

AHMED S. AHMED AWAD, MD, MBA, FASE

Address: 822 Marlowe Road, Cherry Hill, New Jersey 08003

Phone: 856.751.1876 | **Mobile:** 201.310.8210 | **Email:** ahwad1900@gmail.com

Cardiac Anesthesiologist

*Organizational Leadership ~ Quality and Performance Improvement ~ Regulatory Compliance
Career Development ~ Staff Supervision ~ Team Building ~ Patient Relations*

QUALIFICATIONS PROFILE

Performance-focused and goal-driven executive with extensive experience in healthcare administration and clinical practice, focused on anesthesiology. Recognized for solid expertise in administering Cardiac and general anesthesia; ensuring the provision of continuity of patient care; and pioneering policies and protocols to guarantee compliance with industry best practices and standards. Effective leader, with proven ability to direct and collaborate with other healthcare professionals toward the achievement of organizational goals and objectives.

CURRENT ACADEMIC APPOINTMENT

Associate Professor Cooper Medical School of Rowan University

EDUCATION

Physician Executive Master Business Administration: May 2018

AUBURN UNIVERSITY | Auburn, AL, USA

Certified Six Sigma Green Belt: May 2018

Auburn University | Auburn, AL, USA

Board certified Anesthesiologist: April 2001 Recertified 2011

TEE certified: April 2004 Recertified 2014

Certificate of business administration CBA: January 2004-2005

The American Society of Anesthesiology

Bachelor of Medicine, Bachelor of Surgery: Dec 1986

AIN SHAMS UNIVERSITY, SCHOOL OF MEDICINE | Cairo, Egypt

EXPERIENCE

COOPER MEDICAL SCHOOL OF ROWAN UNIVERSITY | Camden, NJ, USA COOPER UNIVERSITY HOSPITAL

Division Chief of Adult Cardiothoracic Anesthesia, Department of Anesthesiology: Dec 2017–Present

- Establish and implement clinical protocols, policies, and guidelines within the division focused on patient safety and the needs of the hospital
- Guarantee proper clinical coverage of the division through coordination and monitoring of the vacation and call schedule
- Plan and create medical student and resident's curriculum in line with the division's objective
- Serve as a member of the Cardiac Quality Improvement Committee which entails participating in quality, patient safety, performance improvement, and regulatory compliance efforts concerning the Division of Cardiothoracic Anesthesia
- Arrange and facilitate quarterly meetings, focusing on academic, educational, clinical, and administrative aspects of the division
- Serve as a member of the TAVR Quality Improvement Committee which entails participating in quality, patient safety, performance improvement, and regulatory compliance efforts concerning the TAVR program.

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- Provide effective mentorship to the divisional faculty with regards to the career development
- Initiated discussion with my classmate in Auburn University MBA program, Dr. William Walter director of Department of State medical services to help establish Airway management training program for State Department health care providers that led to launching the program and allowed for financial reimbursement to benefit Cooper University Hospital and Department of anesthesia

COOPER UNIVERSITY HOSPITAL AND ROWAN UNIVERSITY | Camden, NJ, USA

Division Chief of Vascular Anesthesia, Department of Anesthesiology: 2015– 2017

COOPER UNIVERSITY HOSPITAL AND ROWAN UNIVERSITY | Camden, NJ, USA

Associate Director of Cardiac Anesthesia: 2013 -2017

Director of Post-Anesthesia Care Unit (PACU): 2008– 2012

JERSEY CITY MEDICAL CENTER | Jersey City, NJ, USA

Vice Chairman, Department of Anesthesia and Perioperative Medicine: 2007

Earlier Positions Held:

UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY, COOPER UNIVERSITY HOSPITAL | Camden, NJ, USA

Division Chief of Adult Cardiothoracic Anesthesia, Department of Anesthesiology

ATLANTIC CITY MEDICAL CENTER | Atlantic City, NJ, USA

Acting Chairman, Department of Anesthesia

NEW YORK UNIVERSITY, SCHOOL OF MEDICINE | New York, NY, USA

Chief Resident: 2000 *Department of Anesthesia*

LICENSES AND CERTIFICATIONS

Licensed Medical Doctor

State of New Jersey: *(Active)* | State of New York: *(inactive)* | State of Pennsylvania: *(inactive)* | State of Connecticut: *(inactive)* | State of Florida: Valid Until: *(Active)* | State of Indiana: *(Active)*

