

SHEELA PAI, MD

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EDUCATION

UNIVERSITY OF CHICAGO, Chicago, IL 2002 –2004

Critical Care Fellowship (2003 – 2004)

Cardiothoracic Anesthesiology Fellowship (2002 – 2003)

TEMPLE UNIVERSITY SCHOOL OF MEDICINE, Philadelphia, PA 1999 –2002

Chief Resident of Anesthesiology (2001 – 2002)

Anesthesiology Residency (1999 – 2002)

EPISCOPAL HOSPITAL, Philadelphia, PA 1998 –1999

Preliminary Surgery Internship

KING EDWARD MEMORIAL HOSPITAL, Bombay, India 1996 –1998

Anesthesiology Residency

GRANT MEDICAL COLLEGE, Bombay, India 1990 –1996

Bachelor of Medicine Bachelor of Surgery M.B.B.S.

PROFESSIONAL EXPERIENCE

STANFORD UNIVERSITY 2013-Present

Clinical Associate Professor of Anesthesiology

TEMPLE UNIVERSITY SCHOOL OF MEDICINE, Philadelphia, PA 2007 – Present

Associate Professor of Anesthesiology (2012 – Present)

Associate Program Director (2008 – Present)

Assistant Professor of Anesthesiology (2007 – 2012)

BAYLOR COLLEGE OF MEDICINE, Houston, TX 2004 – 2007

Assistant Professor of Anesthesiology (Baylor College of Medicine)

Staff Anesthesiologist (Michael E. DeBakey VA Medical Center)

LICENSURE

California State Medical License C56213 Current

Pennsylvania State Medical License MD431653, Current

Illinois State Medical License 036106938, 2008

Texas State Medical License M0852, 2006

Advanced Cardiac Life Support, Current

SPECIALTY CERTIFICATIONS

Anesthesiology, 2003 (Recertification in 2012)

Critical Care Medicine, 2004

National Board of Echocardiography (Perioperative Echocardiology), 2003

AWARDS & HONORS

MICHAEL E. DEBAKEY MEDICAL CENTER, Houston, TX

Special Contribution Award, 2005 & 2006

UNIVERSITY OF BOMBAY, Bombay, India

Distinction in Microbiology, 1993

Distinction in Pathology, 1993

Distinction in Physiology, 1991

PROFESSIONAL ACTIVITIES

AMERICAN SOCIETY OF ANESTHESIOLOGISTS

Member, Educational Track on Critical Care Subcommittee, 2012 – Present

SOCIETY FOR CRITICAL CARE MEDICINE

Abstract Reviewer for Annual Meeting, 2012 – Present

TEMPLE UNIVERSITY SCHOOL OF MEDICINE

Central Line Task Force, 2011 – Present

Fourth-Year Medical Student Clerkship Director, 2009 – Present

Chair, Blood Transfusion Committee, 2007 – Present

Resident Member, CPR Committee, 2001 – 2002

BAYLOR COLLEGE OF MEDICINE

Member, Institutional Review Board, 2006 – 2007

Member, Residency Curriculum Oversight Committee, 2005 – 2006

MICHAEL E. DEBAKEY VA MEDICAL CENTER

Member, Critical Care Committee, 2006 – 2007

Member, CPR Committee, 2005 – 2006

Instructor, ACLS, 2005 – 2006

PROFESSIONAL ORGANIZATIONS

California Society of Anesthesiologists
Pennsylvania Society of Anesthesiologists
Society of Critical Care Medicine
Society of Critical Care Anesthesiologists
Society of Cardiovascular Anesthesiologists
American Society of Anesthesiologists
American Society of Echocardiography
International Anesthesia Research Society
American Medical Association

PUBLICATIONS

1. Pai S, Ruiz, J: TEE for Non-Cardiac Surgery. Clinical Updates: Pennsylvania Society of Anesthesiologists 2011. Web publication. <http://www.psanes.org/Anesthesiologists/ClinicalResources/ClinicalUpdates/tabid/94/anid/36/Default.aspx>.
2. Ellis JE, Pai S: Pro: Vascular Stents in the Radiology Suite – An Anesthesiologist Is Needed. Journal of Cardiothoracic and Vascular Anesthesia 2005; 19 (6) 801-804.
3. O'Connor MF, Pai S, Nunnally M, Raman J: Argatroban anticoagulation in patients with ventricular assist devices. Anesth & Analg 2005; 100: S-120.
4. Pai S PRO: Dexmedetomidine Is a Useful Perioperative Adjunct in Patients Undergoing Cardiac Surgery Society for Cardiovascular Anesthesiologists newsletter 2003.

