

Curriculum Vitae

September 9, 2023

A. Identifying Data

Name Sheela Pai Cole M.D., F.A.S.E., F.A.S.A.

B. Academic History

Colleges and Universities Attended:

1996 M.B.B.S., Grant Medical College, University of Mumbai, Mumbai India.

Residency and Fellowship Training:

1996-1998 Residency, Anesthesiology, King Edward Memorial Hospital, University of Mumbai, Mumbai, India.

1998-1999 Internship, Preliminary Surgery, Episcopal Hospital, Philadelphia, Pennsylvania.

1999-2002 Residency, Anesthesiology, Temple University School of Medicine, Philadelphia, Pennsylvania.

2002-2003 Fellowship, Cardiothoracic Anesthesiology, University of Chicago, Chicago, Illinois.

2003-2004 Fellowship, Critical Care Medicine, University of Chicago, Chicago, Illinois.

Board Certification:

2003, 2012 Anesthesiology, American Board of Anesthesiology.

2003, 2013 Perioperative Echocardiography, National Board of Echocardiography.

2004, 2016 Critical Care Medicine, American Board of Anesthesiology.

C. Employment

Academic Appointments:

9/2004-9/2007 Assistant Professor, Anesthesiology, Baylor College of Medicine, Houston, Texas.

- 10/2007-5/2012 Assistant Professor, Anesthesiology, Temple University School of Medicine, Philadelphia, Pennsylvania.
- 6/2012-3/2014 Associate Professor, Anesthesiology, Temple University School of Medicine, Philadelphia, Pennsylvania.
- 4/2014-3/2019 Clinical Associate Professor, Anesthesiology, Stanford University, Stanford, California.
- 4/2019- Clinical Professor, Anesthesiology, Stanford University, Stanford, California

Other Appointments:

- 10/2007-3/2014 Associate Program Director, Anesthesiology Residency, Anesthesiology, Temple University School of Medicine, Philadelphia, Pennsylvania.
- 10/2009-3/2014 Director, Fourth-Year Medical student Clerkship, Anesthesiology, Temple University School of Medicine, Philadelphia, Pennsylvania.
- 10/2016-10/2018 Vice Co-Chief of Education, Division of Cardiac Anesthesiology, Department of Anesthesiology, Pain and Perioperative Medicine, Stanford University, Stanford, California.
- 9/2018- Member, Committee on MD Admissions, Anesthesiology, Stanford, California
- 10/2019-10/2020 AMOC 3rd Vice Chair, Anesthesiology, American Society of Anesthesiologists
- 10/2019- Facilitator, PRIME for fellows, Anesthesiology, Stanford, California
- 1/2020- Facilitator, Advancing Communication excellence at Stanford (ACES), Anesthesiology, Stanford, California
- 6/2020- Board of Directors, Anesthesiology, Society of Critical Care Anesthesiology (SOCCA)
- 10/2020-10/2021 AMOC 2nd Vice Chair, Anesthesiology, American Society of Anesthesiologists
- 6/2021-6/2023 Co-Chair, Council on Perioperative Echocardiography (COPE), Anesthesiology, American Society of Echocardiography (ASE)
- 10/2021-10/2022 AMOC Vice Chair, Anesthesiology, American Society of Anesthesiologists
- 4/2022- Director of Grand Rounds Education, Department of Anesthesiology, Pain and Perioperative Medicine, Stanford
- 10/2022- AMOC Chair, Anesthesiology, American Society of Anesthesiologists
- 6/2023- Chair, Council on Perioperative Echocardiography (COPE), Anesthesiology, American Society of Echocardiography (ASE)

D. Teaching and Clinical Care

Clinical Teaching Responsibilities:

Anesthesiology, Perioperative,
and Pain Medicine

Sheela Pai Cole, MD, FASE, FASA
Clinical Professor

- 9/2004-9/2007 Anesthesiology Resident Supervision in operating room 3-5 days/week, Baylor College of Medicine, Houston, Texas.
- 9/2007-3/2014 Anesthesiology Resident Supervision in operating room 3-5 days/week, Temple University School of Medicine, Philadelphia, Pennsylvania.
- 4/2014- Cardiac Anesthesia Fellow and Anesthesiology resident supervision in operating room 7 days/month, Stanford, California.
- 4/2014- Critical Care Medicine Fellow supervision in intensive care unit 16 weeks/year, Stanford, California.
- 7/2016- Anesthesiology Intern supervision in intensive care unit 16 weeks/year, Stanford, California.

