

Muhammad Aftab, MD, FACS, FACC

Department of Surgery, Division of Cardiothoracic Surgery
University of Colorado School of Medicine
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ACADEMIC APPOINTMENTS- FACULTY/STAFF POSITIONS

2022 – To date	Associate Professor in Cardiothoracic Surgery Adult Cardiothoracic, Aortic and Endovascular Surgeon Chief, Cardiothoracic Surgery, Rocky Mountain Regional VA Medical Center Surgical Director, Lead Extraction Program Department of Surgery Division of Cardiothoracic Surgery University of Colorado, Anschutz Medical Campus Aurora, Colorado
2016 – 2022	Assistant Professor in Cardiothoracic Surgery Adult Cardiothoracic, Aortic and Endovascular Surgeon Surgical Director, Lead Extraction Program Department of Surgery Division of Cardiothoracic Surgery University of Colorado, Anschutz Medical Campus Aurora, Colorado
2014-2016	Staff Surgeon- Clinical Associate Advanced Aortic/Endovascular Surgery Department of Thoracic and Cardiovascular Surgery Cleveland Clinic Cleveland, Ohio Chair: Lars G. Svensson, MD, PhD Program Director: Eric Roselli, MD, FACS

EDUCATION - 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
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: Joseph S. Coselli, MD
2010 - 2011	Hofstra North Shore-LIJ School of Medicine North Shore / Long Island Jewish Health System, New Hyde Park, NY General Surgery, Chief Resident PGY-5 Department of General Surgery Chair: 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 Categorical General Surgery Resident PGY 1-4 Department of General Surgery Chair: 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)
2002 - 2004	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 (MEDICAL SCHOOL)

1993-1999	King Edward Medical University Lahore, Pakistan MBBS/MD
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MEDICAL LICENSURE & CERTIFICATION

- American Board of Thoracic Surgery (ABTS) (Certificate# 8096), Recertified 01/2024
- American Board of Surgery (ABS) (Certificate# 056774), Recertified 10/2023
- Fellow - American College of Surgeons, since 2017
- Fellow - American College of Cardiology, since 2016
- Colorado Medical Board, since 2015 (Active)
- State Medical Board of Ohio, since 2014 (Active)
- Texas Medical Board, since 2012 (Active)

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS:

- Fellow, American College of Surgeons (ACS), 2017 #03109802
- Fellow, American College of Cardiology (ACC), 2018 #1025004
- Active Member, American Association of Thoracic Surgery (AATS), 6/2024
- Active Member, Society of Thoracic Surgery (STS), since 2016 #242381
- Active Member, Western Thoracic Surgical Association (WTSA), since 2018
- Active Member, Southern Thoracic Surgery Society (STSA), since 2016

- Active Member, Eastern Cardiothoracic Surgical Society (ECTSS), since 2015
- Active Member, American Heart Association (AHA), since 2017
- Active Member, Association of Academic Surgery (AAS) since 2014
- Active Member, American Medical Association (AMA) since 2006

HONOURS/SPECIAL RECOGNITIONS/AWARDS

09/2024	Faculty Mentor for the Best Oral Cardiac Presentation Award Eastern Cardiothoracic Surgical Society (ECTSS) 62 nd Annual Meeting “Enhancing Aortic Surgery Outcomes: Machine Learning-Based RBC Transfusion Prediction” Mentee: Nicolas Chanes, MD
08/2024	5280: Denver’s Magazine Top Doctors Recognized for Excellence in Thoracic & Cardiac Surgery
01/2024	STS Leadership Academy Society of Thoracic Surgeons (STS)
10/2022	Faculty Mentor for the Best Oral Cardiac Presentation Award Eastern Cardiothoracic Surgical Society (ECTSS) Annual Meeting 10/09/2022 “An Analysis of Aortic Remodeling in TEVAR for Aortic Dissection: Balloon Flap Fracture vs. the Traditional Method” Mentee: Cenea Kemp, MD
09/2021	Faculty Mentor for Paul C. Samson Resident Manuscript Award Finalist Western Thoracic Surgical Association (WTSA) Annual Meeting 09/30/2021 “Outcomes of Venovenous Extracorporeal Membrane Oxygenation Support in Patients with Severe ARDS from COVID-19: A Multicenter Study” Mentee: Navin Vigneshwar, MD
07/2019	Best Multidisciplinary Research Collaborator Award M-TRAC (Multidisciplinary Translational Research in AKI Collaborative University of Colorado, Anschutz Medical Center, Aurora, Colorado
11/2019	Faculty Mentor for Hawley H. Seiler Resident’s Award Recipient Southern Thoracic Surgical Association (STSA) “Clinical Predictors of In-Hospital Mortality in Venoarterial Extracorporeal Membrane Oxygenation in Patients with Refractory Cardiogenic Shock” Mentee: Navin Vigneshwar, MD
05/2019	AATS Leadership Academy American Association for Thoracic Surgery
01/2019	Faculty Mentor for Best Cardiac Surgery Critical Care Poster Award Recipient The Society of Thoracic Surgeons (STS) “Platelet Nadir Following Cardiopulmonary Bypass is Independently Associated with Post-Operative Mortality, Infection, Acute Kidney Injury, and Prolonged ICU Stay” Mentee: Benjamin Griffin, MD

- 08/2018 R-21 Research Grant - National Institute of Health
National Institute of Diabetes and Digestive and Kidney Diseases
“Immunoparalysis in AKI after cardiac surgery”
08/01/2018-07/31/2021 (with renewal option after one year)
R-21 Grant (\$223,260)
Co-investigator
- 05/2018 Faculty Co-Mentor for Nicholas Kouchoukos Research Award Recipient
American Association for Thoracic Surgery (AATS)/Aortic Symposium 2018
Mentee: Katsuhiko Yamanaka, MD, Ph.D.
- 07/2017 Faculty Co-Mentor for Norman E. Shumway Research Award Recipient
Western Thoracic Surgical Association (WTSA)
Mentee: Katsuhiko Yamanaka, MD, Ph.D.
- 07/2017 Academic Enrichment Funds Seed Grant Committee (AEF)
“Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After
Aortic Surgery”
Grant (\$25,000)
Principal Investigator
- 06/2017 AATS Graham Foundation Award
Graham Surgical Investigator Award (\$100,000)
American Association for Thoracic Surgery (AATS)
“Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After
Aortic Surgery”
07/01/2017 – 06/30/2022
Principal Investigator
- 04/2014 Adult Cardiac Surgery Poster Winner, Third position
2014 Cardiothoracic Surgery Resident Poster Competition
American Association for Thoracic Surgery (AATS)
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
- 05/2006 Poster of Distinction Award 2006
American Gastroenterology Association (AGA)/ Digestive Disease Week
Award given to top 10% posters and abstracts
- 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

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES / LEADERSHIP (INTERNATIONAL, NATIONAL AND REGIONAL)

09/2024 – present	Member of Executive Council Eastern Cardiothoracic Surgery Society
09/2024 – present	Chair of Innovations and Research Committee Eastern Cardiothoracic Surgery Society
07/2024	Member TSDA In-Training Exam Cardiac Subcommittee Thoracic Surgery Directors Association
11/2023	Member Program and Abstract Review Committee 62 nd Annual meeting, Eastern Cardiothoracic Surgical Society The Ritz-Carlton, Naples, Florida
11/2023	Chair of Program and Abstract Review Committee 62 nd Annual meeting, Eastern Cardiothoracic Surgical Society The Ritz-Carlton, Naples, Florida
11/2023 – 09/2024	Member of Executive Council Eastern Cardiothoracic Surgery Society
11/2023- present	Chair of Program Committee 62nd Annual Meeting of Eastern Cardiothoracic Surgery Society (ECTSS) September 2024
06/2023 – present	Advisory Committee for Faculty Promotion and Tenure Department of Surgery University of Colorado Anschutz Medical Center
03/2023-01/2024	STS Leadership Academy
11/2022-11/2023	Chair of Program Committee (Cardiac) 61st Annual Meeting of Eastern Cardiothoracic Surgery Society (ECTSS) October 2023
10/2022 - 10/2023	Member of Executive Council Eastern cardiothoracic Surgery Society
10/2022	2022 AHA Surgery Fellowship Peer Review and Grants Committee American Heart Association
2021-2023	Member, Career Development Committee Eastern Cardiothoracic Surgery Society
11/2021	2021 AHA Surgery Fellowship Peer Review Grants Committee American Heart Association
10/2021	Program Committee - Cardiac Surgery Section American College of Surgeons ACS Virtual Clinical Congress 2021
12/2020	National Principal Investigator (PI) Multicenter registry for ECMO outcomes in COVID-19 ARDS
12/2020	2020 AHA Surgery Fellowship Peer Review Grants Committee American Heart Association

- 12/2019 **Reviewer, Panelist for Posters Session**
Pakistan Society of Cardiovascular and Thoracic Surgeons
Karachi, Pakistan, December 7, 2019
Aga Khan University, Karachi, Pakistan
- 10/2019 **Member of Program and Abstract Review Committee**
57th Annual meeting
Eastern Cardiothoracic Surgical Society
The Ritz-Carlton, Naples, Florida
- 2019-2022 **Member of Research and Innovations Committee**
Eastern Cardiothoracic Surgical Society
- 10/2019 **Program and Abstract Review Committee - Cardiac Surgery Section**
ACS Clinical Congress 2019,
Moscone Convention Center, San Francisco, CA
October 28, 2019
- 05/2019 **AATS Leadership Academy**
American Association for Thoracic Surgery
- 2018 **Reviewer Grants Committee**
Austrian Science Fund (FWF)
- 06/2017 - present **Inaugural Member/Investigator**
M-TRAC - Multidisciplinary Translational Research in AKI Collaborative
University of Colorado, Anschutz Medical Center, Aurora, Colorado
- 11/2016 – present **Surgical Director, Lead Extraction Program**
University of Colorado Anschutz Medical Campus, Aurora, CO
- 2016 - 2022 **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 **Member TSRA Executive Committee**
Thoracic Surgery Residents Association (TSRA)
(Session 2014-2015)
- 2013 **Member TSRA Executive Committee**
Thoracic Surgery Residents Association (TSRA)
(Session 2013-2014)
- 2012 **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	Faculty 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

LEADERSHIP - INSTITUTIONAL COMMITTEE AND SERVICE RESPONSIBILITIES:

University of Colorado/Anschutz Medical Center/RMR VA Medical Center

- **Member of Advisory Committee for Faculty Promotion and Tenure**, Department of Surgery, University of Colorado Anschutz Medical Center
- **University of Colorado Thoracic Aortic Surgery Program**, Cardiac Surgery Representative (one of two cardio-aortic surgeons), 2018-present (weekly meeting every Monday)
- **Surgical Director, Lead Extraction Program**, University of Colorado Anschutz Medical Campus, Aurora, CO, 11/2016 to present
- **Chief, Cardiothoracic Surgery**, Rocky Mountain Regional VA Medical Center
- **Lead Cardiac Surgeon, Thoracic Aortic program**, RMR VA Medical Center, 2017 to present
- **Lead Cardiac Surgeon**, University of Colorado cardiac/major venous mechanical thrombectomy rescue initiative.
- **Member**, Advanced Cardiac Therapies/Heart Failure Selection Committee (weekly meeting, every Thursday)
- **Member Weekly Cath Multidisciplinary Conference**, 2016-present (weekly meeting every Wednesday)
- **Inaugural Member/Investigator - Multidisciplinary Translational Research in AKI Collaborative (M-TRAC)** at the University of Colorado, Anschutz Medical Campus, Aurora, Colorado, 06/2017 to present
- **Cardiothoracic Surgery Fellowship Interview/Selection Committee** at the University of Colorado/Anschutz Medical Center, since 2016
- **General Surgery Residency Interview/Selection Committee** at the University of Colorado/Anschutz Medical Center, since 2016
- **CU School of Medicine, Medical Students Interview/Selection Committee**, University of Colorado, School of Medicine, Denver, CO – since 2020
- **Patient Blood management Committee**, University of Colorado Hospital, since 2021
- **Transfusion Committee**, University of Colorado Hospital, Since 2021

