

Muhammad Aftab, MBBS, MD, FACS, FACC

Department of Surgery, Division of Cardiothoracic Surgery
University of Colorado School of Medicine
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MEDICAL LICENSURE & CERTIFICATION

- American Board of Thoracic Surgery (ABTS) (Certificate# 8096)
- American Board of Surgery (ABS) (Certificate# 056774)
- Fellow - American College of Surgeons, 2017
- Fellow - American College of Cardiology (Fellow), 2016
- Colorado Medical Board, 2015 (Active)
- State Medical Board of Ohio, 2014 (Active)
- Texas Medical Board, 2012 (Active)

FACULTY/STAFF POSITIONS

2016 – Present	Assistant Professor in Cardiothoracic Surgery Surgical Director, Lead Extraction Program Department of Surgery Division of Cardiothoracic Surgery University of Colorado, Anschutz Medical Campus Aurora, Colorado Chairman: David Fullerton, MD, FACS
2014-2016	Staff Surgeon- Clinical Associate Advanced Aortic/Endovascular Surgery Department of Thoracic and Cardiovascular Surgery Cleveland Clinic Cleveland, Ohio Chairman: Lars G. Svensson, MD, PhD

RESIDENCY & TRAINING

2013 - 2014	Michael E. DeBakey Department of Surgery Texas Heart Institute/Baylor College of Medicine Thoracic Residency Program, Houston, TX Cardiothoracic Surgery Chief Resident, PGY-8 Division of Cardiothoracic Surgery Program Director: Denton A. Cooley MD, Co-program Director: Joseph S. Coselli, MD
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- 2011 - 2014 Michael E. DeBakey Department of Surgery
Texas Heart Institute/Baylor College of Medicine Thoracic Residency Program,
Houston, TX
Cardiothoracic Surgery Resident
Division of Cardiothoracic Surgery
Program Director: Denton A. Cooley MD,
Co-program Director: Joseph S. Coselli, MD
- 2010 - 2011 Hofstra North Shore-LIJ School of Medicine
North Shore / Long Island Jewish Health System, New Hyde Park, NY
Chief Resident PGY-5
Department of General Surgery
Chairman: Gene F. Coppa MD, FACS
Program Director: Jeffrey M. Nicastro MD, FACS
- 2006 - 2010 North Shore University/ Long Island Jewish Hospital, New Hyde Park, NY
Resident
Department of General Surgery
Chairman: Gene F. Coppa MD, FACS
Program Director: Jeffrey M. Nicastro MD, FACS
- 2004 - 2006 Michael E. DeBakey Department of Surgery
Baylor College of Medicine, Houston, TX
Surgical Research Fellow
Supervisor: David H. Berger, MD, FACS (Professor and
Vice Chair)
- 2004 - 2004 Mayo Hospital / King Edward Medical College, Lahore, Pakistan
Department of General Surgery
FCPS Post-Graduate Trainee
Supervisor: Prof. Muhammad Arshad Cheema, FRCS
- 2002 - 2003 Mayo Hospital / King Edward Medical College, Lahore, Pakistan
Department of Cardiothoracic Surgery
FCPS Post-Graduate Trainee
Supervisor: Dr. Haider Zaman FRCS, FRCS-CTh, FCPS Dr. Amir Ijaz MS
(Associate Professor)
- 2001 - 2002 Ripah International University
Demonstrator, Department of Pathology
Supervisor: Prof. Dr. Muzaffar Ahmad, FRCPATH
- 2000 Mayo Hospital / King Edward Medical College, Lahore, Pakistan
General Surgery/Cardiothoracic Surgery
House Surgeon
Supervisor: Prof. Dr. Mukhtar Ahmad, FRCS
Prof. Dr. Syed Tahir Ahmad Shah, MD, FACS
- 07/1999 - 12/1999 Mayo Hospital / King Edward Medical College, Lahore, Pakistan
Department of Internal Medicine/Cardiovascular Disease
House Physician
Supervisor: Prof. Dr. Tariq Mehmood Malik, MD, FACS/
Prof. Dr. Mumtaz Hasan, MD, FACP, FRCP, FCPS

EDUCATION

1993-1999 King Edward Medical University
Lahore, Pakistan
MBBS/MD

APPOINTMENTS / COMMITTEE MEMBERSHIPS / LEADERSHIP

11/2016 – present Surgical Director, Lead Extraction Program
University of Colorado Anschutz Medical Campus, Aurora, CO

2016 - 2018 STS Representative
Centers for Medicare & Medicaid Services (CMS)
Colorado Medicare Contractor Advisory Committee

2014 Delegate - Society of Thoracic Surgery (STS)
AMA Interim Assembly Meeting
AMA-Resident and Fellow Section's (AMA-RFS)
Hilton Anatole, Dallas, TX November 6-8, 2014

2014 Elected to TSRA Executive Committee
Thoracic Surgery Residents Association (TSRA)
(Session 2014-2015)

2013 Elected to TSRA Executive Committee
Thoracic Surgery Residents Association (TSRA)
(Session 2013-2014)

2102 Member of Education and Projects Committees
Thoracic Surgery Residents Association (TSRA)
(2012 - 2013)

2009 – 2011 Voting Member of Institutional Review Board Committee
Feinstein Institute of Medical Research
North Shore - Long Island Jewish Health System, NY

2009 - 2011 Member of Surgery Resident Selection Committee
North Shore Long Island Jewish Health System, NY

2009 - 2011 Member of Pharmacy & Therapeutics Committee
North Shore Long Island Jewish Health System, NY

2009 - 2011 House Staff Surgical Research Committee
General Surgery Residency Program
North Shore Long Island Jewish Health System, NY

2009 Selected to House Staff Surgical Research Committee
Department of Surgery
North Shore Long Island Jewish Hospital, Manhasset, NY

2001- 2002 Coordinator of the Learning Resource Centre
Ripah International University Medical College
Pakistan

2001- 2002

Staff Editor of Medical College Annual Gazette
Ripah International University Medical College, Pakistan

CLINICAL & RESEARCH INTERESTS

- Spinal cord and visceral protection during aortic surgery
- Techniques of myocardial and cerebral protection during cardiac surgery
- Aortic arch repair
- End organ protection in Thoracoabdominal Aortic Aneurysm (TAAA) Repair
- Total endovascular aortic surgery
- Arrhythmias surgery and Maze procedure
- Surgical outcomes research
- Surgical education/Resident's training

AWARDS / GRANTS

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| 08/2018 | National Institutes of Health
National Institute of Diabetes and Digestive and Kidney Diseases
“Immunoparalysis in AKI after cardiac surgery”
08/01/2018-07/31/2020 (with renewal option after one year)
Grant
Co-investigator |
| 07/2017 | Academic Enrichment Funds Seed Grant Committee (AEF)
“Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After Aortic Surgery”
Grant
Principal Investigator |
| 06/2017 | AATS Graham Foundation
Graham Surgical Investigator
“Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After Aortic Surgery”
07/01/2017 – 06/30/2019
Principal Investigator |
| 04/2014 | AATS -Adult Cardiac Surgery Poster Winner, Third position
2014 Cardiothoracic Surgery Resident Poster Competition
AATS Annual Meeting in Toronto, Canada, April 27-30, 2014 |
| 03/2014 | ACC- Surgeon Council Award
Travel Award
American College of Cardiology Fellow in training (FIT) Award
American College of Cardiology 63rd Annual Scientific Session,
March 28 – 31, Washington, DC |

- 10/2013 Congenital Cardiac Surgery- Section Editor
Operative Dictations in Cardiothoracic Surgery
A project of Thoracic Surgery Resident Association (TSRA)/Thoracic
Surgery Directors Association (TSDA)
- 06/2012 Section Editor, TSRA Journal Club
“Thoracic Aortic Surgery Section”
Thoracic Surgery Residents Association (TSRA)
Published 04/2014 Kindle Edition/Apple app
- 06/2011 Chief Resident Teaching Award, Albert Einstein College of Medicine
(AECOM), Bronx, New York
- 06/2011 Best Clinical Research Paper Award
Annual Research Day
Department of Surgery, Hofstra – LIJ School of Medicine
Manhasset, New York
- 03 / 2011 Travel Fellowship Grant Awarded by Society of Clinical Vascular Surgery
(SCVS) through “SCVS Fellowship Program”
- 12 / 2010 Best Research Presentation Award,
Annual Meeting of American College of Surgeons (ACS), Brooklyn and
Long Island Chapter and Nassau Surgical Society
- 09 / 2009 Voting Member of Institutional Review Board Committee (IRB)
North Shore Long Island Jewish Health System
Feinstein Institute of Medical Research, Manhasset, NY
- 07 / 2009 Recognized by Cambridge Who's Who as a Surgeon Scientist for
leadership and excellence in General Surgery and Research
- 10 / 2008 Selected for Surgical Jeopardy Session
94th Annual Clinical Congress by American College of Surgeons, San
Francisco
1 of 16 residents selected across North America
- 05 / 2006 Poster of Distinction Award
American Gastroenterology Association (AGA)/ Digestive Disease Week
2006
Award given to top 10% posters and abstracts
- 2006 – 2007 Named in 2006-2007 “America’s Registry of Outstanding Professionals”
- 10 / 2005 Scholar in-training Award
American Association of Cancer Research (AACR),
Conference on Colorectal Cancer: Molecular Pathways and Therapies.
One of six awards presented to Research Scholars
- 08 / 2000 Primary Fellow of College of Physicians & surgeons of Pakistan (FCPS-1),
General Surgery and Allied Specialties