Board Certified Anesthesiologist

Valid Until: 2021 | American Board of anesthesiology

Transesophageal Echo (TEE) Certified

Valid Until: 2023 | National Board of Echocardiography

Certificate of Business Administration (CBA)

Jan 2005 | American Society of Anesthesiologists

Oral Anesthesia Board Examination *(Passed)*

Apr 2001 | American Board of anesthesiology

Written Anesthesia Board Examination *(Passed)*

Jul 2000 | American Board of anesthesiology

Basic Life Support, Advanced Cardiac Life Support, Pediatric Advanced Life Support (PALS)

Current | American Heart Association (AHA)

POSTGRADUATE TRAINING

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NEW YORK UNIVERSITY, SCHOOL OF MEDICINE | New York, NY, USA

Fellow *Cardiothoracic Anesthesia*

Resident, *Anesthesia*

HARVARD SCHOOL OF MEDICINE | Boston, MA, USA

Fellow, *Pediatric Cardiac Anesthesia one month rotation- Children's Hospital*

SAINT BARNABAS MEDICAL CENTER | Livingston, NJ, USA

Transitional Intern

PROFESSIONAL AFFILIATIONS

American Society of Anesthesiologists (ASA) | Society of Cardiovascular Anesthesiologists (SCA)

Society of Thoracic Surgeons (STS) | American Society of Echocardiography (ASE)

European Association of Cardiothoracic Anesthesiology (EACTA)

CLINICAL EXPERIENCE

- Worked as a critical care attending managing Covid 19 patients during pandemic 2020
 - Minimally invasive port-access cardiac surgery with ability to place coronary sinus catheter for valves.
 - Started TAVR program in Cooper University Hospital in 2013
 - Started new NYU sponsored cardiac surgery program in Atlantic City medical center and I was the Cardiac Anesthesiologist for over 300cases out of 500 cases done from July 23rd. 2001 to Nov 2004
 - Experience with OPCAB, which exceed 90% of CABG cases at Jersey City Medical Center. Moreover, about 50% OF CABG in Cooper University Hospital
 - Experience with deep hypothermic circulatory arrest for Ascending Aortic Aneurysms repair
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AWARDS

- Resident Champion of the year 2020 award at Cooper University Hospital
 - Teacher of the year 2017 at Cooper University Hospital
 - Teacher of the year 2010 at Cooper University Hospital
 - Chief Resident the year 2000 at Department of Anesthesia NYU school of Medicine New York, NY
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BOOKS

The editor of Cardiovascular anesthesia Book Springer published to early 2021

"Cardiac Anesthesia: The Basics of Evaluation and Management" available in Amazon and Springer shop

HOSPITAL COMMITTEES

- Pharmacy & Therapeutics Committee 05/08 to now
 - Library and Informatics Committee since Jul. 2017
 - Search Committee for the Chairman of Anesthesia Cooper University Hospital 2015
 - TAVR Committee since Dec. 2017
 - Cardiothoracic surgery Quality Assurance and Morbidity & Mortality Committee since Dec. 2017
-

NATIONAL SOCIETY COMMITTEES

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- Moderator and Facilitator Medically Challenging Cases American Society of Anesthesiology since 2011
- American Society of Anesthesiologists Newsletter Committee the term of 2019
<https://www.asahq.org/about-asa/governance-and-committees/asa-committees#news>
- Society of Cardiovascular Anesthesia Newsletter Committee from March 2015 till now
<https://www.scahq.org/About/SCA-Leadership/Committees-and-Task-Forces/Newsletter-Sub-Committee>
- Member of Anesthesia & Analgesia Reviewer Board

RESEARCH PROJECTS

- | | |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2018 | Reduction of FREe Hemoglobin/Acute Kidney Injury (AKI) During Cardiac Surgery (REFRESH II-AKI)
<i>Role:</i> Co-investigator Cooper site REFRESH II Trial |
| 2017 | A Prospective Nonrandomized, Pilot Study Combating Aortic Valve Area Estimates Drive It from Right Heart Catheterization Data with Estimates Based on Cheetah – NICOM Assessment of Cardiac Output during Left Heart Catheterization
<i>Role:</i> Co-investigator |
| 2016-2017 | Use of a Novel Hemoadsorption Technology to Reduce Plasma Free Hemoglobin during Complex Cardiac Surgery
<i>Role:</i> Primary Investigator Cooper site REFRESH I Trial |