JOURNAL REVIEWING / EDITORIAL BOARDS/GRANTS REVIEWER

1. Editorial Board, Journal of Thoracic Diseases
2. Reviewer, AHA Surgery Fellowship Peer Review Grants Committee
3. Reviewer Grants committee, Austrian Science Fund (FWF)
4. Reviewer, Annals of Thoracic Surgery
5. Reviewer, European Journal of Cardiothoracic Surgery
6. Reviewer, Journal for Vascular and Endovascular Surgery
7. Reviewer, Journal of Thoracic Disease
8. Reviewer, Journal of Surgical Research
9. Reviewer, Journal of Cardiac Surgery

10. Reviewer, Annals of Cardiothoracic Surgery

INVITED DISCUSSANT / SCIENTIFIC SESSION MODERATOR / COURSE FACULTY

1. **Eastern Cardiothoracic Surgical Society 62nd Annual Meeting**
CT surgery Fellows Course Faculty, Topic: Endovascular Aortic Surgery-Total Arch Replacement
September 18, 2024; Naples, Florida
2. **Eastern Cardiothoracic Surgical Society 62nd Annual Meeting**
Moderator Expert Session I – Aortic Surgery
September 19, 2024; Naples, Florida
3. **Eastern Cardiothoracic Surgical Society 62nd Annual Meeting**
Moderator Plenary Session I
September 19, 2024; Naples, Florida
4. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Invited Moderator for Cardiovascular Movie Night
September 19, 2024; Naples, FL
5. **60th Annual Meeting of The Society of Thoracic Surgeons (STS)**
Course Faculty, STS University, Module: Aortic Root Enlargement
January 28, 2024; San Diego, CA
6. **CT surgery Fellows Course by Terumo Aortic Inc.**
Invited Course Faculty, Expert Module: Valve Sparing Root Replacement and Thoracic Endovascular Aortic Repair
December 14-16, 2023; Miami, FL
7. **12th Biennial Conference, Cardiothoracic Surgery Fellows Course**
Course Director, Module: Aortic Root Replacement
November 18, 2023; Peshawar, Pakistan
8. **Annual Meeting of Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)**
Course Director on 12th Biennial Aortic Root and Arch Replacement Workshop
November 16, 2023; Peshawar, Pakistan
9. **Aortic Valve and Root Boot camp for CTS Fellows by Artivion Inc.**
Invited Course Faculty, Expert Module: Valve Sparing Root Replacement
October 27-28, 2023; Atlanta, GA
10. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Invited Speaker, Expert Session IV: David Valve Sparing Root Replacement: How I Teach It
October 7, 2023; Eau Palm Beach, Manalapan, FL
11. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Invited Moderator for Expert Session I -- Cardiovascular
October 5, 2023; Eau Palm Beach, Manalapan, FL
12. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Invited Speaker for Plenary Session I
October 5, 2023; Eau Palm Beach, Manalapan, FL
13. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Invited Moderator for Cardiovascular Movie Night
October 5, 2023; Eau Palm Beach, Manalapan, FL

14. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
Course Faculty, Leadership Academy, Topic: Teaching in the Operating Room
October 4, 2023; Eau Palm Beach, Manalapan, Florida
15. **Eastern Cardiothoracic Surgical Society 61st Annual Meeting**
CT surgery Fellows Course Faculty, Topic: Thoracic Endovascular Aortic Repair - Tips and Techniques
October 4, 2023; Eau Palm Beach, Manalapan, Florida
16. **59th Annual Meeting of The Society of Thoracic Surgeons (STS)**
Course faculty, STS University, Module: Aortic Root Enlargement
January 23, 2023; San Diego, CA
17. **CT surgery Fellows Course by Terumo Aortic Inc.**
Course Faculty, Expert Module: Total Arch Replacement and Thoracic Endovascular Aortic Repair
December 8-9, 2022; Miami, FL
18. **Aortic Valve and Root Boot camp for CTS fellows by Artivion Inc.**
Course Faculty, Expert Module: Valve Sparing Root Replacement
October 28-29, 2022; Atlanta, GA
19. **American College of Surgeons, Clinical Congress 2022**
Course Faculty, Course Session: Aorto-Esophageal and Cardio-Esophageal Fistulae
Topic: Intra-Operative Endovascular and Open Management of Aorto-Enteric and Atrio-Esophageal Fistulas
October 19, 2022; San Diego, CA
20. **Academy, Eastern Cardiothoracic Surgical Society 60th Annual Meeting**
Course Faculty, Leadership; Topic: Teaching in the Operating Room
October 6, 2022; Eden Roc, Miami, Florida
21. **Eastern Cardiothoracic Surgical Society 60th Annual Meeting**
Moderator Expert Session IV - Transcatheter Aortic Work
October 9, 2022; Eden Roc, Miami, Florida
22. **Texas Cardiovascular Innovations Conference 2022**
Invited Speaker, Overview of Aortic Aneurysmal Disease and Type A Dissection
Contrasting Programs: University of Colorado Aortic Program & Methodist San Antonio Aortic Program
August 27, 2022; La Cantera Resort, San Antonio, TX
23. **Pakistan Association of Cardiovascular and Thoracic Surgery Annual Meeting 2022**
Invited Speaker: Evolution and Innovation in Optimizing the Brain Protection in Aortic Arch Surgery
May 21, 2022; Lahore, Pakistan
24. **Texas Cardiovascular Innovations Conference 2021**
Invited Speaker, Overview of Aortic Aneurysmal Disease
December 17, 2021; La Cantera Resort, San Antonio, Texas
25. **ACS Virtual Clinical Congress 2021**
Moderator Scientific Forum Session SF131 - Cardiac Surgery
October 23-27, 2021
26. **Eastern Cardiothoracic Surgical Society 59th Annual Meeting**
Moderator Expert Session II - Management of Patients in Cardiogenic Shock and Reviewing Advanced
Mechanical Circulatory Support
October 8, 2021; Eau Palm Beach, Manalapan, Florida
27. **Society of Thoracic Surgeons 56th Annual Meeting**
Role: Course Faculty, STS University Course: ECMO cannulation
January 25, 2020; Ernest N. Morial Convention Center, New Orleans, LA

28. **Society of Thoracic Surgeons 56th Annual Meeting**
Moderator, Introduction to Cardiothoracic Health Services Research
January 27, 2020; Ernest N. Morial Convention Center, New Orleans, LA
29. **Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference**
Moderator: Plenary Session, Cardiothoracic surgery 2020 and beyond
December 07, 2019; Karachi, Pakistan
30. **Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference**
Invited Core Course Faculty: Workshop 1 - Aortic annular enlargement
December 06, 2019; Karachi, Pakistan
31. **Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference**
Invited Core Course Faculty: Workshop 4 – Catheter Skills for Cardiac Surgeons
December 06, 2019; Karachi, Pakistan
32. **ACS Clinical Congress 2019**
Moderator, Cardiac Surgery I, ACS Clinical Congress 2019
October 28, 2019; Moscone Convention Center, San Francisco, CA
33. **Society of Thoracic Surgeons TEVAR Symposium**
Session Moderator: Branched Endografts for the Treatment of Aortic Arch Pathology
April 5, 2019; Chicago, IL
34. **Society of Thoracic Surgeons TEVAR Symposium**
Invited Core Course Faculty
April 4-5, 2019; Chicago, IL
35. **Eastern Cardiothoracic Surgical Society 56th Annual Meeting 2018**
Invited Speaker: Hybrid Aortic Arch Repair: Classification, technique, and pitfalls.
October 22, 2018; Clearwater Beach, Florida
36. **ACS Clinical Congress 2018**
Moderator, Cardiac Surgery Session I, ACS Clinical Congress 2018
October 21-23, 2018; Boston Convention and Exhibition Center, Boston, MA
37. **ACS Clinical Congress 2017**
Invited Discussant, Scientific Forum 18- Cardiac Surgery II
October 24, 2017; San Diego Convention Center
38. **Eastern Cardiothoracic Surgical Society 55th Annual Meeting**
Moderator Expert Session II
October 20, 2017; Omni Amelia Island Plantation Resort, Amelia Island, Florida
39. **Aortic Tech Exchange Course (Selected 24 Vascular and CT surgery Fellows in USA)**
Core Faculty for the Aortic Simulation Course/Cadaver Laboratory
April 20-21, 2017; Center for Surgical Innovation (CSI), University of Colorado, Aurora, CO
40. **ACS Clinical Congress 2016**
Invited Discussant, Scientific Forum 06 – Cardiac Surgery
October 17, 2016; Walter E. Washington Convention Center, Washington, D.C.

RESEARCH GRANTS (INTRAMURAL AND EXTRAMURAL)

08/2018	R-21 Research Grant - National Institute of Health National Institute of Diabetes and Digestive and Kidney Diseases “Immunoparalysis in AKI after cardiac surgery” 08/01/2018-07/31/2021 (with renewal option after one year) R-21 Grant (\$223,260) Co-investigator
05/2018	Product only (In-Kind) Grant by WL Gore “Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After Aortic Surgery” Value of Stent Graft Grant Donation (\$250,000) Principal Investigator
07/2017	Academic Enrichment Funds Seed Grant Committee (AEF) “Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After Aortic Surgery” Grant (\$25,000) Principal Investigator
06/2017	AATS Graham Foundation Graham Surgical Investigator Award (\$100,000) American Association for Thoracic Surgery (AATS) “Augmentation of Spinal Cord ‘Precollateralization’ to Prevent Paraplegia After Aortic Surgery” 07/01/2017 – 06/30/2022 Principal Investigator

PUBLICATIONS

Peer-Reviewed Articles (100 publications - 82 original peer reviewed publications and reviews, 18 editorials, invited commentaries and letters to the editor):

1. Cotton JL, Makinen J, Park SY, Halpern Mungo A, **Aftab M**, Hoffman JRH, Cain MT. Spontaneous Coronary Artery Dissection, Takotsubo Cardiomyopathy, and Venoarterial Extracorporeal Membrane Oxygenation in Pregnancy. *Innovations (Phila)*. 2024 Jun 3; 15569845241252443. doi: 10.1177/15569845241252443. Epub ahead of print. PMID: 38828949.
2. Carroll AM, Chanes N, Shah A, Dzubinski L, **Aftab M**, Reece TB. Personalizing Patient Risk of a Life-Altering Event: An Application of Machine Learning to Hemiarch Surgery, *J Thorac Cardiovasc Surg*. 2024 Apr 27; doi: 10.1016/j.jtcvs.2024.04.022. Epub ahead of print. PubMed PMID: 38685466.
3. Suarez-Pierre A, Iguidbashian J, Kirsch MJ, Cain MT, **Aftab M**, Reece TB, Fullerton DA, Rove JY, Cleveland JC Jr, Hoffman JRH. Association of Cardiac Preservation Solution with Short-Term Outcomes After Heart Transplantation. *J Cardiovasc Med (Hagerstown)*. 2024 Feb 1; 25(2):158-164. doi: 10.2459/JCM.0000000000001575. Epub 2023 Dec 22. PMID: 38149702
4. Carroll AM, King RW, Ghincea CV, **Aftab M**, Reece TB. Spinal Cord Protection for Thoracoabdominal Aortic Aneurysm Repair: From Bench to Bedside. *Ann Cardiothoracic Surg*. 2023 Sep 28; 12(5):438-449. doi: 10.21037/acs-2023-scp-08. Epub 2023 May 15. PMID: 37817853; PMCID: PMC10561340.
5. Wilson King R, Carroll AM, Higa KC, Cleveland JC Jr, Rove JY, **Aftab M**, Brett Reece T. Frozen Elephant Trunk for Acute Type A Dissection: Is Risk from Procedure or Patient Characteristics? *Aorta (Stamford)*. 2023 Jun; 11(3):112-115. doi: 10.1055/s-0043-1768970. Epub 2023 Aug 24. PMID: 37619568; PMCID: PMC10449567.