1993 – 1999	National Talent Scholarship King Edward Medical College, Lahore, Pakistan (Based on outstanding academic performance)
1993	Best Graduate of the Year Zaka Ashraf Gold Medal Pre-medical, Sadiq Public School Bahawalpur, Pakistan
1993	Bronze Medal (Third Place) Faculty of Science FSc Board of Intermediate & Secondary Education Bahawalpur, Pakistan
1991 – 1993	National Talent Scholarship (Pre-Medical Level) Board of Intermediate & Secondary Education Bahawalpur, Pakistan.
1991	Gold Medal (First Place) Board of Intermediate & Secondary Education Bahawalpur, Pakistan.
1989-1991	Merit Scholarship (High School Level) Board of Intermediate & Secondary Education Bahawalpur, Pakistan
1991	First Place, Best science student Selected from all students in Bahawalpur Division, Pakistan

PROFESSIONAL MEMBERSHIPS

- Fellow, American College of Surgeons (ACS)
- Fellow, American College of Cardiology (ACC)
- Active Member, Association of Academic Surgery (AAS)
- Active Member, Society of Thoracic Surgery (STS)
- Active Member, Western Thoracic Surgical Association (WTSA)
- Active Member, Southern Thoracic Surgery Society (STSA)
- Active Member, Eastern Cardiothoracic Surgical Society (ECTSS)
- Active Member, American Heart Association (AHA)
- Active Member, American Medical Association (AMA)

RESEARCH EXPERIENCE

2004 – 2006	Baylor College of Medicine Michael E. DeBakey Department of Surgery Houston, TX Surgical Research Fellow Supervisor: David H. Berger MD, FACS
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- 2004 Thomas Jefferson University
Department of Surgery/Transplant
Philadelphia, PA
Volunteer Research Assistant
Supervisor: Dr. Hwya Arafat MD, PhD
- 1996 - 1997 Research Dissertation
Mayo Hospital/ King Edward medical College
Department of Community Medicine
Lahore, Pakistan
Supervisor: Prof. Muhammad Maaz (MBBS, FCPS)
1. "Epidemiological survey of Risk factors of Colon Cancer" at the Mayo Hospital
 2. "Epidemiological survey of Diabetes Mellitus" at the Mayo Hospital

INVITED DISCUSSANT / SCIENTIFIC SESSION MODERATOR

1. **ACS Clinical Congress 2018**
Moderator, Cardiac Surgery Session I
ACS Clinical Congress 2018, Boston Convention and Exhibition Center
October 21-23, 2018
2. **Eastern Cardiothoracic Surgical Society 56th Annual Meeting 2018**
Invited Speaker
Monday, October 22, 2018, 11:30 am – 1:00 pm
Clearwater Beach, Florida
3. **ACS Clinical Congress 2017**
Invited Discussant
Scientific Forum 18- Cardiac Surgery II
ACS Clinical Congress 2017, San Diego Convention Center
Tuesday, October 24, 2017, 9:45 am - 11:15 am
4. **Eastern Cardiothoracic Surgical Society 55th Annual Meeting**
Moderator Expert Session II
Friday October 20th, 2017
Omni Amelia Island Plantation Resort in Amelia Island, Florida
5. **ACS Clinical Congress 2016**
Invited Discussant
Scientific Forum 06 – Cardiac Surgery
October 17, 2016, 2:30 PM – 5:45 PM
Walter E. Washington Convention Center, Washington DC

CLINICAL TRIALS / IRB APPROVED RESEARCH PROJECTS

1. **Aortic Trauma Foundation Prospective Blunt Thoracic Aortic Injury Registry.**
Role: Site Principal Investigator 05/2018 – 02/2019
2. **National Institutes of Health-Immunoparalysis in Acute Kidney Injury After Cardiac Surgery.**
Role: Co-Investigator 02/2018 – 02/2019

3. **Registry for Cardiogenic Shock: Utility and Efficacy of Device Therapy (RESCUE)**
Role: Principal Investigator 02/2018 – 02/2019
4. **A Prospective, Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of Preoperative Antithrombin Supplementation in Patients Undergoing High-Risk Cardiac Surgery with Cardiopulmonary Bypass.**
Role: Co-investigator 03/2016
5. **Medtronic PERIcardial SurGical AOrtic Valve ReplacemeNt Pivotal Trial (PERIGON)**
A multi-center, non-randomized trial to determine the safety and effectiveness of the Model 400 aortic valve bioprosthesis in patients with aortic valve disease.
Role: Co-investigator 04/2016
6. **Heart Mate III trial.**
Role: Co-investigator 07/2016
7. **HemoBlast™ Bellows Pivotal Clinical Trial**
Member Data Safety Monitoring Board.
Role: Chair, Clinical Events Committee (CEC) 07/2016 – 11/2017

PUBLICATIONS

Peer-Reviewed Articles:

1. Mohamed Eldeiry, MD, Christian Ghincea, MD, **Muhammad Aftab, MD**, Joseph C. Cleveland, MD, David Fullerton, MD, and T. Brett Reece, MD. Innominate *versus* axillary artery cannulation for the hemiarch repair. *Journal of Surgical Research* Volume 232, December 2018, Pages 234-239 Received 2 March 2018, Revised 1 June 2018, Accepted 1 June 2018, Available online 13 July 2018. <https://doi.org/10.1016/j.jss.2018.06.018>
2. Reece TB, **Aftab M.** Fate of Aortic Arch Following Surgery on Aortic Root and Ascending Aorta in Bicuspid Aortic Valve (Commentary). *Ann Thorac Surg.* 2018 May 22. pii: S0003-4975(18)30704-5. doi: 10.1016/j.athoracsur.2018.04.059. [Epub ahead of print] PMID: 29800540
3. Amrut V. Ambardekar, MD, Mary C.M. Weiser-Evans, PhD, Marcella Li, MS, Suneet N. Purohit, MD, **Muhammad Aftab, MD**, T. Brett Reece, MD, Karen S. Moulton, MD. Coronary Artery Remodeling and Fibrosis with Continuous-Flow Left Ventricular Assist Device Support. *Circ Heart Fail.* 2018;11: e004491. DOI: 10.1161/CIRCHEARTFAILURE.117.004491. PMID: 29724722
4. **Muhammad Aftab, MD**, Frank S. Cikach, BS, Yuanjia Zhu, BS, Jay J. Idrees, MD, Christina M. Rigelsky, MS, Vidyasagar Kalahasti, MD, Eric E. Roselli, MD, Lars G. Svensson, MD, PhD. Loeys-Dietz Syndrome: Intermediate-term Outcomes of Medically and Surgically Managed Patients. *J Thorac Cardiovasc Surg.* pii: S0022-5223(18)31037-7. doi: 10.1016/j.jtcvs.2018.03.172. [Epub ahead of print]. Accepted 2018 Mar 29.
5. Yamanaka K, Eldeiry M, **Aftab M**, Mares J, Ryan TJ, Meng X, Weyant MJ, Cleveland JC Jr., Fullerton DA, Reece TB. Optimized induction of beta common receptor enhances the neuroprotective function of erythropoietin in spinal cord ischemic injury. *J Thorac Cardiovasc Surg.* 2018 Feb 9. pii: S0022-5223(18)30305-2. doi: 10.1016/j.jtcvs.2017.12.132. [Epub ahead of print]. PMID: 29523405
6. Reece TB, **Aftab M.** No need to tailor: Paraplegia risk is intrinsic to complex aortic intervention. *J Thorac Cardiovasc Surg.* 2018 Apr;155(4):1357. doi: 10.1016/j.jtcvs.2017.12.012. Epub 2017 Dec 9. No abstract available. PMID: 29370909

