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JEFFREY SHUHAIBER, MD, MBA

CARDIOTHORACIC SURGEON & INNOVATIVE LEADER

Academic Medicine | Healthcare Administration | Cardiovascular Surgeon

Board-Certified practicing cardiac surgeon, led a translational research lab as a senior investigator with extensive knowledge in adult cardiac surgery, current surgical techniques, and the management of surgical practices. Strong focus on healthcare administration including scaling practices, policy standardization, cost control, and improving clinical outcomes to create thriving working environments. Striving to build efficient and safe healthcare systems, leveraging strong leadership skills and clinical expertise.

Additionally, an accomplished Cardiovascular surgeon, Author, Assistant Professor of Surgery, and Public Speaker with three books, more than 80 peer-reviewed publications, and multiple speaking engagements at the local, national, and international levels.

- ✓ Collaborative Leadership
- ✓ Care Transformation
- ✓ Data Reliant & Metrics Driven
- ✓ Best Practices & Evidence Based Medicine
- ✓ Process Improvement
- ✓ Increasing Patient Satisfaction
- ✓ Patient Quality & Clinical Outcomes
- ✓ Visionary and Innovator
- ✓ Psychological Safety

CAREER HIGHLIGHTS

WELLMAN CENTER FOR PHOTOMEDICINE

2018-present

MASSACHUSETTS GENERAL HOSPITAL, HARVARD MEDICAL SCHOOL

The Wellman Center for Photomedicine at Massachusetts General Hospital is the world's largest academic research facility dedicated to investigating the effects of light on human biology and to the development of light-mediated, minimally invasive diagnostic and therapeutic technologies. A pioneer in light-based biomedical research, the Center has been the source of many of the most successful transfers of this research to clinical applications.

Surgeon Faculty | Leading Scientist Physician & Investigator | Cardiovascular Surgeon

Provide administrative oversight of the daily clinical and business activities of a translational science lab to include Engineers, Post-Doctoral Fellows, and medical students. Accountable to the Chair of the Wellman Institute.

- Recruited and mentored talented post-doctoral fellows in Science and Engineering and built a successful team with cross-functional colleagues in Radiology and the Post-operative Care facility.

Grants Secured & Administered:

- Received \$1.5M and led the study of the role injectables play in reducing visceral adipose tissue in atherosclerosis with a 40% reduction noted in fat.
- Awarded \$0.9M to develop and test automatic devices for the treatment of thoracic trauma.

GEISINGER HEALTH SYSTEM, SCRANTON & WILKES-BARRE

2021-2024

Geisinger Health System (GHS) is a regional health care provider to central, south-central, and northeastern Pennsylvania. Headquartered in Danville, Pennsylvania, Geisinger services over three million patients in 45 counties.

Attending Cardiovascular Surgeon | Assistant Professor

Coordinated and conducted various surgical procedures and safety projects at a combined 611-bed, independent academic medical center. Reported to the Chair of the Heart and Vascular Institute while mentoring junior Attending Physicians, Physician Assistants, Nurse Practitioners, and Medical Students.

- Established engaging surgical programs in Northeast Pennsylvania focused on patient outcomes and family experience.

- Introduced a debriefing protocol in the operating room to enhance the participation of team members and Nurses.
- Secured \$10K in internal funding to analyze crystalloid and colloid volume transfusion utilization across the system resulting in an estimated savings of \$1M.
- Initiated clinical outcome studies on Artificial Intelligence (AI) applications for both in-and outpatient services in collaboration with the departments of Pharmacy, Informatics, and Population Health.
- Served on the Surgical Advisory Council, the ProvenCare and Proven Recovery panel, and the Peer Review Council for all safety events, as well as the Patient Safety Committee.

BAYSTATE MEDICAL CENTER

2017-2019

Located in Springfield, Massachusetts, Baystate Medical Center (BMC) is a 716-bed independent academic medical center and a teaching site of the UMass Chan Medical School - Baystate. The hospital includes Baystate Children's Hospital, the Wesson Women and Infants' Unit, the region's only Level 1 Trauma Center, and more.

Attending, Adult Cardiac Surgeon

Reporting to the Chair of the Heart & Vascular Institute, served as the primary Attending Surgeon on aortic and mitral valve repair. Supervised, taught, and mentored general surgery residents and medical students.

- Collaborated with the Quality Control Infectious Disease team to mitigate surgical infections in the operating room.
 - Reduced mediastinal infection risk from 30% to less than 1%.
- Developed research on contemporary practices using ventricular assist devices sponsored by the Western Massachusetts Anesthesia group.

TERRE HAUTE REGIONAL HOSPITAL & UNION HOSPITAL

2014-2017

Terre Haute Regional Hospital is a 278-bed community-based medical center with comprehensive medical and surgical programs.

Attending, Adult Cardiac Surgeon

Served as primary Attending Surgeon on cardiac and thoracic surgery cases and as a surgical representative on the Operative Room Team cohesion committee to promote a positive collaboration in the operating room between Scrub Nurses, Surgical Technicians, Circulator, Anesthesia, and First assistants.

