Name*

Volunteer Opportunities

Please provide the following background information.

TOWN OF PARADISE VALLEY COMMITTEE VOLUNTEER APPLICATION FORM

A vacancy has opened up on the Municipal Property Corporation (MPC). The MPC Board of Directors issues debt on behalf of the Town to finance major capital projects such as construction of sewer line infrastructure and public buildings. The Board is made up of seven members who serve three year terms. The Board meets once or twice per year. If you are interested in serving on this Board, please complete this application and submit. The deadline to submit an application is September 6, 2017

Name*	Harish Ramakrishna MD, FACC, FASE
Address*	
Email*	
Home Phone	
Employer	Mayo Clinic
Occupation	Professor and Vice-Chair
Business Phone	
Cell Phone	
Number of years as PV resident	7
Professional experience highlights	5
heart transplant program he	at Mayo Clinic for the past 13 years, I helped start the ere at Mayo Clinic in Arizona in 2005. Ind Vice Chair for Research at Mayo Clinic in Arizona.
What experience do you think qu	alifies you to be a committee member?
director.	f experience as a physician leader, innovator and ibute effectively to this community.
Community Activities	
Attach resume and cover letter	
Dr Ramakrishna CV August 2018	ndf

http://www.paradisevalleyaz.gov/Admin/FormHistory.aspx?SID=2402

Curriculum Vitae and Bibliography Harish Ramakrishna, MD, FASE, FACC

Personal Information

Work Address: Mayo Clinic

5777 East Mayo Boulevard

Phoenix, AZ 85054

Email Address:

Present Academic Rank and Position

Consultant - Department of Anesthesiology and Perioperative Medicine, Mayo 11/2008 - Present

Clinic, Phoenix, Arizona

Consultant - Division of Cardiovascular and Thoracic Anesthesiology, Department 07/2012 - Present

of Anesthesiology, Mayo Clinic, Phoenix, Arizona

Vice Chair for Research - Department of Anesthesiology and Perioperative 08/2014 - Present

Medicine, Mayo Clinic, Phoenix, Arizona

Professor of Anesthesiology - Mayo Clinic College of Medicine and Science 06/2017 - Present

Education

Bangalore University, Biology, Chemistry, Physics, French 1984 - 1986

Bangalore University - MD 1986 - 1993

Texas Tech University - Internship, Internal Medicine 1995 - 1996

University of Pittsburgh Medical Center - Resident, Anesthesiology; 07/1996 - 06/1999

Cardiovascular/ICU track 01/1999-06/1999

Additional Education

Cardiac and Thoracic Anesthesia/TEE/Cardiothoracic Intensive Care Track 1998 - 1999

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

CardioWest TAH-t Start Up Training 08/2007

Received Implant Certification Sponsored by SynCardia Systems, Inc. Proctored

Implant at Mayo Clinic-Phoenix, AZ 08/22/2007

University Medical Center

Tucson, Arizona

Certification

Board Certifications

American Board of Anesthesiology

Anesthesiology 2000 - Present

American College of Cardiology	
Fellow	2015 - Present
American College of Surgeons (ACS)	
Advanced Trauma Life Support (ATLS)	1998 - Present
American Heart Association (AHA)	
Advanced Cardiovascular Life Support (ACLS)	2004 - Present
American Society of Echocardiography	
Fellow (FASE)	2007 - Present
Educational Commission for Foreign Medical Graduates (ECFMG)	
ECFMG	1994 - Present
National Board of Echocardiography (NBE)	
Echocardiography	2003 - Present
Diplomate - Adult Transthoracic Plus Transesophageal Echocardiography	2004 - Present
Examination of Special Competence in Advanced Perioperative Transesophageal Echocardiography (Advanced PTEeXAM)	2013 - Present
Mayo Clinic Quality Academy	
Mayo Clinic Quality Fellow: Bronze Level Certification	2012
Licensure	
Florida ME 86789 (Medical)	01/2003 - 2019
California A83945 - Inactive (Medical)	07/2003 - 2017
Arizona 33238 (Medical)	08/2004 - 2018
Honors and Awards	
Distinctions in Physiology, Pathology, Pharmacology and Microbiology Ranked first in 2nd year of Medical School - Bangalore University	1989
Graduated with MD Honors (First Class), in top 5% - Bangalore University	1993
Mark H. Gilland Best Clinical Resident Award, Department of Anesthesiology and Critical Care Medicine - University of Pennsylvania	1999
Second Prize Resident Research Competition - Western Pennsylvania Society of Anesthesiologists	1999
Best Doctors in America - Best Doctors	2009 - 2010
Best Doctors in America - Best Doctors	2010 - 2011
Top Doctor in Phoenix, Arizona - International Association of Anesthesiologists	10/2010
Best Doctors in America - Best Doctors	2011 - 2012
Who's Who in America - Marquis Who's Who in America	2012
Who's Who in America - Marquis Who's Who in America	2014
Who's Who in America - 70th Platinum Anniversary Edition - Marquis Who's Who in America	2015
Who's Who in Science and Engineering - Marquis Who's Who in America	2016 - 2017

Previous Professional Positions and Major Appointments

Clinical Instructor - Department of Anesthesiology-CCM, University of Pittsburgh, Pittsburgh, Pennsylvania	1999 - 2000
ACLS Instructor - VA Pittsburgh Healthcare System, Pittsburgh, Pennsylvania	1999 - 2002
Charge Anesthesiologist and Schedule Maker, TEE Consultant, Liver Transplant Anesthesiologist - VA Pittsburgh Healthcare System, Pittsburgh, Pennsylvania	1999 - 2002
Staff Anesthesiologist part-time - VA Pittsburgh Healthcare System, Pittsburgh, Pennsylvania	1999 - 2002
Acute Pain Service Attending - Presbyterian University Hospital, University of Pittsburgh Medical Center, Unknown	1999 - 2005
Assistant Professor - Department of Anesthesiology-CCM, University of Pittsburgh, Pittsburgh, Pennsylvania	2000 - 2002
Clinical Assistant Professor - Department of Anesthesiology-CCM, University of Pittsburgh, Pittsburgh, Pennsylvania	2002 - 2005
Senior Associate Consultant - Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Phoenix, Arizona	2004 - 11/2008
Instructor in Anesthesiology - Mayo Clinic College of Medicine and Science	07/2005 - 03/2008
Director - Division of Cardiovascular and Thoracic Anesthesiology, Department of Anesthesiology and Perioperative Medicine, Mayo Clinic, Phoenix, Arizona	04/2007 - 07/2012
Assistant Professor in Anesthesiology - Mayo Clinic College of Medicine and Science	04/2008 - 09/2014
Chair - Division of Cardiovascular and Thoracic Anesthesiology, Department of Anesthesiology, Mayo Clinic, Phoenix, Arizona	07/2012 - 06/2015
Associate Professor in Anesthesiology - Mayo Clinic College of Medicine and Science	10/2014 - 05/2017

Professional and Community Memberships, Societies, and Services

Professional Memberships and Services

American College of Cardiology	
Fellow	06/2015 - Present
Surgeon's Section	
Appointee	04/2016 - Present
Surgeons' Section Leadership Council	
Member	04/2017 - 04/2020
American Heart Association	