7. El-Sayed Ahmed MM, Hussain O, Ott DA, **Aftab M**. Severe Aortic Valve Stenosis Due to Alkaptonuric Ochronosis. *Semin Cardiothorac Vasc Anesth*. 2017 Jul 1;1089253217720284. doi: 10.1177/1089253217720284. [Epub ahead of print] PubMed PMID: 28709382.
8. Zanotti G, Reece TB, **Aftab M**. Aortic Arch Pathology: Surgical Options for the Aortic Arch Replacement. *Cardiol Clin*. 2017 Aug;35(3):367-385. doi: 10.1016/j.ccl.2017.03.006. Epub 2017 Jun 4. Review. PubMed PMID: 28683908.
9. **Muhammad Aftab**, Jay J. Idrees, Frank Cikach, Jose L. Navia, Donald Hammer, Eric E. Roselli. Open Distal Fenestration of Chronic Dissection Facilitates Endovascular Elephant Trunk Completion: Late Outcomes. *Ann Thorac Surg*. 2017 Dec;104(6):1960-1967. doi: 10.1016/j.athoracsur.2017.05.044. Epub 2017 Sep 19. PMID: 28939200.
10. Eric E. Roselli, Saad M. Hasan, Jay J. Idrees, **Muhammad Aftab**, Matthew J. Eagleton, Venu Menon Lars G. Svensson. Inoperable Patients with Acute Type A Dissection: Are They Candidates for Endovascular Repair? *Interactive Cardiovascular and Thoracic Surgery*, 2017 Oct 1;25(4):582-588. doi: 10.1093/icvts/ivx193. PMID: 28962505
11. **Aftab M**, Plichta RP, Roselli EE. Acute DeBakey Type I Dissection Repair Using Frozen Elephant Trunk the Cleveland Clinic Technique *Semin Cardiothorac Vasc Anesth*. 2017 Sep;21(3):200-205. doi: 10.1177/1089253216676090. Epub 2016 Dec 1. PMID: 28758558
12. Javadikasgari H, Roselli EE, **Aftab M**, Suri RM, Desai MY, Khosravi M, Cikach F, Isabella M, Idrees JJ, Raza S, Tappuni B, Griffin BP, Svensson LG, Gillinov AM, Combined Aortic Root and Mitral Valve Surgery: The Quest to Preserve Both Valves, *The Journal of Thoracic and Cardiovascular Surgery* (2017), doi: 10.1016/j.jtcvs.2017.01.006.
13. **Aftab M**, Cleveland JC Jr, Reece TB. Noteworthy Cardiac Surgical Literature 2016. *Semin Cardiothorac Vasc Anesth*. 2017 Jan 1;1089253216688694. doi: 10.1177/1089253216688694. [Epub ahead of print] PubMed PMID: 28134010.
14. Levack MM, **Aftab M**, Roselli EE, Johnston DR, Soltesz EG, Gillinov AM, Pettersson GB, Griffin B, Grimm R, Hammer DF, Al Kindi AH, Albacker TB, Sepulveda E, Thuita L, Blackstone EH, Sabik JF 3rd, Svensson LG. Outcomes of a Less-Invasive Approach for Proximal Aortic Operations. *Ann Thorac Surg*. 2017 Feb;103(2):533-540. doi: 10.1016/j.athoracsur.2016.06.008. PubMed PMID: 27788942.
15. **Aftab M**, Reece TB. Invited Commentary. *Ann Thorac Surg*. 2016 Aug;102(2):532-3. doi: 10.1016/j.athoracsur.2016.03.002. PubMed PMID: 27449426.
16. Stephens EH, Shah AA, Robich MP, Walters DM, DeNino WF, **Aftab M**, Tchanchaleishvili V, Eilers AL, Rice RD, Goldstone AB, Shelstad RC, Malas T, Cevasco M, Gillaspie EA, LaPar DJ. The Future of the Academic Cardiothoracic Surgeon: Results of the TSRA/TSDA In-Training Examination Survey. *Ann Thorac Surg*. 2016 Aug;102(2):643-50. doi: 10.1016/j.athoracsur.2016.01.106. PubMed PMID: 27131899.
17. Stephens EH, Robich MP, Walters DM, DeNino WF, **Aftab M**, Tchanchaleishvili V, Eilers AL, Rice RD, Goldstone AB, Shlestad RC, Malas T, Cevasco M, Gillaspie EA, Fiedler AG, LaPar DJ, Shah AA. Gender and Cardiothoracic Surgery Training: Specialty Interests, Satisfaction, and Career Pathways. *Ann Thorac Surg*. 2016 Jul;102(1):200-6. doi: 10.1016/j.athoracsur.2016.03.043. PubMed PMID: 27157051.
18. Plichta RP, **Aftab M**, Roselli EE. Current management of aortic arch lesions with hybrid procedures: a tailored approach to a progressive disease. *J Cardiovasc Surg (Torino)*. 2016 Jun;57(3):437-47. Review. PubMed PMID: 26939046.

19. Shah AA, **Aftab M**, Tchanchaleishvili V, LaPar DJ, Stephens EH, Walters DM, DeNino WF, Odell DD, Robich M, Cevasco M, Eilers AL, Gillaspie EA, Goldstone A, Malas T, Rice RD, Shelstad RC, Andersen ND. Characterizing the Operative Experience of Cardiac Surgical Trainees: What Are Residents Really Doing in the Operating Room? *Ann Thorac Surg*. 2016 Jun;101(6):2341-9. doi: 10.1016/j.athoracsur.2015.12.069. PubMed PMID: 27021035.
20. Ghanta RK, Green SY, Price MD, Arredondo CC, Wainwright D, Preventza O, de la Cruz KI, **Aftab M**, LeMaire SA, Coselli JS. Midterm Survival and Quality of Life After Extent II Thoracoabdominal Aortic Repair in Marfan Syndrome. *Ann Thorac Surg*. 2016 Apr;101(4):1402-9; discussion 1409. doi: 10.1016/j.athoracsur.2015.10.018. PubMed PMID: 26794897.
21. Robich MP, Flagg A, LaPar DJ, Odell DD, Stein W, **Aftab M**, Berfield KS, Eilers AL, Groth SS, Lazar JF, Shah AA, Smith DA, Stephens EH, Stock CT, DeNino WF, Tchanchaleishvili V, Soltesz EG. Understanding Why Residents May Inaccurately Log Their Role in Operations: A Look at the 2013 In-Training Examination Survey. *Ann Thorac Surg*. 2016 Jan;101(1):323-8. doi: 10.1016/j.athoracsur.2015.07.047. PubMed PMID: 26453419.
22. Tchanchaleishvili V, LaPar DJ, Odell DD, Stein W, **Aftab M**, Berfield KS, Eilers AL, Groth SS, Lazar JF, Robich MP, Shah AA, Smith DA, Stephens EH, Stock CT, DeNino WF, Nguyen TC. Predictors of Career Choice Among Cardiothoracic Surgery Trainees. *Ann Thorac Surg*. 2015 Nov;100(5):1849-54; discussion 1853. doi: 10.1016/j.athoracsur.2015.04.073. PubMed PMID: 26163358.
23. Idrees JJ, Roselli EE, Wojnarski CM, Feng K, **Aftab M**, Johnston DR, Soltesz EG, Sabik JF 3rd, Svensson LG. Prophylactic stage 1 elephant trunk for moderately dilated descending aorta in patients with predominantly proximal disease. *J Thorac Cardiovasc Surg*. 2015 Nov;150(5):1150-5. doi: 10.1016/j.jtcvs.2015.07.077. PubMed PMID: 26433635.
24. Stephens EH, Odell D, Stein W, LaPar DJ, DeNino WF, **Aftab M**, Berfield K, Eilers AL, Groth S, Lazar JF, Robich MP, Shah AA, Smith DA, Stock C, Tchanchaleishvili V, Mery CM, Turek JW, Salazar J, Nguyen TC. A Decade of Change: Training and Career Paths of Cardiothoracic Surgery Residents 2003 to 2014. *Ann Thorac Surg*. 2015 Oct;100(4):1305-13; discussion 1313-4. doi: 10.1016/j.athoracsur.2015.04.026. PubMed PMID: 26169046.
25. El-Sayed Ahmed MM, Almanfi A, **Aftab M**, Singh SK, Mallidi HR, Frazier OH. Aspergillus Mediastinitis after Orthotopic Heart Transplantation: A Case Report. *Tex Heart Inst J*. 2015 Oct 1;42(5):468-70. doi: 10.14503/THIJ-14-4732. PubMed PMID: 26504444; PubMed Central PMCID: PMC4591890.
26. Nguyen TC, Terwelp MD, Stephens EH, Odell DD, Loor G, LaPar DJ, DeNino WF, Wei B, **Aftab M**, Macke RA, Nelson JS, Berfield KS, Lazar JF, Stein W, Youssef SJ, Tchanchaleishvili V. Resident Perceptions of 2-Year Versus 3-Year Cardiothoracic Training Programs. *Ann Thorac Surg*. 2015 Jun;99(6):2070-5; discussion 2075-6. doi: 10.1016/j.athoracsur.2015.01.031. PubMed PMID: 25863731.
27. **Aftab M**, Songdechakraiwt T, Green SY, Zarda S, Price MD, Nalty CC, Preventza O, de la Cruz KI, LeMaire SA, Coselli JS. Contemporary outcomes of open thoracoabdominal aortic aneurysm repair in octogenarians. *J Thorac Cardiovasc Surg*. 2015Feb;149(2Suppl):S134-41. doi: 10.1016/j.jtcvs.2014.09.038. PubMed PMID: 25439781.
28. El-Sayed Ahmed MM, Al-Najjar RM, **Aftab M**, Anton JM, Colen JS, Reul RM. Early detection of a cavopulmonary tumor embolus with the use of transesophageal echocardiography. *Tex Heart Inst J*. 2015 Feb 1;42(1):66-9. doi:10.14503/THIJ-13-3731. PubMed PMID: 25873804; PubMed Central PMCID: PMC4378050.
29. **Aftab M**, Coselli JS. Renal and visceral protection in thoracoabdominal aortic surgery. *J Thorac Cardiovasc Surg*. 2014 Dec;148(6):2963-6. doi: 10.1016/j.jtcvs.2014.06.072. Review. PubMed PMID: 25135232.