6. Schäfer M, Carroll A, Carmody KK, Hunter KS, Barker AJ, **Aftab M**, Reece TB. Aortic Shape Variation After Frozen Elephant Trunk Procedure Predicts Aortic Events: Principal Component Analysis Study. *JTCVS Open*. 2023 Feb 2; 14:26-35. doi: 10.1016/j.xjon.2023.01.015. PMID: 37425456; PMCID: PMC10328758.
7. Netsanet A, Cotton J, Suarez-Pierre A, Hoffman J, **Aftab M**, Reece B, Rove JY. Cardiac Surgeons Highlight the Need for Innovation Stewardship: Noteworthy in 2022. *Semin Cardiothorac Vasc Anesth*. 2023 Jun; 27(2):136-144. doi: 10.1177/10892532231173090. Epub 2023 Apr 25. PMID: 37098029.
8. Gergen AK, Kemp C, Ghincea CV, Feng Z, Cleveland JC Jr, Pal JD, Rove JY, Fullerton DA, **Aftab M**, Reece TB. Challenging Paradigm Limits of Retrograde Cerebral Perfusion During Lower Body Circulatory Arrest. *J Surg Res*. 2022 Nov 30; 283:699-704. doi: 10.1016/j.jss.2022.10.099. Epub ahead of print. PMID: 36462379.
9. Vigneshwar NG, Masood MF, Vasic I, Krause M, Bartels K, Lucas MT, Bronsert M, Selzman CH, Thompson S, Rove JY, Reece TB, Cleveland JC, Pal JD, Fullerton DA, **Aftab M**. Venovenous Extracorporeal Membrane Oxygenation Support in Patients with COVID-19 Respiratory Failure: A Multicenter Study. *JTCVS Open*. 2022 Sep 8; doi: 10.1016/j.xjon.2022.08.007. [Epub ahead of print] PubMed PMID: 36097635; PubMed Central PMCID: PMC9451935.
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85. 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; 42(5):468-70. doi: 10.14503/THIJ-14-4732. eCollection 2015 Oct. PubMed PMID: 26504444; PubMed Central PMCID: PMC4591890.
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88. 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; 42(1):66-9. doi: 10.14503/THIJ-13-3731. eCollection 2015 Feb. PubMed PMID: 25873804; PubMed Central PMCID: PMC4378050.
89. **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*. 2015 Feb; 149(2 Suppl):S134-41. doi: 10.1016/j.jtcvs.2014.09.038. Epub 2014 Sep 18. PubMed PMID: 25439781.
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96. 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.
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100. 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 Gastrointestinal Liver Physiol*. 2007 Jun; 292(6):G1520-33. doi: 10.1152/ajpgi.00236.2006. Epub 2007 Feb 8. PubMed PMID: 17290010.

Published Peer-Reviewed Abstracts:

1. Mohamed Eldeiry, Patrick Kohtz, Allison Halpern, Joseph C Cleveland, David Fullerton, T. B Reece, **Muhammad Aftab**, Abstract 16777: Augmentation of Spinal Cord Pre-Collateralization to Prevent Paraplegia After Aortic Surgery, Originally published 5 Nov 2018 *Circulation*. 2018;138: A16777.
2. Katsuhiro 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.
3. **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.
4. **Muhammad Aftab**, Vijay Kamath, Rajeev Gupta, Frank Manetta, Alan Hartman, Richard Schutzer, Mihai Rosca, Kambhampaty Krishnasastri. 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.
5. N. Belaguli, **M. Aftab**, M. Zhang, F. Ayanbule, M. Rigi, A. Sakar, D.H. Berger. Post-transcriptional Regulation of GATA6 Expression in Colon Cancer. *Journal of Surgical Research*, 151(2):296, February 2009.
6. 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.
7. 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.

8. **M. Aftab**, N.S. Belaguli, M. Mushtaq, D.H. Berger. Transforming growth factor $\alpha 1$ (TGF $\alpha 1$) differentially regulates protease production and cellular invasion in human colon cancer. *Journal of Surgical Research*, Volume 130(2):168-169, February 2006.
9. N.S. Belaguli, **M. Aftab**, M. Zhang, M.A. Helmraath, D.H. Berger. Cardiac ankyrin repeat protein (CARP) is an intestinal epithelium expressed TGF Beta1 target gene. *Journal of Surgical Research*, Volume 130(2):253, February 2006.
10. 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 (total number 14):

1. Hoffman J, **Aftab M**, Fullerton DA: Management of Aortic Valve Diseases STS Adult Cardiac Surgery (E-Book 10/2020).
2. **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).
3. **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).
4. **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).
5. **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).
6. **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).
7. **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).
8. **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).
9. **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).
10. **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).
11. **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).
12. **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.

13. **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.
14. **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).

INVITED LECTURES / GRAND ROUNDS/ PRESENTATION AT NATIONAL AND REGIONAL MEETINGS

Grand Rounds:

1. **Optimizing Renal Outcomes After Cardiac Surgery – Why Should This Matter?**
Sponsored by The Department of Surgery
University of Colorado, Anschutz Medical Center
Presented on 10/26/2020
2. **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
3. **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
4. **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
5. **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

ORAL PRESENTATIONS AT INTERNATIONAL/NATIONAL/REGIONAL CONFERENCES/INVITED LECTURES:

1. **Spinal Drain Management in Thoracic Endovascular Aortic Repair (TEVAR) and Open Repair of Thoracoabdominal Aortic Aneurysm (TAAA)**
Invited Lecture, Surgical ICU Core Conference
November 11, 2024; University of Colorado Hospital, Aurora, CO

2. **Aortopathies – Connective Tissue Disorders**
Invited Speaker -- ASC Cardiology/Cardiac Surgery Curriculum MS-II: Aortic Disease
November 11, 2024; CU School of Medicine
3. **Endovascular Repair of a Residual Aortic Dissection on an Elderly High-Risk Patient**
Invited Speaker – Focus of Aortic Diseases
Bologna Heart Surgery Symposium
October 29, 2024; Bologna, Italy
4. **TEVAR for Type B Aortic Dissection 101**
Invited Speaker, Expert Session – Aortic, Surgery
Eastern Cardiothoracic Surgery Society 62nd Annual Meeting
September 19, 2024; Naples, FL
5. **How I Do It: Vegetomy and Transcatheter Techniques for Endocarditis**
Invited Speaker, Expert Session – Aortic, Surgery
Eastern Cardiothoracic Surgery Society 62nd Annual Meeting
September 21, 2024; Naples, FL
6. **Contemporary Approaches to Brain Protection with Hypothermic Circulatory Arrest in Aortic Surgery**
Invited Speaker, Annual Meeting of Association of Surgical Technologists
May 31, 2024; Denver, CO
7. **ECMO Cannulation, Decannulation and Management**
Invited Lecture, Cardiology Fellows Core Conference
January 9, 2024; University of Colorado/Anschutz Medical Center, Aurora, CO
8. **Hemiarch Replacement at 28°C using Retrograde Cerebral Perfusion with High Flow and Pressure is Safe and Effective**
Invited Speaker, Expert Session, Annual Meeting of Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)
November 17, 2023; Peshawar, Pakistan
9. **State of the Art – Hybrid Aortic Surgery and Building a Complex Endovascular/Aortic Program**
Keynote Speaker, Plenary Session, Annual Meeting of Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)
November 17, 2023; Peshawar, Pakistan
10. **Debate: Transcatheter Approaches to Valvular Disease – Surgeon Perspective**
Annual Meeting of Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)
November 17, 2023; Peshawar, Pakistan
11. **David Valve Sparing Root Replacement: How Do I Teach It?**
Invited Speaker for the Expert Plenary Session, Eastern Cardiothoracic Surgery Society (ECTSS) Annual Meeting 2023
October 7, 2023; Eau Palm Beach, Manalapan, FL
12. **Teaching Cardiac Surgery in the Operating Room**
Invited Speaker for the ECTSS Leadership Academy, Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2023
October 7, 2023; Eau Palm Beach, Manalapan, FL
13. **Endovascular Aortic Repair Surgery (TEVAR): How to Preform?**
Course Faculty for Advanced Cardiac Course, Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2023
October 04, 2023; Eau Palm Beach, Manalapan, FL

14. **ECMO Cannulation, Decannulation and Management**
Invited Lecture, Cardiology Fellows Core Conference
May 16, 2023; University of Colorado/Anschutz Medical Center, Aurora, CO
15. **Strategies for the Prevention of Acute Kidney Injury**
Invited Quality Lecture, Faculty of Division of Urology, Department of Surgery
May 16, 2023; University of Colorado/Anschutz Medical Center, Aurora, CO
16. **Protocol for Renal Protection in Cardiovascular Patients**
Invited Quality Lecture, Faculty of Division of Cardiac and Vascular, Department of Surgery
March 22, 2023; University of Colorado/Anschutz Medical Center, Aurora, CO
17. **Contemporary Management of Type B Aortic Dissection – A Case Based Review
Cardiothoracic Surgery Fellows Course**, by Terumo Aortic Inc.
December 9-10, 2022; Miami, FL
18. **Intra-Operative Endovascular and Open Management of Aorto-Enteric and Atrio-Esophageal
Fistulas**
Invited Faculty for Course Session: Aorto-Esophageal and Cardio-Esophageal Fistulae
American College of Surgeons, Clinical Congress 2022
October 19, 2022; San Diego, CA
19. **Transcatheter Approaches for The Valvular Disease (Debate - Cardiac Surgeon’s Perspective)**
Invited Speaker for the expert session in Multidisciplinary Cardiothoracic Surgery
Eastern Cardiothoracic Surgery Society (ECTSS) 60th Annual Meeting 2022
October 07, 2022; Miami, FL
20. **An Analysis of Aortic Remodeling in TEVAR for Aortic Dissection: Balloon Flap Fracture vs the
Traditional Method**
Invited Speaker, Eastern Cardiothoracic Surgical Society Annual Conference
October 7, 2022; Miami, FL
21. **Expert Session II: Multidisciplinary Cardiothoracic Surgery**
Invited Speaker
Eastern Cardiothoracic Surgical Society Annual Conference
October 7, 2022; Miami, FL
22. **Teaching Cardiac Surgery in the Operating Room**
Invited Speaker for the ECTSS Leadership Academy
Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2022
October 06, 2022; Miami, FL
23. **Overview of Aortic Aneurysmal Disease and Type A Dissection**
Invited Speaker, Texas Cardiovascular Innovations Conference 2022
August 27, 2022; La Cantera Resort in San Antonio, TX
24. **Overview of Aortic Aneurysmal Disease**
Invited Speaker, Texas Cardiovascular Innovations Conference 2021
December 17, 2021; La Cantera Resort in San Antonio, TX
25. **Management of Acute Aortic Dissection**
Invited Lecture, Cardiology Fellows Core Conference
April 05, 2021; University of Colorado/Anschutz Medical Center, Aurora, CO
26. **Spinal Drain Management in Thoracic Endovascular Aortic Repair (TEVAR) and Open Repair of
Thoracoabdominal Aortic Aneurysm (TAAA)**
Invited Lecture, Surgical ICU Core Conference
February 22, 2021; Rocky Mountain Regional VA Medical Center, Aurora, CO