Council on Cardiovascular Surgery and Anesthesia Member	2016 - Present
Council on Quality of Care and Outcomes Research	
Member	2016 - Present
American Society of Anesthesiologists	
Member	1996 - Present
Committee on Cardiovascular and Thoracic Anesthesia Adjunct Member	10/2015 - 10/2017
Committee on Patient Safety and Education Adjunct Member	10/2015 - 10/2017
American Society of Echocardiography	
Member	2002 - Present
Finance & Development Committee	
Member	2015 - Present
Membership Committee	
Member	2013 - Present
Steering Committee	
Member	2010 - Present
Telemedicine and New Technology Task Force	
Member	2014 - Present
Anesthesia Patient Safety Foundation	
Grants Review Committee	
Member	2008 - Present
Scientific Evaluation Committee	
Member	2013 - Present
Arizona Society of Anesthesiologists	
Member	2005 - Present
Arizona Society of Echocardiography	
Member	2005 - Present
Association of University Anesthesiologists	
Member	2015 - Present
Pennsylvania Medical Society	
Member	1996 - 2004
Society of Cardiovascular Anesthesiologists	
Member	1996 - Present
Ethics Committee	
Member	
Newsletter Sub-Committee	
Member	07/2014 - 04/2016
Veterans Affairs Medical Center	
Transfusion Committee	
Member	1999 - 2002
Western Pennsylvania Society of Anesthesiologists	

Member	1996 - 2005
Journal Responsibilities	
Journal Editorial Responsibilities	
Annals of Cardiac Anesthesia	
Editorial Board Member	2013 - Present
Heart Failure	
Section Editor	2015 - Present
Journal of Anaesthesiology Clinical Pharmacology	
Editorial Board Member	2015 - Present
Journal of Cardiothoracic and Vascular Anesthesia	
Editorial Board Member	2014 - Present
Expert Review Section	
Section Editor	2015 - Present
Journal Other Responsibilities	
Anesthesia & Analgesia	
Reviewer	2007 - Present
Annals of Cardiac Anesthesia	
Reviewer	2007 - Present
F1000 Prime	
Cardiovascular Medicine in Anesthesia: Basic Science	
Associate Faculty Member	2008 - Present
Journal of Applied Pharmacology	
Reviewer	2006 - Present
Journal of Neurosurgical Anesthesiology	
Reviewer	2006 - Present
Journal of Pharmacy Technology	
Reviewer	2006 - Present

Educational Activities

Curriculum and Course Development

Course Co-Director, Moderator, and Workshop Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2007 Scottsdale, Arizona	02/2007
Faculty and Workshop Moderator American Society of Anesthesiologists - TEE Workshop	11/2007
Meeting Faculty 2008 Society of Cardiovascular Anesthesiologists Annual Meeting Vancouver, British Columbia	06/2008
Course Co-Director and Workshop Organizer Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2009 Phoenix, Arizona	02/2009
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2010 Phoenix, Arizona	02/2010
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2011 Phoenix, Arizona	03/2011
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2012 Scottsdale, Arizona	02/2012
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2013 Scottsdale, Arizona	02/2013
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2014 Scottsdale, Arizona	02/2014
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2015 Scottsdale, Arizona	2015
Course Director Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2016 Scottsdale, Arizona	02/2016

Teaching Intramural

ACLS 1999 - 2005

Instructor for the Department of Anesthesiology and CRNA Program. Faculty Instructor (the only attending anesthesiologist in the Department of Anesthesiology at Presbyterian Hospital) on multiple ACLS courses sponsored by the Departments of Anesthesiology and Emergency Medicine.

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

General Anesthesiology 06/1999 - 06/2005

Didactic CA-1, CA-2 and CA-3 Lectures - monthly lectures for rotating anesthesia residents (15-20 per class) and University of Pittsburgh Medical Students (2-4 per class)

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

Cardiac Anesthesiology 06/1999 - 06/2005

Formal cardiac anesthesia lectures for Cardiothoracic Fellows and rotating Cardiac

Residents

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

TEE 06/1999 - 06/2005

Formal Echo Lectures for Intraoperative Series

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

Basic Pharmacology of Muscle Relaxants 08/1999

CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology

residents - formal didactic

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

Anesthesia Machine Basics 09/1999

CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology

residents - formal didactic

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

Hyperkalemia: Approach to the Patient with Renal Disease 09/1999

Problem-based Learning Discussion (30 min. lecture)

VA Pittsburgh Healthcare System

Pittsburgh, Pennsylvania

COPD, Anesthetic Management 12/1999

Problem-based Learning Discussion (30 min. lecture)

VA Pittsburgh Healthcare System

Pittsburgh, Pennsylvania

Geriatric Anesthesia 01/2000

CA-2 Lecture - 60 minute lecture - formal didactic

University of Pittsburgh Medical Center

Pittsburgh, Pennsylvania

Liver Disease: Approach to the Patient with Elevated LFTs Problem-based Learning Discussion (30-min lecture) VA Pittsburgh Healthcare System Pittsburgh, Pennsylvania	03/2000
Anesthesia for Liver Disease CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	06/2000
Basic Pharmacology of Muscle Relaxants CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2000
Anesthesia Machine Basics CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	08/2000
Basic Review of Cardiac Pharmacology Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	08/2000
Cardiopulmonary Bypass Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	02/2001
Geriatric Anesthesia CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	03/2001
Anesthesia for Liver Disease CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	06/2001
CNS Issues - Anesthesia for Intracranial Aneurysms Problem-based Learning Discussion (30 min. lecture) VA Pittsburgh Healthcare System Pittsburgh, Pennsylvania	06/2001
Basic Pharmacology of Muscle Relaxants CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2001

One Lung Ventilation CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2001
Basic Review of Cardiac Pharmacology Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2001
Anesthesia Machine Basics CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	08/2001
Perioperative Management of the Management with Vascular Disease CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	11/2001
Bleeding in Cardiac Surgery - An Approach Problem-based Learning Discussion (30 min. lecture) VA Pittsburgh Healthcare System Pittsburgh, Pennsylvania	12/2001
Geriatric Anesthesia CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	01/2002
Geriatric Anesthesia Review Problem-based Learning Discussion (30-min. lecture) VA Pittsburgh Healthcare System Pittsburgh, Pennsylvania	03/2002
Thoracic Epidural Analgesia Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	05/2002
Basic Pharmacology of Muscle Relaxants CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2002
Anesthesia for Liver Disease CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2002

Basic Review of Cardiac Pharmacology Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2002
Cardiopulmonary Bypass Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2002
Anesthesia Machine Basics CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	08/2002
One Lung Ventilation CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	08/2002
Basic Physics of TEE Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania	08/2002
Perioperative Management of the Management with Vascular Disease CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	09/2002
Geriatric Anesthesia CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	01/2003
Aortic Stenosis Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania	05/2003
Basic Pharmacology of Muscle Relaxants CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2003
Anesthesia for Liver Disease CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania	07/2003

Cardiopulmonary Bypass 07/2003 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Thoracic Epidural Analgesia 07/2003 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Basic Physics of TEE 07/2003 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania One Lung Ventilation 08/2003 CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Anesthesia Machine Basics 09/2003 CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Basic Review of Cardiac Pharmacology 09/2003 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Perioperative Management of the Management with Vascular Disease 10/2003 CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania LV Function Assessment 10/2003 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania Geriatric Anesthesia 01/2004 CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania

Intracardiac Masses 01/2004 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania **Aortic Stenosis** 06/2004 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania Basic Pharmacology of Muscle Relaxants 07/2004 CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Anesthesia for Liver Disease 07/2004 CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Thoracic Epidural Analgesia 07/2004 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania **Aortic Dissection** 07/2004 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania **Anesthesia Machine Basics** 08/2004 CA-1 Lecture - 60 minute lecture: Introductory lecture for new anesthesiology residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Cardiopulmonary Bypass 08/2004 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Basic Physics of TEE 08/2004 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania

One Lung Ventilation 09/2004 CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Basic Review of Cardiac Pharmacology 09/2004 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania LV Function Assessment 09/2004 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania Perioperative Management of the Management with Vascular Disease 11/2004 CA-3 Lecture - 60 minute lecture for senior residents - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Preceptor to 4th year medical students and rotating surgical residents in 2005 - Present Anesthesiology Mayo Clinic Arizona Scottsdale, Arizona Geriatric Anesthesia 01/2005 CA-2 Lecture - 60 minute lecture - formal didactic University of Pittsburgh Medical Center Pittsburgh, Pennsylvania Basic Review of Cardiac Pharmacology 01/2005 Cardiac Anesthesia Lectures - monthly lectures for rotating Anesthesia Residents and Fellows (45 min. lecture) University of Pittsburgh Medical Center Pittsburgh, Pennsylvania LV Function Assessment 01/2005 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania **Aortic Dissection** 01/2005 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania Basic Physics of TEE 05/2005 Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture)

Pittsburgh, Pennsylvania

Presbyterian University Hospital, University of Pittsburgh

Intracardiac Masses Monthly Echocardiography Lecture for Cardiac Anesthesia Residents, Fellows and Cardiology Echo Fellows (45 min. lecture) Presbyterian University Hospital, University of Pittsburgh Pittsburgh, Pennsylvania	05/2005
Geriatric Anesthesia Review Anesthesiology Grand Rounds Mayo Clinic Phoenix, Arizona	08/2005
Cardiac Monitoring Basics Resident Lecture Mayo Clinic Phoenix, Arizona	10/2005
Anesthetic Management of the Patient Following Heart Transplantation Anesthesiology Grand Rounds Mayo Clinic Phoenix, Arizona	06/2006
Heart Transplantation Issues Perioperative Service Lecture Mayo Clinic Phoenix, Arizona	06/2007
Anesthesiology Resident Introductory Lectures (3 lectures) Mayo Clinic Phoenix, Arizona	07/2007
Fluid and Blood Therapy Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2007
Cardiac Risk Factor Stratification and TEE Introduction Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2007
Invasive Cardiovascular Monitoring Resident Lecture Mayo Clinic Phoenix, Arizona	09/2007
Inaccuracies in CVP Monitoring Keyword Conference Mayo Clinic Phoenix, Arizona	05/2008
Ventilatory Assist Devices Keyword Conference Mayo Clinic Phoenix, Arizona	06/2008

Anesthesia Management for Valvular Heart Disease Resident Lecture Mayo Clinic Phoenix, Arizona	06/2008
Fluid and Blood Therapy Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2008
Cardiac Risk Factor Stratification and TEE Introduction Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2008
Introduction to E-Echo Application Resident Lecture Mayo Clinic Phoenix, Arizona	08/2008
Coagulation Management for Bypass Resident Lecture Mayo Clinic Phoenix, Arizona	11/2008
Coronary Stents: Are We Going Back to Bare-Metal? Anesthesiology Grand Rounds Mayo Clinic Phoenix, Arizona	06/2009
Pacemakers and Defibrillators Resident Lecture Mayo Clinic Phoenix, Arizona	10/2009
Cardiopulmonary Bypass Resident Lecture Mayo Clinic Phoenix, Arizona	01/2010
Introduction to Echocardiography Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2010
Congenital Heart Disease Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2010
Obesity: Pathophysiology and Management Resident Lecture Mayo Clinic Phoenix, Arizona	08/2010

Anesthesia for Urological Procedures Resident Lecture Mayo Clinic Phoenix, Arizona	01/2011
Journal Club Host and Moderator Mayo Clinic Phoenix, Arizona	03/2011
Anesthesia for Thoracic Surgery Resident Lecture Mayo Clinic Phoenix, Arizona	06/2011
Uncommon Cardiac Conditions Resident Lecture Mayo Clinic Phoenix, Arizona	11/2011
Intracranial Vascular Lesions & Anesthesia Resident Lecture Mayo Clinic Phoenix, Arizona	04/2012
Journal Club Host and Moderator Mayo Clinic Phoenix, Arizona	05/2012
Congenital Heart Disease Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2012
Invasive CV Monitoring Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2012
Journal Club Host and Moderator Mayo Clinic Phoenix, Arizona	12/2012
Liver Disease and Anesthesia Resident Lecture Mayo Clinic Phoenix, Arizona	01/2013
Cardiopulmonary Bypass Resident Lecture Mayo Clinic Phoenix, Arizona	06/2013

Congenital Heart Disease Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2013
Invasive CV Monitoring Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2013
Congenital Heart Disease Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2014
Invasive CV Monitoring Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2014
Coronary Stents Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	09/2014
Oral Boards Mayo Clinic Residents Mayo Clinic Phoenix, Arizona	03/2015
Anesthesia Oral Board Review Mayo Clinic Residents Mayo Clinic Phoenix, Arizona	06/2015
Congenital Heart Disease Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2015
Invasive CV Monitoring Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona	07/2015
Anesthetic Considerations for Lung Transplantation Invited Lecture - Perioperative Nursing Mayo Clinic Phoenix, Arizona	09/2015
Cardiopulmonary Bypass Resident Lecture Mayo Clinic Phoenix, Arizona	12/2015

Cardiovascular Anesthesia Highlights 2015 - Progress in Mitral Valve Disease and 02/2016 Arrhythmia Management Grand Rounds Invited Speaker Department of Anesthesiology, Mayo Clinic in Arizona Phoenix, Arizona Congenital Heart Disease 08/2016 Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona Invasive CV Monitoring 08/2016 Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona Aortic Valve Stenosis-A Reappraisal of Perioperative Risk 01/2017 Resident Lecture Mayo Clinic Phoenix, Arizona **Oral Board Reviews** 04/2017 Mayo Clinic Phoenix, Arizona Congenital Heart Disease 07/2017 Anesthesiology Residency Core Lecture Mayo Clinic Phoenix, Arizona Invasive CV Monitoring 07/2017 Anesthesiology Residency Core Lecture Mayo Clinic Phóenix, Arizona Mentorship Chen, W (Anesthesia Resident) 01/2003 **Description: Current Status: Private Practice** Outcome: Murray, Andrew (Cardiovascular Anesthesia Fellow) 01/2003 **Description:** Current Status: Anesthesiology Consultant, Mayo Clinic Arizona Outcome: Balasubramanian, H (Anesthesia Resident) 01/2004 **Description: Current Status: Private Practice**

Outcome:

Wilkens, Eric (Cardiovascular Anesthesia Fellow)

01/2004

Description:

Current Status: Associate Professor, Lewis Katz School of Medicine

Outcome:

Humpherys, Clint (Anesthesia Resident)

01/2010 - 01/2012

Description: Formal advisor to Dr. Humpherys. Met with resident to review

performance and provide professional career advice.

Current Status: Private Practice in Alaska

Outcome: Dr. Humpherys completed a Fellowship in Cardiology in 2013. Peer reviewed publication: Intermittent obstruction of left ventricular assist device due to prolapsing papillary muscle. Ann Card Anaesth 2012 Jul-Sep; 15 (3):250-1.

