TE**, Vidal Melo MF. Tidal lung recruitment and exhaled nitric oxide during coronary artery bypass grafting in patients with and without chronic obstructive pulmonary disease. *Lung* 2011 Dec;189(6):499-509. doi: 10.1007/s00408-011-9325-0. PMID: 21952833.
 52. Karchmer AW, **MacGillivray TE**, Healey TT, Stone JR. Case records of the Massachusetts General Hospital. Case 1-2011: A 35-year-old man with fever, bacteremia, and a mass in the left atrium. *N Engl J Med* 2011 Jan 13;362(2):158-66. doi: 10.1056/NEJMpc1004362. PMID: 21226582.
 53. Dey BR, Chung SS, Spitzer TR, Zheng H, **Macgillivray TE**, Seldin DC, McAfee S, Ballen K, Attar E, Wang T, Shin J, Newton-Cheh C, Moore S, Sanchorawala V, Skinner M, Madsen JC, Semigran MJ. Cardiac transplantation followed by dose-intensive melphalan and autologous stem-cell transplantation for light-chain amyloidosis and heart failure. *Transplantation* 2010 Oct 27;90(8):905-11. PMID: 20733534.
 54. Panchenko MP, Siddiquee Z, Dombkowski DM, Alekseyev YO, Lenburg ME, Walker JD, **Macgillivray TE**, Preffer FI, Stone JR. Protein kinase CK1alphaLS promotes vascular cell proliferation and intimal hyperplasia. *Am J Pathol* 2010 Sep;177(3):1562-72. doi: 10.2353/ajpath.2010.100327. PMID: 20696773.
 55. Gianni D, Li A, Tesco G, McKay KM, Moore J, Raygor K, Rota M, Gwathmey JK, Dec GW, Aretz T, Leri A, Semigran MJ, Anversa P, **Macgillivray TE**, Tanzi RE, del Monte F. Protein aggregates and novel presenilin gene variants in idiopathic dilated cardiomyopathy. *Circulation* 2010 Mar 16;121(10):1216-26. doi: 10.1161/circulationaha.109.879510. PMID: 20194882.
 56. Shi J, Guan J, Jiang B, Brenner DA, Del Monte F, Ward JE, Connors LH, Sawyer DB, Semigran MJ, **Macgillivray TE**, Seldin DC, Falk R, Liao R. Amyloidogenic light chains induce cardiomyocyte contractile dysfunction and apoptosis via a non-canonical p38alpha MAPK pathway. *Proc Natl Acad Sci USA* 2010 Mar 2;107(9):4188-93. doi: 10.1073/pnas.0912263107. PMID: 20150510.
 57. Stevens LM, Madsen JC, Isselbacher EM, Khairy P, **MacGillivray TE**, Hilgenberg AD, Agnihotri AK. Surgical management and long-term outcomes for acute ascending aortic dissection. *J Thorac Cardiovasc Surg* 2009 Dec;138(6):1349-57. doi: 10.1016/j.jtcvs.2009.01.030. PMID: 19660400.
 58. Lam KM, Ennis S, O'Driscoll G, Solis JM, **MacGillivray T**, Picard MH. Observations from non-invasive measures of right heart hemodynamics in left ventricular assist device patients. *J Am Soc Echocardiogr* 2009 Sep;22(9):1055-62. doi: 10.1016/j.echo.2009.06.006. PMID: 19647406.
 59. Pagani FD, Miller LW, Russell SD, Aaronson KD, John R, Boyle AJ, Conte JV, Bogaev RC, **MacGillivray TE**, Naka Y, Mancini D, Massey HT, Chen L, Klodell CT, Aranda JM, Moazami N, Ewald GA, Farrar DJ, Frazier OH; HeartMate II Investigators. Extended mechanical circulatory support with a continuous-flow rotary left ventricular assist device. *J Am Coll Cardiol* 2009 Jul 21;54(4):312-21. doi: 10.1016/j.jacc.2009.03.055. PMID: 19608028.
 60. Gupta V, Truong QA, Okada DR, Kiernan TJ, Yan BP, Cubeddu RJ, Roberts DJ, Abbara S, **MacGillivray TE**, Palacios IF. Giant left circumflex coronary artery aneurysm with arteriovenous

- fistula to the coronary sinus. *Circulation* 2008 Nov 25;118(22):2304-7. doi: 10.1161/circulationaha.108.781617. PMID: 19029479.
61. Haddad GE, Saunders L, Carles M, Crosby SD, del Monte F, **Macgillivray TE**, Semigran MJ, Dec GW, Hajjar RJ, Doye AA, Glass R, El M, Gwathmey JK. Fingerprint profile of alcohol-associated heart failure in human hearts. *Alcohol Clin Exp Res* 2008 May;32(5):814-21. doi: 10.1111/j.1530-0277.2008.00628.x. PMID: 18336640.
 62. Haddad GE, Saunders LJ, Crosby SD, Carles M, del Monte F, King K, Bristow MR, Spinale FG, **Macgillivray TE**, Semigran MJ, Dec GW, Williams SA, Hajjar RJ, Gwathmey JK. Human cardiac-specific cDNA array for idiopathic dilated cardiomyopathy: sex-related differences. *Physiol Genomics* 2008 Apr 22;33(2):267-77. doi: 10.1152/physiolgenomics.00265.2007. PMID: 18303083.
 63. Miller LW, Pagani FD, Russell SD, John R, Boyle AJ, Aaronson KD, Conte JV, Naka Y, Mancini D, Delgado RM, **MacGillivray TE**, Farrar DJ, Frazier OH; HeartMate II Clinical Investigators. Use of a continuous-flow device in patients awaiting heart transplantation. *N Engl J Med* 2007 Aug 30;357(9):885-96. doi: 10.1056/nejmoa067758. PMID: 17761592.
 64. Paul S, Leacche M, Unic D, Couper GS, **Macgillivray TE**, Agnihotri AK, Cohn LH, Byrne JG. Determinants of outcomes for postcardiotomy VAD placement: an 11-year, two-institution study. *J Card Surg* 2006 May-Jun;21(3):234-7. doi: 10.1111/j.1540-8191.2006.00223.x. PMID: 16684048.
 65. Akins CW, Hilgenberg AD, Vlahakes GJ, Madsen JC, **MacGillivray TE**, LaMuraglia GM, Cambria RP. Late results of combined carotid and coronary surgery using actual versus actuarial methodology. *Ann Thorac Surg* 2005 Dec;80(6):2091-7. doi: 10.1016/j.athoracsur.2005.05.029. PMID: 16305851.
 66. Akins CW, Bitondo JM, Hilgenberg AD, Vlahakes GJ, Madsen JC, **MacGillivray TE**. Early and late results of the surgical correction of cardiac prosthetic paravalvular leaks. *J Heart Valve Dis* 2005 Nov;14(6):792-9;discussion 799-800. PMID: 16359061.
 67. Wong DR, Agnihotri AK, Hung JW, Vlahakes GJ, Akins CW, Hilgenberg AD, Madsen JC, **MacGillivray TE**, Picard MH, Torchiana DF. Long-term survival after surgical revascularization for moderate ischemic mitral regurgitation. *Ann Thorac Surg* 2005 Aug;80(2):570-7. doi: 10.1016/j.athoracsur.2005.03.034. PMID: 16039207.
 68. Kathiresan S, Servoss SJ, Newell JB, Trani D, **MacGillivray TE**, Lewandrowski K, Lee-Lewandrowski E, Januzzi JL. Cardiac troponin T elevation after coronary artery bypass grafting is associated with increased one-year mortality. *Am J Cardiol* 2004 Oct 1;94(7):879-81. doi: 10.1016/j.amjcard.2004.06.022. PMID: 15464669.
 69. Baggish AL, **MacGillivray TE**, Hoffman W, Newell JB, Lewandrowski KB, Lee-Lewandrowski E, Anwaruddin S, Siebert U, Januzzi JL. Postoperative troponin-T predicts prolonged intensive care unit length of stay following cardiac surgery. *Crit Care Med* 2004 Sep;32(9):1866-71. doi: 10.1097/01.ccm.0000139692.19371.7c. PMID: 15343014.
 70. Akins CW, Hilgenberg AD, Vlahakes GJ, Madsen JC, **MacGillivray TE**. Aortic valve replacement in patients with previous cardiac surgery. *J Card Surg* 2004 Jul-Aug;19(4):308-12. doi: 10.1111/j.0886-0440.2004.4055_11.x. PMID: 15245459.
 71. Kathiresan S, **MacGillivray TE**, Lewandrowski K, Servoss SJ, Lewandrowski E, Januzzi JL Jr. Off-pump coronary bypass grafting is associated with less myocardial injury than coronary bypass surgery with cardiopulmonary bypass. *Heart Surg Forum* 2003;6(6):e174-8. PMID: 14722006.
 72. Lowe HC, Jang IK, Yoerger DM, **MacGillivray TE**, de Moor M, Palacios IF. Compassionate use of the Amplatzer ASD closure device for residual postinfarction ventricular septal rupture following surgical repair. *Catheter Cardiovasc Interv* 2003 Jun;59(2):230-3;discussion 234. doi: 10.1002/ccd.10525. PMID: 12772247.
 73. Avery EG, **MacGillivray TE**. Arrested paradoxical emboli in transit diagnosed by intraoperative transesophageal echocardiography. *Anes Analg* 2002 Dec;95(6):1569-71. doi: 10.1097/00000539-200212000-00017. PMID: 12456417.
 74. Akins CW, Hilgenberg AD, Vlahakes GJ, **MacGillivray TE**, Torchiana DF, Madsen JC. Results of bioprosthetic versus mechanical aortic valve replacement performed with concomitant coronary artery bypass grafting. *Ann Thorac Surg* 2002 Oct;74(4):1098-106. doi: 10.1016/s0003-4975(02)03840-7. PMID: 12400752.