30. El-Sayed Ahmed MM, **Aftab M**, Al-Najjar RM, de la Cruz KI, Lerner SP, Coselli JS. Renal cell carcinoma extending into the retrohepatic inferior vena cava. *Tex Heart Inst J*. 2014 Dec 1;41(6):671-2. doi: 10.14503/THIJ-13-3826. PubMed PMID: 25593540; PubMed Central PMCID: PMC4251347.
31. El-Sayed Ahmed MM, **Aftab M**, Al-Najjar RM, de la Cruz KI, Benjamin RS, Hallman CH. Pulmonary artery sarcoma mimicking pulmonary embolism. *Tex Heart Inst J*. 2014 Oct 1;41(5):515-7. doi: 10.14503/THIJ-13-3735. PubMed PMID: 25425986; PubMed Central PMCID: PMC4189355.
32. El-Sayed Ahmed MM, **Aftab M**, de la Cruz KI, Delgado RM 3rd, Mallidi HR. Circular air-filled space in the aortic knob: a rare radiologic finding. *Tex Heart Inst J*. 2014 Oct 1;41(5):560-1. doi: 10.14503/THIJ-13-3966. PubMed PMID: 25425997; PubMed Central PMCID: PMC4189366.
33. El-Sayed Ahmed MM, **Aftab M**, Singh SK, Mallidi HR, Frazier OH. Left ventricular assist device outflow graft: alternative sites. *Ann Cardiothorac Surg*. 2014 Sep;3(5):541-5. doi: 10.3978/j.issn.2225-319X.2014.09.03. PubMed PMID: 25452918; PubMed Central PMCID: PMC4229468.
34. El-Sayed Ahmed MM, **Aftab M**, Singh SK, Mallidi HR, Frazier OH. Triple bridge to simultaneous heart and kidney transplantation. *Ann Thorac Surg*. 2014 Aug;98(2): e45-6. doi: 10.1016/j.athoracsur.2014.04.136. PubMed PMID: 25087831.
35. Preventza O, **Aftab M**, Coselli JS. Hybrid techniques for complex aortic arch surgery. *Tex Heart Inst J*. 2013;40(5):568-71. Review. PubMed PMID: 24391324; PubMed Central PMCID: PMC3853841.
36. Belaguli NS, **Aftab M**, Rigi M, Zhang M, Albo D, Berger DH. GATA6 promotes colon cancer cell invasion by regulating urokinase plasminogen activator gene expression. *Neoplasia*. 2010 Nov;12(11):856-65. PubMed PMID: 21076612; PubMed Central PMCID: PMC2978909.
37. Agaba EA, Zaidi RM, Ramzy P, **Aftab M**, Rubach E, Gecelter G, Ravikumar TS, DeNoto G. Laparoscopic Hartmann's procedure: a viable option for treatment of acutely perforated diverticulitis. *Surg Endosc*. 2009 Jul;23(7):1483-6. doi: 10.1007/s00464-009-0380-z. PubMed PMID: 19263127.
38. Belaguli NS, Zhang M, Rigi M, **Aftab M**, Berger DH. Cooperation between GATA4 and TGF-beta signaling regulates intestinal epithelial gene expression. *Am J Physiol Gastrointest Liver Physiol*. 2007 Jun;292(6): G1520-33. PubMed PMID: 17290010.

Published Peer-Reviewed Articles (In Press):

1. T. Songdechakraiwut, **M. Aftab**, S. Y. Green, S. Zarda, M. D. Price, C. C. Nalty, O. Preventza, K. I. de la Cruz, S. A. LeMaire, J. S. Coselli. Respiratory Failure Requiring Tracheostomy after Thoracoabdominal Aortic Aneurysm Repair: Predictors and Consequences. Submitted to the *Annals of Thoracic Surgery* 08/2018. Presented as the poster on demand at the AATS Aortic Symposium, 2014
2. **Muhammad Aftab**, Magdy M. El-Sayed Ahmed, Neil E. Strickman, Ross M. Reul. Ventricular Embolization of the Valve Prosthesis During Transapical Transcatheter Aortic Valve Implantation Submitted for publication to the *Journal of Texas Heart Institute* 06/2018.

Published Peer-Reviewed Abstracts:

1. Katsuhiko Yamanaka, **Muhammad Aftab**, Marshall T Bell, Lisa S Foley, Joshua Mares, David A Fullerton, Brett T Reece. Pharmacological Induction of Beta Common Receptor Amplifies Erythropoietin Attenuation of Spinal Cord Injury. *Circulation*, November 11, 2016, Volume 134, Issue Suppl 1
2. **Muhammad Aftab**, Shabana Perveen, Sandeep A. Sathyanaraana, MD, Gary Deutsch, MD, Barak Friedman, MD, Frank Manetta, MD, Gary Giangola, MD and Kambhampaty V. Krishnasastri, MD Endovascular Repair for Mycotic Aneurysms and Aortovisceral Fistula: A Durable Treatment or Just the Bridge to Survival? *Journal of Vascular Surgery*, Volume 54, Issue 3, Page 918, September 2011.

3. **Muhammad Aftab**, Vijay Kamath, Rajeev Gupta, Frank Manetta, Alan Hartman, Richard Schutzer, Mihai Rosca, Kambhampaty Krishnasastry. Hybrid Thoracic Endovascular Aortic Repair (TEVAR) for Complex Aortic Pathology - Early and Mid-term Outcomes. *Journal of Vascular Surgery* Volume 53, Issue 6, Supplement, Pages 42S-44S, June 2011.
4. N. Belaguli, **M. Aftab**, M. Zhang, F. Ayanbule, M. Rigi, A. Sakar, D.H. Berger. Posttranscriptional Regulation of GATA6 Expression in Colon Cancer. *Journal of Surgical Research*, 151(2):296, February 2009.
5. N.S. Belaguli, M. Zhang, **M. Aftab**, M. Rigi, D.H. Berger. P73: TGF β 1 signaling and GATA6 cooperatively regulate the urokinase plasminogen activator (uPA). *Journal of Surgical Research*, 137(2):266, February 2007.
6. Narasimhaswamy S. Belaguli, Mao Zhang, **Muhammad Aftab**, David H. Berger. PIAS-1 Promotes GATA4 Sumoylation and Potentiates Gata4 Mediated Transcriptional Activation of Intestinal Promoters. Supplement to *Gastroenterology*, 130(2), April 2006.
7. **M. Aftab**, N.S. Belaguli, M. Mushtaq, D.H. Berger. Transforming growth factor β 1 (TGF β 1) differentially regulates protease production and cellular invasion in human colon cancer. *Journal of Surgical Research*, Volume 130(2):168-169, February 2006.
8. N.S. Belaguli, **M. Aftab**, M. Zhang, M.A. Helmrath, D.H. Berger. Cardiac ankyrin repeat protein (CARP) is an intestinal epithelium expressed TGF β 1 target gene. *Journal of Surgical Research*, Volume 130(2):253, February 2006.
9. N.S. Belaguli, **M. Aftab**, M. Zhang, D.H. Berger. GATA factors regulate urokinase plasminogen activator (uPA) gene expression in intestinal epithelial cells. *Journal of Surgical Research*, Volume 130(2):193, February 2006.

Book Chapters:

1. **Aftab M**, Umakanthan R, Heinle JS et al: Bilateral Sequential Lung Transplantation, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
2. **Aftab M**, Umakanthan R, Heinle JS et al: Pulmonary valve replacement and reconstruction of right ventricle outflow tract, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
3. **Aftab M**, Preventza O: Aortic Root Replacement with Homograft for Aortic Root Abscess (native and or prior Bentall), *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
4. **Aftab M**, Umakanthan R, Heinle JS et al: Infra-cardiac Total Anomalous Pulmonary Venous Return (TAPVR) repair, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
5. **Aftab M**, Umakanthan R, Heinle JS et al: Extra-cardiac (non-fenestrated) completion Fontan procedure, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
6. **Aftab M**, Fraser CD et al: Arterial Switch procedure – Repair of Transposition of Great Arteries, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).