PUBLICATION ARTICLES

- Wise J, Helmond N, **Awad A**, Peters P, Trivedi K, Desai R, Patel K. Aorto-Right Atrial Fistula as a Complication of Tricuspid Valve Repair. (2020)
Journal of Cardiothoracic and Vascular Anesthesia: 10.1053/j.jvca.2020.06.020.
- Mitrev LM, Helmond N, Kaddissi G, **Awad, A.**, et.al (2020). A Pilot Study Comparing Aortic Valve Area Estimates Derived from Fick Cardiac Output with Estimates Based on Cheetah-NICOM Cardiac Output. *Scientific Reports, Nature Publishing Group 2020*
- Gleason T Argenziano M Bavaria J Kane L Coselli J Engelman R Tanaka K **Awad A** Sekela M Zwischenberger J et.al Hemoadsorption to Reduce Plasma-Free Hemoglobin During Cardiac Surgery: Results of REFRESH I Pilot Study (2019). *Seminars in Thoracic and Cardiovascular Surgery* 2019 vol: 31 (4)
- Mitrev L Desai N **Awad A** Sabir S (2019). Interventional Echocardiography of the MV: What the Interventionalist Wants to Know. *Seminars in Cardiothoracic and Vascular Anesthesia* 2019 vol: 23 (1)
- Awad, A. S.** and Goldberg, M.E. (2010). Role of clevidipine butyrate in the treatment of acute hypertension in the critical care setting: A review. *Vascular Health and Risk Management*, 6, 457.
- Dodson, G.M., Bentley IV, W.E., **Awad, A.**, Muntazar, M., and Goldberg, M. E. (2014). Isolated perioperative hypertension: Clinical implications and contemporary treatment strategies. *Current Hypertension Reviews*, 10(1), 31-36.

LITERATURE REVIEWS

- Awad, A.S.** and Desai, R.G. (2017). [Review of the article | *Surgical or transcatheter aortic valve replacement in intermediate-risk patients*, by M. J. Reardon, N. M. Van Mieghem, & J. J. Popma]. *New England Journal of Medicine*, 376(14):1321-1331
- Ben-Jacob, T.K. and **Awad A.** (2017a). [Review of the article | *The assessment of risk in cardiothoracic intensive care: Prediction of hospital mortality after admission to cardiothoracic critical care*, by E. Lowden, K. Schmidt, & I. Mulla]. *Endocrine Practice*, 23(1):46-55.

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- Ben-Jacob, T. K. and **Awad, A.** (2017b). [Review of the article | *A transfer of care process reduces perioperative complications in cardiac surgery patients*, by M. Hall, J. Robertson, M. Merkel, M. Aziz, & M. Hutchens]. *Anesth Analg*, 125(2):477–482.
- Ben-Jacob, T.K. and **Awad, A.** (2017c). [Review of the article | *Evaluation of outcomes and complications in patients who experience hypoglycemia after cardiac surgery*, by E. Lowden, K. Schmidt, & I. Mulla]. *Endocrine Practice*, 23(1):46–55.
- Desai, R. and **Awad, A.** (2015). [Review of the article | *Andexanet Alfa for the reversal of factor Xa inhibitor activity*, by D.M. Siegal, J. T. Curnutte, & S.J. Connolly]. *New England Journal of Medicine*, 373(25):2413–24.
- Patel, K. and **Awad, A.** (2017). [Review of the article | Fully magnetically levitated circulatory pump for advanced heart failure, by M. R. Mehra, Y. Naka, & N. Uriel]. *New England Journal of Medicine*, 376(5): 440–450.
- Raza, M. and **Awad, A.** (2016). [Review of the article | Stopping versus continuing aspirin before coronary artery surgery, by P.S. Myles, J. A. Smith, & A. Forbes]. *New England Journal of Medicine*, 374(8):728–737.
- Raza, M. and **Awad, A.** (2017). [Review of the article | *Rapid occurrence of chronic kidney disease in patients experiencing reversible acute kidney injury after cardiac surgery*, by Legouis D., Galichon P, & A. Bataille]. *Anesthesiology*, 126(1):39–46.