75. Januzzi JL, Lewandrowski K, **MacGillivray TE**, Newell JB, Kathiresan S, Servoss SJ, Lee-Lewandrowski E. A comparison of cardiac troponin T and creatine kinase-MB for patient evaluation after cardiac surgery. *J Am Coll Cardiol* 2002 May 1;39(9):1518-23. doi: 10.1016/s0735-1097(02)01789-8. PMID: 11985917.
76. Bitondo JM, Daggett WM, Torchiana DF, Akins CW, Hilgenberg AD, Vlahakes GJ, Madsen JC, **MacGillivray TE**, Agnihotri AK. Endoscopic versus open saphenous vein harvest: a comparison of postoperative wound complications. *Ann Thorac Surg* 2002 Feb;73(2):523-8. doi: 10.1016/s0003-4975(01)03334-3. PMID: 11845868.
77. Grillo HC, Wright CD, Vlahakes GJ, **MacGillivray TE**. Management of congenital tracheal stenosis by means of slide tracheoplasty or resection and reconstruction, with long-term follow-up of growth after slide tracheoplasty. *J Thorac Cardiovasc Surg* 2002 Jan;123(1):145-52. PMID: 11782768.
78. Grunenfelder J, Akins CW, Hilgenberg AD, Vlahakes GJ, Torchiana DF, Madsen JC, **MacGillivray TE**. Long-term results and determinants of mortality after surgery for native and prosthetic valve endocarditis. *J Heart Valve Dis* 2001 Nov;10(6):694-702. PMID: 11767173.
79. Houser SL, **MacGillivray T**, Aretz HT. The impact of cocaine on the donor heart: a case report. *J Heart Lung Transplant* 2000 Jun;19(6):609-11. doi: 10.1016/s1053-2498(00)00082-6. PMID: 10867342.
80. Sullivan KM, Meuli M, **MacGillivray TE**, Adzick NS. An adult-fetal skin interface heals without scar formation in sheep. *Surgery* 1995 Jul;118(1):82-6. doi: 10.1016/s0039-6060(05)80013-3. PMID: 7604384.
81. **MacGillivray TE**, Jennings RW, Rudolph AM, Ring EJ, Adzick NS, Harrison MR. Vascular changes with in utero correction of diaphragmatic hernia. *J Pediatr Surg* 1994 Aug;29(8):992-6. doi: 10.1016/0022-3468(94)90265-8. PMID: 7965536.
82. Hedrick MH, Rice HE, **MacGillivray TE**, Bealer JF, Zanjani ED, Flake AW. Hematopoietic chimerism achieved by in utero hematopoietic stem cell injection does not induce donor-specific tolerance for renal allografts in sheep. *Transplantation* 1994 Jul 15;58(1):110-1. PMID: 7913560.
83. Estes JM, Vande Berg JS, Adzick NS, **MacGillivray TE**, Desmouliere A, Gabbiani G. Phenotypic and functional features of myofibroblasts in fetal wounds. *Differentiation* 1994 May;56(3):173-81. doi: 10.1046/j.1432-0436.1994.5630173.x. PMID: 8034132.
84. Hedrick MH, Jennings RW, **MacGillivray TE**, Rice HE, Flake AW, Adzick NS, Harrison MR. Chronic fetal vascular access. *Lancet* 1993 Oct 30;342(8879):1086-7. doi: 10.1016/0140-6736(93)92065-2. PMID: 8105313.
85. Harrison MR, Adzick NS, Flake AW, Jennings RW, Estes JM, **MacGillivray TE**, Cheuh JT, Goldberg JD, Filly RA, Goldstein RB, Rosen MA, Caldwell C, Levine AH, Howell LJ. Correction of congenital diaphragmatic hernia in utero: VI. Hard-earned lessons. *J Pediatr Surg* 1993 Oct;28(10):1411-7;discussion 1417-8. doi: 10.1016/s0022-3468(05)80338-0. PMID: 8263712.
86. **MacGillivray TE**, Harrison MR, Goldstein RB, Adzick NS. Disappearing fetal lung lesions. *J Pediatr Surg* 1993 Oct;28(10):1321-4;discussion 1324-5. doi: 10.1016/s0022-3468(05)80321-5. PMID: 8263695.
87. **MacGillivray TE**, Jennings RW, Harrison MR. Preterm labor in the primate responds to exogenous nitric oxide. *Surg Forum* 1993;44:265-7.
88. Jennings RW, **MacGillivray TE**, Harrison MR. Nitric oxide inhibits preterm labor in the rhesus monkey. *J Matern Fetal Med* 1993;2:170-5.
89. Estes JM, **MacGillivray TE**, Hedrick MH, Adzick NS, Harrison MR. Fetoscopic surgery for the treatment of congenital anomalies. *J Pediatr Surg* 1992 Aug;27(8):950-4. doi: 10.1016/0022-3468(92)90538-i. PMID: 1403556.
90. Jennings RW, **MacGillivray TE**, Rudolph AM, Ring EJ, Adzick NS, Harrison MR. Vascular considerations in correction of congenital diaphragmatic hernia. *Surg Forum* 1992;43:629-31.
91. Hedrick MH, Jennings RW, **MacGillivray TE**, Flake AW, Lorenz HP, Estes JM, Roberts LJ, Adzick NS, Harrison, MR. Endoscopic catheterization of placental vessels for chronic fetal vascular access. *Surg Forum* 1992;43:504-5.

ii. Reviews or Editorials in Refereed Journals

1. **MacGillivray TE.** Diving in to a bigger pool. *Ann Thorac Surg.* 2023;115:500-501. doi: 10.1016/j.athoracsurg.2022.11.018 epub 2022 Nov 30. PMID:36460065.
2. **MacGillivray TE.** The time is now for the aortic team. *Ann Thorac Surg.* 2023;115:549 doi: 10.1016/j.athoracsurg.2022.05.008. PMID: 35598708
3. Bhimaraj A, Guha A, **MacGillivray T.** Humanizing policies and allocation systems: a need to refocus on patient-centered care. *JACC Heart Fail* 2022 Feb;10(2):144. doi: 10.1016/j.jchf.2021.11.005. PMID: 35115089.
4. **MacGillivray TE.** Surgical management of aortic valve endocarditis – the high-water mark? *Ann Thorac Surg* 2021 Dec 17:S0003-4975(21)02109-3. doi: 10.1016/j.athoracsurg.2021.12.002. PMID: 34929145.
5. **MacGillivray TE,** Reardon MJ. Commentary: Trim the fat. *JTCVS Tech* 2021 Nov 11;11:41-42. doi: 10.1016/j.xjtc.2021.11.008. PMID: 35169732.
6. **MacGillivray TE,** Reardon MJ. Surgery versus transcatheter veers right. *Cardiovasc Revasc Med* 2021 Nov;32:33-34. doi: 10.1016/j.carrev.2021.07.026. PMID: 34362685.
7. **MacGillivray TE,** Reardon MJ. Commentary: Is there strength in frailty testing? *J Thorac Cardiovasc Surg* 2021 Mar 10:S0022-5223(21)00440-2. doi: 10.1016/j.jtcvs.2021.03.020. Online ahead of print. PMID: 33824019.
8. **MacGillivray TE,** Reardon MJ. Surgical treatment of cardiac and pulmonary sarcomas. *Op Tech Thorac Cardiovasc Surg* 2021;26:219-223.
9. **MacGillivray TE,** Reardon MJ. Surgical treatment of benign cardiac tumors. *Op Tech Thorac Cardiovasc Surg* 2021;26:212-218.
10. **MacGillivray TE,** Reardon MJ. Autotransplant and advanced techniques for extensive cardiac sarcomas. *Op Tech Thorac Cardiovasc Surg* 2021;26:409-421.
11. Chan EY, **MacGillivray TE,** Reardon MJ. Management of cardiac paragangliomas. *Op Tech Thorac Cardiovasc Surg* 2021;26:422-445.
12. **MacGillivray TE,** Reardon MJ. Commentary: Postablation atrial-esophageal fistula – the way to a man’s heart? *JTCVS Tech* 2020 Aug 11;4:176-177. doi: 10.1016/j.xjtc.2020.07.030. PMID: 34318003.
13. **MacGillivray TE.** Advancing the culture of patient safety and quality improvement. *Methodist DeBakey Cardiovasc J* 2020 Jul-Sep;16(3):192-198. doi: 10.14797/mdcj-16-3-192. PMID: 33133354.
14. **MacGillivray TE.** Rivaroxaban and dabigatran for suppression of mechanical heart valve-induced thrombin generation (Invited Commentary). *Ann Thorac Surg* 2020 Aug;110(2):590-591. doi: 10.1016/j.athoracsurg.2020.01.049. PMID: 32142808.
15. **MacGillivray TE,** Reardon MJ. Reoperation after transcatheter aortic valve replacement: breaking up is hard to do. *J Am Coll Cardiol Cardiovasc Interv* 2020 Jul 13;13(13):1526-1528. doi: 10.1016/j.jcin.2020.04.045. PMID: 32535009.
16. **MacGillivray TE.** Mechanical surgery eases the burden of metabolic disease (Invited Commentary). *J Am Coll Surg* 2020 Jun;230(6):1055-1057. doi: 10.1016/j.jamcollsurg.2020.03.020. PMID: 32451043.
17. **MacGillivray TE,** Lin CH. The growing number of adults surviving with congenital heart disease. *Methodist DeBakey Cardiovasc J.* 2019 Apr-Jun;15(2):97-98. doi: 10.14797/mdcj-15-2-97. PMID: 31384371.
18. Thakkar A, Fuentes-Rojas S, Karanja E, Eburnlomo E, Millette A, Lee CH, Shen-Lin YS, Monteiro G, **MacGillivray TE,** Lin CH. Building an adult congenital heart program: critical components and important allies. *Curr Cardiol Rep* 2018 Oct 11;11:134. doi: 10.1007/s11886-018-1080-x. PMID: 30311002.
19. Shahian DM, Prager RL, Higgins RSD, **MacGillivray TE,** Sabik JF 3rd, Dearani JA, Naunheim KS. Individual surgeon performance in adult cardiac surgery. *Ann Thorac Surg* 2018 Oct; 106(4):943-944. doi: 10.1016/j.athoracsurg.2018.07.003. PMID: 30063886.
20. **MacGillivray TE.** How I teach hemi-arch replacement. *Ann Thorac Surg* 2016 Apr;101(4):1251-4. doi: 10.1016/j.athoracsurg.2016.02.047. PMID: 27000566.