Other Teaching Experience:

- 2015-2015 Valve Disease. INDE 221 Human health and Disease 221, Medical students Y-1., 1 hour / week, Stanford, California.
- 2016-6/2022 Restoring Homeostasis. Cardiac Anesthesiology fellows conference, 1 hour / year, Stanford, California.
- 2017-6/2017 Board Review. Pulmonary Critical Care fellows Conference., 1 hour / year, Stanford, California.
- 2017-9/2017 Minimally Invasive cardiac surgery: Cardiac anesthesiology fellows conference, 1 hour / year, Stanford, California.
- 2017-9/2017 Shock and management. Pulmonary Critical Care fellows Conference., 1 hour / year, Stanford, California.
- 2017-9/2018 Tricuspid and Pulmonic Valve: Cardiac anesthesiology fellows conference., 1 hour / year, Stanford, California.
- 2017- Physician Burnout. Cardiac anesthesiology fellows conference., 1 hour / year, Stanford, California.
- 2018-6/2022 Hematologic system: CA-1 residents, 1 hour / year, Stanford, California
- 2018- Physician Burnout. Cardiac anesthesiology fellows conference., 1 hour / year, Stanford, California

Students / Trainees / Mentorship:

- 2008-2010 Meera N. Gonzalez, MD, Anesthesiology residency mentor, 12 hours / year supervision of abstracts 1 hour/month for 3 years.

- 2009-2011 Swapnil Khoche, MD, Anesthesiology residency mentor, 12 hours / year supervision of abstracts 1 hour/month for 3 years.
- 2011-2014 Kathleen Tyson, MD, Anesthesiology residency mentor, 12 hours / year supervision of abstracts 1 hour/month for 3 years.
- 2014-2015 Lindsay Raleigh, MD, Cardiac anesthesiology fellowship mentor, 12 hours / year supervision of abstract and problem-based learning discussion, career advice 1 hour/month for 1 year.
- 2015-2016 Santiago Rojas Paez, MD, Cardiac anesthesiology fellowship mentor, 12 hours / year abstract supervision and clinical supervision, career advice 1 hour/month for 1 year.
- 2016-2017 Alvin Garcia, MD, Cardiac anesthesiology fellowship mentor, 12 hours / year supervision of abstract; interpersonal relationship guidance, career advice 1 hour/month for 1 year.
- 2016-2020 Hannah Bechtold, MD, Anesthesiology residency mentor, career and fellowship advice, examination preparation., 12 hours / year 1 hour/month
- 2017-2018 Gregory Blair MD, Critical care fellowship mentor, supervision of Medscape chapter, supervision of virtual reality in ICU project, career advice, 52 hours / year 1 hour/week for 1 year.
- 2017-2018 Natalia Martinez-Acero, MD, Critical care fellowship mentor, 12 hours / year career advice, clinical and interpersonal guidance 1 hour/month for 1 year.
- 2017-2018 Ranjani Venkataramani, MD, Critical care fellowship mentor, 12 hours / year supervision of Medscape chapter, career advice 1 hour/month for 1 year.
- 2017-2018 Sameer Khan, MD, Cardiac anesthesiology fellowship mentor, 12 hours / year supervision of abstract, Medscape chapter review, career advice 1 hour/month for 1 year.
- 2017-2020 Angela Ji, MD, Anesthesiology residency mentor, career and fellowship advice, examination preparation., 12 hours / year 1 hour/month
- 2018-2019 Anne-Marie Madden, MD, Cardiac anesthesiology fellowship mentor, supervision of abstract, career advice, 12 hours / year 1 hour/month for 1 year.
- 2018-2019 Melissa Vogelsong MD, Critical care fellowship mentor, career advice, 12 hours / year 1 hour/month for 1 year.
- 2018-6/2020 William Shirer, MD, Anesthesiology residency mentor, behavioral advice, career and fellowship advice, examination preparation., 48 hours / year 4 hour/month (ongoing).
- 2019-2020 Robert Arrigo MD, Cardiac anesthesiology fellowship mentor. Career advice, 12 hours / year 1 hour/month for 1 year.