Craner, Ryan (Anesthesia Resident)

01/2011 - 01/2013

Description: Mentored in study, article preparation and submission **Current Status:** Anesthesiology Consultant, Mayo Clinic Arizona

Outcome: One peer-reviewed article: Emergent cardiopulmonary bypass during pectus excavatum repair. Ann Card Anaesth. 2013 Jul-Sep; 16(3):205-8 and three

abstracts

Carvajal, Tomas (Research Fellow)

01/2013 - Present

Description: Transitional Year Resident 2014 **Current Status:** Anesthesiology CA-2 Resident

Outcome: Co-author on International Meeting Abstract. Paper: RV Failure Mimicking Malignant Hyperthermia Following CABG; submitted to Academic

Excellence Day 2015 and for publication.

Cubillo, Efrain (Anesthesia Resident)

01/2013

Description: Mentored in study, article preparation and submission **Current Status:** Private Practice, Pain Medicine, Tucson, Arizona

Outcome: Manuscript accepted to the Journal of Emergency Medicine and another

manuscript in progress

Knapp, Kathleen (Anesthesia Resident)

01/2013

Description: Mentored on academic project for resident research requirements **Current Status:** Cardiothoracic Anesthesiology Fellow, University of Colorado **Outcome:** Peer Reviewed Article: Spontaneous Postpartum Coronary Artery Dissection and Cardiogenic Shock with Extracorporeal Membrane Oxygenation Assisted Recovery in a 30-Year-Old Patient. Published in Case Reports in Cardiology. 2016.

Kraus, Molly (Anesthesia Resident)

01/2013

Description: Mentored in study, article preparation and submission **Current Status:** Anesthesiology Consultant, Mayo Clinic Arizona **Outcome:** Abstract submitted and accepted to ASA meeting

Shamoun, Fadi (MD)

01/2014

Description: Advisor to Special Edition Publication for Dr. Shamoun

Current Status: On staff, Mayo Clinic Hospital

Outcome: Publications: 1) Novel Anticoagulants in Atrial Fibrillation: Monitoring, Reversal and Perioperative Management. Biomed Res Int 2015; 2015:424031; 2) Percutaneous and minimally invasive approaches to mitral valve repair for severe mitral regurgitation-new devices and emerging outcomes. Ann Card Anaesth 2015

Oct-Dec; 18 (4):528-36.

Zach, Kelly (Anesthesia Resident)

01/2014

Description: Mentored in study, article preparation and submission

Current Status: On Staff, Oregon Health & Science University, Portland, Oregon **Outcome:** Paper accepted for publication in Annals of Cardiac Anaesthesia - Perioperative Approach to Patients with Single Ventricle Physiology, April 2015.

Tankosic, Nikola (Research Assistant)

01/2014 - 01/2015

Description: Research project for Survey of the National Drug Shortage Effect on

Anesthesia and Patient Safety: a Patient Perspective. ID: 13-009642

Current Status: Internal Medicine Resident, Mt Sinai School of Medicine, New

York

Outcome: Survey of the National Drug Shortage Effect on Anesthesia and Patient

Safety: A Patient Perspective. Anesth Analg. 2015 Aug; 121(2):502-6.

Koushik, Sarang (Anesthesia Resident)

07/2014 - 06/2017

Description: Formal advisor to Dr. Koushik. Meet with resident quarterly to review

performance and provide professional and career advice. LVAD Research.

Current Status: Anesthesiology CA-3 Resident

Outcome: Peer reviewed paper accepted for publication in Annals of Cardiac Anaesthesia: The Increasing Use of the Impella in Heart Failure Management

Hanley, Seth (Anesthesia Resident)

10/2014

Description: Mentored in study, article preparation and submission **Current Status:** Pediatric Fellow, University of North Carolina, Chapel Hill **Outcome:** Research project and paper to be submitted to Journal of

Anesthesiology Clinical Pharmacology

O'Hare, Meabh (Cardiology Fellow)

11/2014 - 12/2014

Description: Sudden Cardiac Death JCVA Research Series

Current Status:

Outcome: Peer-reviewed publication: Sudden Cardiac Death and Disorders of the QT Interval: Anesthetic Implications and Focus on Perioperative Management. J

Cardiothorac Vasc Anesth 2015 Dec; 29 (6):1723-33.

Askar, Wajih (Visiting Resident)

01/2015

Description:

Current Status: Visiting Resident, Department of Anesthesiology, Mayo Clinic in

Arizona

Outcome: Peer reviewed paper accepted for publication in JCVA: Direct Oral

Anticoagulant Reversal Agents: A Looming Horizon, 2015

Briceno, David (Cardiology Fellow)

01/2015

Description:

Current Status: Cardiology Fellow, Albert Einstein College of Medicine, New York Outcome: 1) Peer reviewed paper submitted for publication in Annals of Cardiac Anaesthesia: Mild Therapeutic Hypothermia in Patients Resuscitated from out of Hospital Cardiac Arrest: A Meta-Analysis of Randomized Controlled Trials. 2) Peer reviewed publication: A meta-analysis and meta-regression of long-term outcomes of transcatheter versus surgical aortic valve replacement for severe aortic stenosis. Int J Card 2016;225:234-43. 3) Abstract at AHA 2016 "Substrate-based Ablation Strategies Versus Standard Ablation of Ventricular Tachycardia in Patients with Structural Heart Disease: A Meta-analysis."

Callisen, Hannelisa (Physician Assistant)

01/2015

Description:

Current Status: Critical Care NP/PA, Mayo Clinic, Phoenix, AZ

Outcome: Contributing author for peer reviewed publication submitted to JCVA: Adult Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) for Severe

Respiratory Failure: Current Status and Future Perspectives

Einsenberg, Evann (Cardiology Fellow)

01/2015

Description:

Current Status: Albert Einstein College of Medicine, New York

Outcome: Peer reviewed paper submitted for publication in Annals of Cardiac Anaesthesia: Mild Therapeutic Hypothermia in Patients Resuscitated from out of Hospital Cardiac Arrest: A Meta-Analysis of Randomized Controlled Trials.

Evans, Adam (MD)

01/2015

Description: Research - Outcomes research

Current Status:

Outcome: Peer-reviewed paper accepted for publication in JCVA: Mitral valve

percutaneous repair - an update on recent trials

Libricz, Stacy (Physician Assistant)

01/2015

Description:

Current Status: Critical Care Physician Assistant, Mayo Clinic, Phoenix, AZ **Outcome:** Contributing author for peer reviewed publication submitted to JCVA: Adult Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) for Severe

Respiratory Failure: Current Status and Future Perspectives

Lowell, Amelia (Respiratory Therapist)

01/2015

Description:

Current Status: Respiratory Care Therapist, Mayo Clinic, Phoenix, AZ

Outcome: Contributing author for peer reviewed publication submitted to JCVA: Adult Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) for Severe

Respiratory Failure: Current Status and Future Perspectives

MacKnight, Brenda (MD)

01/2015

Description: Mentored for peer reviewed paper in JCVA

Current Status: Department of Anesthesiology, Temple University School of

Medicine

Outcome: Moderate Aortic Stenosis at the Time of Coronary Artery Bypass Grafting: An Evidence Based Analysis and Recommended Management Approach for the Perioperative Echocardiographer-Accepted for publication in JCVA January

2015

Makar, Gerges (Cardiology Fellow)

01/2015

Description:

Current Status: Private Practice, Phoenix, Arizona

Outcome: 1) Percutaneous and minimally invasive approaches to mitral valve repair for severe mitral regurgitation: new devices and emerging outcomes. Ann Card Anaesth. 2015 Oct-Dec;18(4):528-36. 2) Peer reviewed paper accepted for publication in JCVA: Direct Oral Anticoagulant Reversal Agents: A Looming Horizon, 2015.