21. **MacGillivray TE**, Sundt T, Almassi GH, Pomar JL. Discussion. *J Thorac Cardiovasc Surg* 2016 Feb;151(2):408-9. doi: 10.1016/j.jtcvs.2015.09.114. PMID: 26586356.
22. **MacGillivray TE**. Scholarship in education: the clarion call. *Ann Thorac Surg* 2015 Dec;100(6):2001-2. doi: 10.1016/j.athoracsur.2015.10.058. PMID: 26652511.
23. Ecker JL, **MacGillivray TE**, Fitzsimons MG. Case 40-2012: A woman with cardiorespiratory arrest after a cesarean section (Author/Editor Response). *N Engl J Med* 2013 Mar 28;368(13):1261. doi: 10.1056/nejmc1301068. PMID: 23534575.
24. **MacGillivray TE**. Cardiac reoperations in octogenarians (Invited Commentary). *Ann Thorac Surg* 2009 May;87(5):1385. doi: 10.1016/j.athoracsur.2009.02.040. PMID: 19379869.
25. Chumnanvej S, Wood MJ, **MacGillivray TE**, Melo MF. Perioperative echocardiographic examination for ventricular assist device implantation. *Anesth Analg* 2007 Sep;105(3):583-601. doi: 10.1213/01.ane.0000278088.22952.82. PMID: 17717209.
26. Bukhari F, **MacGillivray T**, del Monte F, Hajjar RJ. Genetic maneuvers to ameliorate ventricular function in heart failure: therapeutic potential and future implications. *Expert Rev Cardiovasc Ther* 2005 Jan;3(1):85-97. doi: 10.1586/14779072.3.1.85. PMID: 15723577.
27. **MacGillivray TE**, Vlahakes GJ. Patency and the pump – the risks and benefits of off-pump CABG. *N Engl J Med* 2004 Jan 1;350(1):3-4. doi: 10.1056/nejmp038185. PMID: 14702419.
28. **MacGillivray TE**. Fibrin sealants and glues. *J Card Surg* 2003 Nov-Dec;18(6):480-5. doi: 10.1046/j.0886-0440.2003.02073.x. PMID: 14992096.
29. Januzzi JL, **MacGillivray TE**, Lewandrowski K, Lee-Lewandrowski E. Comparison of troponin T and creatine kinase-MB fraction in evaluating cardiac patients postoperatively: reply. *J Am Coll Cardiol* 2003 Mar 19;41:1065-66. doi: 10.1016/s0735-1097(02)02984-4. PMID: 12651058.
30. **MacGillivray TE**, Vlahakes GJ. Angioplasty versus minimally invasive bypass surgery. *N Engl J Med* 2002 Aug 22;347(8):551-2. doi: 10.1056/nejmp020078. PMID: 12192012.
31. **MacGillivray TE**, Adzick NS. Lung transplantation in the pediatric patient. *Chest Surg Clin North Am* 1993;3:569-82.
32. **MacGillivray TE**, Harrison MR. Fetal cardiac surgery: what's the future? *J Matern Fetal Invest* 1992;2:151.

iii. Books or Chapters in Books

1. El Nihum LI, Li Zhongyi, Lin CH, **MacGillivray TE**, Cardiovascular Robotics. STS Cardiothoracic Surgery E-Book. https://ebook.sts.org/sts/view/Cardiac-and-Congenital/1864004/all/Aortic_Arch_Aneurysms Unbound Medicine, (in press).
2. Kim KM, **MacGillivray TE**. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (13th Ed.) Philadelphia: Elsevier Saunders; 2023.
3. **MacGillivray TE**, Kim KM. Aortic Arch Aneurysms. STS Cardiothoracic Surgery E-Book. https://ebook.sts.org/sts/view/Cardiac-and-Congenital/1864004/all/Aortic_Arch_Aneurysms Unbound Medicine, 2020.
4. Kim KM, **MacGillivray TE**. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (12th Ed.) Philadelphia: Elsevier Saunders;2016. Chapter 170.
5. Kim KM, **MacGillivray TE**. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (11th Ed.). Philadelphia: Elsevier Saunders;2014. pp. 807-11.
6. Fitzsimons MG, Ennis S, **MacGillivray T**. Devices for cardiac support. In: Sandberg WS, Urman RD, Ehrenfeld JM, eds., The MGH Textbook of Anesthetic Equipment. Philadelphia: Elsevier Saunders;2011. pp. 247-62.
7. Kim KM, **MacGillivray TE**. Cardiothoracic surgery. In: Berger DL, ed., Oxford American Handbook of Surgery. New York: Oxford University Press, Inc.;2009. pp. 457-81.
8. Fitzsimons MG, **MacGillivray TE**. Cardiac surgery. In: Bigatello LM, ed., The Critical Care Handbook of the Massachusetts General Hospital. Philadelphia: Lippincott Williams and Wilkins;2006. pp. 705-18.

9. Cooke DT, **MacGillivray TE**. Chest trauma 3: blunt and penetrating injuries to the heart and central vessels. In: Sheridan RL, ed., The Trauma Handbook of the Massachusetts General Hospital. Philadelphia: Lippincott Williams and Wilkins;2004. pp. 328-41.

iv. Other Publications

1. Stone GW, Sabik JF, Serruys PW, Simonton CA, Genereux P, Puskas J, Kandzari DE, Morice MC, Lembo N, Brown WM 3rd, Taggart DP, Banning A, Merkely B, Horkay F, Boonstra PW, van Boven AJ, Ungi I, Bogats G, Mansour S, Noiseux N, Sabate M, Pomar J, Hickey M, Gershlick A, Buszman P, Bochenek A, Schampaert E, Page P, Dressler O, Kosmidou I, Mehran R, Pocok SJ, Kappetein AP; **EXCEL Trial Investigators**. Everolimus-Eluting Stents or Bypass Surgery for Left Main Coronary Artery Disease. *N Engl J Med*. 2016 Dec 8;375(23):2223-2235. doi: 10.1056/nejmoa1610227. PMID: 27797291.
2. Brisco, MA, Sundareswaran KS, Milano CA, Feldman D, Testani JM, Ewald GA, Slaughter MS, Farrar DJ, Goldberg LR; **HeartMate II Clinical Investigators**. Incidence, risk, and consequences of atrial arrhythmias in patients with continuous-flow left ventricular assist devices. *J Card Surg* 2014 Jul;29(4):572-80. doi: 10.1111/jocs.12336. PMID: 24750460.
3. Jorde UP, Kushwaha SS, Tatooles AJ, Naka Y, Bhat G, Long JW, Horstmanshof DA, Kormos RL, Teuteberg JJ, Slaughter MS, Birks EJ, Farrar DJ, Park SJ; **HeartMate II Clinical Investigators**. Results of the destination therapy post-food and drug administration approval study with a continuous flow left ventricular assist device: a prospective study using the INTERMACS registry (Interagency Registry for Mechanically Assisted Circulatory Support). *J Am Coll Cardiol* 2014 May 6;63(17):1751-7. doi: 10.1016/j.jacc.2014.01.053. PMID: 24613333.
4. Boyle AJ, Jorde UP, Sun B, Park SJ, Milano CA, Frazier OH, Sundareswaran KS, Farrar DJ, Russell SD; **HeartMate II Clinical Investigators**. Pre-operative risk factors of bleeding and stroke during left ventricular assist device support: an analysis of more than 900 HeartMate II outpatients. *J Am Coll Cardiol* 2014 Mar 11;63(9):880-8. doi: 10.1016/j.jacc.2013.08.1656. PMID: 24316083.
5. Moazami N, Milano CA, John R, Sun B, Adamson RM, Pagani FD, Smedira N, Slaughter MS, Farrar DJ, Frazier OH; **HeartMate II Investigators**. Pump replacement for left ventricular assist device failure can be done safely and is associated with low mortality. *Ann Thorac Surg* 2013 Feb;95(2):500-5. doi: 10.1016/j.athoracsur.2012.09.011. PMID: 23261114.
6. Park SJ, Milano CA, Tatooles AJ, Rogers JG, Adamson RM, Steidley DE, Ewald GA, Sundareswaran KS, Farrar DJ, Slaughter MS; **HeartMate II Clinical Investigators**. Outcomes in advanced heart failure patients with left ventricular assist devices for destination therapy. *Circ Heart Fail* 2012 Mar 1;5(2):241-8. doi: 10.1161/circheartfailure.111.963991. PMID: 22282104.
7. Bogaev RC, Pamboukian SV, Moore SA, Chen L, John R, Boyle AJ, Sundareswaran KS, Farrar DJ, Frazier OH; **HeartMate II Clinical Investigators**. Comparison of outcomes in women versus men using a continuous-flow left ventricular assist device as a bridge to transplantation. *J Heart Lung Transplant* 2011 May;30(5):515-22. doi: 10.1016/j.healun.2010.12.009. PMID: 21257321.
8. Kormos RL, Teuteberg JJ, Pagani FD, Russell SD, John R, Miller LW, Massey T, Milano CA, Moazami N, Sundareswaran KS; Farrar DJ; **HeartMate II Clinical Investigators**. Right ventricular failure in patients with the HeartMate II continuous-flow left ventricular assist device: incidence, risk factors, and effect on outcomes. *J Thorac Cardiovasc Surg* 2010 May;139(5):1316-24. doi: 10.1016/j.jtcvs.2009.11.020. PMID: 20132950.
9. Rogers JG, Aaronson KD, Boyle AJ, Russell SD, Milano CA, Pagani FD, Edwards BS, Park S, John R, Conte JV, Farrar DJ, Slaughter MS; **HeartMate II Investigators**. Continuous flow left-ventricular assist device improves functional capacity and quality of life of advanced heart failure patients. *J Am Coll Cardiol* 2010 Apr 27;55(17):1826-34. doi: 10.1016/j.jacc.2009.12.052. PMID: 20413033.
10. Slaughter MS, Pagani FD, Rogers JG, Miller LW, Sun B, Russell SD, Starling RC, Chen L, Boyle AJ, Chillcott S, Adamson RM, Blood MS, Camacho MT, Idrissi KA, Petty M, Sobieski M, Wright S, Myers TJ, Farrar DJ; **HeartMate II Clinical Investigators**. Clinical management of continuous-flow left ventricular assist devices in advanced heart failure. *J Heart Lung Transplant* 2010 Apr;29(4 Suppl):S1-39. doi: 10.1016/j.healun.2010.01.011. PMID: 20181499.