- 2020-7/2021 Miguel Teixeira MD, Critical Care fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year.
- 2020-7/2021 Robert Arrigo MD, Critical Care fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year.
- 2020- Hannah Bechtold, MD, Vanderbilt CCM fellow mentor, career and fellowship advice, examination preparation., 12 hours / year 1 hour/month
- 2020- Jai Madhok MD, Cardiac Anesthesiology fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year.
- 7/2021-6/2022 Jonathan Weimer, MD, Cardiac Anesthesiology fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year
- 7/2021-7/2022 Abid Fazal, MD, Critical Care fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year
- 6/2023- Jose Chavez Duarte, Cardiac Anesthesiology fellowship mentor. Career advice, 12 hours / year 1hour/month for 1 year

Clinical Responsibilities and Appointments:

- 2004-2007 Assitant Professor of Anesthesiology, Michael E. DeBakey Veterans Administration Medical Center, Houston, Texas.
- 2007-2014 Associate Professor of Anesthesiology, Temple University Hospital, Philadelphia, Pennsylvania.
- 2014-2019 Clinical Associate Professor of Anesthesiology, Stanford University, Stanford, California.
- 2019- Clinical Professor of Anesthesiology, Stanford University, Stanford, California.

Hospital and Health Care Organization Service Responsibilities:

- 2005-2006 Instructor, ACLS.
- 2005-2006 Member, CPR Committee, Michael E. DeBakey VAMC.
- 2005-2007 Director, Preoperative Clinic, Michael E. DeBakey VAMC.
- 2006-2007 Member, Critical Care committee, Michael E. DeBakey VAMC.
- 2007-2012 Chair, Transfusion Committee, Temple University Hospital.
- 2011-2014 Member, Central Line Taskforce, Temple University Hospital.

Major Administrative Responsibilities or Committee Assignments:

- 2005-2006 Member, Residency curriculum oversight committee, Baylor College of Medicine, Houston, Texas.
- 2006-2007 Member, Institutional Review Board, Baylor College of Medicine, Houston, Texas.
- 2011-2014 Director, Robotic Cardiac Surgery, Anesthesia Portion, Temple University Hospital.
- 2012-2014 Abstract Reviewer, Society of Critical Care Medicine
- 2012-2016 Member, Educational Track on Critical care subcommittee, American Society of Anesthesiologists
- 2013-2016 Member, Newsletter Committee, Society of Cardiovascular Anesthesiologists
- 2015-2018 Member, Council on Bylaws Committee, American Society of Echocardiology
- 2016-2017 Member, Educational Committee, Society of Critical Care Anesthesiologists
- 2016-2017 Vice Chair, Educational Track on Critical care subcommittee, American Society of Anesthesiologists
- 2017-2018 Vice Chair, Educational Committee, Society of Critical Care Anesthesiologists
- 2017-2019 Chair, Educational Track on Critical Care Subcommittee, American Society of Anesthesiologists
- 2017-2019 Member, Structural Heart Team, American Society of Echocardiography
- 2017-2019 Vice Chair, Newsletter Committee, Society of Cardiovascular Anesthesiologists
- 2017- Trainee Wellness Facilitator, Cardiac and Critical Care fellowships, Department of Anesthesiology, pain and perioperative medicine, Stanford University, Stanford, California.
- 2018-2019 Chair, Educational Committee, Annual meeting chair, Society of Critical Care Anesthesiologists.
- 2018-2019 Editorial Consultant, Annual Meeting Syllabus, Echo Week, Society of Cardiovascular Anesthesiologists
- 2018-2019 Member, Committee on guidelines and standards, American Society of Echocardiography
- 2018-2019 Member, Council on Perioperative Echocardiography (COPE), American Society of Echocardiography
- 2019-2020 Chair, Point of Care Ultrasound Track, American Society of Echocardiography
- 2019-6/2021 Chair, Education Committee, Society of Critical Care Anesthesiologists.