Makkiya, Mohammed (Internal Medicine Resident)

01/2015

Description:

Current Status: Albert Einstein College of Medicine, New York

Outcome: 1) Peer reviewed paper submitted for publication in Annals of Cardiac Anaesthesia: Mild Therapeutic Hypothermia in Patients Resuscitated from out of Hospital Cardiac Arrest: A Meta-Analysis of Randomized Controlled Trials. 2) Peer reviewed publication: A meta-analysis and meta-regression of long-term outcomes of transcatheter versus surgical aortic valve replacement for severe aortic stenosis. Int J Card 2016:225:234-43.

Maldonado, Yasdet (MD)

01/2015

Description: Mentored in peer reviewed paper for JCVA

Current Status: Department of Anesthesiology, Temple University School of

Medicine

Outcome: Moderate Aortic Stenosis at the Time of Coronary Artery Bypass Grafting: An Evidence Based Analysis and Recommended Management Approach for the Perioperative Echocardiographer-Accepted for publication JCVA, January 2015.

2015

Malhotra, Anita (MD)

01/2015

Description: Project - Echo research

Current Status:

Outcome: Peer-reviewed paper accepted for publication in JCVA: "Incidental mitral regurgitation in the patient for AVR for severe aortic regurgitation- What is the

evidence for optimal management?"

Panagiota, Christia (Internal Medicine Resident)

01/2015

Description:

Current Status: Department of Medicine, Jacobi Medical Center, Albert Einstein College of Medicine

Outcome: Peer reviewed paper submitted for publication in Annals of Cardiac Anaesthesia: Mild Therapeutic Hypothermia in Patients Resuscitated from out of Hospital Cardiac Arrest: A Meta-Analysis of Randomized Controlled Trials.

Schleifer, William (Electrophysiology Fellow)

01/2015

Description: Mentored in peer reviewed paper for Annals of Cardiac Anaesthesia

Current Status: Electrophysiology Fellow, Mayo Clinic

Outcome: Hybrid Atrial Fibrillation Ablations and the Increasing Importance of the Hybrid Cardiovascular Laboratory Operating Room, published in Annals of Cardiac Anaesthesia Jul-Sep 2015. Perioperative atrial fibrillation: a systematic review of evolving therapeutic options in pharmacologic and procedural management. Ann Card Anaesth. 2015 Oct-Dec;18(4):565-70.

Seggern, Rita (Nurse Practitioner)

01/2015

Description: Current Status:

Outcome: Percutaneous and minimally invasive approaches to mitral valve repair for severe mitral regurgitation: new devices and emerging outcomes. Ann Card Anaesth. 2015 Oct-Dec;18(4):528-36.

Singh, Saket (MD) 01/2015

Description: Mentored in peer reviewed paper for JCVA

Current Status: Department of Anesthesiology, Temple University School of

Medicine

Outcome: Moderate Aortic Stenosis at the Time of Coronary Artery Bypass Grafting: An Evidence Based Analysis and Recommended Management Approach for the Perioperative Echocardiographer-Accepted for publication in JCVA January

2015

Tarwade, Pritee (Research Trainee)

01/2015

Description:

Current Status: Research Trainee, Mayo Clinic, Phoenix, AZ

Outcome: Contributing author for peer reviewed publication submitted to JCVA: Adult Veno-Venous Extracorporeal Membrane Oxygenation (VV-ECMO) for Severe

Respiratory Failure: Current Status and Future Perspectives

Weiner, Menachem (MD) 01/2015

Description: Research - Outcomes research

Current Status:

Outcome: Peer-reviewed paper accepted for publication in JCVA: Mitral valve

percutaneous repair - an update on recent trials

Villablanca Spinetto, Pedro (Cardiology Fellow) 01/2015 - 01/2016

Description: Anesthesia CA-1, Mayo Clinic in Arizona Project: Meta-analysis

research, therapeutic hypothermia in MI

Current Status: Cardiology Resident, Albert Einstein College of Medicine, New

York

Outcome: 1) Peer-reviewed paper sent for publication: Therapeutic Hypothermia for Myocardial Protection in ST Elevation Myocardial Infarction: A Systematic Review and Meta-Analysis of Randomized Control Trials. 2) Peer reviewed paper accepted for publication in JCVA: Current Status of TAVR: Results of Landmark Clinical Trials. 3) Peer reviewed paper submitted for publication in Annals of Cardiac Anaesthesia: Mild Therapeutic Hypothermia in Patients Resuscitated from out of Hospital Cardiac Arrest: A Meta-Analysis of Randomized Controlled Trials. 4) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 5) Peer reviewed publication: Extracorporeal Membrane Oxygenation (ECMO) in Severe Influenza Infection with Respiratory Failure: A Systematic Review and Meta-analysis. Annals of Cardiac Anaesthesia. 2017 Jan-Mar. 20(1):14-21. 6) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis, Annals of Cardiac Anaesthesia 2016 Oct-Dec: 19(4):626-636, 7) Peer reviewed publication: A meta-analysis and meta-regression of long-term outcomes of transcatheter versus surgical aortic valve replacement for severe aortic stenosis. Int J Card 2016;225:234-43. 8) Abstract at AHA 2016: Comparison of General versus Local Anesthesia in Patients Undergoing Transcatheter Aortic Valve Replacement (TAVR): A Meta-analysis. 9) Abstract at TCT 2016: Impact of Staged versus One-Time Multivessel Percutaneous Intervention in ST-elevation Myocardial Infarction: An Updated Review of Literature. 10) Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Carvajal, Tomas (Anesthesiology Resident)

01/2015 - 01/2018

Description: TAVR Research

Current Status: Anesthesia CA-2, Mayo Clinic in Arizona

Outcome: Peer reviewed paper accepted for publication in JCVA: Current Status of

TAVR: Results of Landmark Clinical Trials

Lohrmann, Graham (Visiting Resident)

07/2015 - 01/2016

Description:

Current Status: Visiting Cardiology Resident

Outcome: Peer reviewed paper accepted for publication in JCVA: Direct Oral

Anticoagulant Reversal Agents: A Looming Horizon, 2015.

Atwal, Danish (Visiting Resident)

09/2015 - 10/2015

Description:

Current Status: Internal Medicine Resident, Maricopa Medical Center

Outcome: Peer reviewed paper accepted for publication in JCVA: Direct Oral

Anticoagulant Reversal Agents: A Looming Horizon, 2015.