11. Russell SD, Rogers JG, Milano CA, Dyke DB, Pagani FD, Aranda JM, Klodell CT Jr, Boyle AJ, John R, Chen L, Massey HT, Farrar DJ, Conte JV; **HeartMate II Clinical Investigators**. Renal and hepatic function improve in advanced heart failure patients during continuous-flow support with the HeartMate II left ventricular assist device. *Circulation* 2009 Dec 8;120(23):2352-7. doi: 10.1161/circulationaha.108.814863. PMID: 19933938.
12. Slaughter MS, Rogers JG, Milano CA, Russell SD, Conte JV, Feldman D, Sun B, Tatroles AJ, Delgado RM 3rd, Long JW, Wozniak TC, Ghumman W, Farrar DJ, Frazier OH; **HeartMate II Investigators**. Advanced heart failure treated with continuous-flow left ventricular assist device. *N Engl J Med* 2009 Dec 3;361(23):2241-51. doi: 10.1056/nejmoa0909938. PMID: 19920051.
13. Pal JD, Klodell CT, John R, Pagani FD, Rogers JG, Farrar DJ, Milano CA; **HeartMate II Clinical Investigators**. Low operative mortality with implantation of a continuous-flow left ventricular assist device and impact of concurrent cardiac procedures. *Circulation* 2009 Sep 15;120(11 Suppl):S215-9. doi: 10.1161/circulationaha.108.844274. PMID: 19752370.
14. Petrucci RJ, Wright S, Naka Y, Idrissi KA, Russell SD, Dordunoo D, Jaski B, Chillcott S, Feldman D, Yanssens T, Heatley G, Koundakjian L, Farrar DJ, Aaronson KD; **HeartMate II Clinical Investigators**. Neurocognitive assessments in advanced heart failure patients receiving continuous-flow left ventricular assist devices. *J Heart Lung Transplant* 2009 Jun;28(6):542-9. doi: 10.1016/j.healun.2009.02.007. PMID: 19481013.

B. Research Funding:

i. Current Active

N/A

ii. Submitted (Not yet funded)

N/A

iii. Previous

Agency: Abbott Medical Devices, Thoratec

Identifying Number: NCT00121472

Title of Project: Thoratec HeartMate II Left Ventricular Assist System (LVAS) for Bridge to Cardiac Transplantation

Dates of Project Period: 2005-2010

Role on Project: Principal Investigator

Description: Performed HeartMate II LVAD implants for bridge to transplantation at Massachusetts General Hospital, one of the highest enrolling sites for the multi-center trial; oversaw all site aspects of the trial

Agency: Abbott Medical Devices, Thoratec

Identifying Number: NCT00121485

Title of Project: Thoratec HeartMate II Left Ventricular Assist System (LVAS) for Destination Therapy

Dates of Project Period: 2005-2012

Role on Project: Principal Investigator

Description: Performed HeartMate II LVAD implants for destination therapy at Massachusetts General Hospital; oversaw all site aspects of the trial

Agency: National Heart, Lung, and Blood Institute (NHLBI)

Identifying Number: NCT00086450

Title of Project: Future Revascularization Evaluation in Patients with Diabetes Mellitus: Optimal Management of Multivessel Disease (FREEDOM)

Dates of Project Period: 2006-2016

Role on Project: Co-Investigator

Description: Performed coronary artery bypass grafting in trial patients

Agency: Abbott Medical Devices

Identifying Number: NCT01626079

Title of Project: Clinical Outcomes Assessment of the MitraClip Percutaneous Therapy for High Risk Surgical Risk Patients (COAPT)

Dates of Project Period: 2012-2016

Role on Project: Surgical Site Director

Description: Performed surgical mitral valve repair on patients who were not candidates for MitraClip therapy, also operated on patients who received MitraClip and had adverse events

Agency: Abbott Medical Devices

Identifying Number: NCT01205776

Title of Project: EXCEL Clinical Trial

Dates of Project Period: 2012-2016

Role on Project: Site Co-Investigator

Description: Performed coronary artery bypass grafting in trial patients, oversaw all site aspects of the trial

Agency: GORE

Identifying Number: NCT 02380716

Title of Project: ARISE Trial: TEVAR for Type A Dissection with the GORE Ascending Stent Graft

Dates of Project Period: 2018-2022

Role on Project: Co-Investigator

Description: Evaluated patients for enrollment in the trial

Agency: Xylocor Therapeutics, Inc.

Identifying Number: NCT04125732

Title of Project: Epicardial Delivery of XC001 Gene Therapy for Refractory Angina Coronary Treatment (The EXACT Trial)

Dates of Project Period: 2018-2022

Role on Project: Site Principal Investigator

Description: Evaluated patients for enrollment in the trial, administered the study drug

C. Invited Lectures:

Invited Presentation, "Vascular Trauma in Children," III Congress of the Pan-American Trauma Society, Sao Paulo, Brazil, 1990

Abstract Oral Presentation, "Endoscopic Catheterization of Placental Vessels for Chronic Fetal Vascular Access," Surgical Forum, American College of Surgeons 78th Annual Clinical Congress, New Orleans, LA, 1992

Abstract Oral Presentation, "Disappearing Fetal Lung Lesions," 61st Annual Meeting of the American Academy of Pediatrics, San Francisco, CA, 1992

Invited Presentation, "Biliary Atresia Begins Before Birth," 24th Annual Meeting of the Canadian Association of Paediatric Surgeons/British Association of Paediatric Surgeons, Ottawa, Ontario, Canada, 1992

Abstract Oral Presentation, "Vascular Changes within Utero Correction of Diaphragmatic Hernia," 62nd Annual Meeting of the American Academy of Pediatrics, Washington, DC, 1993

Abstract Oral Presentation, "Preterm Labor in the Primate Responds to Exogenous Nitric Oxide," Surgical Forum, American College of Surgeons 79th Annual Clinical Congress, San Francisco, CA, 1993

Invited Presentation, "Disappearing Fetal Lung Lesions," International Fetal Medicine and Surgery Society 12th Annual Conference, Whistler, British Columbia, Canada, 1993

Invited Presentation, "Nitric Oxide Inhibits Preterm Labor in the Rhesus Monkey," International Fetal Medicine and Surgery Society 12th Annual Conference, Whistler, British Columbia, Canada, 1993

Invited Presentation, "Left Ventricular Aneurysms," Massachusetts General Hospital Department of Surgery Grand Rounds, 1998

Invited Presentation, "Pulmonary Embolectomy," Massachusetts General Hospital Department of Surgery Grand Rounds, 1998

Invited Presentation, "Traumatic Aortic Disruptions," Massachusetts General Hospital Department of Surgery Grand Rounds, 1998

Invited Presentation, "Traumatic Aortic Disruptions," Addison Gilbert Hospital Cardiology Conference, Gloucester, MA, 1998

Invited Presentation, "Off-Pump Coronary Artery Bypass Grafting," Massachusetts General Hospital Department of Surgery Grand Rounds, 1999

Invited Presentation, "Diseases of the Aortic Root," Addison Gilbert Hospital Cardiology Conference, Gloucester MA, 1999

Invited Presentation, "Congenital Coronary Artery Anomalies," Massachusetts General Hospital Department of Surgery Grand Rounds, 2000

Invited Presentation, “Beating Heart Surgery,” Massachusetts General Hospital Department of Medicine, Cardiology Grand Rounds, 2000

Invited Presentation, “Mechanical Circulatory Support,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2000

Invited Presentation, “Off-Pump Coronary Artery Bypass,” American College of Surgeons 86th Annual Clinical Congress, Chicago, IL, 2000

Instructor and Proctor, Off-Pump Coronary Artery Bypass Surgery, Genzyme Center, Boston, MA, 2000

Invited Presentation, “Management of Left Atrial and Left Ventricular Myxomas,” American College of Surgeons 86th Annual Clinical Congress, Chicago, IL, 2000

Invited Presentation, “Mechanical Circulatory Support,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2001

Invited Presentation, “Management of Thoracic Trauma,” General Thoracic Surgery (CME Course), Harvard Medical School, Boston, MA, 2001

Invited Presentation, “Aortic Valve Endocarditis: The Nantucket Sleigh Ride,” COBE Cardiac Surgery Conference, Keystone, CO, 2001

Invited Presentation, “Beating Heart Surgery,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2002

Invited Presentation, “Cardiac Trauma,” 7th Annual New England Regional Trauma Conference, Burlington, MA, 2002

Invited Presentation, “Off and On Again, or How to Avoid Trouble Using OPCAB,” COBE Cardiac Surgery Conference, Keystone, CO, 2002

Invited Presentation, “Adult Congenital Heart Disease,” South Atlantic Cardiothoracic Surgical Society Annual Meeting, Williamsburg, VA, 2002

Invited Presentation, “Failed and Dejected, HIT and Then Rejected,” COBE Cardiac Surgery Conference, Keystone, CO, 2002

Invited Presentation, “Widened Mediastinum from Trauma,” General Thoracic Surgery (CME Course), Harvard Medical School, Boston, MA, 2003

Invited Presentation, “Adult Congenital Heart Disease,” Southeast Cardiac Surgery Society, Kimball, SD, 2003

Invited Presentation, “Trauma to the Great Vessels, Innominate, Subclavian, and Aorta,” General Thoracic Surgery (CME Course), Harvard Medical School, Boston, MA, 2004

Invited Presentation, “Ventricular Assist Devices: Short-term Bridge and Long-term Destination Therapy,” Advanced Heart and Lung Disease: Transplantation and Alternative Treatment Strategies (CME Course), Harvard Medical School, Cambridge, MA 2004

Invited Presentation, “Case Studies in Aortic Disease and Dissection,” Update and Review of Echocardiography (CME Course), Harvard Medical School, Boston, MA, 2004

Invited Presentation, “Advances in Aortic Arch Surgery,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2004

Invited Presentation, “Mechanical Circulatory Support,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2005

Invited Presentation, “Role of Surgery for Patients with ST Elevation Myocardial Infarction,” XXXVIII Congreso Venezolano de Cardiología, Caracas, Venezuela, 2005

Invited Presentation, “Off-Pump Coronary Bypass,” XXXVIII Congreso Venezolano de Cardiología, Caracas, Venezuela, 2005

Invited Presentation, “Ischemic Mitral Regurgitation,” XXXVIII Congreso Venezolano de Cardiología, Caracas, Venezuela, 2005

Invited Presentation, “Mechanical Circulatory Support: Update on Clinical Trials,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2006

Invited Presentation, “Ventricular Assist Devices: Short-term Bridge and Long-term Destination Therapy,” Advanced Heart and Lung Disease: Transplantation and Alternative Treatment Strategies (CME Course), Harvard Medical School, Cambridge, MA 2006

Invited Presentation, “Off-Pump Coronary Artery Bypass Surgery,” Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2006

Invited Presentation, “Congenital Heart Disease: From Child to Adult,” Horizons 2004 Critical Care Symposium, Manchester, NH, 2006

Invited Presentation, “HeartMate II: New Hope for the Failing Heart,” Northeast Cardiothoracic Surgical Society Annual Meeting, Boston, MA, 2006

Invited Presentation, “Options for Aortic Arch Replacement,” American Association of Thoracic Surgeons 86th Annual Meeting, Philadelphia, PA, 2006