BOOKS

Case Files Anesthesiology (1st Edition): Editors Conlay, L., Pollock, J., Vann, M., Pai, S., Toy, E. New York, NY, McGraw Hill Publishers, October 2010.

BOOK CHAPTERS

5. Pai, S. AAA. Case Files Anesthesiology – 1st Edition. Edited by Conlay, L., Pollock, J., Vann, M., Pai, S., Toy, E. New York, NY, McGraw Hill Publishers, October 2010.
6. Pai, S. COPD. Case Files Anesthesiology – 1st Edition. Edited by Conlay, L., Pollock, J., Vann, M., Pai, S., Toy, E. New York, NY, McGraw Hill Publishers, October 2010.
7. Pai, S. Appendectomy in a pregnant patient. Case Files Anesthesiology – 1st Edition. Edited by Conlay, L., Pollock, J., Vann, M., Pai, S., Toy, E. New York, NY, McGraw Hill Publishers, October 2010.
8. Pai, S. Routine C-Section, Local anesthetic toxicity. Case Files Anesthesiology – 1st Edition. Edited by Conlay, L., Pollock, J., Vann, M., Pai, S., Toy, E. New York, NY, McGraw Hill Publishers, October 2010.

9. Pai, S.S., Luke, J. Ischemic Heart Disease in Anesthesia and Coexisting Diseases. Playford HR, Moitra VK, Meltzer J, Sladen RN, Editors. PocketMedicine.com,Inc., New York, NY, 2014.
10. Pai, S. Type I Diabetes in Anesthesia and Coexisting Diseases. Playford HR, Moitra VK, Meltzer, J, Sladen RN, Editors. PocketMedicine.com,Inc., New York, NY, 2014.
11. Pai, S. Type II Diabetes in Anesthesia and Coexisting Diseases. Playford HR, Moitra VK, Meltzer J, Sladen RN, Editors. PocketMedicine.com,Inc., New York, NY, 2014.
12. Pai, S. Atrial Fibrillation. Essence of Anesthesia Practice – 3rd Edition. Edited by L. Fleisher MD, M. Roizen MD; Elsevier Saunders, December 2010.
13. Pai, S. Transfusion-related Acute Lung Injury. Essence of Anesthesia Practice – 3rd Edition. Edited by L. Fleisher MD, M. Roizen MD; Elsevier Saunders, December 2010.
14. Pai, S. Ventricular Fibrillation. Essence of Anesthesia Practice – 3rd Edition. Edited by L. Fleisher MD, M. Roizen MD; Elsevier Saunders, . December 2010.
15. Pai, S., Wissam, C. Care of the Cardiac Surgery patient. Critical Care Study Guide 2nd edition, Edited by Criner GJ, Barnette RE, D’Alonzo GE. New York, Springer-Verlag, Inc. Publishers, July, 2010.
16. Pai, S., Schartel, S. Mechanical Assist Devices. Critical Care Study Guide 2nd edition, Edited by Criner GJ, Barnette RE, D’Alonzo GE. New York, Springer-Verlag, Inc. Publishers, July, 2010.

POSTERS & ABSTRACTS

17. Pai SS, Luke J. “My pregnant patient needs lung volume reduction surgery. What???” Society for Critical Care Anesthesiology, Chicago, IL 2011.
18. Gonzalez, M., Pai, SS. Orthotopic Liver Transplantation in Acute Fatty Liver of Pregnancy. Case Presentation. Medically Challenging Cases Post Graduate Assembly in Anesthesiology, New York, NY 2010.
19. Khoche, S., Pai, SS. Endocarditis with possible acute embolic coronary artery disease. Case Presentation. Medically Challenging Cases Post Graduate Assembly in Anesthesiology, New York, NY 2010.
20. Basch, E., Zalut, S., Pai, S. Resection of Large Liver Tumor in a Jehovah’s Witness. Medically Challenging Cases. American Society of Anesthesiologists Annual Meeting, San Diego, CA 2010.
21. Somerset, B, Pai, S. Idiosyncratic non hemolytic anaphylactic reaction to FFP. American Society of Anesthesiologists Annual Meeting, San Diego, CA 2010.
22. Basch, E., Zalut, S., Pai, S. Resection of Large Liver Tumor in a Jehovah’s Witness. PARRC 5th Annual Meeting. Philadelphia, PA 2010.
23. Somerset, B, Pai, S. Idiosyncratic non hemolytic anaphylactic reaction to FFP. PARRC 5th Annual Meeting, Philadelphia, PA 2010.
24. Khoche, S., Pai, S. Endocarditis with possible acute embolic coronary artery disease. PARRC 5th Annual Meeting, Philadelphia, PA 2010.