- 2019-6/2023 Member, Echo Week Program committee, Society of Cardiac Anesthesiologists
- 2019- Director, Fellow Wellness Department of Anesthesiology, pain and perioperative medicine, Stanford University, Stanford, California
- 2019- Facilitator, Advancing Communication Excellence at Stanford via Academy of Communication in Healthcare, Stanford University, Stanford, California
- 2020- Member, Medical School Admissions, Stanford University
- 6/2021 Co-chair, Council on Perioperative Echocardiography, American Society of Echocardiography
- 4/2022- Director of Grand Rounds education, Stanford, Department of Anesthesiology, Pain and Perioperative Medicine
- 7/2023- Chair, Council on Perioperative Echocardiography, American Society of Echocardiography

E. Public and Professional Service

Professional Societies:

- 2012-2014 Abstract Reviewer, Society of Critical Care Medicine.
- 2012-2016 Member, Educational Track on Critical care subcommittee, American Society of Anesthesiologists.
- 2013-2016 Member, Newsletter Committee, Society of Cardiovascular Anesthesiologists.
- 2015-2018 Member, Council on Bylaws Committee, American Society of Echocardiography.
- 2016-2017 Member, Educational Committee, Society of Critical Care Anesthesiologists.
- 2016-2017 Vice Chair, Educational Track on Critical care subcommittee, American Society of Anesthesiologists.
- 2017-2018 Vice Chair, Educational Committee, Society of Critical Care Anesthesiologists.
- 2017-2019 Chair, Educational Track on Critical Care Subcommittee, American Society of Anesthesiologists.
- 2017-2019 Member, Structural Heart Team, American Society of Echocardiography.
- 2017-2019 Vice Chair, Newsletter Committee, Society of Cardiovascular Anesthesiologists.
- 2018-2019 Chair, Educational Committee, Society of Critical Care Anesthesiologists.

- 2018-2019 Member, Committee on guidelines and standards, American Society of Echocardiography.
- 2018-2019 Member, Council on Perioperative Echocardiography (COPE), American Society of Echocardiography.
- 2018- Editorial Consultant, Annual Meeting Syllabus, Echo Week, Society of Cardiovascular Anesthesiologists.
- 2019- Chair, Society of Critical Care Anesthesiologists Education Committee
- 2019- Member, Society Cardiac Anesthesiologists Echo Week Program committee
- 2020- Member, CCEE writing committee, National Board of Echocardiography.
- 2020- Member, Committee on MD admissions, Stanford University.

Ad Hoc Reviewer:

- 2017- Anesthesia and Analgesia
- 2017- CASE: Cardiovascular Imaging Case Reports

Editorial Positions:

- 2015- Editorial Consultant, Journal of clinical anesthesia and management
- 2016- Chief Editor, Medscape Critical Events in Anesthesiology series
- 2020- Assistant Editor, Anesthesia and Analgesia

F. Post-Degree Honors and Awards

- 2005, 2006 Special Contribution Award, Michael E. DeBakey Medical Center, Houston, Texas.
- 2018 Fellow of the American Society of Echocardiography, American Society of Echocardiography.
- 2020 Fellow of the American Society of Anesthesiologists, American Society of Anesthesiologists.
- 6/2022-6/2023 Kaplan Professional Development Award, Society of Cardiovascular Anesthesiologists

G. Bibliography

Peer-Reviewed Articles: (20 total)