27. **Great Debates in Cardiology: Non-Functional ICD Lead: Leave 'Er In**
Invited Speaker for the Session
5th Annual "Colorado Heart Failure Summit" with the *American College of Cardiology, Colorado Chapter*
December 13, 2019; Colorado Spring, CO
28. **Transcatheter Aortic Valve Replacement (TAVR)– Current Status and Future Perspectives**
Invited Speaker, Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference
Cardiothoracic Surgery 2020 and Beyond
December 07, 2019; Agha Khan University Hospital, Karachi, Pakistan
29. **Contemporary Experience Using Hemiarch Technique for Repair of Acute Type-A Aortic Dissection**
Invited Speaker, Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference
Cardiothoracic Surgery 2020 and Beyond
December 07, 2019; Agha Khan University Hospital, Karachi, Pakistan
30. **Use of Intravascular Ultrasound for Management of Acute Type A Dissection**
Invited, Speaker, Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference
Cardiothoracic Surgery 2020 and Beyond
December 07, 2019; Agha Khan University Hospital, Karachi, Pakistan
31. **Branched Endovascular Arch Repair – Is this the Future of Arch Surgery?**
Invited Speaker, Expert Session I, Eastern Cardiothoracic Surgical Society 57th Annual Meeting 2019
October 17, 2019; Naples, FL
32. **Brain Protection Strategies in Aortic and Cardiac Surgery**
Invited Core Didactic Lecture, Neurology Stroke Fellowship
June 06, 2019; University of Colorado/Anschutz Medical Center, Aurora, CO
33. **Aortic Arch Repair: Classification, Technique, and Pitfalls.**
Invited Speaker, Expert Session I, Eastern Cardiothoracic Surgical Society 56th Annual Meeting 2018
October 22, 2018; Clearwater Beach, FL
34. **Thoracoabdominal Aortic Dissection (Type B / DeBakey III) Dissection**
Invited Lecture, Vascular Surgery Conference
March 26, 2018; University of Colorado, Denver, CO
35. **Cannulation and Decannulation for ECMO**
Invited Lecture, ECMO Specialists Annual Training Course
January 11, 2018; University of Colorado/Anschutz Medical Center, Aurora, CO
36. **Role of Cardiac Surgery in the Management of Atrial Fibrillation**
Guest Speaker, Colorado Arrhythmia Symposium 2017
September 16, 2017; Boulder, CO
37. **Sizing for Thoracic Endovascular Aortic Repair**
Invited Lecture/Core Course Faculty, Aortic Tech Exchange Course (Selected 24 Vascular and CT surgery
Fellows in USA)
April 20-21, 2017; Center for Surgical Innovation (CSI), University of Colorado, Aurora, CO
38. **Management of Acute Type B Aortic Dissection – New Treatment Paradigm.**
Invited Lecture, Combined Cardiac Surgery/Vascular & Endovascular Surgery/Interventional Radiology
Conference
October 14, 2016; University of Colorado Hospital, Aurora, CO
39. **Total Endovascular Repair of Aortic Arch Using Inner Branched Arch Endograft**
Oral Presentation at the 96th Annual Meeting of American Association for Thoracic Surgery
May 14-18, 2016; Baltimore, MD

40. **Open Distal Fenestration of Chronic Dissection Facilitates Endovascular Elephant Trunk Completion: Late Outcomes**
Oral presentation at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016
January 23-27, 2016; Phoenix, Arizona
41. **Endovascular Stent Grafting for Leaking Ascending Aortic Pseudo-Aneurysms.**
Oral presentation at the 53rd Annual Meeting of the Eastern Cardiothoracic Surgical Society (ECTSS)
October 15, 2015; Palm Beach, FL
42. **Ventricular Embolization of the Valve Prosthesis During Transapical Transcatheter Aortic Valve Implantation**
Oral presentation at the Southern Thoracic Surgical Association (STSA) 61st Annual Meeting
November 5, 2014; Tucson, Arizona
43. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**
Cardiothoracic Surgery Resident Poster Competition, American Association of Thoracic Surgery (AATS)
April 27, 2014; Toronto, Canada
44. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**
Plenary Session, American Association of Thoracic Surgery (AATS) Aortic Symposium 2014
April 24-26, 2014; New York, NY
45. **Surgical Management of Transapical Aortic Valve Migration - A Case Presentation**
Invited Speaker, Challenging TAVI Cases by the Fellows, Edwards Lifesciences Cardiac Fellows Program
November 7-9, 2013; Irvine, CA
46. **Complication of Intra-Aortic Balloon Pump Therapy**
Invited Lecture, Cardiothoracic and Vascular Surgery Service
April 17, 2014; Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX
47. **Alkaptonuria- A Rare Etiology of Aortic Valve Stenosis**
Invited Lecture, Mortality and Morbidity Conference
June 05, 2014; Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX
48. **Contemporary Outcomes of Open Thoracoabdominal Aortic Aneurysm Repair in Octogenarians**
2nd Annual Resident, Research Day Symposium
June 04, 2014; Michael E. DeBakey Department of Surgery, Houston, TX
49. **Marfan Syndrome – A Surgical Disease**
Invited Lecture, Cardiothoracic and Vascular Surgery Service
May 2, 2013; Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX
50. **Triple Valve Surgery**
Invited Lecture, Cardiothoracic and Vascular Surgery Service
May 2, 2013; Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX
51. **Management of Sternal Fractures**
Cardiothoracic, Vascular and General Surgery
February 8, 2013; Ben Taub General Hospital/Baylor College of Medicine, Houston, TX
52. **Thoracic Outlet Syndrome**
Invited Lecture, Department of Thoracic and Cardiovascular Surgery
April 2012; Texas Heart Institute at Baylor St. Luke's Medical Center, Houston, TX
53. **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; Pittsburgh, PA

54. **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; Pittsburg, PA
55. **Primary Esophageal Melanoma- A Case Report and Review of Literature**
Cardiothoracic Surgery Conference
September 27, 2011; The University of Texas MD Anderson Cancer Center, Houston, TX
56. **Hybrid Thoracic Endovascular Aortic Repair (TEVAR) for Complex Aortic Pathology - Early and Mid-term Outcomes**
Poster presentation at Annual Meeting of Society of Vascular Surgery (SVS)
June 2011; Chicago, IL
57. **Should Endovascular Stent Grafting Be the Standard of Care in Multi-Trauma Patients with Blunt Thoracic Aortic Injury (BTAI)?**
Poster presentation at the Society of Clinical Vascular Surgery (SCVS) 39th Annual Symposium
March 2011; Orlando, FL
58. **Endovascular Treatment of Blunt Thoracic Aortic Injuries- A Mid-Term Follow-Up**
Annual Clinical Day of American College of Surgeons – Brooklyn & Long Island Chapter.
September 2011; San Francisco, CA
59. **Central Nervous System Abscess: A Rare Complication of Diverticulitis**
Contribution: Co-author, Annual Clinical Congress, American College of Surgeons
October 2010; Washington, D.C.
60. **Surgical Management of Advanced Obstructing Duodenal Cancer: A Palliative Treatment**
Presenter at the Mortality and Morbidity Conference
August 13, 2009; Long Island Jewish Hospital, New Hyde Park, NY
61. **Management of Retained Bile Duct Stones After Uncomplicated Laparoscopic Cholecystectomy**
Presenter at the Mortality and Morbidity Conference
August 13, 2009; Long Island Jewish Hospital, New Hyde Park, NY
62. **Management of Anastomotic Leak after Loop Ileostomy Reversal and Total Abdominal Hysterectomy**
Presenter at the Mortality and Morbidity Conference
August 13, 2009; Long Island Jewish Hospital, New Hyde Park, NY
63. **Pediatric Surgery- A Review of Complex Surgical Conditions**
Presenter at the Surgical Conference
February 23, 2009; Long Island Jewish Hospital, New Hyde Park, NY
64. **Management of Benign and Malignant Surgical Breast Conditions**
Presenter
January 13, 2009; North Shore University Hospital, Manhasset, NY
65. **Challenges in Surgical Treatment of Perforated Diverticulitis in Immuno-compromised Patients**
Presenter at the Mortality and Morbidity Conference
January 27, 2009; North Shore University Hospital, Manhasset, NY
66. **Posttranscriptional Regulation of GATA6 Expression in Colon Cancer**
Contribution: Co-author, Association of Academic Surgery (AAS) / 4th Academic Surgical Congress 2009
February 2009; Chicago, IL
67. **Surgical Management of Liver Tumors**
Presenter at the Surgical Conference
December 16, 2008; North Shore University Hospital, Manhasset, NY

68. **Management of Surgical Conditions of Appendix**
Presenter at the Surgical Conference
November 11, 2008, North Shore University Hospital, Manhasset, NY
69. **Management of Critical Patients with Various Forms of Shock - An Algorithm**
Presented at Long Island Jewish Hospital
August 17, 2007; New Hyde Park, NY
70. **Cytokines – the Mediators of Inflammation in Critically Ill Patients**
Presented at Long Island Jewish Hospital, New Hyde Park, NY
August 7, 2007; New Hyde Park, NY
71. **Management of Patients with Transfusion Related Acute Lung Injury (TRALI)**
Presented at Long Island Jewish Hospital
July 20, 2007; New Hyde Park, NY
72. **Management of Splenic Trauma**
Presented at North Shore University Hospital
April 3, 2007; Manhasset, NY
73. **TGF β 1 and GATA6 Cooperatively Regulate the Urokinase Plasminogen Activator**
Primary Presenter, Association of Academic Surgery (AAS) / 3rd Academic Surgical Congress
February 2007; Phoenix, AZ
74. **Management of Spinal Cord Injuries**
Presented at North Shore University Hospital
October 16, 2006; Manhasset, NY
75. **Management of Cervical Cord Injuries**
Presented at North Shore University Hospital
October 23, 2006; Manhasset, NY
76. **PIAS-1 Promotes GATA4 Sumoylation and Potentiates GATA4 Mediated Transcriptional Activation of Intestinal Promoters**
Digestive Disease Week (DDW) - 2006 American Gastroenterological Association (AGA)
Poster of Distinction Award – Awarded to Top 10% poster of DDW
May 2006; Los Angeles, CA
77. **Transforming Growth Factor Beta1 (TGF β 1) Differentially Regulates Protease and Cellular Invasion in Human Colon Cancer**
Primary Presenter at the Association of Academic Surgery (AAS) 1st Academic Surgical Congress
February 2006; San Diego, CA
78. **GATA Factors Regulate Urokinase Plasminogen Activator (uPA) Gene Expression in Intestinal Epithelial Cells**
Presenter at the Association of Academic Surgery (AAS), 1st Academic Surgical Congress 2006
February 2006; San Diego, CA
79. **Cardiac Ankyrin Repeat Protein (CARP) is an Intestinal Epithelium Expressed TGF- β Target Gene**
Oral poster presentation at the Society of University Surgeons (SUS), 1st Academic Surgical Congress
February 2006; San Diego, CA
80. **Urokinase Gene Expression in Colon Cancer Cells is Regulated by GATA Factors**
Poster Presentation at Molecular Surgeon Research Day 11/2005
November 2005; Michael E. DeBakey Department of Surgery, Baylor College of Medicine, Houston, TX
81. **Urokinase Gene Expression in Colon Cancer is Regulated by GATA4 and GATA6**
Poster presentation presented at the Baylor Cancer Center Research Symposium
November 2005; Houston, TX

82. **Urokinase Gene Expression in Colon Cancer Cells is Regulated by GATA4 and GATA6**
Oral Poster Presentation at AACR (American Association of Cancer Research) Meeting "Colorectal Cancer: Molecular pathways and therapies"
October 19-23, 2005; Dana Point, CA
Awarded Scholar-in-Training Award by AACR

NATIONAL AND REGIONAL CONFERENCES - ORAL AND POSTER PRESENTATIONS WITH PUBLISHED ABSTRACTS (BY MENTEES - RESIDENTS/FELLOWS)