CHAPTER IN AN EDITED BOOK

- Awad, A.** (2017). *Transcatheter aortic valve replacement. Everything you need to know: Out of operating room and minimally invasive cardiothoracic procedures* Nova Publisher.
- AWAD, A.** (2018). *ANESTHESIA ISSUES IN PATIENTS WITH VADS PRESENTING FOR NON-CARDIAC SURGERY: ANESTHESIOLOGY A PRACTICAL APPROACH* SPRINGER PUBLISHER.
- AWAD, A.** (in press). *Anesthetic challenges in minimally invasive cardiac surgery: ANESTHESIA FOR EMERGING AND UNCOMMON PROCEDURES* SPRINGER PUBLISHER. EDITORS: GOUDRA, BASAVANA G., SINGH, PREET MOHINDER, GREEN, MICHAEL S. (EDS.)

ABSTRACTS

- Ben-Jacob, T. and **Awad, A.** (2011). Anesthetic management of a coagulopathic patient undergoing percutaneous extraction of a large ICD lead thrombus [Abstract]. *American Society of Anesthesiology, Medically Challenging Cases*.
- Muntazar, M., Torjman, M.C., **Awad, A.**, Dy, G., and Goldberg, M.E. (2011). Systolic blood pressure variability during cardiac surgery and post-operative acute kidney injury [Abstract]. *American Society of Anesthesiology*.
- Muntazar, M., Torjman, M.C., **Awad, A.**, and Goldberg, M.E. (2010). Intraoperative NGAL is predictive of acute renal insufficiency in patients undergoing cardiac surgery [Abstract].
- Muntazar, M., Torjman, M.C., **Awad, A.**, Tarpley, R., Shapiro, A., Rosenbloom, M., ... Goldberg, M. E. (2012). Intraoperative and postoperative whole blood NGAL values are predictive of the severity of acute kidney injury [Abstract].
- Awad, A.** (2016). *Unexpected left atrial thrombus after AVR and atrial ligation with AtriClip™ a clip should TEE be used routinely after it is a clip deployment*. Society of Cardiovascular Anesthesia (SCA) Meeting,
- Awad, A.** (2017a). *Unexpected left atrial thrombus after aortic valve replacement and left atrial ligation with AtriClip (TM) device — Should transesophageal echocardiography be routinely used after device deployment?* International Anesthesia Research Society (IARS),
- Awad, A.** (2017b). *Use of a novel hemoadsorption technology to reduce plasma free hemoglobin during complex cardiac surgery: Results from the randomized controlled safety and feasibility REFRESH I trial*. American Association for Thoracic Surgery Meeting, Boston, MA.
- Muntazar, M., Torjman, M.C., **Awad, A.**, and Goldberg, M.E. (2010). *Intraoperative NGAL is predictive of acute renal insufficiency in patients undergoing cardiac surgery*. American Society of Anesthesiology, Location.

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Poster

Awad, A. (2015a). *Lung isolation in a difficult airway*. Poster session presented at American Society of Anesthesiology (ASA)

Awad, A. (2015b). *Severe mitral regurgitation after mini AVR*. Poster session presented at American Society of Anesthesiology (ASA)

TEACHING EXPERIENCE

COOPER MEDICAL SCHOOL OF ROWAN UNIVERSITY | Camden, NJ, USA 2013-2020

- Provided direct clinical supervision to critical care fellows and residents in Covid 19 ICU in managing Covid 19 patients
- Provided direct supervision and instruction to medical and registered nurse of anesthesiology students, anesthesia residents, and certified registered nurse of anesthesiology
- **Earned recognition as the resident champion award of the year in 2020**
- **Earned recognition as Teacher of the Year in 2010 and 2017**
- Since 2010 – present. **Editor in Chief** continually updating published educational **website for cardiac anesthesia**. www.cardiacanesthesiaworld.com
- **Preceptorship Course:** Management of Hypertension in the PACU post anesthesia Care Unit to the Medicines Company 2011-2016 held at Cooper Hospital
- Peer Reviewer A&A (Anesthesia & Analgesia) Sep 22, 2010 to the study Acupuncture in critically ill patients improves delayed gastric emptying - a randomized controlled trial

PRESENTATIONS

Cooper Resident Lectures

Echo rounds Knobology

Echo rounds Evaluation of Mitral valve

Echo rounds Evaluation of Right ventricle

Anesthesia Machine and Breathing circuit

Cardiac Anesthesia simplified May 30th, 2016

Cooper Grand Round Lectures

Lecture on Recent Advances in TEE Techniques (TAVR) Sept.22, 2015

Update on TEE Jan 21, 2014

Anesthesia for Noninvasive Vascular procedure March 20, 2012

Blood Transfusion and Fibrinolytic Feb 22, 2011