1. O'Connor MF, **Pai S**, Nunnally M, Raman J: Argatroban anticoagulation in patients with ventricular assist devices. *Anesth & Analg* 2005; 100: S-120.
2. Ellis JE, **Pai SS**. Pro: vascular stents in the radiology suite-an anesthesiologist is needed. *J Cardiothorac Vasc Anesth*. 2005 Dec;19(6):801-804. PMID: 16326311
3. Tobochnik SD, Guy TS, **Pai SS**, Jacobson MP, Gutierrez CA. EEG asymmetry during aortic arch surgeries associated with selective preferential cerebral hypothermia. *J Clin Neurophysiol*. 2014 Jun;31(3):232-235. PMID: 24887606, <https://doi.org/10.1097/WNP.0000000000000062>
4. Shiose A, Desai P, Criner GJ, **Pai S**, Steiner RM, Kaiser LR, Guy TS, Toyoda Y. One-and-a-half ventricular repair for isolated right ventricle metastatic tumor resection after lobectomy for lung cancer. *Innovations (Phila)*. 2014 Jul-Aug;9(4):330-333. PMID: 25062102, <https://doi.org/10.1097/IMI.0000000000000077>
5. **Cole SP**, Gross ER. Happy 53rd Birthday GIK: Insulin, Cake, and Presents. *Anesthesiology*. 2015 Aug;123(2):249-250. PMID: 26200177, PMCID: PMC4521402, <https://doi.org/10.1097/ALN.0000000000000724>
6. **Cole SP**. Intensive Care Management of Thoracic Aortic Surgical Patients, Including Thoracic and Infradiaphragmatic Endovascular Repair (EVAR/TEVAR). *Semin Cardiothorac Vasc Anesth*. 2015 Dec;19(4):331-341. PMID: 26660057, <https://doi.org/10.1177/1089253215613791>
7. Farooqui F, Chaney MA, Staikou C, **Cole SP**. CASE 10-2016: Hemoglobinopathies and Cardiac Surgery. *J Cardiothorac Vasc Anesth*. 2016 Oct;30(5):1409-1418. PMID: 27640894, <https://doi.org/10.1053/j.jvca.2016.03.156>
8. Raleigh L, **Pai Cole S**: Con: Prothrombin Complex Concentrates are superior to FFP in cardiac surgery *J Cardiothoracic and Vascular Anesthesia* 2018;32(2)1068-1071 <http://dx.doi.org/10.1053/j.jvca.2017.05.005>
9. **Cole SP**. Stratification and Risk Reduction of Perioperative Acute Kidney Injury: An Update. *Anesthesiol Clin*. 2018 Dec;36(4):539-551. PMID: 30390777, [https://doi.org/S1932-2275\(18\)30072-7](https://doi.org/S1932-2275(18)30072-7)
10. **Cole, S. P.** Cardiac Anesthesia: A Problem-Based Learning Approach. 186–194 (2019) doi:10.1093/med/9780190884512.003.0020
11. **Cole, S. P.** & Cheung, A. T. Coronary and Cardiothoracic Critical Care. 281–321 (2019) doi:10.4018/978-1-5225-8185-7.ch015
12. **Pai Cole S**. Burnout Prevention and Resilience Training for Critical Care Trainees. *Int Anesthesiol Clin*. 2019;57(2):118-131. PMID: 30864995, <https://doi.org/10.1097/AIA.0000000000000230>
13. Bhatt H, **Cole SP**. Perioperative Echocardiography in a Multi-Disciplinary Care Team. *J Am Soc Echocardiogr*. 2019 Feb;32(2):A23-A24. PMID: 30717863, [https://doi.org/S0894-7317\(18\)30735-1](https://doi.org/S0894-7317(18)30735-1)