Abrich, Victor (Resident)

01/2016 - Present

Description:

Current Status: Cardiology Resident, Mayo Clinic

Outcome: The possible role of propofol in drug-induced torsades de pointes: A real-world single-center analysis. Int J Cardiol 2017 Apr 01; 232:243-246 Epub

2017

Agrawal, Sahil (Cardiology Fellow)

01/2016

Description:

Current Status: Department of Cardiovascular Medicine, St. Luke's University

Health Network

Outcome: 1) Peer reviewed publication submitted for publication to JCVA:

Outcomes Research in Critical Illness. 2) Peer reviewed article: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 Oct-Dec; 19(4):626-636. 3)Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Al-Bawardy, Rasha (MD)

01/2016

Description: Cardiologist, Massachusetts General Hospital

Current Status:

Outcome: Two publications: 1) TCT-159 Impact of Staged versus One-Time Multivessel Percutaneous Intervention in ST-elevation Myocardial Infarction: A Meta-analysis. J Am Coll Cardiol 2016; 2) TCT-750 Bivalirudin versus Heparin

Anticoagulation in Transcatheter Aortic Valve Interventions. A Systematic review

and a Meta-analysis. J Am Coll Cardiol 2016.

Baruah, Anushka (Internal Medicine Resident)

01/2016

Description:

Current Status: Department of Internal Medicine, John H. Stroger, Jr. Hospital of Cook County

Outcome: 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 OctDec; 19(4):626-636. 3) Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Bhatia, Nirmanmoh (Internal Medicine Fellow)

01/2016

Description:

Current Status: Cardiovascular Medicine Fellow, Vanderbilt Heart and Vascular Institute

Outcome: 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 OctDec; 19(4):626-636. 3) Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Ganesh, Malini (Internal Medicine Resident)

01/2016

Description: Mentored in study, article preparation and submission

Current Status: Resident in Internal Medicine, John H. Stroger, Jr. Hospital of Cook County

Outcome: Peer reviewed publication: Extracorporeal Membrane Oxygenation (ECMO) in Severe Influenza Infection with Respiratory Failure: A Systematic Review and Meta-analysis. Annals of Cardiac Anaesthesia. 2017 Jan-Mar. 20(1):14-21.

Hussain, Zeeshan (Internal Medicine Resident)

01/2016

Description:

Current Status: Department of Internal Medicine, University of Louisville **Outcome:** 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 Oct-Dec: 19(4):626-636.

Kumar, Rohit (Internal Medicine Resident)

01/2016

Description:

Current Status: Department of Internal Medicine, John H. Stroger, Jr. Hospital of Cook County

Outcome: 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 Oct-Dec; 19(4):626-636.

Mohananey, Divyanshu (Internal Medicine Resident)

01/2016

Description:

Current Status: Department of Internal Medicine, John H. Stroger, Jr. Hospital of Cook County

Outcome: 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer-reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 Oct-Dec; 19(4):626-636. 3) Abstract at AHA 2016: Trends in Incidence, Management and Outcomes of Cardiogenic Shock Complicating Thyroid Storm in the United States. 4) Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Nikolic, Katarina (MD)

01/2016

Description: Cardiac Outcomes Project, TAVR meta-analysis

Current Status: Data Collection in Progress

Outcome: Abstract: Comparison of General versus Local Anesthesia in Patients Undergoing Transcatheter Aortic Valve Replacement (TAVR): A Meta-analysis

Sajawal Ali, Muhammad (Internal Medicine Resident)

01/2016

Description:

Current Status: Department of Internal Medicine, John H. Stroger, Jr. Hospital of

Cook County

Outcome: Peer reviewed publication submitted for publication to JCVA: Outcomes

Research in Critical Illness

Sethi, Jaskaran (Internal Medicine Resident)

01/2016

Description: Mentored in study, article preparation and submission

Current Status: Internal Medicine Resident at John H. Stroger, Jr. Hospital of

Cook County

Outcome: 1) Peer reviewed publication submitted for publication to JCVA: Outcomes Research in Critical Illness. 2) Peer reviewed publication: Extracorporeal Membrane Oxygenation (ECMO) in Severe Influenza Infection with Respiratory Failure: A Systematic Review and Meta-analysis. Annals of Cardiac Anaesthesia. 2017 Jan-Mar. 20(1):14-21. 3) Peer reviewed publication: Effect of antiplatelet therapy on mortality and acute lung injury in critically ill patients: A systematic review and meta-analysis. Annals of Cardiac Anaesthesia 2016 Oct-Dec; 19(4):626-636.

Sukhal, Shashvat (Pulmonary Fellow)

01/2016

Description: Mentored in study, article preparation and submission

Current Status: Pulmonary Fellow, John H. Stroger, Jr. Hospital of Cook County Outcome: Peer Reviewed Article: Extracorporeal Membrane Oxygenation (ECMO) in Severe Influenza Infection with Respiratory Failure: A Systematic Review and Meta-analysis. Annals of Cardiac Anaesthesia. 2017 Jan-Mar. 20(1):14-21.

Cyrille, Nicole (MD) 01/2016 - 01/2017

Description: Cardiology Fellow

Current Status: Cardiology Fellow, Montefiore Medical Center, Bronx, New York Outcome: Three publications: 1) Predictors and Outcomes of Right Ventricular Failure in Patients With Left Ventricular Assist Devices. Journal of Cardiothoracic and Vascular Anesthesia.2017; 2) Periprocedural Anticoagulation for Catheter Ablation of Atrial Fibrillation: Practical Implications for Perioperative Management. Journal of Cardiothoracic and Vascular Anesthesia.2017; 3) Practical Implications for Perioperative Management. Journal of Cardiothoracic and Vascular Anesthesia.2017.

Ali, Muhammad (Resident)

07/2016 - Present

Description: Current Status:

Outcome: Peer-reviewed publication: Trends in the Incidence and In-Hospital Outcomes of Cardiogenic Shock Complicating Thyroid Storm. Am J Med Sci. 2017 (Suppl 1).

Benito-Gonzalez, T. 07/2016 - Present

Description:

Current Status: Cardiology, University Hospital of Leon, Spain

Outcome: Publication: Predictors and outcomes of right ventricular failure in patients with left ventricular assist devices. Science Direct. July 2017

Gupta, T (Resident) 07/2016 - Present

Description: Cardiology Resident, Albert Einstein College of Medicine

Current Status:

Outcome: Comparison of local versus general anesthesia in patients undergoing transcatheter aortic valve replacement: A metaanalysis. Catheter Cardiovasc Interv.

2017

Shah, T (Resident) 07/2016 - Present

Description:

Current Status: Resident, Albert Einstein College of Medicine

Outcome: Publication: Comparison of local versus general anesthesia in patients undergoing transcatheter aortic valve replacement a metaanalysis. Catheter

Cardiovasc Interv . 2017

Tran, A. (Resident) 07/2016 - Present

Description: Medicine Resident, Jacobi Hospital, Bronx, New York

Current Status:

Outcome: Predictors and outcomes of right ventricular failure in patients with left

ventricular assist devices. Science Direct. July 2017

Academic Career Development

Crucial Conversations 10/2009

Mayo Clinic in Arizona Scottsdale, Arizona

Resident Evaluation Process 10/2009

Mayo Clinic in Arizona Phoenix, Arizona

Making Your Next Presentation Go Better Than Your Last 12/2010

Presentation Skills for Physicians

Mayo Clinic in Arizona Phoenix, Arizona

Drug Diversion from Mayo from 2011-2012 08/2012

Mayo Clinic Arizona Phoenix, Arizona

Arizona Resiliency Program 03/2015

Mayo Clinic Phoenix, Arizona

Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities

Mayo Clinic in Arizona

Department of Anesthesiology

Cardiothoracic Anesthesiology

Chief

Member 2005 - Present

Intraoperative Echocardiography

Joint Director

Resident Board Review

Oral Board Review Examiner 11/02/2015 - Present

Technology Assessment Committee

Member 2007 - Present

Transcatheter Aortic Valve Replacement Team

Cardiovascular Anesthesiology

Director 07/2012 - Present

Mayo Clinic Arizona Committees

Member 2008 - Present

Clinical Research Subcommittee

Discipline Oriented Group (DOG)