25. Atluri VDG, Pai SS, Huh J et al: Does Intraoperative TEE Measurement of the Aortic Annulus Correlate with the Size of the Implanted Aortic Prosthesis Post Graduate Assembly in Anesthesiology, New York, NY 2007.
26. Atluri VDG, Chu D, Pai, SS et al: Role of Histamine Antagonists and Steroids in Protamine Reaction in Cardiac Surgery Post Graduate Assembly in Anesthesiology, New York, NY 2007.
27. Pai SS, Tran G, Blaustein A et al: The Value of Cardiac Testing Prior to Non Cardiac Surgery: The Experience of a Newly Acquired Pre-Operative Evaluation Clinic. Cleveland Clinic 3rd Perioperative Medicine Summit, Cleveland, OH 2007.
28. Pai S, Atluri VDG, Shenaq SA: Guillian Barre Syndrome and the Cardiac Surgery patient: What is new in 2006. Post Graduate Assembly in Anesthesiology, New York, NY 2006.
29. Pai S, Rahbar M, Shenaq S: Fluoroscopy to aid in lumbar drain placement in a morbidly obese patient undergoing distal aortic arch endovascular stent placement. Post Graduate Assembly in Anesthesiology, New York, NY 2005.
30. Pai S, Lin PH, Bush RL, Lumsden AB, Shenaq S: Non Conventional Use of Adenosine to Facilitate Endovascular Stent Deployment in the Thoracic Aorta. Society of Cardiovascular Anesthesiologist 27th Annual Meeting & Workshop, Baltimore, Maryland, May 14-18 2005.
31. Pai S, Goldenberg FD, Frank JI, Novakovic R, Lee M, Rosen D, Macdonald RL, Rosengart AJ: Post – operative ventriculitis unmasked by cerebral salt wasting syndrome. Neurocritical Care Society Meeting San Diego, CA 2004.

NATIONAL PRESENTATIONS

32. Fluid Choices: Are all crystalloids equal? Fluid choices in resuscitation panel, Speaker, American Society of Anesthesiologists - Annual Meeting, New Orleans, LA 2014
33. Preoperative Optimization Panel, Lead Speaker Hemodynamic Optimization: Is it easy to achieve? American Society of Anesthesiologists- Annual Meeting, San Francisco, CA October 2013
34. Kidney and Liver Issues. Perioperative Co-morbidities Panel, Lead Speaker American Society of Anesthesiologists - Annual Meeting, San Francisco, CA October 2013
35. Applied Physiology in the ICU: The value of dynamic and static monitors Panel, Lead Speaker American Society of Anesthesiologists - Annual Meeting, Washington, DC October 2012.
36. Liver, Kidney and Endocrine Issues. Perioperative Co-morbidities Panel, Lead Speaker American Society of Anesthesiologists - Annual Meeting, Washington, DC October 2012.
37. Advanced Fiberoptic Workshop-Lung isolation techniques, Instructor. American Society of Anesthesiologists - Annual Meeting, New Orleans, LA 2014
38. Advanced Fiberoptic Workshop-Lung isolation techniques, Instructor. American Society of Anesthesiologists - Annual Meeting, San Francisco, CA 2013
39. Advanced Fiberoptic Workshop-Lung isolation techniques, Instructor. American Society of Anesthesiologists - Annual Meeting, Washington, DC 2012.