14. Blair GJ, Kapil S, **Cole SP**, Rodriguez S. Virtual reality use in adult ICU to mitigate anxiety for a patient on V-V ECMO. *J Clin Anesth.* 2019 Aug;55:26-27. PMID: 30590187, [https://doi.org/S0952-8180\(18\)31465-X](https://doi.org/S0952-8180(18)31465-X)
15. Guenthart BA, Krishnan A, Alassar A, Madhok J, Kakol M, Miller S, **Cole SP**, Rao VK, Acero NM, Hill CC, Cheung C, Jackson EC, Feinstein I, Tsai AH, Mooney JJ, Pham T, Elliott IA, Liou DZ, La Francesca S, Shudo Y, Hiesinger W, MacArthur JW, Brar N, Berry GJ, McCarra MB, Desai TJ, Dhillon GS, Woo YJ. First lung and kidney multi-organ transplant following COVID-19 Infection. *J Heart Lung Transplant.* 2021 Aug;40(8):856-859. PMID: 34059432, PMCID: PMC8088330, [https://doi.org/S1053-2498\(21\)02200-2](https://doi.org/S1053-2498(21)02200-2)
16. **Cole SP**, Siddiqui S. Well-being in the Intensive Care Unit: Looking Beyond COVID-19. *Anesthesiol Clin.* 2022 Jun;40(2):373-382. PMID: 35659408, PMCID: PMC8802563, [https://doi.org/S1932-2275\(22\)00010-6](https://doi.org/S1932-2275(22)00010-6)
17. **Cole SP**, Martinez-Acero N, Peterson A, Von Homeyer P, Gebhardt B, Nicoara A. Imaging for Temporary Mechanical Circulatory Support Devices. *J Cardiothorac Vasc Anesth.* 2022 Jul;36(7):2114-2131. PMID: 34740543, [https://doi.org/S1053-0770\(21\)00846-6](https://doi.org/S1053-0770(21)00846-6)
18. *Update on ASE guidelines for multimodality imaging in mechanical circulatory support*
Invited
19. *History of Cardiovascular Critical Care*
Invited
20. Pearl RG, **Cole SP**. Development of the Modern Cardiothoracic Intensive Care Unit and Current Management. *Crit Care Clin.* 2023 Jul;39(3):559-576. PMID: 37230556, <https://doi.org/10.1016/j.ccc.2023.03.008>

Non-Peer-Reviewed Articles: (5 total)

1. **Pai S** PRO: Dexmedetomidine Is a Useful Perioperative Adjunct in Patients Undergoing Cardiac Surgery Society for Cardiovascular Anesthesiologists newsletter 2003.
2. **Pai Cole S**. Ventricular Assist Devices and Non-cardiac surgery in 2015. American Society of Anesthesiologists Newsletter. September 2015 (79) 9: 22-25.
3. **Pai Cole S**, Raleigh L: Ventricular Assist Devices and Non-Cardiac surgery in 2016: Practice Update. Society for Perioperative Assessment and Quality Improvement Newsletter Summer 2016.
4. Bhatt H, **Pai Cole S**: Perioperative echocardiography in a multidisciplinary team. Journal of Society of American Society of Echocardiography. December 2018
5. Khanna AK, **Pai Cole S**: Promoting wellness during transition from fellowship to first job. Critical care Connections February 2018.

Book Chapters: (20 total)Anesthesiology, Perioperative,
and Pain MedicineSheela Pai Cole, MD, FASE, FASA
Clinical Professor

1. **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.
2. **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.
3. **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.
4. **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.
5. **Pai S**: Atrial Fibrillation. Essence of Anesthesia Practice – 3rd Edition. Edited by L. Fleisher MD, M. Roizen MD; Elsevier Saunders, December 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**: 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.
8. **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.
9. **Pai S**: Ventricular Fibrillation. Essence of Anesthesia Practice – 3rd Edition. Edited by L. Fleisher MD, M. Roizen MD; Elsevier Saunders. December 2010.
10. **Pai SS**, 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.
11. **Pai SS**: Type I Diabetes in Anesthesia and Coexisting Diseases. Playford HR, Moitra VK, Meltzer J, Sladen RN, Editors. PocketMedicine.com, Inc., New York, NY, 2014.
12. **Pai SS**: Type II Diabetes in Anesthesia and Coexisting Diseases. Playford HR, Moitra VK, Meltzer J, Sladen RN, Editors. PocketMedicine.com, Inc., New York, NY, 2014.
13. **Pai Cole S**, Cheung AT: Neurological Complications in the Cardiothoracic: ICU Modern Concepts and Practices in Cardiovascular Critical Care Evans et al IGI publishing, New York, NY 2015.
14. **Pai Cole S**: Atrial Fibrillation. Essence of Anesthesia Practice – 4th Edition. Fleisher L, Roizen M, Roizen J Editors. Elsevier Saunders. Amsterdam, Netherlands 2017.
15. **Pai Cole S**: Robotic Cardiac Surgery. Minimally Invasive Cardiac Surgery: Role of the cardiac Team. 1st edition. Everything you wanted to know. Out of the Operating room and

minimally invasive cardiothoracic procedures. Banks D, Zaky A editor. Nova Publishing. New York, NY 2017.