September 2024

1. **Operative Management of Aorto-Pulmonary Fistulas and an Algorithm for Treatment**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: Tylor Thai, MS-II
Oral Presentation, Scientific Session II
Role: Principal Investigator/Mentor
2. **Urgent Zone 0 Arch Repair with Thoracic Branched Endoprosthesis Following Aortic Debranching: Case Video**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: BC Brian Wu, MD
Oral Presentation, Movie Night
Role: Principal Investigator/Mentor
3. **Impact of Concomitant Coronary Artery Bypass Grafting on Risk of Major Adverse Cardiovascular Events in Elective Aortic Arch Surgery**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: BC Brian Wu, MD
Oral Presentation, Scientific Session I
Role: Principal Investigator/Mentor
4. **History of Previous Circulatory Arrest Does Not Increase the Risk for Stroke or Other Complications in Subsequent Total Arch Replacement**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: BC Brian Wu, MD
Poster Presentation
Role: Principal Investigator/Mentor
5. **Enhancing Aortic Surgery Outcomes: Machine Learning-Based RBC Transfusion Prediction**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: BC Brian Wu, MD
Poster Presentation
Role: Principal Investigator/Mentor
6. **Thoracic Branched Endoprosthesis: Initial Experience at a High-Volume Center**
Presented at the 62nd Eastern Cardiothoracic Surgical Society
Presenter: BC Brian Wu, MD
Poster Presentation
Role: Principal Investigator/Mentor

April 2024

1. **Forecasting Post-operative Stroke Risk in Operative Management of Urgent and Emergent Type A Aortic Dissection**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor

2. **A Case Series of Aorto-Pulmonary Fistula: Review of Operative Management, and an Algorithm for Treatment**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
3. **Acute Kidney Injury of Any Degree in Total Arch Surgery Contributes to Stepwise Increase in Post Operative Morbidity and Mortality**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
4. **Adjunctive Ring Annuloplasty in Valve Sparing Root Replacement**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
5. **Advancing Post-Surgical Care: Machine Learning Prediction of Red Blood Cell Transfusion After Elective Aortic Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
6. **Alternative Surgical Management for Patients Requiring Complex Cardiac Procedures but Unable to Receive Blood Products**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
7. **An Adjunct Strategy to Address Severe Aortic Tortuosity in Endovascular Management of Aortic Aneurysm**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
8. **Aortic Root Replacement in Type A Aortic Dissection is Protective from Distal Reintervention**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
9. **Assessment of Wound Infection Risks Post-Hemiarch Surgery: A Logistic Regression Approach**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
10. **Cerebral Protection in Circulatory Arrest Patients: The “Shaggy Aorta” Protocol**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor

11. **Decreased Long-Term Survival After Severe Acute Kidney Injury in Hemiarch Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
12. **Destruction of the Button: Unplanned CABG in Aortic Root Replacement Significantly Increases Mortality**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
13. **Development and Management of Aortic Pseudoaneurysm After Stenting for Aortic Coarctation**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
14. **Effect of Renal Recovery on Long-Term Survival After Aortic Arch Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
15. **Evaluating Patient Outcomes and Access to Care in Aortic Surgery Based on Ethnicity and Social Vulnerability**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
16. **Exploring the Impact of Socioeconomic Vulnerability on Elective Aortic Valvular Surgery Presentation and Outcomes**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
17. **Increased Risk of Major Adverse Cardiovascular Events in Elective Aortic Arch Surgery Undergoing Concomitant Coronary Artery Bypass Grafting**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
18. **Institutional Experience of Post-Dissection Repair Aortic Root Pseudoaneurysms and an Algorithm for Treatment**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
19. **Logistic Regression as a Predictive Tool of Post-Operative Mortality in Hemiarch Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor

- 20. Management and Outcomes of Endocarditis-Related Aortic Root Pseudoaneurysms**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 21. Mitochondrial Transplantation is Feasible in an In Vitro Neuronal Cell Model and Ameliorates Ischemia-Reperfusion Injury**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 22. Operative Urgency in Total Arch Replacement: Urgent Patients Benefit from Pre-Operative Optimization**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 23. Optimizing Aortic Coverage with Zone 2 Arch Replacement and a Short-Stent Cuff: the “Buff Cuff” Procedure**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 24. Optimizing Postoperative Surveillance Imaging Following Elective Aortic Hemiarch Replacement**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 25. Pulmonary Artery Injury is Inconsequential in Re-Do Aortic Arch Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 26. Re-Do Aortic Root Replacement has Comparable Morbidity and Mortality to New Root Replacement with Previous Sternotomy**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 27. Residual Flow in Covered Area After Elephant Trunk Predicts Unplanned Endovascular Extension**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
- 28. Subclavian Artery Aneurysms in Marfan Syndrome: A Clinical Dilemma**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor

29. **Temporal Trends in Aortic Valve Surgery: Preserving the Valve**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
30. **The Application of Aortic Debranching to Facilitate Zone 0 Coverage with Thoracic Branched Endograft**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
31. **Thoracic Branched Endograft for the Treatment of Blunt Thoracic Aortic Injury with Retroesophageal Aberrant Right Subclavian Artery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
32. **Predicting Renal Replacement Therapy After Total Arch Surgery Using Machine Learning**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
33. **Prior Circulatory Arrest is Not a Risk Factor for Stroke or Other Adverse Outcomes in Total Arch Replacement**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
34. **Personalizing Patient Risk of a Life Altering Event: An Application of Machine Learning to Hemiarch Surgery**
Presented at the Aortic Symposium 2024, American Association for Thoracic Surgery
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor

November 2023

1. **Left Ventricular Remodeling and Diastolic Dysfunction Following TEVAR Therapy for the Descending Thoracic Aortic Aneurysm**
Presented at the 70th Annual Meeting Southern Thoracic Surgical Association
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
2. **The Impact of Social Vulnerability on Aortic Arch Surgery**
Presented at the American Heart Association Scientific Session 2023
Presenter: Adam M. Carroll, MD
Oral Poster Presentation
Role: Principal Investigator/mentor
3. **Type A Aortic Dissection with Malperfusion Syndrome: Comparing Immediate Repair Outcomes for Hemiarch Versus Total Arch and Frozen Elephant Trunk**
Presented at 12th Biennial Conference of Pakistan Association of Cardiovascular and Thoracic Surgeons
Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

4. **Hemiarch Replacement at 28 Degrees Celsius Using Retrograde Cerebral Perfusion with High Flow and Pressure is Safe and Effective**

Presented at the 12th Biennial Conference of Pakistan Association of Cardiovascular and Thoracic Surgeons

Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

5. **Advanced Stage CKD Patients Have Inferior Outcomes Compared to Dialysis Dependent ESRD Patients in Cardiac Surgery**

Presented at the 12th Biennial Conference of Pakistan Association of Cardiovascular and Thoracic Surgeons

Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

October 2023

1. **Risk Factors and Short- and Long-Term Outcomes Associated with Acute Kidney Injury in Total Arch Replacement**

Presented at the 60th Annual Eastern Cardiothoracic Surgical Society Meeting

Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

2. **Prolonged Cardiopulmonary Bypass and Circulatory Arrest Times are Associated with Worsening Acute Kidney Injury in Hemiarch Surgery**

Presented at the 60th Annual Eastern Cardiothoracic Surgical Society Meeting

Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

3. **False Lumen Thrombosis Predicts Need for Unplanned Endovascular Extension After Elephant Trunk Surgery**

Presented at the 60th Annual Eastern Cardiothoracic Surgical Society Meeting

Presenter: Adam M. Carroll, MD

Oral Poster Presentation

Role: Principal Investigator/mentor

June 2023

1. **High Flow, High Pressure Retrograde Cerebral Perfusion at 28 Degrees Celsius is Safe and Effective for Hemiarch Replacement of the Ascending Aorta**

Presented at the 49th Annual Meeting, Western Thoracic Society Association (WTSA)

Presenter: R. Wilson King, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

February 2023

1. **A Minimally Invasive Hybrid Approach and Algorithm for Aberrant Subclavian and Kommerell's Diverticulum**

Presented at the 19th Annual Academic Surgical Congress

Presenter: Adam Carroll, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

2. **Stable ESRD Patients have Superior Outcomes to Advanced Stage CKD Patients in Cardiac Surgery**
Presented at the 19th Annual Academic Surgical Congress
Presenter: Adam Carroll, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

June 2022

1. **Frozen Elephant Trunk for Acute Type A Dissection: Is Risk from Procedure or Patient Characteristics?**
Presented at the 48th Annual Meeting of Western Thoracic Society Association Conference
Presenter: Robert King, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

May 2022

1. **A Clinical Algorithm for Management of the Left Subclavian Artery in Aortic Arch Repair**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Adam Carroll, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
2. **Arch Replacement to Eliminate Stroke from Residual Dissection Flap**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
3. **Comparison of Access Site Complications Using Percutaneous Access vs. Surgical Cutdown for Thoracic Endovascular Aortic Repair and Transcatheter Aortic Valve Replacement**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Adam Carroll, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
4. **Complete Neurological Recovery After Treatment of Type I Aortic Dissection Presenting with Paraplegia**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Leighton McCabe, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
5. **Contemporary Institutional Experience with Elective Hemiarch Aortic Repair**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
6. **Development of De Novo Graft Thrombus after Thoracic Endovascular Aortic Repair for Blunt Thoracic Aortic Injury: A Case Series and Algorithm for Treatment**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Adam Carroll, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

7. **Discerning True Deficits from the Noise – Interpretation of Neuromonitoring Abnormalities during TEVAR**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

8. **Do Warmer Nadir Circulatory Arrest Temperatures Still Provide Neurologic Protection During Total Aortic Arch Replacement**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

9. **Does a Diagnosis of a Connective Tissue Disorder Carry an Increased Risk for Postoperative Complications Following Aortic Intervention?**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

10. **Early Thoracic Endovascular Aortic repair (TEVAR) in Acute Type B Aortic Dissection with Malperfusion**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

11. **Evaluating Differences in Aortic Arch Intervention Outcomes Based on Gender**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

12. **Does Aortic Intervention Pose Increased Risk to Patients 70 Years of Age and Older?**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

13. **Evaluating Postoperative Outcomes in Total Aortic and Hemiaortic Arch Repairs Based on Cardiothoracic Surgery Fellow Year in Training**

Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

- 14. Evolution of Cannulation Strategy and Temperature Management in Hemiarch Aortic Repair**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 15. Female Sex is an Independent Risk Factor for Stroke after Aortic Arch Surgery**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 16. From “Shaggy Aorta” Protocol to Retrograde for All – Utility of Retrograde Cerebral Perfusion in Open Aortic Arch Repair for Potential Washout of Thromboembolic Debris**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 17. Goal-Directed Bilateral Antegrade Cerebral Perfusion During Hemiarch Repair in a Patient with Moyamoya Disease**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Adam Carroll, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 18. Impact of Higher Target Nadir Temperature on Intraoperative Transfusions During Open Aortic Arch Surgery**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 19. Long-Term Outcomes Following Open Aortic Arch Operations with Descending Thoracic Aortic Stent Placement**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 20. Management of Left Ventricular Outflow Tract Pseudoaneurysms**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 21. Management of Peripartum Aortic Dissection – A Case Studies**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Jacob Edwards, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

- 22. Maturation of Operative Strategy in Total Arch Replacement with Frozen Elephant Trunk**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 23. Neuromonitoring is a Useful Adjunct for Early Detection of Stroke in Hypothermic Circulatory Arrest Cases**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 24. Non-Operative Management of Iatrogenic Aortic Dissection**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Adam Carroll, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 25. Outcomes Following Bicuspid Aortic Valve Repair During Hemiarch Replacement**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 26. Outcomes Following Cabrol Coronary Reimplantation During Root Replacement in Open Aortic Arch Surgery**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 27. Outcomes Following Hemiarch Repair for Acute Type A Dissection**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 28. Outcomes Following Re-operative surgery in Patients with a History of Previous Ascending Aortic or Hemiarch Repair**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Leighton McCabe, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor
- 29. Postoperative Surveillance Imaging Following Elective Aortic Hemiarch Replacement**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