7. **Aftab M**, Salas de Armas IA Fraser CD et al: Repair of Aortic Coarctation, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
8. **Aftab M**, Salas de Armas IA, Dean McKenzie E et al: Repair of Tetralogy - Transatrial approach, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
9. **Aftab M**, Salas de Armas IA, Dean McKenzie E. et al: Creation of Bi-directional Glenn, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
10. **Aftab M**, Salas de Armas IA, Mery CM E. et al: Creation of Modified Blalock-Taussig Shunt, *Operative Dictations in Cardiothoracic Surgery*, Ed, Odell D, Lapar D, TSRA/TSDA Chicago, IL (Published 07/2014).
11. **Aftab M**, Salas de Armas IA, Bakaeen FG et al: Aortic Root Aneurysm, *TSRA Clinical Scenarios in Cardiothoracic Surgery*, Edited by Nguyen TC, Loor G, TSRA/TSDA Chicago, IL, 2013
12. **Aftab M**, Pocock E, Fraser CD et al: Transposition of Great Arteries, *TSRA Clinical Scenarios in Cardiothoracic Surgery*, Edited by Nguyen TC, Loor G, TSRA/TSDA Chicago, IL, 2013
13. **Aftab M**, *Cardiothoracic Surgery, First Aid for the Surgery Clerkship*, 2nd Edition. A student-to-student Guide. Edited by, Matthew Kaufman, Latha Stead, S. Matthew Stead, Nitin Mishra published by Mc-Graw Hill, 2009

Published Books (Editor):

1. **Operative Dictations in Cardiothoracic Surgery**
Section Editor – Congenital Cardiac Surgery
TSRA/TSDA Chicago, IL (Published 07/2014).
2. **Cardiothoracic Surgery Journal Club**
Issue Editor: Thoracic Aortic Surgery
A project of Thoracic Surgery Residents Association (TSRA). TSRA/TSDA Chicago, IL (07/2015).

JOURNAL REVIEWING / EDITORIAL BOARDS

1. Reviewer, *Annals of Thoracic Surgery*
2. Reviewer, *Journal for Vascular and Endovascular Surgery*
3. Reviewer, *Journal of Thoracic Disease*

PRESENTATIONS

Upcoming Presentations:

November 2018

- 1. A Multidisciplinary Heart Team Approach to High Risk Transvenous Pacemaker and Defibrillator Lead Extraction Improves Mortality**
Ryan G Aleong, Matthew Zipse, Christine Tompkins, Tamas Seres, David Fullerton, **Muhammad Aftab**
Accepted for presentation at the American Heart Association Scientific Sessions, November 10-12, 2018, Chicago, Illinois
Poster Presentation
Presenter: Ryan G. Aleong
Role: Principal Investigator
- 2. Experience with Cardiac and Vascular Complications of Lead Extractions**
Alexis Z Tumolo, Christine M. Tompkins, Matthew M. Zipse, Muhammad Aftab, Ryan G. Aleong
Accepted for presentation at the American Heart Association Scientific Sessions, November 10-12, 2018, Chicago, Illinois
Poster Presentation
Presenter: Alexis Z Tumolo
Role: Co-mentor
- 3. Augmentation of Spinal Cord Pre-Collateralization to Prevent Paraplegia After Aortic Surgery**
Mohamed Eldeiry, Patrick Kohtz, Allison Halpern, Joseph C Cleveland, David Fullerton, T. Brett Reece, **Muhammad Aftab**
Accepted for presentation at the American Heart Association Scientific Sessions, November 10-12, 2018, Chicago, Illinois
Poster Presentation
Presenter: Mohamed Eldeiry
Role: Principal Investigator and Mentor
- 4. Erythropoietin Protection of Neurons Mediated Through Preservation of Erythropoietin Receptor by Albumin**
Mohamed Eldeiry, **Muhammad Aftab**, Patrick Kohtz, Xianzhong Meng, David Fullerton, T. Brett Reece
Accepted for presentation at the American Heart Association Scientific Sessions, November 10-12, 2018, Chicago, Illinois
Poster Presentation
Presenter: Mohamed Eldeiry
Role: Co-mentor
- 5. Improved Mortality Associated with the Use of Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation**
Alison L. Halpern, Patrick Kohtz, Laura Helmkamp, Mohamed Eldiery, Maggie M. Hodges, Christopher Scott, John D. Mitchell, **Muhammad Aftab**, Jay Pal, Joseph C. Cleveland, T. B. Reece, Robert Meguid, David A. Fullerton, Michael J. Weyant.
Accepted for presentation 65th Southern Thoracic Surgical Association Annual Meeting, November 7-10, 2018, Amelia Island, FL.
Oral Presentation
Presenter: Alison L. Halpern
Role: Co-mentor

October 2018

6. **The Effects of Moderate Hypothermia on Outcomes in Hemiarch Repairs**
Mohamed Eldeiry, MD; **Muhammad Aftab**, MD; Jay Pal, MD, PhD; Joseph C. Cleveland, Jr., MD, FACS; David A. Fullerton, MD, FACS; T. B. Reece, MD
Accepted for presentation at the American College of Surgeons Clinical Congress, October 21-25, 2018, Boston Convention & Exhibition Center, Boston, MA
Oral Presentation
Presenter: Mohamed Eldeiry
Role: Co-mentor
7. **Buffalo Trunk: Utilizing Available Materials to Mimic the benefits of a Hybrid Elephant Trunk Graft**
Mohamed Eldeiry, MD; **Muhammad Aftab**, MD; Joseph C. Cleveland, Jr., MD, FACS; David A. Fullerton, MD, FACS; T. B. Reece, MD
Accepted for presentation at the American College of Surgeons Clinical Congress, October 21-25, 2018, Boston Convention & Exhibition Center, Boston, MA
Oral Presentation
Presenter: Mohamed Eldeiry
Role: Co-mentor
8. **Clinical Predictors of In-Hospital Mortality and Overall Survival for Venoarterial Extracorporeal Membrane Oxygenation in Patients with Refractory Cardiogenic Shock**
Patrick Kohtz, et al.
Accepted for presentation at the American College of Surgeons Clinical Congress, October 21-25, 2018, Boston Convention & Exhibition Center, Boston, MA
Poster Presentation
Presenter: Patrick Kohtz
Role: Principal Investigator and Mentor
9. **Neuronal protection through erythropoietin receptor and the role of albumin**
Mohamed Eldeiry, et al.
Accepted for presentation at the American College of Surgeons Clinical Congress, October 21-25, 2018, Boston Convention & Exhibition Center, Boston, MA
Poster Presentation
Presenter: Mohamed Eldeiry
Role: Co-Investigator and Mentor

Presented:

June 2018

1. **Clinical Predictors of Successful Weaning from Veno-arterial Extracorporeal Membrane Oxygenation in patients with Refractory Cardiogenic Shock**
Patrick Kohtz, Mark Lucas, Christopher Pierce, Mohamed Eldeiry, Yihan Lin, Michael Bronsert, Andreas Brieke, Amrut Ambardekar, Michael Weyant, T. Brett Reece, Jay Pal, David Fullerton, Joseph Cleveland, **Muhammad Aftab**
Oral Presentation at the WTSA 44th Annual Meeting, June 27-30, 2018, Santa Barbara, CA
Presenter: Patrick Kohtz
Role: Principal Investigator and Mentor

May 2018

2. **Loeys-Dietz Syndrome: Intermediate-term Outcomes of Medically and Surgically Managed Patients**
Muhammad Aftab, Frank Cikach Jr, Jay J Idrees, Yuanjia Zhu, Christina M Rigelsky, Vidyasagar Kalahasti, Eric E Roselli, Lars G Svensson
Presented at the AATS 98th Annual Meeting, April 28 - May 1, 2018 San Diego Convention Center, San Diego, CA
Oral Presentation - Aortic/Endovascular Simultaneous Session
Presenter: Frank Cikach, Jr (Medical Student)
Role: Research Mentor and Primary author

April 2018

3. **Lessons Learned and Challenges in Developing a Spinal Cord Pre-collateralization Model for Thoracoabdominal Aortic Aneurysm Repair**
M. Aftab, M. Eldeiry, Y. Katsuhiko, T. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor and Primary author
4. **Endovascular Repair of Blunt Thoracic Aortic Injury in a Patient with Aberrant Right Subclavian Artery - An uncommon presentation**
M. Aftab, M. Eldeiry, T. Reece, O. Jazaeri
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor and Primary author
5. **Staged Repair to Deal with Inability to Transfuse Ross Revision**
M. Eldeiry, **M. Aftab**, T. B. Reece. University of Colorado, Aurora, CO
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
6. **Alternative Approach to TEVAR Extension of Collapsed True Lumen**
M. Eldeiry, D. Kuwayama, **M. Aftab**, T. B. Reece. University of Colorado, Aurora, CO
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
7. **Type A Aortic Dissection Repair in Situs Inversus Totalis**
M. Eldeiry, J. C. Cleveland, **M. Aftab**, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
8. **Bridge to Definitive Surgery for Aorta-Atrial Fistula Repair**
M. Eldeiry, **M. Aftab**, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor

9. **Moderate Hypothermia for Hemiarch Repairs: Refining the Ranges**
M. Eldeiry, **M. Aftab**, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
10. **Morbidity with Hypothermia for Hemiarch Repairs**
M. Eldeiry, **M. Aftab**, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
11. **Neurologic Outcomes Following Hypothermic Circulatory Arrest in Hemiarch Repair**
M. Eldeiry, **M. Aftab**, M. Jarrett, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
12. **Delayed Type A Repair: Rehabilitation From Inoperable to Definitive Therapy**
M. Eldeiry, **M. Aftab**, T. B. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor
13. **Wheat vs Root in Hemiarch: Does Valve Replacement Affect Outcomes**
M. Eldeiry, **M. Aftab**, T. Reece
Presented at the AATS Aortic Symposium, April 26-27, 2018, New York Hilton Midtown Hotel, New York, NY
Presentation on Demand
Role: Research Mentor