Anesthesia-Critical Care-Emergency Medicine

Chair	2016 - Present
Executive Operations Team - Arizona	
Clinical Practice Committee - Arizona	
Member	2005 - Present
Patient Safety Subcommittee	
Member	2008 - Present
Pharmacy and Therapeutics Subcommittee	
Member	2008 - Present
Education Committee	
Member	2008 - Present
Personnel Committee	
Search Committee for Cardiovascular Anesthesiologist Recruitment	
Member	2007 - Present
Search Committee for Cardiovascular Surgery	
Member	2007 - Present
Quality & Process Improvement Committee	
Mortality Review Subcommittee	
Member	2015 - Present
Sedation Subcommittee	
Member	2014 - Present
Mayo Clinic Department of Anesthesiology	
Academic Appointments and Promotions Committee	
Member	03/2014 - Present
Activities at Other Institutions	
University of Pittsburgh	
Department of Anesthesiology-CCM	
Resident Education Committee	
Member	1999 - 2005
Resident Selection Committee	
Member	2000 - 2005
Medical Student Committee	
Member	2000 - 2005

Presentations Extramural

National or International

Invited

Use of Thoracic Epidural Analgesia in Treating Intractable Angina Unresponsive to Maximal Medical Therapy in a Patient Awaiting Heart Transplantation Annual Resident Research Competition; WPSA Meeting Abstract Pittsburgh, Pennsylvania	05/1999
Anesthetic Management of Heart Transplantation Mayo Clinic Heart Symposium Scottsdale, Arizona	07/2005
Echocardiography: from Pictures to Information 3rd Annual American Society of Echocardiography Phoenix, Arizona	10/2005
Airway Technology Conducted Workshop (3 hours) Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Scottsdale, Arizona	02/2007
Airway Technology Conducted Workshop (3 hours) Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Scottsdale, Arizona	02/2007
Cardiac Rhythm Management Devices 30 minute presentation Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Scottsdale, Arizona	02/2007
Mitral Valve Repair American Society of Echocardiography - State of the Art Echocardiography Phoenix, Arizona	02/2007
Mitral Valve Repair Association of Cardiovascular Anesthesiologists Bangalore, India	08/2007
Basic Knobology Workshop Moderator American Society of Anesthesiologists Transesophageal Echocardiography Workshop Phoenix, Arizona	11/2007
Understanding the Basics of the Ultrasound Machine American Society of Anesthesiologists Transesophageal Echocardiography Workshop Phoenix, Arizona	11/2007

Airway, Regional Technology Faculty and Workshop Moderator Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2008 Phoenix, Arizona	02/2008
Noncardiac Surgery in the Patient with Severe Cardiac Disease Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2008 Phoenix, Arizona	02/2008
Mitral Valve Repair American Society of Echocardiography - Mayo Clinic State of the Art Echocardiography Meeting Phoenix, Arizona	03/2008
Coronary Stents: Are We Going Back to Bare Metal? Lecture at the Society of Cardiovascular Anesthesiologists Vancouver, British Columbia, Canada	06/2008
ACC/AHA Guidelines: A Review Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2009 Phoenix, Arizona	02/2009
Mitral Valve Repair American Society of Echocardiography-Mayo Clinic State of the Art Echocardiography Meeting Scottsdale, Arizona	02/2009
TEE-An Introduction to TEE Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2009 Phoenix, Arizona	02/2009
Airway Workshop Instructor Mayo Clinic College of Medicine Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2010 Phoenix, Arizona	02/2010
Preoperative Evaluation for Non-cardiac Surgery - What's New? Co-chair, Panel on Non-cardiac Surgery World Congress of Cardiology Shanghai, China	12/2010
Echocardiography for the Assessment of Perioperative Hypotension Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2011 Phoenix, Arizona	03/2011
Moderator Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2011 Phoenix, Arizona	03/2011

Workshop on Heart Failure: Coordinator Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2011 Phoenix, Arizona	03/2011
Chair Panel on Perioperative Care in Cardiothoracic Anesthesia Third International Congress of Cardiology Beijing, China	12/2011
Using Echocardiography in Hemodynamically Unstable Patients Third International Congress of Cardiology Beijing, China	12/2011
Heart Failure, Ventricular Assist Device and Total Artificial Heart Workshop Mayo Clinic Symposium on Anesthesia and Perioperative Medicine Scottsdale, Arizona	02/2012
Moderator Mayo Clinic College of Medicine, Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2013 Scottsdale, Arizona	02/2013
The Acutely Unstable Patient - How Can Echo Help? Mayo Clinic College of Medicine, Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2013 Scottsdale, Arizona	02/2013
Pre-operative Evaluation of the High Risk Cardiac Patient for Non Cardiac Surgery: Focus on the Revised ACC/AHA Guidelines BIT's Major Diseases Clinical Summit - 2013 Warsaw, Poland	11/2013
Moderator Mayo Clinic College of Medicine, Mayo Clinic Symposium on Anesthesia and Perioperative Medicine 2014 Scottsdale, Arizona	02/2014
Pre-operative Evaluation of the High Risk Cardiac Patient for Non Cardiac Surgery: A Comprehensive Approach Focused on the ACC/AHA Guidelines 2nd Asian Clinical Congress Kyoto, Japan	04/2014
Diastolic Dysfunction Panel Moderator 18th Meeting of the Indian Association of Cardiovascular and Thoracic Anesthesiologists (IACTA) Jaipur, India	02/2015
Extracorporeal Circulation: History, Best Practices and the Future Plenary Session Keynote Speaker	02/2015

18th Meeting of the Indian Association of Cardiovascular and Thoracic
Anesthesiologists (IACTA)
lainur India

Jaipur, India

TEE in Haemodynamically Unstable Patients 02/2015

18th Meeting of the Indian Association of Cardiovascular and Thoracic

Anesthesiologists (IACTA)

Jaipur, India

Challenging Cases 03/06/2015

Panel Member

Annual Mayo Clinic Symposium on Anesthesia and Perioperative Medicine

Scottsdale, Arizona

Meeting Moderator 03/06/2015

Annual Mayo Clinic Symposium on Anesthesia and Perioperative Medicine

Scottsdale, Arizona

Meeting Moderator 03/07/2015

Annual Mayo Clinic Symposium on Anesthesia and Perioperative Medicine

Scottsdale, Arizona

Remifentanil in Cardiac Anesthesia - An Analysis 04/2015

37th Annual Meeting of the Society of Cardiovascular Anesthesiologists (SCA)

Washington, District of Columbia

Anesthetic Implications/Complications 07/2015

Mayo Clinic Lung Transplant Symposium

Phoenix, Arizona

Session Moderator 01/2016

The 34th Annual Symposium: Clinical Update in Anesthesiology, Surgery and Perioperative Medicine

Icahn School of Medicine at Mt. Sinai

New York, New York

Moderator 02/2016

Mayo Clinic Symposium on Anesthesia and Perioperative Medicine

Scottsdale, Arizona

The High-Cardiovascular Risk Patient for the Non-Cardiac Surgery: Guidelines for 05/2016

the Perioperative Clinician

Chair of Panel - Session 4-13: Cardiovascular Drug Discovery and Therapy

8th Annual International Conference of Cardiology

Barcelona, Spain

Aortic Stenosis- A Reappraisal of Perioperative Risk 09/2016

Anaesthesia and Critical Care Symposium 2016- Galway Clinic and Royal College of Surgeons