30. **Pre-Collateralization of Spinal Cord Blood Flow in a Large Animal Model**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

31. **Psychiatric Support Following Aoropathy Diagnosis**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Jacob Edwards, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

32. **Successful Total Arch Replacement with LVAD Implantation: The VADA (ch) Procedure**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

33. **The Safety of Delayed Sternal Closure for Bleeding After Aortic Surgery**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

34. **Utilization of Percutaneous Embolization for the Management of Postoperative Aortic Root Pseudoaneurysm**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

35. **Warmer Nadir Temperatures Do Not Adversely Affect Neurologic Outcomes in Aortic Hemiarch Replacement**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

36. **You Should've Put a Ring on It: Evaluating Serial Mean Aortic Valve Gradients after Bicuspid Aortic Valve Repair with Ring Annuloplasty**
Presented at the 102nd annual meeting of American Association for Thoracic Surgery: Aortic Symposium Workshop
Presenter: Leighton McCabe, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

February 2022

1. **Postoperative Surveillance Imaging Following Elective Aortic Hemiarch Replacement**
Presented at the 18th Annual Academic Surgical Congress
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Oral Poster Presentation
Role: Principal Investigator/mentor

January 2022

1. Outcomes of Immediate Repair of Type A Aortic Dissection with Malperfusion Syndrome: Comparison of Total Arch Frozen Elephant Trunk vs Hemiarch Replacement

Presented at the Society of Thoracic Surgeons 58th Annual Meeting

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

November 2021

1. Overexposed? Evaluation the Need for Serial Surveillance Imaging Following Elective Aorti Hemiarch Replacement

Presented at the American Heart Association Scientific Sessions

Oral Poster Presentation

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Role: Co-Investigator

October 2021

1. Early Thoracic Endovascular Aortic Repair (TEVAR) in Acute Type B Dissection with Malperfusion Syndrome Mitigates the Risks of Severe Complications

Presented at the 59th annual meeting of Eastern Cardiothoracic Surgery Society Meeting

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

2. Intraoperative IVUS During Arch Repair for Type A Dissection Facilitates Accurate True Lumen Stent Deployment

Presented at the 59th annual meeting of Eastern Cardiothoracic Surgery Society Meeting

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Oral Poster Presentation

Role: Principal Investigator/mentor

3. Outcomes of Venovenous Extracorporeal Membrane Oxygenation Support in Patients with Severe ARDS from COVID-19: A Multicenter Study

Presented at the 47th Annual Meeting of Western Thoracic Surgical Association

Oral Presentation in Plenary Session

Presenter: Navin G. Vigneshwar, MD (General Surgery Resident)

Role: Principal Investigator/Mentor

4. Utilizing Nicorandil in the Protection of Neuronal Cells from Hypoxic Injury. A Basic Science Mode.

Presented at the 47th Annual Meeting of Western Thoracic Surgical Association

Oral Presentation at Concurrent Forum on 10/02/2021

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Role: Co- Investigator/Co-mentor

September 2021

1. Evaluating the Risk of Spinal Cord Ischemia in Zone 2 Frozen Elephant Trunk Replacement

Presented at the Society of Black Academic Surgeons 2021 Annual Meeting

Oral Poster Presentation

Presenter: Cenea Kemp, MD (General Surgery Research Resident)

Role: Co-Investigator

January 2021

1. **Distal Intervention for Frozen Elephant Trunk in the Current Era**
Presented at the 57th Virtual Annual Meeting of Society of Thoracic Surgeons
Oral Poster Presentation
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Role: Co-Investigator
2. **“Shaggy Aorta Protocol” – Utilizing the Benefits of Both Antegrade and Retrograde Cerebral Perfusion for All Open Arch Operations**
Presented at the Virtual 57th Annual Meeting of Society of Thoracic Surgeons
Oral Poster Presentation
Presenter: Cenea Kemp, MD (General Surgery Research Resident)
Role: Co-Investigator

November 2020

1. **The Use of Percutaneous Vacuum-Assisted Suction Thrombectomy for Removal of Intracardiac and Intravascular Thrombi: A Single-Center Experience**
Accepted for Oral Presentation Meeting cancelled due to COVID-19 Pandemic
STSA 67th Annual Meeting Southern Thoracic Surgical Association (STSA)
Presenter: Kenaz Bakdash, MD (Interventional Radiology Resident)
Role: Principal Investigator/Primary Research Mentor

March 2020

1. **Evidence of Lead Perforation on Electrocardiogram-gated Computed Tomography May Predict Risk of Tamponade and Need for Cardiac Surgery in Patients Undergoing Transvenous Lead Extraction**
Presented at the Virtual Presentation of American College of Cardiology
Pathway: Arrhythmias and Clinical EP: Devices
Presenter: Andrew Nickel, MD (cardiology EP fellow).
Role: Co-investigator

January 2020

1. **Reactive Oxygen Species Mediate Nicorandil-Induced Metabolic Tolerance to Spinal Cord Ischemia-Reperfusion Injury**
Presented at the 56th Annual Society of Thoracic Surgeons 2020
Presenter: Yuki Ikeno, MD (Research Fellow)
Oral Presentation
Role: Co-mentor

February 2020

1. **Utility of Intravascular Ultrasound in Acute Type A Dissection**
Presented at the 15th Annual Academic Surgical Congress 2020
Presenter: Devon Anderson, BS (Medical Student)
Oral Presentation
Role: Co-Mentor
2. **Outcomes Following Deep Sternal Infection**
Presented at the 15th Annual Academic Surgical Congress 2020
Presenter: Christian Ghinca, MD (General Surgery Research Resident)
Oral Presentation
Role: Co Investigator/Co-mentor

3. **Outcomes Following Delayed Sternal Closure for Bleeding After Aortic Surgery**

Presented at the 15th Annual Academic Surgical Congress 2020

Presenter: Gavriel Roda, MS (Medical Student)

Oral Presentation

Role: Co-Investigator/Co-mentor

4. **Outcomes of Hemiarch Repair for Acute Type A Dissection**

Presented at the 15th Annual Academic Surgical Congress 2020

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Presentation

Role: Principal Investigator

October 2019

1. **Cardiopulmonary Bypass Time Better Predicts Post-Operative Morbidity and Mortality in Aortic Arch Surgery than the Circulatory Arrest Time**

e-Poster Presentation the American College of Surgeons Clinical Congress 2019

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Role: Principal Investigator

2. **Female Sex is Associated with Worse Outcomes after Aortic Arch Surgery**

Presented at the American College of Surgeons Clinical Congress 2019

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Presentation

Role: Co-Principal Investigator

3. **Endovascular Repair of Rapidly Enlarging Ascending Aortic Pseudoaneurysm**

Presented at the Eastern Cardiothoracic Surgical Society 2019

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Presentation

Role: Mentor/Principal Investigator

4. **Aortic Arch Thromboembolectomy for Thrombus in Transit: Utility of Both Antegrade and Retrograde Cerebral Perfusion with Moderate Hypothermic Circulatory Arrest**

Presented at the Eastern Cardiothoracic Surgical Society 2019, October 16-19, 2019

Presenter: Vincent Valero, MD (Cardiothoracic Surgery Fellow)

Oral Presentation

Role: Mentor/Principal Investigator

5. **“Shaggy Aorta” – Protocol Early Institutional Experience with Retrograde Cerebral Perfusion in Open Aortic Arch Repair for Washout of Thromboembolic**

Accepted for presentation at the Eastern Cardiothoracic Surgical Society 2019

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Presentation

Role: Co-Mentor

June 2019

1. **Utility of Neuromonitoring in Hypothermic Circulatory Arrest Cases for Early Detection of Stroke Listening through the Noise**

Presented at the Western Thoracic Surgical Association 2019

Presenter: Christian Ghincea, MD (General Surgery Research Resident)

Oral Presentation

Role: Mentor/Principal Investigator

2. **Preoperative Creatinine Elevation Increases the Risk of Mortality, Post-Operative Infection, and Prolonged ICU Stay Following Cardiac Surgery**

Presented at the Western Thoracic Surgical Association 2019

Presenter: Benjamin R Griffin, MD (Nephrology Fellow)

Plenary Session Oral Presentation

Role: Principal Investigator

November 2018

1. **A Multidisciplinary Heart Team Approach to High Risk Transvenous Pacemaker and Defibrillator Lead Extraction Improves Mortality**

Presented at the American Heart Association Scientific Sessions

Poster Presentation

Presenter: Ryan G. Aleong, MD (EP Cardiology Attending)

Role: Co-Investigator

2. **Experience with Cardiac and Vascular Complications of Lead Extractions**

Presented at the American Heart Association Scientific Sessions

Presenter: Alexis Z Tumolo, MD (EP Cardiology Fellow)

Poster Presentation

Role: Co-mentor and Principal Investigator

3. **Augmentation of Spinal Cord Pre-Collateralization to Prevent Paraplegia After Aortic Surgery**

Presented at the American Heart Association Scientific Sessions

Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)

Poster Presentation

Role: Principal Investigator and Mentor

4. **Erythropoietin Protection of Neurons Mediated Through Preservation of Erythropoietin Receptor by Albumin**

Presented at the American Heart Association Scientific Sessions

Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)

Poster Presentation

Role: Co-mentor

5. **Improved Mortality Associated with the Use of Extracorporeal Membrane Oxygenation as a Bridge to Lung Transplantation**

Presented at the 65th Southern Thoracic Surgical Association Annual Meeting

Presenter: Alison L. Halpern, MD (General Surgery Research Resident)

Oral Presentation

Role: Co-mentor

October 2018

1. **The Effects of Moderate Hypothermia on Outcomes in Hemiarch Repairs**

Presented at the American College of Surgeons Clinical Congress

Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)

Oral Presentation

Role: Co-mentor

2. **Buffalo Trunk: Utilizing Available Materials to Mimic the Benefits of a Hybrid Elephant Trunk Graft**

Presented at the American College of Surgeons Clinical Congress

Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)

Oral Presentation

Role: Co-investigator and Mentor

3. **Clinical Predictors of In-Hospital Mortality and Overall Survival for Venoarterial Extracorporeal Membrane Oxygenation in Patients with Refractory Cardiogenic Shock**
Presented at the American College of Surgeons Clinical Congress
Presenter: Patrick Kohtz, MD (General Surgery Research Resident)
Poster Presentation
Role: Principal Investigator and Mentor
4. **Neuronal Protection Through Erythropoietin Receptor and the Role of Albumin**
Presented at the American College of Surgeons Clinical Congress
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Poster Presentation
Role: Co-Investigator and Mentor

June 2018

1. **Clinical Predictors of Successful Weaning from Veno-arterial Extracorporeal Membrane Oxygenation in patients with Refractory Cardiogenic Shock**
Presented at the WSA 44th Annual Meeting
Presenter: Patrick Kohtz, MD (General Surgery Research Resident)
Oral Presentation
Role: Principal Investigator and Mentor

May 2018

1. **Loeys-Dietz Syndrome: Intermediate-term Outcomes of Medically and Surgically Managed Patients**
Presented at the AATS 98th Annual Meeting
Presenter: Frank Cikach, Jr (Medical Student)
Oral Presentation - Aortic/Endovascular Simultaneous Session
Role: Research Mentor and Primary author