- Selected to the Union Hospital Institutional Growth and Strategy Committee and the Extracorporeal Membrane Oxygenation (ECMO) Implementation Project to investigate protocols, indications, and patient management of patients requiring Extracorporeal Membrane Oxygenation.
- Invited to speak on "Avoiding Heart Surgery in the Elderly" at the Terre Haute Town Hall open public meeting.

UNIVERSITY OF CINCINNATI SCHOOL OF MEDICINE & CINCINNATI CHILDREN'S HOSPITAL

2009-2012

DEPARTMENT OF SURGERY

UC Medical Center is the region's only academic medical center and only verified Level I adult trauma center. Located on the Clifton Campus, UC Medical Center delivers leading-edge care, led by passionate providers who are driven by science. Cincinnati Children's Hospital Medical Center (CCHMC) is an academic pediatric acute care children's hospital located in Cincinnati, Ohio. The hospital has 652 pediatric beds and is affiliated with the University of Cincinnati Academic Health Center.

Pediatric & Adult Congenital Cardiac Surgeon

Demonstrated effective teaching methods, research, scholarship, professional service, and service to the community through collaborative relationships while offering clinical and surgical care to patients with heart and lung disease.

- Taught and mentored General Surgery Residents, Thoracic Surgery Fellows, and Medical Students.

- Joined with colleagues in the Aerospace Department and mentored engineering students to develop computer algorithms to measure blood flow following heart surgery.
- Served on the Catheter & Urinary Related Septic Infection Elimination Project to eliminate catheter-related bloodstream urinary-related infections within the hospital.
- Appointed as Co-Director of Adult Congenital Heart Disease at Cincinnati Children's Medical Center and as a member of the Quality Control Committee.

EDUCATION & TRAINING

Master of Business Administration, University of the People, Pasadena, CA • 2022
Associate Cardiac Surgeon, Adult Cardiac Surgery, Cleveland Clinic, Cleveland, OH • 2014
Fellowship, Cardiothoracic Surgery, Lifespan Healthcare System, Providence, RI • 2013
Fellowship, Congenital Heart Surgery, Boston Children's Hospital & Harvard Medical School, Boston, MA • 2009
Fellowship, Congenital Heart Surgery, Royal Brompton and Harefield Hospital, London, England • 2008
Fellowship, Heart & Lung Transplant & Mechanical Assist Devices, Royal Papworth Hospital, Cambridge, England • 2007
Residency, Cardiothoracic Surgery, Loyola University School of Medicine, Chicago, IL • 2006
Residency, General Surgery, University of Illinois, Chicago, IL • 2004
Internship, General Surgery, Mayo Clinic, Rochester, NY • 2000
Internship, King's College Hospital, London, England • 1999
Doctor of Medicine (with Distinction), King's College School of Medicine, London, England • 1998
Bachelor of Science in Pharmacology & Physiology, King's College School of Natural Sciences, London, England • 1995

LICENSURE & CERTIFICATION

Commonwealth of Pennsylvania Medical Licensure • Commonwealth of Massachusetts Medical Licensure • American Board of Thoracic Surgery Certificate • American Board of Surgery Certificate • Advanced Transcatheter skills and Transcatheter heart valve implantation, (Evolut R and Pro Valve) • Advanced Transcatheter Skills and Transcatheter Heart Valve Implantation (Sapien Valve)

HONORS/AWARDS

Best Scientific Paper, The University of Ohio • 2012
Society Prize for Abstract Presentation, Society of Cardiothoracic Surgery • 2007
First Prize, American College of Surgeons Chicago Committee on Experimental Surgery • 2004
Second Prize, American College of Surgeons Chicago Committee on Trauma • 2003

EDITOR

Editor -Associate to the Journal of Cardiothoracic Surgery

AFFILIATIONS

New England Journal of Medicine (Ad Hoc), 2009-present
British Medical Journal (Ad Hoc) Annals of Thoracic Surgery (Ad Hoc), 2009-present
European Journal of Thoracic and Cardiovascular Surgery, 2009-present

Lancet (Ad Hoc), 2009-present
Journal of Thoracic and Cardiovascular Surgery (Ad Hoc), 2009-present
Annals of Thoracic Surgery – Ad hoc Reviewer, 2009-present
European Journal of Thoracic and Cardiovascular Surgery – Ad hoc Reviewer, 2009-present
Committee Member, Patient Safety, Peer Review and Quality, Geisinger HealthCare System, 2021-2023
Consultant Surgeon, Wellman Institute for Photomedicine, 2018-present
Consultant Surgeon, Wellman Institute Partners Health System, 2018-present
Board Director, United Network for Organ Sharing Ethical and Waiting Times Committee, 2009-2012
Editorial Board Member, World Journal of Cardiology, 2017-2021
Editorial Board Member, Journal of Thoracic Disease, 2017-2021
Surgery Peer Review Study Group Member, American Heart Association, 2011
Scientific Review Group Member, National Institute of Health, 2009-2011
Reviewer for National Institute of Health Scientific Review Group regarding grants for XRG1 BDA- 11B Stems
Cells and Surgical Regeneration II, Bethesda, MD, 2009-2010

PROFESSIONAL AFFILIATIONS

American Association for Physician Leadership
American College of Healthcare Executives
International Society of Cardiothoracic Minimally Invasive Surgery
American College of Cardiology
Society of Thoracic Surgery
International Society of Heart and Lung Transplantation