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40. Post operative and ICU Delirium: Can it be avoided? Con Argument, Pro-Con, American Society of Anesthesiologists - Annual Meeting, Chicago, IL October 2011.
 41. Acute Liver Failure: Perioperative Concerns. Organ Failure Panel, American Society of Anesthesiologists - Annual Meeting, Chicago, IL October 2011.
 42. This year in Critical care. Critical Care Panel, American Society of Anesthesiologists - Annual Meeting, Chicago, IL October 2011.
 43. Advanced Fiberoptic Workshop-Lung isolation techniques, Instructor. American Society of Anesthesiologists - Annual Meeting, Chicago, IL 2011.
 44. Advanced Fiberoptic Workshop-Lung isolation techniques, Instructor. American Society of Anesthesiologists - Annual Meeting, San Diego, CA 2010.
 45. Advanced Fiberoptic Workshop-Lung isolation techniques Instructor. American Society of Anesthesiologists - Annual Meeting, New Orleans, LA 2009.
 46. Advanced Fiberoptic Workshop-Lung isolation techniques Instructor. American Society of Anesthesiologists - Annual Meeting, Orlando, FL 2008.
 47. Advanced Fiberoptic Workshop-Lung isolation techniques Instructor. American Society of Anesthesiologists - Annual Meeting, San Francisco, CA 2007.
 48. Difficult airway workshop. Texas Anesthesia conference for Obstetrics, Instructor, Houston, TX 2006.
 49. Difficult airway workshop. Texas Anesthesia conference for Obstetrics, Instructor, Houston, TX 2005.
 50. Chronic and Perioperative Management of Congestive Heart Failure 17th Annual Challenges of Clinicians in the new Millennium, University of Chicago, Chicago, IL 2003.
 51. TEE workshop, Junior faculty 6th Annual Comprehensive Review & TEE Update, San Diego, CA 2003.

VISITING PROFESSORSHIPS & SPEAKING INVITATIONS

52. Intra-operative Echocardiography for Robotic Cardiac Surgery. Department of Cardiology, Temple University School of Medicine, Philadelphia, PA April 2012.
53. Post Operative Delirium: Can it be prevented? Department of Anesthesiology. Penn State Hershey medical center, Hershey, PA September 2011.
54. Perioperative hemodynamic concerns. Oral and Maxillo Facial Surgery Grand Rounds, Visiting Professor, Temple University School of Medicine, Philadelphia, PA May 2011.
55. Liver failure and perioperative concerns. Reading Medical Center, Reading, PA April 2011.
56. Critical Care Update. Albert Einstein Medical Center, Philadelphia, PA April 2009.

GRAND ROUNDS

57. Fluid Resuscitation: Are all crystalloids equal? Stanford University, Stanford, CA December 2014
58. Airway Management. Pulmonary Critical Care Conference, Temple University School of Medicine, Philadelphia, PA December 2009.
59. Airway Management. 2nd year Medical Student Conference. Temple University School of Medicine, Philadelphia, PA October 2010.
60. Cardiovascular Anesthesiology. 2nd year Medical Student Conference. Temple University School of Medicine, Philadelphia, PA November 2010.
61. Fentanyl for ICU sedation Presentation for Emergency Care Nurses, Michael E DeBakey VA Medical Center, Houston, TX 2006.
62. Basics of Echocardiography, Grand Rounds Baylor College of Medicine, Houston, TX 2006.
63. Hyponatremia and the Neurologist Neuro Critical Care Ground Rounds University of Chicago, Chicago, IL 2004.
64. Congestive Heart failure: Perioperative consideration Subspecialty Conference University of Chicago, Chicago, IL 2003.
65. Delirium in the Intensive Care Unit Subspecialty Conference University of Chicago, Chicago, IL 2003.
66. Cardiovascular Drugs: What? When? Where? Subspecialty Conference University of Chicago, Chicago, IL 2003.
67. Heparin – Induced Thrombocytopenia Multidisciplinary Conference University of Chicago, Chicago, IL 2003.
68. Heparin – Induced Thrombocytopenia Grand Rounds, Temple University School of Medicine, Philadelphia, PA 2002.
69. Systemic Sclerosis Grand Rounds Temple University School of Medicine, Philadelphia, PA 2000.

RESEARCH INTERESTS

- Minimally invasive cardiac surgery including robotic surgery
- Balanced Salt solutions in fluid resuscitation
- Endovascular aortic surgery
- Neurological complications in the cardiac surgery patient
- Using Somatic Oximetry During Percutaneous Arterial Cannulation
- Applied Physiology in the ICU
- Post Operative Delirium
- Ventricular Assist Devices
- Liver Failure
- Blood Conservation