Invited Presentation, “Coronary Artery Bypass Grafting into the 21st Century,” XXXIX Congreso Venezolano de Cardiología, Caracas, Venezuela, 2006

Invited Presentation, “Current State of Coronary Artery Bypass Surgery,” XXXIX Congreso Venezolano de Cardiología, Caracas, Venezuela, 2006

Invited Presentation, “Ischemic Mitral Regurgitation,” XXXIX Congreso Venezolano de Cardiología, Caracas, Venezuela, 2006

Invited Presentation, “Surgical Management of the Complications of Myocardial Infarction,” XXXIX Congreso Venezolano de Cardiología, Caracas, Venezuela, 2006

Invited Presentation, “Mechanical Circulatory Support,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2007

Invited Presentation, “Mechanical Circulatory Support,” Massachusetts General Hospital Department of Medicine, Cardiology Grand Rounds, 2007

Invited Presentation, “Mechanical Circulatory Support,” University of Massachusetts Medical Center Cardiac Surgery/Cardiology Conference, Worcester, MA, 2007

Instructor, STS University: Mechanical Circulatory Support, Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, 2007

Invited Presentation, “Post Cardiectomy Support,” Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, 2007

Invited Presentation, "Complications of Mechanical Circulatory Support: The Big Three," Society of Thoracic Surgeons 43rd Annual Meeting, San Diego, CA, 2007

Moderator, Cardiac Surgery: Coronary Artery Disease I, American Heart Association Scientific Sessions 2007, Orlando, FL, 2007

Invited Presentation, "Aortic Stenosis," American College of Cardiology 56th Annual Scientific Session, New Orleans, LA, 2007

Invited Presentation, "Surgical Treatment of Thoracic Aortic Disease," XXXX Congreso Venezolano de Cardiologia, Caracas, Venezuela, 2007

Invited Presentation, "Mechanical Support of the Circulation," XXXX Congreso Venezolano de Cardiologia, Caracas, Venezuela, 2007

Invited Presentation, "Management of Thoracic Vascular Trauma," General Thoracic Surgery (CME Course), Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Aortic Trauma," General Thoracic Surgery (CME Course), Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Cannulation Strategies for Bypass," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Initiation of Cardiopulmonary Bypass," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Cold Cardioplegia," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Surgical Management of Coarctation and Interrupted Aortic Arch Anomalies," Morphology in Congenital Heart Disease with Imaging and Surgical Correlation (CME Course), MassGeneral Hospital for Children, Harvard Medical School, Boston, MA, 2008

Invited Presentation, "Pulmonary Valve Replacement: Coming of Age," Northeast Cardiothoracic Surgery Society Annual Meeting, Center Ossipee, NH, 2008

Moderator, Mechanical Circulatory Support: Crash and Burn, International Society for Heart & Lung Transplantation 28th Annual Meeting and Scientific Sessions, Boston, MA, 2008

Invited Presentation, "Heart Failure: Man vs. Machine," Massachusetts General Hospital Department of Surgery Grand Rounds, 2009

Invited Presentation, "Cannulation Strategies for Bypass," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, "Cardiopulmonary Bypass Emergencies," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, "Myocardial Protection," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, "Separation from Cardiopulmonary Bypass," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, "Case Studies in Aortic Disease and Dissection," Update and Review of Echocardiography (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, “Case Studies in Acute Aortic Disease,” Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2009

Invited Presentation, “Coronary Artery Fistula and Aneurysm: Case Studies,” Department of Cardiology Cardiac Cath Conference, Lowell General Hospital, Lowell, MA, 2009

Instructor, STS University: Mechanical Circulatory Support for Cardiogenic Shock – Adult, Society of Thoracic Surgeons 45th Annual Meeting, San Francisco, CA, 2009

Invited Presentation, “Pulmonary Valve Replacement: Coming of Age,” Southeast Cardiothoracic Surgery Society, Kimball, SD, 2009

Invited Presentation, “Case Studies in Acute Aortic Disease,” Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2010

Invited Presentation, “HeartMate II Update,” Southeast Cardiothoracic Surgery Society, Kimball, SD, 2010

Invited Presentation, “Cannulation Strategies for Bypass,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2011

Invited Presentation, “Cardiopulmonary Bypass Emergencies,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2011

Invited Presentation, “Myocardial Protection,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2011

Invited Presentation, “Separation from Cardiopulmonary Bypass,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2011

Invited Presentation, “Case Studies in Acute Aortic Disease,” Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2011

Course Co-Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 47th Annual Meeting, San Diego, CA, 2011

Invited Presentation, “Left Ventricular Assist Devices,” Viewpoints: 2nd Annual Cardiovascular Symposium at Holy Cross Hospital, Fort Lauderdale, FL, 2011

Invited Presentation, “Off-Pump Coronary Artery Bypass,” Viewpoints: 2nd Annual Cardiovascular Symposium at Holy Cross Hospital, Fort Lauderdale, FL, 2011

Invited Presentation, “Cannulation Strategies for Bypass,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2012

Invited Discussant, Quality, Outcomes, and Costs I: A Predictive Model for Readmission within 30 Days after Coronary Artery Bypass Grafting, American College of Surgeons 97th Annual Clinical Congress, San Francisco, CA, 2011

Invited Presentation, “Adult Congenital Heart Disease,” Massachusetts General Hospital Department of Surgery Grand Rounds, 2012

Invited Presentation, “Cardiopulmonary Bypass Emergencies,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2012

Invited Presentation, “Myocardial Protection,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2012

Invited Presentation, "Separation from Cardiopulmonary Bypass," Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2012

Invited Presentation, "Case Studies in Acute Aortic Disease," Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2012

Moderator, STS/SCA: Intraoperative Echo and Decision Making in Cardiovascular Surgery, Session I: Basics of Intraoperative Echocardiography, Society of Thoracic Surgeons 48th Annual Meeting, Fort Lauderdale, FL, 2012

Course Co-Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 48th Annual Meeting, Fort Lauderdale, FL, 2012

Course Co-Director, STS University Course: ICU/Echo, Society of Thoracic Surgeons 48th Annual Meeting, Fort Lauderdale, FL, 2012

Invited Presentation, "Decision Making in Thoracic Aortic Surgery," STS/SCA: Intraoperative Echo and Decision-Making in Cardiovascular Surgery, Society of Thoracic Surgeons 48th Annual Meeting, Fort Lauderdale, FL, 2012

Moderator, Adult Cardiac Session: Aorta, Society of Thoracic Surgeons 48th Annual Meeting, Fort Lauderdale, FL, 2012

Invited Presentation, "Valve Surgery: Repair vs. Replace, Open vs. Minimally Invasive," Third Annual Cardiovascular Symposium: Collaboration at Holy Cross Hospital, Fort Lauderdale, FL, 2012

Invited Presentation, "Left Ventricular Assist Devices (LVAD) and Transplantation," Third Annual Cardiovascular Symposium: Collaboration at Holy Cross Hospital, Fort Lauderdale, FL, 2012

Invited Presentation, "Mechanical Circulatory Support," University of Missouri Department of Surgery Grand Rounds, Columbia, MO, 2012

Invited Presentation, "Case Studies in Acute Aortic Disease," Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2013

Course Co-Director, Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, American College of Surgeons 99th Annual Clinical Congress, Washington, DC, 2013

Instructor, Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, Aortic Valve and Aortic Root Replacement Station, American College of Surgeons 99th Annual Clinical Congress, Washington, DC, 2013

Moderator, Surgical Motion Pictures Matinee: Adult Cardiac, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Course Co-Director, STS University Course: ICU/Echo, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Course Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Instructor, STS Cardiopulmonary Bypass Simulation Course, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Invited Discussant, Plenary Scientific Session: "Parameters for Successful Nonoperative Management of Traumatic Aortic Injury," Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Instructor, STS Cardiopulmonary Bypass Simulation Course, Society of Thoracic Surgeons 49th Annual Meeting, Los Angeles, CA, 2013

Invited Presentation, “Surgical Perspective on Left Main Complex Disease: When Is CABG Best and When Do I Suggest an Alternative Approach?”, Society for Cardiovascular Angiography and Interventions 2013 Scientific Session, Orlando, FL, 2013

Invited Presentation, “Left Main Coronary Artery Disease: Is CABG Still the Best Option?”, Southeast Cardiac Surgery Society, Kimball, SD, 2013

Invited Presentation, “Cardiopulmonary Bypass Simulation Scenarios,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2014

Invited Presentation, “Surgical Management and Long-Term Sequelae in Congenital Heart Disease,” Massachusetts General Hospital Adult Congenital Heart Disease, Harvard Medical School CME Course, Boston, MA, 2014

Panel Member, Society of Thoracic Surgeons Choosing Wisely Round Table, Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Course Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Instructor, STS Cardiopulmonary Bypass Simulation Course, Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Abstract Oral Presentation, “Contemporary Surgical Approaches and Outcomes in Adults with Kommerell Diverticulum,” Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Invited Presentation, “Bicuspid Aortic Valve Insufficiency with Proximal Aortic Aneurysm: Valve-Sparing Root Replacement vs. Bio Root and Bridge to TAVR Valve-in-Valve: Bio Root,” Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Course Co-Director, Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, American College of Surgeons 100th Annual Clinical Congress, San Francisco, CA, 2014

Moderator, Adult Cardiac Session: Aortic Valve, Society of Thoracic Surgeons 50th Annual Meeting, Orlando, FL, 2014

Panel Member, Controversies in Cardiology: Advanced Therapies in Mechanical Circulatory Support, American Heart Association Founders Affiliate Cardiology Fellows Meeting, Boston, MA, 2014

Invited Presentation, “Adult Congenital Heart Disease,” Southeast Cardiac Surgery Society, Kimball, SD, 2014

Invited Presentation, “Cardiopulmonary Bypass Simulation Scenarios,” Massachusetts General Hospital Cardiopulmonary Bypass Course (CME Course), Harvard Medical School, Boston, MA, 2015

Invited Presentation, “Case Studies: Thoracic Aortic Disease,” Update in Clinical Cardiology (CME Course), Harvard Medical School, Boston, MA, 2015

Invited Presentation, “Valvular Disease in ACHD: Timing and Options,” Massachusetts General Hospital Adult Congenital Heart Disease, Harvard Medical School CME Course, Boston, MA, 2015

Invited Presentation, “Anomalous Aortic Origin of the Coronary Arteries: What, Who, When,” Northeast Cardiac Surgical Society, Effingham, NH, 2015

Course Co-Director, Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, American College of Surgeons 101st Annual Clinical Congress, 2015