January 2018

14. **The Effects of Glucose and B27 Deprivation on Astrocyte Expression of Erythropoietin Receptor.**
M. Eldeiry, K. Yamanaka, L. S. Foley, X. Meng, **M. Aftab**, M. J. Weyant, J. C. Cleveland, D. A. Fullerton, T. B. Reece
Presented at the 18th Academic Surgical Congress, San Diego
Wednesday Jan 31st, 2018 07:30 AM -09:30 PM
Oral Presentation -Basic Science Host Inflammatory Response
Presenter: Mohamed Eldeiry, MD
Role: Research Mentor
15. **NGF Upregulation by Diazoxide and Erythropoietin treatment attenuates Spinal Cord Ischemic Injury.**
K. Yamanaka, M. Eldeiry, **M. Aftab**, J. Mares, X. Meng, M. J. Weyant, J. C. Cleveland, D. A. Fullerton, T.B. Reece
Presented at the 18th Academic Surgical Congress, San Diego
Wednesday Jan 31st, 2018 07:30 AM -09:30 PM
Oral Presentation -Basic Science Cardiothoracic and Vascular Oral Session
Presenter: Katsuhiro Yamanaka, MD, PhD
Role: Research Co-Mentor

16. **Innominate versus Axillary Artery Cannulation for Hemiarch Repair.**
M. Eldeiry, **M. Aftab**, K. Yamanaka, M. S. Mosca, C. Ghincea, J. C. Cleveland, D. Fullerton, T. B. Reece
Presented at the 18th Academic Surgical Congress, San Diego
Tuesday Jan 30th, 2018 07:30 AM -09:30 PM
Quick Shot Presentation -Clinical/Outcomes Cardiothoracic session 1
Presenter: Mohamed Eldeiry, MD
Role: Research Mentor
17. **Diazoxide Attenuates Spinal Cord Ischemia-Reperfusion Injury Through STAT3 Pathway**
K. J. Yamanaka, M. A. Eldeiry, **M. Aftab**, X. S. Meng, M. J. Weyant, J. C. Cleveland Jr, D. A. Fullerton,
T. B. Reece
Presented at the Society of Thoracic Surgeons 54th Annual Meeting, Monday Jan 29th, 2018
Oral Presentation - Basic Science Research: Adult Cardiac Session
Presenter: Katsuhiko Yamanaka, MD, PhD
Role: Research Co-Mentor
18. **The Effects of Glucose Starvation and B27 Depletion on the Expression of Erythropoietin Receptor in Neurons.**
Presented at 42nd Annual Meeting Southern Association for Vascular Surgery, Scottsdale, Arizona.
Friday, January 19, 2018, 7:00 AM – 8:00 AM.
Oral Poster
Presenter: Mohamed Eldeiry, MD
Role: Research Mentor

October 2017

19. **Pretreatment with Diazoxide Attenuates Injury in a Mouse Model of Spinal Cord Ischemia**
Katsuhiko Yamanaka, MD, PhD, Mohamed Eldeiry, MD, **Muhammad Aftab, MD**, Lisa S. Foley, MD,
Joshua Mares, BS, Xianzhong Meng, MD, PhD, Michael J. Weyant, MD, Joseph C. Cleveland, Jr, MD,
David A. Fullerton, MD, and T. Brett Reece, MD
Scientific Forum 18- Cardiac Surgery II
ACS Clinical Congress 2017, San Diego Convention Center, Presented on Tuesday, October 24, 2017
Presenter: Katsuhiko Yamanaka
Role: Research Co-Mentor

June 2017

20. **Pretreatment with Diazoxide Enhances the Neuroprotective Function of Erythropoietin Against Spinal Cord Ischemia and Reperfusion Injury Through Upregulation of Beta Common Receptor**
Katsuhiko Yamanaka, Mohamed Eldeiry, **Muhammad Aftab**, Lisa S. Foley, Joshua Mares, Xianzhong Meng, *Michael J. Weyant, *Joseph C. Cleveland, *David A. Fullerton, *T. Brett Reece
Western Thoracic Surgical Association, 43rd Annual Meeting June 21-24, 2017, Colorado Springs, Colorado
Presenter: Katsuhiko Yamanaka
Role: Research Co-Mentor

November 2016

21. **Pharmacological Induction of Beta Common Receptor Amplifies Erythropoietin Attenuation of Spinal Cord Injury**
Katsuhiko Yamanaka, **Muhammad Aftab**, Marshall T Bell, Lisa S Foley, Joshua Mares, David A Fullerton, Brett T Reece
Intervention and Surgery Session: Thoracic Aortic Disease II
American Heart Association's 2016 Scientific Sessions and Resuscitation Science Symposium
Nov. 12 – 16, 2016 New Orleans, LA
Presenter: Katsuhiko Yamanaka
Role: Research Mentor

May 2016

22. **Total Endovascular Repair of Aortic Arch Using Inner Branched Arch Endograft**
Muhammad Aftab, Eric Roselli, Douglas Johnston, Matthew Eagleton
Oral Presentation at the 96th Annual Meeting of American Association for Thoracic Surgery, May 14-18, 2016
Contribution: Primary Presenter/Primary author
23. **Combined Aortic Root and Mitral Valve Surgery: The Quest to Preserve Both Valves**
H. Javadikasgari, **M. Aftab**, E. E. Roselli, M. Khosravi, F. Cikach, M. Isabella, J. Idrees, L. G. Svensson, M. Gillinov.
Presentation on demand, American Association of Thoracic Surgery (AATS) Aortic Symposium 2016 - May 12-13, 2016, New York, NY
Contribution: Research supervisor to the Primary Presenter/Primary author

January 2016

24. **Open Distal Fenestration of Chronic Dissection Facilitates Endovascular Elephant Trunk Completion: Late Outcomes**
Muhammad Aftab, Jay Idrees, Jose Luis Navia, Eric Roselli.
Oral presentation at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016 January 23-27, 2016, Phoenix, Arizona.
Contribution: Primary Presenter/Primary author
25. **Outcomes of a Less Invasive Approach in Proximal Aortic Surgery**
Melissa Levack, **Muhammad Aftab**, Eric Roselli, Douglas Johnston, Edward Soltesz, A. Gillinov, Gosta Pettersson, Brian Griffin, Grimm Richard, Donald Hammer, Eugene Blackstone, Lars Svensson
Poster presentation at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016 January 23-27, 2016, Phoenix, Arizona.
Contribution: Co-author
26. **Gender and Cardiothoracic Surgery Training: Specialty Interests, Satisfaction, and Career Pathways**
Elizabeth Stephens, Michael Robich, Dustin Walters, Walter DeNino, **Muhammad Aftab**, Vakhtang Tchantchaleishvili, Amanda Eilers, Robert Rice, Andrew Goldstone, Ryan Shelstead, Tarek Malas, Marisa Cevasco, Erin Gillaspie, Damien LaPar, Asad Shah
Oral presentation at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016 January 23-27, 2016, Phoenix, Arizona.
Contribution: Co-author

November 2015

27. **Characterizing the Operative Experience of Cardiothoracic Surgery Residents in the United States: What are residents really doing in the operating room?**
Asad A. Shah, **Muhammad Aftab**, Vakhtang Tchantchaleishvili, Damien LaPar, Elizabeth Stephens, Dustin Walters, Walter DeNino, David Odell, Michael Robich, Marisa Cevasco, Amanda Eilers, Erin Gillaspie, Andrew Goldstone, Tarek Malas, Robert Rice, Ryan Shelstad, Nicholas D. Andersen
Oral presentation at the 62nd Annual Meeting of Southern Thoracic Surgical Association (STSA) on Thursday, November 5th, 2015
Contribution: Co-author

28. **The Future of the Academic Cardiothoracic Surgeon: Results of the TSRA/TSDA In-training Exam Survey**

Elizabeth H. Stephens, Asad A. Shah, Michael P. Robich, Dustin Walters, Walter DeNino, **Muhammad Aftab**, Vakhtang Tchanchaleishvili, Amanda Eilers, Robert Rice, Andrew Goldstone, Ryan Shelstead, Tarek Malas, Marisa Cevasco, Erin Gillaspie, David Odell, Damien J. LaPar, Oral presentation at the 62nd Annual Meeting of **Southern Thoracic Surgical Association (STSA)** November 6th, 2015,
Contribution: Co-author

October 2015

29. **Endovascular Stent Grafting for Leaking Ascending Aortic Pseudo-Aneurysms.**

Muhammad Aftab, Jay J. Idrees, Eric E. Roselli
Oral presentation at the 53rd Annual Meeting of the Eastern Cardiothoracic Surgical Society (ECTSS) on Thursday, October 15th, 2015
Contribution: Primary Presenter

January 2015

30. **A Decade of Change: Training and Career Paths of Cardiothoracic Surgery Residents 2003-2014**