16. **Pai Cole S:** Ventricular Fibrillation. Essence of Anesthesia Practice – 4th Edition. Fleisher L, Roizen M, Roizen J Editors. Elsevier Saunders. Amsterdam, Netherlands 2017.
17. Safi T, **Pai Cole S:** Transfusion-related Acute Lung Injury. Essence of Anesthesia Practice – 4th Edition. Fleisher L, Roizen M, Roizen J Editors. Elsevier Saunders. Amsterdam, Netherlands 2017.
18. **Pai Cole S:** Percutaneous Mitral Valve Procedures: Problem-Based Learning Discussion (PBLD) textbook on cardiothoracic procedures. Oxford Publishing.
19. **Pai Cole S:** *Right Ventricle, Tricuspid valve and Pericardiectomy: Manual of Clinical Anesthesia 2nd edition.* Hill C editor. Lippincott Publishing. In review.
20. **Pai Cole S:** *Diastology. Cardiac Anesthesia and Transesophageal echocardiography.* In review.

Books: (2 total)

1. Case Files Anesthesiology (1st Edition): Editors Conlay L, Pollock J, Vann M, **Pai S**, Toy E New York, NY, McGraw Hill Publishers, October 2010.
2. Critical Events in Anesthesiology: Medscape Diseases and Drugs: **Pai Cole**, S Chief Editor. 2017.

Papers and Posters Presented at Meetings: (19 total)

1. **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.
2. **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.
3. **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.
4. **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.
5. **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.

6. 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.
7. 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.
8. 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.
9. Basch E, Zalut S, **Pai S**. Resection of Large Liver Tumor in a Jehovah's Witness. PARRC 5th Annual Meeting. Philadelphia, PA 2010.
10. 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.
11. Khoche S, **Pai S**. Endocarditis with possible acute embolic coronary artery disease. PARRC 5th Annual Meeting, Philadelphia, PA 2010.
12. 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.
13. Somerset B, **Pai S**. Idiosyncratic non-hemolytic anaphylactic reaction to FFP. American Society of Anesthesiologists Annual Meeting, San Diego, CA 2010.
14. Somerset B, **Pai S**. Idiosyncratic non-hemolytic anaphylactic reaction to FFP. PARRC 5th Annual Meeting, Philadelphia, PA 2010.
15. **Pai SS**, Luke J. "My pregnant patient needs lung volume reduction surgery. What??" Society for Critical Care Anesthesiology, Chicago, IL 2011.
16. Press C, Greene C, Boyd J, Sorial I, Garcia-Toca, M, **Pai Cole S**. Successful Transcarotid approach for endovascular stent placement to treat a high-risk Stanford Type A Dissection. Society for Cardiac Anesthesiologists, San Diego, CA 2016.
17. Garcia A, Creighton D, Singh V, **Pai Cole S**. Ultrasound guided stellate ganglion block for the treatment of refractory ventricular tachycardia in a patient undergoing Venovenous extracorporeal oxygenation. Society for Cardiac Anesthesiologists, Orlando, FL 2017.
18. Tsai AH, **Pai Cole S**. Intraoperative Diagnosis of a Rare Sinus of Valsalva Pseudoaneurysm In a Patient with Bicuspid Aortic Valve Associated Aortopathy. Society for Cardiac Anesthesiologists, Orlando, FL 2017.
19. Madden A, **Pai Cole S**. Thoracic Aorta Saccular Aneurysms caused by Group A Streptococcus (GAS). Society of Cardiac Anesthesiologists, Chicago, IL 2019