Course Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Moderator, Acquired and Congenital Heart Surgery Symposium: Challenges and Management of the Aorta in Adults with Congenital Heart Disease, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Invited Presentation, "Management of Aortic Arch Aneurysms: How Should It Be Done in Extreme Risk Patients?: Total Open," Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Invited Discussant, The Impact of Modifiable Clinical Variables on Length of Stay Following First-Time Cardiac Surgery, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Moderator, Adult Cardiac Session: General I, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Instructor, STS Cardiopulmonary Bypass Simulation Course, Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA, 2015

Invited Discussant, Non-Selective Carotid Artery Ultrasound Screening in Patients Undergoing Coronary Artery Bypass Grafting: Is It Necessary?, American Association for Thoracic Surgery 95th Annual Meeting, Seattle, WA, 2015

Invited Presentation, "Pulmonary Valve Replacement for Tetralogy of Fallot," Southeast Cardiac Surgery Society, Kimball, SD, 2015

Invited Faculty, Cardiac: Cardiopulmonary Bypass Station, Thoracic Surgery Directors Association Boot Camp 2015, Chapel Hill, NC, 2015

Invited Presentation, "Surgical Treatment of Anomalous Coronary Arteries," Massachusetts General Hospital Adult Congenital Heart Disease, Harvard Medical School CME Course, Boston, MA, 2016

Moderator, Adult Cardiac Session: Aorta II, Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix, AZ, 2016

Instructor, STS Cardiopulmonary Bypass Simulation Course, Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix, AZ, 2016

Course Co-Director, STS Cardiopulmonary Bypass Hands-on Simulation Course, Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix, AZ, 2016

Course Co-Director, Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, American College of Surgeons 102nd Annual Clinical Congress, Washington, DC, 2016

Invited Presentation, "Advances in Surgery for Adults with Congenital Heart Disease," 2nd Annual Adult Congenital Heart Symposium, Houston Methodist DeBakey Heart and Vascular Center, Houston, TX, 2016

Invited Faculty, Cardiac: Cardiopulmonary Bypass Station, Thoracic Surgery Directors Association Boot Camp 2016, Chapel Hill, NC, 2016

Moderator, ECMO Session, The 25th Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Seoul, Korea, 2017

Moderator, Cardiovascular Issues, 14th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference, Washington, DC, 2017

Moderator, Anticoagulation and Coagulopathies, 14th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference, Washington, DC, 2017

Moderator, Infection in CVT Patients – Prevention and Management, 14th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference, Washington, DC, 2017

Invited Presentation, “Aortic Preoperative Surgical Postoperative Management,” 14th Annual Multidisciplinary Cardiovascular and Thoracic Critical Care Conference, Washington, DC, 2017

Moderator, Late Breaking Session, Society of Thoracic Surgeons 53rd Annual Meeting, Houston, TX , 2017

Moderator, Adult Cardiac Surgery Session, Society of Thoracic Surgeons 53rd Annual Meeting, Houston, TX , 2017

Invited Discussant, TAVR for Aortic Stenosis in Low Risk Patients: Madness, Society of Thoracic Surgeons 53rd Annual Meeting, Houston, TX, 2017

Invited Discussant, First Scientific Session, 64th Annual Southern Thoracic Surgery Association, San Antonio, TX, 2017

Invited Discussant, Transcatheter versus Surgical AV Replacement in Patients with Prior Mitral Valve Surgery, 97th Annual American Association for Thoracic Surgery Meeting, Boston, MA, 2017

Invited Presentation, “TAVR Madness,” 16th Annual Southeastern Cardiovascular Society Symposium, Kimball, SD, 2017

Invited Presentation, “Can We Surgically Cure Atrial Fibrillation in ACHD?” 66th Annual American College of Cardiology Scientific Session & Expo, Washington, DC, 2017

Invited Presentation, “Aortic Valve Repair, When & How,” Adult Congenital Heart Association 8th National Conference, Orlando, FL, 2017

Invited Presentation, “Treatment of Aortic Diseases: Who & How,” Texas Chapter Annual Meeting, San Antonio, TX, 2017

Invited Presentation, “Cerebral Protection for Aortic Arch Surgery,” 2017 Chinese Society of Thoracic and Cardiovascular Surgery Annual Meeting, Hangzhou, China, 2017

Panel Member, Thoracic Discussion II: Devices for Right Ventricular Failure, George P. Noon Advanced Heart Failure Conference, Houston, TX, 2017

Invited Presentation, “Strategies for Acute Aortic Dissection,” Citizen’s Medical Center Grand Rounds, Victoria, TX, 2018

Invited Presentation, “Surgery for Valvular Disease,” Houston Methodist Hospital Cardiovascular Fellows Bootcamp, Houston, TX, 2018

Invited Presentation, “Protocols to Improve Outcomes,” Houston Methodist Hospital Cardiovascular Fellows Bootcamp, Houston, TX, 2018

Invited Discussant, Heart Transplant Procedure, Houston Methodist Hospital Cardiovascular Fellows Bootcamp, Houston, TX, 2018

Invited Discussant, Thoracic Aortic Surgery, Houston Methodist Hospital Cardiovascular Fellows Bootcamp, Houston, TX, 2018

Invited Presentation, “Surgical Strategies for Management of Aortic Dissection,” Boston University Grand Rounds, Boston, MA, 2018

Invited Debate, All Fixed Up: Unroofing the AAOCA Makes Me Safe to Play (Pro), 67th Annual American College of Cardiology Scientific Session & Expo, Orlando, FL, 2018

Invited Presentation, “Marfan’s Cardiovascular Complications,” Saudi Heart Association, Riyadh, Saudi, 2018

Invited Presentation, “Surgical Strategies for Management of Aortic Dissection,” Saudi Heart Association, Riyadh, Saudi, 2018

Invited Presentation, “Aortic Surgery in the Current Era,” Saudi Heart Association, Riyadh, Saudi, 2018

Invited Presentation, “Surgical Strategies for Management of Aortic Dissection,” Asian Society for Cardiovascular & Thoracic Surgery 26th Annual Meeting, Hangzhou, China, 2018

Invited Presentation, “Adult Congenital Heart Disease, Coming of Age,” Beth Israel Deaconess Medical Center Grand Rounds, Boston, MA, 2018

Moderator, Critical Care, Society of Thoracic Surgeons 55th Annual Meeting, San Diego, CA, 2019

Invited Presentation, “Adult Congenital Heart Disease Symposium: Planning in the Future: Aortic Arch Anomalies and The Failing Fontan,” Society of Thoracic Surgeons 55th Annual Meeting, San Diego, CA, 2019

Panel Member, Cardiogenic Shock, Pulmonary Embolism, and Acute Heart Failure: Modern Rescue Therapy with ECMO, Society of Thoracic Surgeons 55th Annual Meeting, San Diego, CA, 2019

Invited Presentation, “History of Cardiopulmonary Bypass,” 38th Annual Meeting of the Association of Physician Assistants in Cardiothoracic and Vascular Surgery, Miami, FL, 2019

Panel Member, The Year in Review: The Very Best of the CT Perioperative Publications, 99th Annual American Association for Thoracic Surgery Meeting, Toronto, Canada, 2019

Invited Presentation, “The Impact of Prolonged Intensive Care Stay in Quality of Life, Recovery and Clinical Outcomes Following Cardiac Surgery: Prospective Cohort Study,” 99th Annual American Association for Thoracic Surgery Meeting, Toronto, Canada, 2019

Invited Discussant, Percutaneous Valve Interventions in Heart Failure, Houston Methodist Hospital Fourth Annual Heart Failure Summit, Houston, TX, 2019

Invited Presentation, “Advancing the Culture of Quality and Safety,” 13th Michael E. DeBakey Invited Lectureship, Houston Methodist Hospital, Houston, TX, 2021

Invited Presentation, “Adult Congenital Heart Disease,” Houston Methodist Hospital Transplant Task Force Meeting, Houston, TX, 2022

Invited Presentation, “Recurrent Coarctation in Patient with Aneurysm and High-Risk Features: Surgical Perspective,” American College of Cardiology 71st Annual Scientific Session, Washington, DC., 2022

Invited Presentation, “Ascending Aortic Reconstruction: Bentall and Beyond,” 41st Annual Meeting of the Association of Physician Assistants in Cardiothoracic and Vascular Surgery, Miami, FL, 2022

Moderator, Society of Thoracic Surgeons 19th Annual Perioperative and Critical Care Conference, Denver, CO, 2022

Invited Presentation, “Type B Aortic Dissection Guidelines... and Your Guide to Guidelines,” 53rd Annual Dinner Meeting of the New Jersey Society of Thoracic Surgeons, Springfield, NJ, 2022

Moderator, “Late Breaking Clinical Trials 1,” 36th Annual Meeting European Association for Cardio-Thoracic Surgery, Milan, Italy, 2022

Invited Presentation, “The Evidence Guiding Management of Type B Aortic Dissection,” American College of Surgeons Clinical Congress 2022, San Diego, CA, 2022

Keynote Speaker, “The Evolving Role of Surgery in the Treatment of Advanced Heart Failure,” 5th Annual MedStar Heart Failure Summit, Washington, DC, 2022

Invited Presentation, “Aortic Valve Sparing Root Replacement: Remodel or Re-implant?” Society of Thoracic Surgeons/European Association for Cardio-Thoracic Surgery Latin American Cardiovascular Surgery Conference, Cartagena, Columbia, 2022.

Invited Speaker, Delaware Valley Chapter of The Society of Thoracic Surgeons Quarterly Meeting, King of Prussia, Pennsylvania, 2022.

Invited Presentation, “Management of Type B Aortic Dissection.” Cardiology Grand Rounds, Anne Arundel Medical Center, Annapolis, Maryland, 2022.

Invited Presentation, “Post-Infarction Ventricular Septal Defect: Then and Now.” The Society of Thoracic Surgeons 59th Annual Meeting, San Diego, California, 2023.

Invited Presentation, “Introduction of the President”, The Society of Thoracic Surgeons 59th Annual Meeting, San Diego, California, 2023.

Moderator, “Ask the Experts: Calamitous Clinical Cases” The Society of Thoracic Surgeons 59th Annual Meeting, San Diego, California, 2023.

Invited Presentation, “Management of Post-Infarction Ventricular Septal defects” Cardiac Surgery Grand Rounds, MedStar Washington Hospital Center, Washington, DC, 2023

Moderator, “Late-Breaking Trials: Session II” Cardiovascular Research Technologies (CRT) 2023, Washington, DC, 2023.