E. H. Stephens, D. D. Odell, W. Stein, D. J. LaPar, W. F. Denino, **M. Aftab**, K. Berfield, A. L. Eilers, S. S. Groth, J. F. Lazar, M. P. Robich, A. A. Shah, D. Smith, C. T. Stock, V. Tchanchaleishvili, C. M. Mery, J. W. Turek, J. D. Salazar, T. C. Nguyen
Oral Presentation at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015 San Diego, California January 24-28, 2015.
Contribution: Co-author

31. **Understanding Why Residents May Inaccurately Log Their Role In Operations: A Look At The 2013 In-Training Exam Survey**

Flagg, M. P. Robich, D. J. LaPar, D. D. Odell, W. Stein, **M. Aftab**, K. Berfield, A. L. Eilers, S. S. Groth, J. F. Lazar, A. A. Shah, D. Smith, E. H. Stephens, C. T. Stock, W. F. Denino, V. Tchanchaleishvili, E. G. Soltesz
Oral Poster Presentation at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015 San Diego, California January 24-28, 2015.
Contribution: Co-author

32. **Predictors of Career Choice among Cardiothoracic Surgery Trainees**

V. Tchanchaleishvili, D. J. LaPar, D. D. Odell, W. Stein, **M. Aftab**, K. Berfield, A. L. Eilers, S. S. Groth, J. F. Lazar, M. P. Robich, A. A. Shah, D. Smith, E. H. Stephens, C. T. Stock, W. F. Denino, T. C. Nguyen
Oral Presentation at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015 San Diego, California January 24-28, 2015.
Contribution: Co-author

November 2014

33. **Ventricular Embolization of the Valve Prosthesis During Transapical Transcatheter Aortic Valve Implantation**

Muhammad Aftab, Magdy M. El-Sayed Ahmed, Neil E. Strickman, Ross Reul
Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX.
Oral presentation at the **Southern Thoracic Surgical Association (STSA)** 61st Annual Meeting on November 5th 2014 Tucson, Arizona.
Contribution: Primary Presenter

34. **Residents' Perceptions of Two- vs. Three-year Cardiothoracic Training Programs (2013 and 2014 TSRA/TSDA In-training Exam Survey)**

Tom C. Nguyen, David Odell, Elizabeth H. Stephens, Gabriel Loor, Damien J. LaPar, Walter F. DeNino, Benjamin Wei, **Muhammad Aftab**, Ryan A. Macke, Jennifer S. Nelson, Kathleen Berfield, John Lazar, William Stein, Samuel J. Youssef, Vakhtang Tchanchaleishvili
Southern Thoracic Surgical Association (STSA) 61st Annual Meeting on November 7th, 2014 Tucson, Arizona.

Contribution: Co-author

October 2014

35. **Paraesophageal Hiatal Hernia with Nonischemic Perforation of the Gastric Fundus in the Left Thorax. A Case Report**

Ismael A. Salas De Armas, Matthew J. Wall, Kenneth L. Mattox, Ramyar Gilani, Courtney J. Gemmato; Nasser Lakkis; **Muhammad Aftab**, N. Thao T. Nguyen, Alexandra Tuluca, Peter I. Tsai, 2014 ACS Clinical Congress, October 26-30 2014, San Francisco, California.

Contribution: Co-author

June 2014

36. **Alkaptonuria- A Rare Etiology of Aortic Valve Stenosis**

Mortality and Morbidity Conference June 05, 2014
Texas Heart Institute, Baylor St. Luke's Medical Center, Houston, TX

Contribution: Primary Presenter

37. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**

2nd Annual Resident, Research Day Symposium June 04, 2014
Michael E. DeBaakey Department of Surgery, Houston, TX

Contribution: Primary Presenter

April 2014

38. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**

Cardiothoracic Surgery Resident Poster Competition, American Association of Thoracic Surgery (AATS) 2014 - April 27th, Toronto, Canada

Contribution: Primary Presenter

39. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**

Plenary Session, Podium presentation on 04/26/2014
American Association of Thoracic Surgery (AATS) Aortic Symposium 2014 on April 24-26, 2014, New York, NY

Contribution: Primary Presenter

40. **Respiratory Failure Requiring Tracheostomy after Thoracoabdominal Aortic Aneurysm Repair: Predictors and Consequences**

Presentation on demand, American Association of Thoracic Surgery (AATS) Aortic Symposium 2014 - April 24-26, 2014, New York, NY

Contribution: Co-author

January 2014

41. **Intraprocedural Complications after Transcatheter Aortic valve Implantation (TAVI)**

Michael E. DeBaakey Department of Surgery Grand rounds 01/08/2014
Sponsored by Baylor College of Medicine

Contribution: Primary Presenter

November 2013

42. **Surgical management of Transapical aortic valve migration - A Case presentation**
Edwards Lifesciences Cardiac Fellows Program - November 7-9, 2013, Irvine, CA
Invited Speaker for the Challenging TAVI Cases by the Fellows
Contribution: Primary Presenter

September 2011

43. **Remote Wireless Sensing for Aneurysm Sac Pressure Measurements after Thoracic Endovascular Aneurysm Repair (TEVAR) - An Initial Experience and a Midterm Follow Up**
Oral Presentation at plenary session of Annual Meeting of Eastern Vascular Society (EVS), September 2011
Muhammad Aftab, Chuo Ren Leong, MD, Ankur Chawla, MD, Xin Yun Li, MD, Sotero Peralta, MD, Shabana Perveen MD, and Kambhampaty Krishnasastry, MD. **Contribution: Primary Presenter**
44. **Endovascular Repair for Mycotic Aneurysms and Aortovisceral Fistula: A Durable Treatment or Just the Bridge to Survival?**
Oral Presentation at Annual Meeting of Eastern Vascular Society (EVS), September 2011
Muhammad Aftab, Shabana Perveen, Sandeep A. Sathyanaraana, MD, Gary Deutsch, MD, Barak Friedman, MD, Frank Manetta, MD, Gary Giangola, MD and Kambhampaty V. Krishnasastry, MD
Contribution: Primary Presenter

June 2011

45. **Hybrid Thoracic Endovascular Aortic Repair (TEVAR) for Complex Aortic Pathology - Early and Mid-term Outcomes**
Presented at Annual Meeting of Society of Vascular Surgery (SVS), June 2011
Muhammad Aftab, Vijay Kamath, Rajeev Gupta, Frank Manetta, Alan Hartman, Richard Schutzer, Mihai Rosca, Kambhampaty Krishnasastry.
Contribution: Primary Presenter

March 2011

46. **Should Endovascular Stent Grafting Be the Standard of Care in Multi-Trauma Patients with Blunt Thoracic Aortic Injury (BTAI)?**
Presented at Society of Clinical Vascular Surgery (SCVS) Annual Symposium, March 2011
Muhammad Aftab, MD, Rajeev Gupta, MD, Vijay Kamath, MD, Frank Manetta, MD, Richard Schutzer, MD, Matthew Bank, MD, Mihai Rosca, MD, Jeffrey Nicastro, MD, Alan Hartman, MD, Kambhampaty V. Krishnasastry, MD
Contribution: Primary Presenter

December 2010

47. **Endovascular Treatment of Blunt Thoracic Aortic Injuries- A mid-term follow-up**
Annual Clinical Day of American College of Surgeons – Brooklyn & Long Island Chapter.
Muhammad Aftab, MD, Rajeev Gupta, MD, Vijay Kamath, MD, Frank Manetta, MD, Richard Schutzer, MD, Mihai Rosca, MD, Jeffrey Nicastro, MD, Alan Hartman, MD, Kambhampaty V. Krishnasastry, MD
Contribution: Primary Presenter

October 2010

48. **Central Nervous System Abscess: A rare complication of diverticulitis**
Annual Clinical Congress, American College of Surgeons 2010
Vijay Kamath, Nitin Mishra, **Muhammad Aftab**, MS, Vikraman Gunabushanam, Barak Friedman,
Douglas Held
Contribution: Co-author

February 2009

49. **Posttranscriptional Regulation of GATA6 Expression in Colon Cancer**
Association of Academic Surgery (AAS) / 4th Academic Surgical Congress 2009
N. Belaguli, **M. Aftab**, M. Zhang, F. Ayanbule, M. Rigi, A. Sakar, D.H. Berger
Published in Journal of Surgical Research, 151(2): 296, February 2009
Contribution: Co-author

February 2007

50. **TGF β 1 and GATA6 Cooperatively Regulate the Urokinase Plasminogen Activator"**
NS Belaguli, M Zhang, **M Aftab**, M Rigi, DH Berger
Association of Academic Surgery (AAS) / 3rd Academic Surgical Congress 2007.
Contribution: Primary Presenter

May 2006

51. **PIAS-1 Promotes GATA4 sumoylation and potentiates GATA4 mediated transcriptional activation of intestinal promoters**
Belaguli NS, Zhang M, **Aftab M**, Berger DH.
Digestive Disease week (DDW) - 2006 American Gastroenterological Association (AGA).
Poster of Distinction Award – Awarded to Top 10% poster of DDW
Contribution: Co-author

February 2006

52. **Transforming Growth Factor Beta1 (TGF β 1) Differentially Regulates Protease and Cellular Invasion in Human Colon Cancer**
Aftab M, Belaguli NS, Mushtaq M, Berger DH
Oral presentation at the Association of Academic Surgery (AAS) 1st Academic Surgical Congress 2006.
Contribution: Primary Presenter
53. **GATA factors regulate urokinase plasminogen activator (uPA) gene expression in intestinal epithelial cells.**
Belaguli NS, **Aftab M**, Zhang M, Berger DH.
Oral presentation at the Association of Academic Surgery (AAS), 1st Academic Surgical Congress 2006.
Contribution: Primary Presenter
54. **Cardiac ankyrin repeat protein (CARP) is an intestinal epithelium expressed TGF- β target gene.** Narasimhaswamy S. Belaguli, **Muhammad Aftab**, Mao Zhang, Michael A. Helmrath, David H. Berger
Oral poster presentation at the Society of University Surgeons (SUS), 1st Academic Surgical Congress 2006
Contribution: Primary Presenter

December 2005

55. Urokinase gene expression in colon cancer cells is regulated by GATA Factors

Aftab M, Zhang M, Berger DH, Belaguli NS

Poster Presentation at Molecular Surgeon Research Day 2005, Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX.