Galway, Ireland

01/2016

Poster

Right Ventricular Protection Strategy to Decrease the Need for Bi-Ventricular 04/2014

Mechanical Circulatory Support

Poster Presentation

Mayo Clinic Quality Symposium

Phoenix, Arizona

Providing Anesthesia to a Patient on ECMO: A Case Report 10/2014

American Society of Anesthesiologists Annual Meeting

New Orleans, Louisiana

Regional

Invited

Anesthesia for the Heart Transplant Recipient 08/2005

Anesthesiology Grand Rounds

Mayo Clinic

Phoenix, Arizona

Visiting Professorship

Visiting Professorships

Bangalore Heart Foundation 08/2007

Yearly Lecture: CV Resident Program - Yearly Update in Mitral Valve Repair

Wockhardt Hospital India (Harvard Medical International)

Bangalore, India

Extracorporeal Circulation: Past, Present and Future 08/2012

University of New Mexico Health Sciences Center

Albuquerque, New Mexico

Uncommon Cardiac Diseases 08/2012

University of New Mexico Health Sciences Center

Albuquerque, New Mexico

Extracorporeal Circulation- From Cardiopulmonary Bypass to ECMO and 03/2015

Mechanical Assist Device Therapy

University of Kansas Kansas City, Kansas

Cardiac Anesthesia for the Non-cardiac Anesthesiologist

Lecture

University of Basel

Basel, Switzerland

Hot Topics in Cardiac Anesthesia 01/2016

Lecture

University of Basel

Basel, Switzerland

Extracorporeal Circulation: Emerging Trends and Outcomes Lecture University of Colorado Department of Anesthesiology Denver, Colorado	01/2016
Extracorporeal Circulation - Outcomes with ECMO and Mechanical Assist Devices Department of Anesthesiology, West Virginia University Morgantown, West Virginia	03/2016
Annual Highlights in Cardiac Anesthesia 2016 University of Alabama at Birmingham Birmingham, Alabama	12/2016
Extracorporeal Circulation - Past, Present, and Future University of Alabama at Birmingham Birmingham, Alabama	12/2016
Perioperative Outcomes in Aortic Valve Stenosis and TAVR Department of Anesthesiology and Perioperative Medicine, Penn State Milton S. Hershey Medical Center Hershey, Pennsylvania	02/2017
Perioperative Outcomes in Aortic Valve Stenosis and Transcatheter Aortic Valve Replacement Grand Rounds Lecture Department of Anesthesiology, University of Pennsylvania Perelman School of Medicine Philadelphia, Pennsylvania	05/17/2017 - 05/18/2017

Clinical Practice, Interests, and Accomplishments

2005 - Present Mayo Clinic Arizona - Intraoperative Echocardiography: Instrumental in developing the intraoperative component of the perioperative echocardiography service. Co-director of the Intraoperative Echocardiography Service. 2005 - Present Mayo Clinic Arizona - Assisted in developing the anesthetic component of the heart transplant and heart failure program. 2005 - Present Educational Protocol - Assisted in developing the cardiac anesthesia rotation and lecture series for the Mayo anesthesiology residents. 2012 - Present Mayo Clinic Arizona Transcutaneous Aortic Valve Replacement (TAVR) Program. Leader of the Anesthesiology TAVR Team, credentialed by Edwards Life Sciences, created and developed the TAVR protocol for the cardiac anesthesia division. The TAVR team from CV anesthesiology comprises 2 CV anesthesiologists and 4 CRNA's.

Research Interests

IRB Approved Research Protocols: Co-Investigator: GSK NKT - Neurokinin-1 receptor antagonist for postoperative nausea and vomiting Progenics - Methylnaltrexone in the treatment of postoperative ileus Heartmate 2 LVAD - Destination therapy study Hospira - Precedex for prevention of postoperative delirium in hip fracture patients

Research Grants Awarded

Active Grants

Federal

Program	ISCHEMIA-CKD: International Study of Comparative Health	09/2016 - 09/2020
Director /	Effectiveness with Medical and Invasive Approaches- Chronic Kidney	

Disease. Funded by National Institutes of Health. (U01 HL117905)

Principal Investigator

Industry

Co-Investigator 10-005239/ A Prospective, Randomized, Controlled, Un-blinded, Multi- 10/2010 - 10/2016

Center Clinical Trial to Evaluate the HeartWare® Ventricular Assist System for Destination Therapy of Advanced Heart Failure . Funded by

HeartWare Inc.. (HW-004)

Completed Grants

Industry

Co-Investigator Grigore/06-008774/DX-88 (Ecallantide) for the Reduction of Blood Loss 01/2008 - 12/2009

Associated with Cardiopulmonary Bypass: A Phase 2 Randomized, Double-Blind, Placebo-Controlled, Multicenter Study in Patients Undergoing Primary Coronary Artery Bypass Grafting, Single: 06-008774/ DX-88 (Ecallantide) for the Reduction of Blood Loss Associated with Cardiopulmonary Bypass: A Phase 2 Randomized, Double-Blind, Placebo-Controlled, Multicenter Study in Patients Undergoing Primary Coronary Artery Bypass Grafting, Single Valve R. Funded by Dyax

Corporation

Co-Investigator 08-005619/Quark QRK.004/ INTRAVENOUS I5NP: 08-

02/2009 - 01/2011

005619/QRK.004/ A PHASE I, RANDOMIZED, DOUBLE-BLIND, DOSE ESCALATION TRIAL OF THE SAFETY AND PHARMACOKINETICS OF A SINGLE INTRAVENOUS INJECTION OF I5NP IN PATIENTS AT HIGH RISK OF ACUTE KIDNEY INJURY UNDERGOING MAJOR CARDIOVASCU. Funded by Quark Pharmaceuticals. (QRK.004)

Mayo Clinic

Program 14-005465 PRotective Ventilation with Higher versus Lower PEEP 10/2014 - 12/2016 Director / during General Anesthesia for Surgery in OBESE Patients – The

Principal PROBESE Randomized Controlled Trial: PRotective Ventilation with Higher versus Lower PEEP during General Anesthesia for Surgery in OBESE Patients – The PROBESE Randomized Controlled Trial: PRotective Ventilation with Higher versus Lower PEEP during General Anesthesia for Surgery in OBESE Patients – The PROBESE Patients – The PROBESE Patients – The PROBESE Patients – The Principal PROBESE Patients – The PROBESE Patients – The PROBESE Patients – The Principal Principal PROBESE Patients – The Principal Principal

OBESE Patients – The PROBESE Randomized Controlled Trial.

Funded by Anesthesiology

Program 14-007528 Expiron: Pilot Study of Postoperative Evaluation of Breathing 01/2015 - 12/2015

Director / Using Noninvasive Respiratory Monitor in Patients Randomized Principal Intraoperatively into "Lung Recruitment vs. Standard Ventilation"

Investigator Management Groups: 14-007528 ExSpiron: Pilot Study of Postoperative

Evaluation of Breathing Using Noninvasive Respiratory Monitor in Patients Randomized Intraoperatively into "Lung Recruitment vs. Standard Ventilation" Management Groups. Funded by Anesthesiology

Research

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^{*} Indicates that the primary author was a mentee of this author.