Invited Discussant, 405: Joint American College of Cardiology/New England Journal of Medicine Late-Breaking Clinical Trials. “Minimally Invasive versus Conventional Sternotomy for Mitral valve Repair Surgery: An Expertise Based Multicentre Randomised Controlled Trial (UK Mini Mitral)”, American College of Cardiology World Heart Federation Annual Meeting, New Orleans, Louisiana, 2023

D. Editorships, Editorial Boards, and Reviewing Activities

Associate Editor, Annals of Thoracic Surgery, 2010-2012

Deputy Editor, Annals of Thoracic Surgery, 2012-2017

Editorial Board, Annals of Thoracic Surgery, 2017-present

Editorial Board, Methodist DeBakey Cardiovascular Journal, 2017-present

3. TEACHING, MENTORING, AND ADVISING

A. Teaching Activities

i. Medical School Courses

Course Name: Introduction to Clinical Medicine, Harvard Medical School

Role: Instructor

Number of Direct* Contact Hours: 30 hours each year

Year(s) Taught: 1998-2006

Number of Students: 2-3 medical students each year

Course Name: Advanced Trauma Life Support, Harvard Medical School

Role: Instructor

Number of Direct* Contact Hours: 10 hours each year

Year(s) Taught: 1998-2008

Number of Students: 50 surgical residents

Course Name: Advanced Trauma Operative Management, Harvard Medical School

Role: Instructor

Number of Direct* Contact Hours: 10 hours each year

Year(s) Taught: 2003-2010

Number of Students: 10 surgical residents

Course Name: Cardiopulmonary Bypass Course, Harvard Medical School

Role: Course Co-Director (2008, 2011, 2012, 2014, 2015), Course Director (2009)

Number of Direct* Contact Hours: 25 hours each year

Year(s) Taught: 2008, 2009, 2011, 2012, 2014, 2015

Number of Students: 50 medical students, residents, and fellows

Course Name: Cardiothoracic Surgery in the Future: Technology Overview for Residents and Medical Students, sponsored by The Society of Thoracic Surgeons at The American College of Surgeons Clinical Congress

Role: Course Co-Director

Number of Direct* Contact Hours: 4 hours each year

Year(s) Taught: 2013, 2014, 2015, 2016

Number of Students: 75 medical students and residents

ii. Medical School Clerkships

Average number of Clinical Fellows you train per year = 10

Average number of Residents you train per year = 25

Average number of Medical students you train per year = 25

iii. Graduate Courses

Course Name: General Thoracic Surgery, Harvard Medical School

Role: Invited Lecturer

Number of Direct* Contact Hours: 4 hours each year

Year(s) Taught: 2001, 2003-2004, 2008

Number of Attendees: 200

Course Name: Advanced Heart and Lung Disease: Transplantation and Alternative Treatment Strategies, Harvard Medical School

Role: Invited Lecturer

Number of Direct* Contact Hours: 4 hours each year

Year(s) Taught: 2004, 2006

Number of Attendees: 150

Course Name: Update and Review of Echocardiography, Harvard Medical School

Role: Invited Lecturer

Number of Direct* Contact Hours: 4 hours each year

Year(s) Taught: 2004, 2009

Number of Attendees: 150

Course Name: Update in Clinical Cardiology, Harvard Medical School

Role: Invited Lecturer

Number of Direct* Contact Hours: 6 hours each year

Year(s) Taught: 2006, 2009, 2010, 2011, 2012, 2013, 2015

Number of Attendees: 400

Course Name: Morphology in Congenital Heart Disease with Imaging and Surgical Correlation, Harvard Medical School

Role: Invited Lecturer

Number of Direct* Contact Hours: 4 hours

Year(s) Taught: 2008

Number of Attendees: 75

Course Name: Adult Congenital Heart Disease, Massachusetts General Hospital, Harvard Medical School

Role: Course Co-Director

Number of Direct* Contact Hours: 20 hours each year

Year(s) Taught: 2014, 2015

Number of Attendees: 300

Course Name: Houston Methodist Hospital Fellows Boot Camp, Weill Cornell Medicine

Role: Instructor

Number of Direct* Contact Hours: 5 hours each year

Year(s) Taught: 2017, 2018

Number of Attendees: 300

Course Name: STS Multi-Disciplinary Cardiovascular and Thoracic Critical Care Conference, The Society of Thoracic Surgeons

Role: Course Co-Director (2017, 2018, 2021), Course Director (2019, 2020)

Number of Direct* Contact Hours: 10 hours each year

Year(s) Taught: 2017, 2018, 2019, 2020, 2021

Number of Attendees: 300

iv. Graduate Clinical Teaching (Residents, Fellows)

Massachusetts General Hospital Cardiothoracic Surgery Resident Didactic Sessions

“Overview of Congenital Heart Disease,” 09/2007

“Interrupted Aortic Arch/Vascular Rings/Coarctation/Patent Ductus/Arteriosus,” 11/2007

“Transposition,” 12/2007

“Off-Pump CABG,” 02/2008

“Thoracic Aortic Aneurysms – Surgical Techniques,” 04/2008

“Thoracic Aortic Dissections: Chronic Phase Complications,” 05/2009

“Perfusion Strategies for Aortic Arch Replacement,” 07/2009

“Aortic Stenosis,” 08/2009

“Congenital Heart Disease,” 10/2009

“Combined Valve and CABG Operations: Valve Choice,” 11/2009

“Hypertrophic Obstructive Cardiomyopathy, Idiopathic Hypertrophic Subaortic Stenosis: Diagnosis and Treatment,” 12/2009

“Cardiac Tumors,” 02/2010

“Critical Care: Pharmacologic Support for Low Cardiac Output,” 03/2010

“Endocarditis,” 05/2010

“Heart Re-transplantation: Adult and Pediatric,” 06/2010

“Mechanical Circulatory Support,” 08/2010

“Aortic Root and Valve Repair,” 09/2010

“Coronary Artery Disease: Clinical Outcomes,” 11/2010

“Descending Thoracic Aneurysms and Traumatic Injuries,” 12/2010

“Perfusion Strategies for Aortic Arch Replacement,” 03/2011

“Complications after Mitral Valve Replacement and Repair,” 06/2011

“Tricuspid Valve Repair and Replacement,” 08/2011

“Atrial Septal Defect and Partial Anomalous Pulmonary Venous Return,” 10/2011

“Total Anomalous Pulmonary Venous Connection,” 11/2011
“Transposition and Tetralogy of Fallot/Right Ventricular Outflow Tract Obstruction,” 12/2011
“Atrial Septal Defects, 01/2012”
“Aortic Dissection,” 03/2013
“Tetralogy of Fallot,” 05/2013
“Arch Anomalies, Coarctation, and Patent Ductus Arteriosus,” 06/2013
“Coarctation and Patent Ductus Arteriosus,” 08/2014
“Adult Congenital Heart Disease,” 09/2014
“Truncus Arteriosus,” 10/2014
“Tetralogy of Fallot,” 11/2014
“Atrial Septal Defect,” 12/2014
“Ventricular Septal Defect,” 02/2015
“Great Vessel Disease I: Vascular Pathology and Imaging Interpretation,” 05/2015

Massachusetts General Hospital General Surgery Resident Didactic Sessions

“Thoracic Aortic Disease,” 11/2010
“Congenital Heart Disease,” 11/2012

v. Undergraduate Courses

N/A

vi. Teaching Recognition/Awards (include both nominations and awards)

N/A

B. Mentoring:

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Edwin C. McGee, M.D.

Dates of Mentorship: 1996-present

Outcomes:

1. Obtained Cardiothoracic Surgery Residency position, Massachusetts General Hospital
2. Obtained Attending Cardiothoracic Surgeon position, ultimately rising to Professor of Cardiac Surgery, Loyola Medical Center, Maywood, IL

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Karen M. Kim, M.D., M.S.

Dates of Mentorship: 2006-present

Outcomes:

1. Obtained Cardiothoracic Surgery Residency position, University of Pennsylvania
2. Obtained Assistant Professor of Cardiac Surgery position, University of Michigan, Ann Arbor, MI
3. Appointed to several influential workforce and taskforce positions within the Society of Thoracic Surgeons
 - a. Vice Chair, Workforce on Annual Meeting
 - b. Chair, Taskforce on Public Reporting

- c. Board of Advisors, STS Political Action Committee
 - d. Member, Workforce on Adult Cardiac and Vascular Surgery
 - e. Member, Quality Measurement Taskforce
 - f. Member, Aortic Database Taskforce
 - g. Member, Curriculum Taskforce
4. Joint Publications:
- a. **Kim KM**, MacGillivray TE. Cardiothoracic surgery. In: Berger DL, ed., Oxford American Handbook of Surgery. New York: Oxford University Press, Inc.;2009. pp. 457-81.
 - b. **Kim KM**, Cambria RP, Isselbacher EM, Baker JN, LaMuraglia GM, Stone JR, MacGillivray TE. Contemporary surgical approaches and outcomes in adults with Kommerell diverticulum. Ann Thorac Surg 2014;98(4):1347-54.
 - c. **Kim KM**, MacGillivray TE. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (11th Ed.). Philadelphia: Elsevier Saunders;2014. pp. 807-11.
 - d. **Kim KM**, MacGillivray TE. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (12th Ed.) Philadelphia: Elsevier Saunders;2016. Chapter 170.
 - e. MacGillivray TE, **Kim KM**. Aortic Arch Aneurysms. STS Cardiothoracic Surgery E-Book. https://ebook.sts.org/sts/view/Cardiac-and-Congenital/1864004/all/Aortic_Arch_Aneurysms Unbound Medicine, 2020.
 - f. **Kim KM**, MacGillivray TE. The management of acute aortic dissections. In: Cameron JL and Cameron AM, eds., Current Surgical Therapy (13th Ed.) Philadelphia: Elsevier Saunders; (in press).

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Joshua N. Baker, M.D.

Dates of Mentorship: 2007-present

Outcomes:

- 1. Obtained Attending Cardiovascular Surgeon position, Missouri Baptist Medical Center, St. Louis, MO
- 2. Joint Publications:
 - a. Kim KM, Cambria RP, Isselbacher EM, **Baker JN**, LaMuraglia GM, Stone JR, MacGillivray TE. Contemporary surgical approaches and outcomes in adults with Kommerell diverticulum. Ann Thorac Surg 2014;98(4):1347-54.

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Ajit Tharakan, M.D.

Dates of Mentorship: 2008-present

Outcomes: Obtained Chief of Cardiac Surgery position, University of Missouri, Columbia, MO

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: John Craig, M.D.