April 2018

1. **Lessons Learned and Challenges in Developing a Spinal Cord Pre-collateralization Model for Thoracoabdominal Aortic Aneurysm Repair**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Principal Investigator
2. **Endovascular Repair of Blunt Thoracic Aortic Injury in a Patient with Aberrant Right Subclavian Artery - An Uncommon Presentation**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Principal Investigator
3. **Staged Repair to Deal with Inability to Transfuse Ross Revision**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Co-Research Mentor and Principal Investigator
4. **Alternative Approach to TEVAR Extension of Collapsed True Lumen**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator

5. **Type A Aortic Dissection Repair in Situs Inversus Totalis**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
6. **Bridge to Definitive Surgery for Aorta-Atrial Fistula Repair**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
7. **Moderate Hypothermia for Hemiarch Repairs: Refining the Ranges**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
8. **Morbidity with Hypothermia for Hemiarch Repairs**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
9. **Neurologic Outcomes Following Hypothermic Circulatory Arrest in Hemiarch Repair**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
10. **Delayed Type A Repair: Rehabilitation from Inoperable to Definitive Therapy**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator
11. **Wheat vs Root in Hemiarch: Does Valve Replacement Affect Outcomes**
Presented at the AATS Aortic Symposium
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Presentation on Demand
Role: Research Mentor and Co-principal Investigator

February 2018

1. **Platelet Nadir Following Cardiopulmonary Bypass is Independently Associated with Post-Operative Mortality, Infection, Acute Kidney Injury, and Prolonged ICU Stay**
Presented at STS 55th Annual Meeting
Presenter: Benjamin Griffin, MD (Nephrology Fellow)
Poster Presentation
Role: Research Mentor and Principal Investigator
2. **Are Post-Cardiac Surgery Outcomes Worse in End-Stage Renal Disease or Acute Kidney Injury Patients?**
Presented at the 14th Annual Academic Surgical Congress
Presenter: Patrick Kohtz, MD (General Surgery Research Resident)
Oral Presentation – Clinical/Outcomes: Cardiothoracic QuickShot Session
Role: Research Mentor and Principal Investigator

3. **Predictors of Renal Dysfunction Following Hypothermic Circulatory Arrest**
Presented at the 14th Annual Academic Surgical Congress
Presenter: Christian Ghincea, MD (General Surgery Research Resident)
Oral Presentation – Clinical/Outcomes: Cardiothoracic Oral Session 1
Role: Research Mentor and Principal Investigator
4. **Predictors of Post-Operative Transfusions for Hemiarch Replacement**
Presented at the 14th Annual Academic Surgical Congress
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Oral Presentation – Clinical/Outcomes: Cardiothoracic QuickShot Session
Role: Research Mentor and Principal Investigator

January 2018

1. **The Effects of Glucose and B27 Deprivation on Astrocyte Expression of Erythropoietin Receptor.**
Presented at the 18th Academic Surgical Congress
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Oral Presentation -Basic Science Host Inflammatory Response
Role: Research Mentor/Co-investigator
2. **NGF Upregulation by Diazoxide and Erythropoietin Treatment Attenuates Spinal Cord Ischemic Injury**
Presented at the 18th Academic Surgical Congress
Presenter: Katsuhiro Yamanaka, MD, PhD (Research Fellow)
Oral Presentation -Basic Science Cardiothoracic and Vascular Oral Session
Role: Research Mentor/Co-investigator
3. **Innominate versus Axillary Artery Cannulation for Hemiarch Repair.**
Presented at the 18th Academic Surgical Congress
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Quick Shot Presentation -Clinical/Outcomes Cardiothoracic Session 1
Role: Research Mentor
4. **Diazoxide Attenuates Spinal Cord Ischemia-Reperfusion Injury Through STAT3 Pathway**
Presented at the Society of Thoracic Surgeons 54th Annual Meeting
Presenter: Katsuhiro Yamanaka, MD, PhD (Research Fellow)
Oral Presentation - Basic Science Research: Adult Cardiac Session
Role: Research Mentor/Co-investigator
5. **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
Presenter: Mohamed Eldeiry, MD (General Surgery Research Resident)
Oral Poster
Role: Research Mentor/Co-investigator

October 2017

1. **Pretreatment with Diazoxide Attenuates Injury in a Mouse Model of Spinal Cord Ischemia**
Scientific Forum 18- Cardiac Surgery II
Presented at the ACS Clinical Congress 2017
Presenter: Katsuhiro Yamanaka (Research Fellow)
Role: Research Co-Mentor

June 2017

1. **Pretreatment with Diazoxide Enhances the Neuroprotective Function of Erythropoietin Against Spinal Cord Ischemia and Reperfusion Injury Through Upregulation of Beta Common Receptor**
Presented at the Western Thoracic Surgical Association
Presenter: Katsuhiko Yamanaka (Research Fellow)
Role: Research Co-Mentor

November 2016

1. **Pharmacological Induction of Beta Common Receptor Amplifies Erythropoietin Attenuation of Spinal Cord Injury**
Presented at the American Heart Association 2016 Scientific Sessions and Resuscitation Science Symposium
Presenter: Katsuhiko Yamanaka (Research Fellow)
Role: Research Mentor

May 2016

1. **Combined Aortic Root and Mitral Valve Surgery: The Quest to Preserve Both Valves**
Presented at the American Association of Thoracic Surgery (AATS) Aortic Symposium 2016
Presenter: Hoda Javadikasgari, MD
Presentation on Demand
Role: Research Supervisor to the Primary Presenter/Primary Author

January 2016

1. **Outcomes of a Less Invasive Approach in Proximal Aortic Surgery**
Presented at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016
Poster presentation
Contribution: Co-author
2. **Gender and Cardiothoracic Surgery Training: Specialty Interests, Satisfaction, and Career Pathways**
Presented at the STS 52ⁿ Annual Meeting and STS/AATS Tech-Con 2016
Oral presentation
Contribution: Co-author

November 2015

1. **Characterizing the Operative Experience of Cardiothoracic Surgery Residents in the United States: What are Residents Really Doing in the Operating Room?**
Presented at the 62nd Annual Meeting of Southern Thoracic Surgical Association (STSA)
Oral presentation
Contribution: Co-author
2. **The Future of the Academic Cardiothoracic Surgeon: Results of the TSRA/TSDA In-training Exam Survey**
Presented at the 62nd Annual Meeting of Southern Thoracic Surgical Association (STSA)
Oral presentation
Contribution: Co-author

January 2015

1. **A Decade of Change: Training and Career Paths of Cardiothoracic Surgery Residents 2003-2014**
Presented at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015
Oral Presentation
Contribution: Co-author

2. **Understanding Why Residents May Inaccurately Log Their Role in Operations: A Look at the 2013 In-Training Exam Survey**
Presented at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015
Oral Poster Presentation
Contribution: Co-author

3. **Predictors of Career Choice among Cardiothoracic Surgery Trainees**
Presented at the STS 51st Annual Meeting and STS/AATS Tech-Con 2015
Oral Presentation
Contribution: Co-author

November 2014

1. **Residents' Perceptions of Two- vs. Three-year Cardiothoracic Training Programs (2013 and 2014 TSRA/TSDA In-training Exam Survey)**
Presented at the Southern Thoracic Surgical Association (STSA) 61st Annual Meeting
Contribution: Co-author

October 2014

1. **Paraesophageal Hiatal Hernia with Nonischemic Perforation of the Gastric Fundus in the Left Thorax. A Case Report**
Presented at the ACS Clinical Congress
Contribution: Co-author

April 2014

1. **Respiratory Failure Requiring Tracheostomy after Thoracoabdominal Aortic Aneurysm Repair: Predictors and Consequences**
Presented at the American Association of Thoracic Surgery (AATS) Aortic Symposium 2014
Presentation on demand
Contribution: Co-author

TEACHING/EDUCATIONAL ACTIVITIES

National/International/Regional

1. **CT Surgery Fellows Course on Total Arch Replacement with Frozen Elephant Trunk Repair**
Invited Faculty for hands on course, Division of Cardiothoracic Surgery
University of Colorado, Denver, CO; March 21, 2024
2. **CT surgery Fellows Course 2023 by Terumo Aortic**
Invited Faculty for course on Comprehensive Treatment of Thoracic Aortic Diseases
Ft. Lauderdale Harbor Beach, FL; December 15-16, 2023
3. **Thoracic Endovascular Aortic Repair Workshop**
Course Director, Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)
Peshawar, Pakistan; November 19, 2023
4. **Aortic Root and Arch Workshop**
Course Director, Pakistan Association of Cardiovascular and Thoracic Surgery (PACVTS)
Peshawar, Pakistan; November 17, 2023
5. **Aortic Valve and Root Boot Camp for CT Surgery Fellows by Artivion 2023**
Invited Faculty for Course on Aortic Root Replacement, Valve Sparing Root and Ross Procedure
Atlanta, GA October 27-28, 2023

6. **Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2023**
Moderator of Cardiovascular: Movie Night
Friday October 5th, 2023
7. **Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2023**
Moderator of Expert Session I: Cardiovascular
Friday October 5th, 2023
8. **Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2023**
Moderator of Plenary Session I
Friday October 5th, 2023
9. **CT surgery Fellows Course 2022 by Terumo Aortic**
Invited Faculty for course on Comprehensive Treatment of Thoracic Aortic Diseases
Ft. Lauderdale Harbor Beach, FL; December 9-11, 2022
10. **Aortic Valve and Root Boot Camp for CT Surgery Fellows by Artivion 2022**
Invited Faculty for Course on Aortic Root Replacement, Valve Sparing Root and Ross Procedure
Atlanta, GA; October 27-28, 2023
11. **Aortic Valve and Root Boot Camp for CT Surgery Fellows by Artivion 2022**
Invited Faculty for Course on Aortic Root Replacement, Valve Sparing Root and Ross Procedure
Atlanta, GA; October 27-28, 2022
12. **American College of Surgeons, Clinical Congress 2022**
Course Session: Aorto-Esophageal and Cardio-Esophageal Fistulae
Title: Intra-Operative Endovascular and Open Management of Aorto-Enteric Fistula
October 19, 2022
13. **Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2022**
Invited Speaker for the ECTSS Leadership Academy
Title: Teaching cardiac Surgery in the Operating Room
Miami, FL; October 06, 2022
14. **Eastern Cardiothoracic Surgery Society (ECTSS) Meeting 2022**
Invited Speaker for the expert session in Multidisciplinary Cardiothoracic Surgery October 07, 2022
Title: Transcatheter Approaches for Valvular Disease
15. **Texas Cardiovascular Innovations Conference 2022**
Invited Speaker, Overview of Aortic Aneurysmal Disease and Type A Dissection
Saturday, August 27, 2022, 1:00 pm – 1:15 pm, 1:30 pm – 1:45 pm
La Cantera Resort in San Antonio, Texas
16. **Texas Cardiovascular Innovations Conference 2021**
Invited Speaker, Overview of Aortic Aneurysmal Disease
Friday, December 17, 2021, 1:20 pm – 1:40 pm
La Cantera Resort in San Antonio, Texas
17. **Eastern Cardiothoracic Surgical Society 59th Annual Meeting**
Moderator of Expert Session II
Friday October 8th, 2021
Management of patients in cardiogenic shock/advanced mechanical circulatory support
18. **STS University Course: ECMO Cannulation**
Role: Course Faculty
STS 56th Annual Meeting, New Orleans Ernest N. Morial Convention Center
January 25th, 2020