Contribution: Primary Presenter

November 2005

56. Urokinase gene expression in colon cancer is regulated by GATA4 and GATA6.

Aftab M, Belaguli NS, Zhang M, Berger DH

Poster presentation presented at the Baylor Cancer Center Research Symposium 2006.

Contribution: Primary Presenter

October 2005

57. Urokinase gene expression in colon cancer cells is regulated by GATA4 and GATA6

Belaguli NS, **Aftab M**, Zhang M, Berger DH

Oral Poster Presentation at AACR (American Association of Cancer Research) Meeting "Colorectal Cancer: Molecular pathways and therapies".

Contribution: Primary Presenter

Awarded Scholar-in-Training Award by AACR

INVITED LECTURES / GRAND ROUNDS

Grand Rounds:

1. Topic: Acute Type I Aortic Dissection: New Perspectives and Treatment Paradigms
Sponsored by The Department of Surgery
University of Colorado, Anschutz Medical Center
Presented on 11/27/2017
2. Topic: Thoracic Endovascular Aortic Repair (TEVAR) Redefines the Therapy for Acute Distal Aortic Dissection
Sponsored by The Department of Surgery
University of Colorado, Anschutz Medical Center
Presented on 10/31/2016
3. Topic: Severe Intraprocedural Complications after Transcatheter Aortic valve Implantation (TAVI)
Michael E. DeBakey Department of Surgery Grand rounds
Sponsored by Baylor College of Medicine, Houston, TX
Presented on 01/08/2014
4. Topic: Should Laparoscopic Colon Resection be the Standard of Care for Colorectal Cancer - What is the Evidence?
Sponsored by Department of Surgery
North-Shore Long Island Jewish Health System
New Hyde Park, NY. Presented on 08/26/2010

Invited Lectures:

1. **Thoracoabdominal Aortic Dissection (Type B / DeBakey III) Dissection**
Vascular Conference
03-26-2018
2. **Role of Cardiac Surgery in the Management of Atrial Fibrillation**
Colorado Arrhythmia Symposium 2017
Boulder, Colorado
09-16-2017
3. **Management of Acute Type B Aortic Dissection – New treatment Paradigm.**
Combined Cardiac Surgery/Vascular & Endovascular Surgery/Interventional Radiology Conference.
Presented at University of Colorado Hospital
10-14-2016
4. **Complication of Intra-aortic Balloon Pump Therapy**
Cardiothoracic and Vascular Surgery Service
Baylor St. Luke's Medical Center/Texas Heart Institute, Houston
04-17-2014
5. **Marfan Syndrome – A Surgical Disease**
Cardiothoracic and Vascular Surgery Service
St. Luke's Episcopal Hospital / Texas Heart Institute, Houston, TX
6. **Triple valve Surgery**
Cardiothoracic and Vascular Surgery Service
St. Luke's Episcopal Hospital / Texas Heart Institute, Houston, TX
05-02-2013
7. **Management of Sternal Fractures**
Cardiothoracic, Vascular and General Surgery
Ben Taub General Hospital/Baylor College of Medicine
Houston, TX
02-08-2013
8. **Thoracic outlet Syndrome**
Department of Thoracic and Cardiovascular Surgery
St. Luke's Episcopal Hospital / Texas Heart Institute, Houston, TX
9. **Primary Esophageal Melanoma- A case report and review of Literature**
Cardiothoracic Surgery Conference
The University of Texas MD Anderson Cancer Center, Houston
09-27-2011
10. **Pediatric Surgery- a review of complex surgical conditions**
Surgical Conference
Presented at Long Island Jewish Hospital, New Hyde Park, NY
02-23-2009
11. **Management of Benign and Malignant Surgical Breast Conditions**
Presented at North Shore University Hospital, Manhasset, NY
01-13-2009

12. **Surgical Management of Advanced Obstructing Duodenal Cancer: A Palliative Treatment**
Mortality and Morbidity Conference
Presented at Long Island Jewish Hospital, New Hyde Park, NY
08/ 13 / 2009
13. **Management of retained bile duct stones after uncomplicated laparoscopic cholecystectomy**
Mortality and Morbidity Conference
Presented at Long Island Jewish Hospital, New Hyde Park, NY
08/ 13 / 2009
14. **Management of Anastomotic Leak after Loop Ileostomy Reversal and Total Abdominal Hysterectomy**
Mortality and Morbidity Conference
Presented at Long Island Jewish Hospital, New Hyde Park, NY
08/ 13 / 2009
15. **Challenges in Surgical Treatment of Perforated Diverticulitis in Immuno-compromised Patients**
Mortality and Morbidity Conference, Presented at North Shore University Hospital, Manhasset, NY
01 / 27 / 2009
16. **Surgical Management of Liver Tumors**
Surgical Conference
Presented at North Shore University Hospital, Manhasset, NY
12-16-2008
17. **Management of Surgical Conditions of Appendix**
Surgical Conference
Presented at North Shore University Hospital, Manhasset, NY
11-11-2008
18. **Management of Critical patients with Various forms of Shock - an Algorithm**
Presented at Long Island Jewish Hospital, New Hyde Park, NY, 08 / 17/ 2007
19. **Cytokines – the Mediators of Inflammation in critically ill patients**
Presented at Long Island Jewish Hospital, New Hyde Park, NY
08 / 07 / 2007
20. **Management of Patients with Transfusion Related Acute Lung Injury (TRALI)**
Presented at Long Island Jewish Hospital, New Hyde Park, NY
7/20 / 2007
20. **Management of Splenic Trauma**
Presented at North Shore University Hospital, Manhasset, NY
04/03/2007
21. **Management of Spinal Cord Injuries**
Presented at North Shore University Hospital, Manhasset, NY
10/16/2006
22. **Management of Cervical Cord Injuries**
Presented at North Shore University Hospital, Manhasset, NY
10/23/2006

RELATED MEDICAL CERTIFICATION

- Transcatheter Heart Valve Fundamentals Training Program (S3), 9/2017
- CoreValve Evolut R Product & Procedure Training, 1/2017
- Heart Mate II Left Ventricular Assist Device (LVAD) Surgical Training Certificate (St Jude Medical) 08/10-11/2016
- Recertification, Human Subjects Research Curriculum Collaborative Institutional Training Initiative Course (CITI)
- Certified American Board of Thoracic Surgery (ABTS)
- Diplomate American Board of Thoracic Surgery (Certificate# 8096)
- HeartWare - Left Ventricular Assist Device (LVAD) Surgical Training Certificate (HeartWare Inc.)
- Certified Fundamentals of Laparoscopic Surgery (FLS)
- American College of Surgeons (ACS) and Society of American
- Gastrointestinal and Endoscopic Surgeons (SAGES)
- Human Subjects Research Curriculum, Collaborative Institutional Training Initiative Course (CITI)
- Biomedical Research, Collaborative Institutional Training Initiative Course (CITI)
- Ultrasound for Surgeons Course Certification, American College of Surgeons
- Sedation Education and Training Course Certification
- PALS – Pediatric Advanced Life Support Certification
- Human Subjects Protection Tutorial Certification
- ATLS – Advanced Trauma and Life Support Certification
- Patient Safety Institute Central Line Insertion Course Certification
- Hernia Repair 2006 – Optimal Utilization of Biomaterials and Laparoscopy Course
- Identification & Reporting of Child Abuse, Neglect and Maltreatment Course Certification
- Fundamentals of Surgical Research Course, Academic Surgical Congress, Houston, TX; American Association of Academic Surgery / Society of University Surgeons
- Educational Commission of Foreign Medical Graduates, (ECFMG) Certification

HOBBIES & INTERESTS

- Traveling
- Visiting historic places such as museums and galleries
- Jogging
- Cooking

LANGUAGE SKILLS (OTHER THAN ENGLISH):

- Fluent in Urdu, Punjabi and Hindi
- Working knowledge of Arabic.