Dates of Mentorship: 2009-present

Outcomes: Obtained Attending Cardiothoracic Surgeon position, Chattanooga Heart Institute, Chattanooga, TN

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Joshua Goldberg, M.D.

Dates of Mentorship: 2011-present

Outcomes:

1. Obtained Attending Cardiovascular Surgeon position, Westchester Medical Center, Westchester, NY
2. Appointed to Society of Thoracic Surgeons Workforce on Annual Meeting

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Karl Limmer, M.D.

Dates of Mentorship: 2012-present

Outcomes: Obtained Attending Cardiac Surgeon position, Sharp Cardiovascular and Thoracic Center, San Diego, CA

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Eric Feins, M.D.

Dates of Mentorship: 2013-present

Outcomes:

1. Obtained Integrated 4/3 Thoracic Surgery Residency position, Massachusetts General Hospital
2. Obtained Congenital Cardiac Fellowship position, Boston Children's Hospital
3. Obtained Congenital Surgeon position, Boston Children's Hospital, Boston, MA
4. Appointed to Society of Thoracic Surgeons Workforce on Annual Meeting
5. Joint Publications:
 - a. **Feins EN**, DeFaria Yeh D, Bhatt AB, Stefanescu A, Youniss MA, Ghoshhajra BB, Inglessis-Azuaje I, Liberthson RR, MacGillivray TE. Anomalous aortic origin of a coronary artery: surgical repair with anatomic- and function-based follow-up. *Ann Thorac Surg* 2016 Jan;101(1):169-76. doi: 10.106/j.athoracsur.2014.07.003. PMID: 26428691.

Mentor: Thomas E. MacGillivray, M.D.

Name of Mentee: Phillip J. Spencer, M.D.

Dates of Mentorship: 2013-present

Outcomes:

1. Obtained Integrated 4/3 Thoracic Surgery Residency position, Massachusetts General Hospital
2. Obtained Transplant Fellowship position, Duke University
3. Obtained Attending Cardiac Surgeon position, Mayo Clinic, Rochester, MN

4. SERVICE

A. University Service:

i. Department

Section Chief, Pediatric Cardiac Surgery, Massachusetts General Hospital, Boston, MA, 2000-2007

Director, Mechanical Circulatory Support, Massachusetts General Hospital, Boston, MA, 2000-2012

Physician Leader, Clinical Performance Management Committee (Cardiac Group), Massachusetts General Hospital, Boston, MA, 2002-2006

Medical Director, Perfusion Services, Massachusetts General Hospital, Boston, MA, 2007-2016

Surgical Director, Adult Congenital Heart Disease Program, Massachusetts General Hospital, Boston, MA, 2010-2016

Clinical Competency Committee, Massachusetts General Hospital Thoracic Surgery Residency Program, Boston, MA, 2014-2016

Department of Surgery Compensation Committee, Massachusetts General Hospital, Boston, MA, 2015-2016

Chair, Department of Surgery Compensation Plan Advisory Committee, Massachusetts General Hospital, Boston, MA, 2015-2016

Chief, Division of Cardiac Surgery & Thoracic Transplant Surgery, Houston Methodist Hospital, Houston, TX, 2016- 2022

ii. School

N/A

iii. University

N/A

B. MedStar or Hospital Service

Nominating Committee (Co-Chair, 2008), Massachusetts General Hospital Physicians Organization, Massachusetts General Hospital, Boston, MA, 2007-2008

MGH Heart Center Heart Failure Leadership Committee, Massachusetts General Hospital, Boston, MA, 2008-2012

MGH Transplant Center Clinical Operations Advisory Committee, Massachusetts General Hospital, Boston, MA, 2008-2012

Co-Director, Thoracic Aortic Center, Massachusetts General Hospital, Boston, MA, 2009-2016

Cardiac OR Management Committee, Massachusetts General Hospital Heart Center, Boston, MA, 2012-2016

Clinical Care Committee, Massachusetts General Hospital Heart Center, Boston, MA, 2014-2016

Thoracic Transplant Clinical Medicine Performance Improvement Subcommittee, Houston Methodist Hospital, Houston, TX, 2016-2022

Cardiothoracic & Vascular Medical Staff Quality Management Subcommittee, Houston Methodist Hospital, Houston, TX, 2016-2022

ICU Steering Committee, Houston Methodist Hospital, Houston, TX, 2017-2022

Houston Methodist DeBakey Heart & Vascular Center Education Committee, Houston Methodist Hospital, Houston, TX, 2017-2022

Operating Room Committee, Houston Methodist Hospital, Houston, TX, 2017-2022

Co-Director, Cardiovascular Intensive Care Unit, Houston Methodist Hospital, Houston, TX, 2017

Co-Director, Fondren-Brown Intensive Care Unit, Houston Methodist Hospital, Houston, TX, 2017-2018

Co-Chair, Medical Staff Quality Management Committee (Cardiovascular), Houston Methodist Hospital, Houston, TX, 2017-2022

Medical Staff Quality Management Steering Committee, Houston Methodist Hospital, Houston, TX, 2017-2022

Fondren Brown Operating Room Subcommittee, Houston Methodist Hospital, Houston, TX, 2017-2022

Houston Methodist Transplant Task Force, Houston Methodist Hospital, Houston, TX, 2017-2022

Co-Director, Walter Tower Cardiovascular Intensive Care Unit, Houston Methodist Hospital, Houston, TX, 2018-2022

Medical Director, Perfusion Services, Houston Methodist Hospital, Houston, TX, 2018-2022

Clinical Quality Improvement and Safety Council, MedStar Washington Hospital Center, Washington, DC, 2022-present

Risk Management Claims Committee, MedStar Washington Hospital Center, Washington, DC, 2022-present

MedStar Medical Group Governing Council, MedStar Health, Columbia, MD, 2022-present

C. Professional Service:

Member, International Medical Surgical Urgent Response (IMSURT) Team, National Disaster Medical System, U.S. Department of Health & Humans Services, Washington, DC, 2000-2009

Member, Earthquake Relief Team, National Disaster Medical System, U.S. Department of Health & Human Services, Bam, Iran, 2003-2009

5. HONORS AND AWARDS

Senior Award, Tufts University Alumni Association, 1983

Alpha Omega Alpha Honor Medical Society (President, Tufts Chapter), Tufts University School of Medicine, 1987

Hewlett-Packard Outstanding Medical Graduate Award, Tufts University School of Medicine, 1988

Martin J. Loeb Memorial Prize in Surgery, Tufts University School of Medicine, 1988

Claude E. Welch Fellowship, Massachusetts General Hospital, 1992

Patent, "Method and agents for control and management of labor during pregnancy." U.S. patent 5,508,045 / filed February 18, 1994 / issued April 16, 1996 (www.patentstorm.us/patents/5508045.html)

Calderwood Cardiac Surgical Scholar Award, Massachusetts General Hospital, 2000

Partners in Excellence Award, Massachusetts General Hospital, 2002

Partners in Excellence Award, Massachusetts General Hospital, 2003

Under Secretary's Award, Federal Emergency Management Agency, 2004

Visiting Professor in Cardiac Surgery, University Hospital, Caracas Venezuela, 2005

Partners in Excellence Award, Massachusetts General Hospital, 2006

Visiting Professor in Cardiac Surgery, University Hospital, Caracas Venezuela, 2007

Best Doctors in America, Best Doctors, 2007-2008

Partners in Excellence Award, Massachusetts General Hospital, 2008

Best Doctors in America, Best Doctors, 2009-2010

Who's Who in America, Marquis Who's Who, 2010

Best Doctors in America, Best Doctors, 2010-2011

Best Doctors in America, Best Doctors, 2011-2012

Partners in Excellence Team Award, Massachusetts General Hospital, 2012

Best Doctors in America, Best Doctors, 2012-2013

Partners in Excellence Team Award, Massachusetts General Hospital, 2013

Best Doctors in America, Best Doctors, 2013-2014

6. PROFESSIONAL SOCIETY MEMBERSHIP

1999-2016, International Society for Heart & Lung Transplantation

2000-2016, International Society for Adult Congenital Heart Disease

2000-2020, Northeast Cardiothoracic Surgery Society, President (2012-2013)

2002-present, American College of Surgeons, F.A.C.S.

2003-present, Boston Surgical Society

2003-present, The Society of Thoracic Surgeons, President (2023-2024)

2008-2009, STS Annual Meeting Abstract Selection Committee

2009-present, Commission on Accreditation of Allied Health Education Programs, Commissioner

2008-2011, Workforce on Clinical Education, Associate Chair (2011-2012), Chair (2012-2013)
2009-2015, Workforce on Associate Membership
2009-present, Commission on Accreditation of Allied Health Education Programs, Commissioner
from The Society of Thoracic Surgeons
2009-present, Accreditation Committee-Perfusion Education, STS Representative
2010-2013, Workforce on Annual Meeting
2010-2016, Workforce on Adult Cardiac and Vascular Surgery
2010-2016, Workforce on Surgical Treatment of Adults with Congenital Heart Disease
2011, STS Annual Meeting Poster Grader
2011-2016, STS Annual Meeting Abstract Selection Committee
2012-2016, Council on Education and Member Services Operating Board, Workforce Chair (2012-
2013), Council Chair (2013-2016)
2016-2017, Treasurer-Elect
2016-present, Finance Committee
2016-present, Board of Directors
2016-present, Executive Committee
2017-present, STS INTERMACS Taskforce
2017-present, Cardiovascular Thoracic Critical Care Conference Taskforce
2017-2020, 2022, The Society of Thoracic Surgeons-Political Action Committee (PAC), Board of
Advisors
2017-2022, Treasurer
2018, Chief Executive Officer/Executive Director Search Committee
2019-2021, STS/AATS Clinical Practice Guidelines on Type B Aortic Dissection, Writing
Committee Chair
2019-2021, STS/AATS Cerebral Protection for Aortic Arch Surgery Writing Committee
2021-2022, Second Vice President
2022-2023, First Vice President
2023-2024, President

2004-present, New England Surgical Society

2008-present, American Association for Thoracic Surgery
2013-2014, AATS Abstract Selection Committee
2016-2020, AATS Education Committee

2016, 2017, 2018, 2019, American Board of Thoracic Surgery, Guest Examiner

2018-present, Thoracic Surgery Foundation, Board of Directors

2021, Annals of Thoracic Surgery, Chair, Search Committee for Editor-in-Chief

I certify that this curriculum vitae is a current and accurate statement of my professional record.

Signature: _____ Date: _____