19. **Society of Thoracic Surgeons TEVAR Symposium**
Invited Core Course Faculty
April 4- 5th, 2019
20. **Developed the program proposal for STS 56th Annual Meeting**
moderated the session on "Introduction to Cardiothoracic Health Services Research"
21. **Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference**
Invited Core Course Faculty: Workshop 1 - Aortic annular enlargement
Cardiothoracic surgery 2020 and beyond
December 06, 2019
22. **Pakistan Society of Cardiovascular and Thoracic Surgeons 11th Biennial Conference**
Invited Core Course Faculty: Workshop 4 – Catheter Skills for Cardiac Surgeons
Cardiothoracic surgery 2020 and beyond
December 06, 2019
23. **Eastern Cardiothoracic Surgical Society 56th Annual Meeting 2018**
Invited Speaker: Hybrid Aortic Arch Repair: Classification, technique, and pitfalls.
Monday, October 22, 2018, 11:30 am – 1:00 pm
Clearwater Beach, Florida
24. **Aortic Tech Exchange Course (Selected 24 Vascular and CT surgery Fellows in USA)**
Core Faculty for the Aortic Simulation Course/Cadaver Laboratory
Center for Surgical Innovation (CSI), University of Colorado, Aurora, CO
April 20-21, 2017
25. **American Board of Thoracic Surgery (ABTS) Self-Education and Self-Assessment in Thoracic Surgery (SESATS)**
Question Review Bank Question editor 2016-2017
26. **Co-editor of the surgical textbook titled "Operative Dictations in Cardiothoracic Surgery"**
Summarizes the indications, details of surgery steps, techniques, and pitfalls of 106 major cardiothoracic surgical procedures (39 major general thoracic, 39 adult cardiac, and 28 congenital cardiac procedures)

Clinical Teaching: University of Colorado, Anschutz Medical Campus, Rocky Mountain Regional VA Medical Center and School of Medicine:

1. I actively participate as a **teaching faculty in the weekly cardiac surgery (every Tuesday), thoracic surgery (every Wednesday), core curriculum conferences, and multidisciplinary aortic conferences (every Monday)** with the goal of out-of-the-operating room teaching and training of cardiothoracic and general surgery residents as well as medical students rotating on the cardiac surgery service.
2. In addition to teaching residents at the bedside, ICU, and operating room, I have conducted more than 20 **wet lab and dry simulations with cardiothoracic surgery fellows**, general surgery residents, and medical students over the last five years. I remain one of the core faculty for their surgical simulation sessions.
3. These simulation sessions provide hands-on training to all levels of trainees outside of the operating room on complex procedures such as the aortic arch and root replacement, thoracic endovascular aortic repair, aortic root enlargement, use of surgical hemostasis adjuncts, TEVAR case planning, 3 D reconstruction of CT images for surgical planning.
4. I developed the proposal to **prepare the webcast for all surgical grand rounds in the department of surgery**. I have worked in collaboration with the administrative staff of the department of surgery and the Audiovisual department to advance this proposal. As a result of these efforts, all the grand round presentations since 2018 are now available at the website of the Department of Surgery. This has become a source of continued medical education for the faculty, residents, fellows, medical students, nurses, and physician assistants alike. Since COVID-19 pandemic, these presentations are being video-taped via zoom and remain available as a source of continued education for everyone.

Core Cardiac Surgery Teaching Faculty for Cardiothoracic Surgery Fellowship:

1. I have **mentored 17 cardiothoracic surgery fellowship graduates** from the program from 2016-2024. They are currently serving as a cardiothoracic surgeon in academic and private practice in the United States.
2. I am currently **training and mentoring 6 cardiothoracic surgery fellows**, including bedside and ICU teaching as well as training them in the operating room on adult cardiac surgical procedures, e.g., valve surgery, coronary artery bypass grafting, and highly complex aortic surgery, including root, arch surgery, endovascular aortic surgery, and heart transplantation.
3. **Weekly Teaching Conferences:** As a teaching faculty I actively participate in the weekly core curriculum conferences with the goal of out-of-the-operating room teaching and training of cardiothoracic and general surgery residents as well as medical students rotating on the cardiac surgery service.
 - a. Cardiac Surgery Teaching Lecture (every Tuesday)
 - b. General Thoracic surgery (every Wednesday),
 - c. Multidisciplinary aortic conference (every Monday)

Research Mentorship of Residents and Fellows:

1. **Mentored and co-mentored 10 cardiothoracic surgery research residents/fellows**, including two international fellows, who currently serve as cardiothoracic surgery fellows or cardiothoracic surgeons national and internationally
2. Mentees have presented over **65 national or regional oral and poster presentations at scientific meetings** over the last five years
3. **Best Cardiac Surgery Oral Presentation Award**, October 2022, (Mentee: Cenea Kemp, MD) by Eastern Cardiothoracic Surgery Society (ECTSS)
4. **Hawley H. Seiler Resident's Best Paper Award** on 10/2019 (Mentee: Navin Vigneshwar, MD) by the Southern Thoracic Surgical Association (STSA)
5. **Best Cardiac Surgery Critical Care Poster Award** on 01/2019 (Mentee: Benjamin Griffin, MD) by the Society of Thoracic Surgeons (STS)
6. **Nicholas Kouchoukos Research Award** on 2018 (Co. Mentee: Katsuhiko Yamanaka, MD, Ph. D) by the American Association for Thoracic Surgery (AATS)
7. **Norman E. Shumway Award** on 2017 (Co. Mentee: Katsuhiko Yamanaka, MD, Ph. D) by the Western Thoracic Surgical Association (WTSA)

Invited Lecturer/Teaching:

1. *"Career in Cardiothoracic Surgery,"* quarterly lecture for students
2. SURG 5005: "Introduction to Cardiothoracic Surgery course" (every quarter since 2021-2024)
3. Invited Lecturer **to cardiology fellows** at the UCH-AMC on *"Management of VA and VV ECMO"* (05/2023)
4. Invited Lecturer - for medical students, general surgery residents, cardiothoracic surgery fellows in their curriculum conferences, journal clubs, and grand rounds.
5. Annual **classroom lecture** to the first-year medical students on Cardiothoracic Surgery Service in 2016, 2017, and 2018.
6. Invited Lecturer **to cardiology fellows** at the UCH-AMC on *"Management of Acute Aortic dissection."*

7. Invited Lecturer **to cardiology fellows** at the UCH-AMC on “*Management of VA and VV ECMO.*”
8. Invited Lecturer for the **Stroke neurology fellows** at the UCH-AMC on “*Brian Protection Strategies in Cardiac Surgery.*”
9. Invited Lecturer for **Annual course of ECMO specialists** (nurses, physician assistants and perfusionists) at UCH-AMC
10. Teaching **Cardiology (Electrophysiology) Fellows** on high-risk lead extraction procedures in the operating room and in multidisciplinary monthly lead extraction meetings.
11. Teaching **Vascular surgery fellows and residents on thoracic endovascular aortic** surgical procedures in the operating room.
12. Teaching and mentoring **Interventional radiology fellows/residents** on high-risk suction thrombectomy (AngioVAC) procedures in the operating room and on multidisciplinary research projects.
13. Teaching and mentoring **first year, second year, and fourth year General Surgery residents** on the cardiothoracic surgery service at the UCH-AMC.
14. Teaching and mentoring medical students.
15. Invited Lecturer to the ICU nurses, mid-level practitioners, CT surgery and ICU fellows, residents, medical students, ICU intensivists on the ICU management of cardiac surgery patients.

Public Speaking/Public Health Education Seminars:

1. **Title: How to Pursue a Career in Medicine?**
A community lecture and discussion with Q/A session with the high school student (medicine interest group) at the Crescent View Academy School on 04/26/2017
2. **Title: COVID-19 Preparing for What Comes Next and Its Health Implications (via Zoom)**
A community lecture and discussion with Q/A session with the community on COVID-19 pandemic (duration 2 hours) 05/17/2020
3. **Title: COVID vaccine Facts, Myths and Concerns! (via Zoom)**
A community lecture and discussion with Q/A session with the community to address common questions and concerns about COVID-19 vaccination (duration 2 hours) 05/01/2021

CLINICAL & RESEARCH INTERESTS

- Spinal cord, Brain, and Renal protection during aortic surgery
- Techniques of myocardial and cerebral protection during cardiac surgery
- Aortic root and arch repair
- Endovascular aortic arch and proximal aortic surgery
- Thoracic Endovascular Aortic Repair (TEVAR)
- Coronary Artery Bypass grafting
- Thoracoabdominal Aortic Aneurysm Repair
- End organ protection in Thoracoabdominal Aortic Aneurysm (TAAA) Repair
- Surgical outcomes research
- Surgical education/Resident’s training

CLINICAL TRIALS / IRB APPROVED RESEARCH PROJECTS

1. **The Physician-Initiated Improve-AD (Aortic Dissection) Study**
Role: Co-investigator, 2024

2. **Presevere Trial by Artivion**
Role: Co-investigator, 2023-present
3. **Relay Pro Dissection (Pro D) Pivotal Trial**
Role: Co-investigator, 2021-2023
4. **Triomphe Study Multi-Center Non-Randomized Clinical Trial for NEXUS Aortic Arch Stent Graft**
Role: Co-investigator, 2022-present
5. **Multicenter Registry for ECMO Outcomes in COVID-19 ARDS**
Role: National Principal Investigator, 12/2020 - 2023
6. **Aortic Trauma Foundation Prospective Blunt Thoracic Aortic Injury Registry**
Role: Site Principal Investigator 05/2018 – Present
7. **National Institutes of Health-Immunoparalysis in Acute Kidney Injury After Cardiac Surgery**
Role: Co-Principal Investigator 02/2018 – 2023
8. **Registry for Cardiogenic Shock: Utility and Efficacy of Device Therapy (RESCUE)**
Role: Principal Investigator 02/2018 – Present
9. **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
10. **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 Heart Mate III trial.
Role: Co-investigator 07/2016
11. **HemoBlast™ Bellows Pivotal Clinical Trial**
Member Data Safety Monitoring Board
Role: Chair, Clinical Events Committee (CEC) 07/2016 – 11/2017

RELATED MEDICAL CERTIFICATION

1. Diplomate American Board of Thoracic Surgery (ABTS), Re-certified 01/2024
2. Diplomate American Board of Thoracic Surgery (Certificate# 8096) Re-certified 11/2023
3. American Heart Association Basic Life Support (BLS) recertification, valid till 06/2026
4. American Heart Association Advanced Cardiovascular Life Support (ACLS) recertification, valid until 06/2026
5. Transcatheter Heart Valve Fundamentals Training Program (S3), 9/2017
6. CoreValve Evolut R Product & Procedure Training, 1/2017
7. Heart Mate II Left Ventricular Assist Device (LVAD) Surgical Training Certificate (St Jude Medical) 08/10-11/2016
8. Recertification, Human Subjects Research Curriculum Collaborative Institutional Training Initiative Course (CITI)
9. HeartWare - Left Ventricular Assist Device (LVAD) Surgical Training Certificate (HeartWare Inc.)

10. Certified Fundamentals of Laparoscopic Surgery (FLS) by American College of Surgeons (ACS) and Society of American Gastrointestinal and Endoscopic Surgeons (SAGES)
11. Human Subjects Research Curriculum, Collaborative Institutional Training Initiative Course (CITI)
12. Biomedical Research, Collaborative Institutional Training Initiative Course (CITI)
13. Ultrasound for Surgeons Course Certification, American College of Surgeons
14. Sedation Education and Training Course Certification
15. PALS – Pediatric Advanced Life Support Certification
16. Human Subjects Protection Tutorial Certification
17. ATLS – Advanced Trauma and Life Support Certification
18. Patient Safety Institute Central Line Insertion Course Certification
19. Hernia Repair 2006 – Optimal Utilization of Biomaterials and Laparoscopy Course
20. Identification & Reporting of Child Abuse, Neglect and Maltreatment Course Certification
21. Fundamentals of Surgical Research Course, Academic Surgical Congress, Houston, TX; Association of Academic Surgery / Society of University Surgeons

HOBBIES & INTERESTS

- Traveling the world
- Reading
- Playing cricket
- Spending time with the family
- Cooking
- Hiking

LANGUAGE SKILLS (OTHER THAN ENGLISH)

- Fluent in Urdu, Punjabi, and Hindi
- Able to read and write Arabic