Digital Publications: (1 total)

Anesthesiology, Perioperative,
and Pain Medicine

Sheela Pai Cole, MD, FASE, FASA
Clinical Professor

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/and/36/Default.aspx>

H. Invited Presentations (86 presentations)

National presentations: (77 presentations)

- | | |
|---------------|---|
| 6/2000-6/2000 | Systemic Sclerosis Grand Rounds
Temple University School of Medicine, Philadelphia, Pennsylvania. |
| 2002 | Heparin – Induced Thrombocytopenia Grand Rounds
Temple University School of Medicine, Philadelphia, Pennsylvania. |
| 2003 | Cardiovascular Drugs: What? When? Where? Subspecialty
Conference
University of Chicago, Chicago, Illinois. |
| 2003 | Chronic and Perioperative Management of Congestive Heart Failure
17 th Annual Challenges of Clinicians in the new Millennium.
Chicago, Illinois. |
| 2003 | Congestive Heart failure: Perioperative consideration Subspecialty
Conference
University of Chicago, Chicago, Illinois. |
| 2003 | Delirium in the Intensive Care Unit Subspecialty Conference
University of Chicago, Chicago, Illinois. |
| 2003 | Heparin – Induced Thrombocytopenia Multidisciplinary Conference
University of Chicago, Chicago, Illinois. |
| 2003 | TEE workshop, junior faculty 6 th Annual Comprehensive Review &
TEE Update, Society of Cardiovascular Anesthesiologists.
San Diego, California. |
| 2004 | Hyponatremia and the Neurologist Neuro Critical Care Ground
Rounds
University of Chicago, Chicago, Illinois. |
| 2005, 2006 | Difficult airway workshop. Texas Anesthesia conference for
Obstetrics, Instructor
Houston, Texas. |
| 2006 | Basics of Echocardiography, Grand Rounds.
Baylor College of Medicine, Houston, Texas. |

- 2006 Fentanyl for ICU sedation. Presentation for Emergency Care Nurses
Michael E. DeBakey Veterans Affairs Medical Center, Houston,
Texas.
- 2007-10/2016 Advanced Fiberoptic Workshop-Lung isolation techniques Instructor.
American Society of Anesthesiologists – Anesthesiology 2007
San Francisco, California.
- 2009 Airway Management. Pulmonary Critical Care Conference
Temple University School of Medicine, Philadelphia, Pennsylvania.
- 2009 Critical Care Update. Grand Rounds, Department of Anesthesiology,
Albert Einstein Medical Center
Philadelphia, Pennsylvania.
- 2010 Airway Management. 2nd year Medical Student Conference.
Temple University School of Medicine, Philadelphia, Pennsylvania.
- 2010 Cardiovascular Anesthesiology. 2nd year Medical Student Conference.
Temple University School of Medicine, Philadelphia, Pennsylvania.
- 2011 Acute Liver Failure: Perioperative Concerns. Organ Failure Panel,
American Society of Anesthesiologists - Anesthesiology 2011
Chicago, Illinois.
- 2011 Liver failure and perioperative concerns.
Reading Medical Center, Reading, Pennsylvania.
- 2011 Perioperative hemodynamic concerns. Oral and Maxillo-Facial
Surgery Grand Rounds
Temple University School of Medicine, Philadelphia, Pennsylvania.
- 2011 Post-Operative Delirium: Can it be prevented? Department of
Anesthesiology. Penn State Hershey medical center
Hershey, Pennsylvania.
- 2011 Post-operative and ICU Delirium: Can it be avoided? Con Argument,
Pro-Con, American Society of Anesthesiologists – Anesthesiology
2011
Chicago, Illinois.
- 2011 This year in Critical care. Critical Care Panel, American Society of
Anesthesiologists - Anesthesiology 2011
Chicago, Illinois.
- 2012 Applied Physiology in the ICU: The value of dynamic and static
monitors Panel, Lead Speaker American Society of Anesthesiologists
- Anesthesiology 2012
Washington, District of Columbia.

- 2012 Intra-operative Echocardiography for Robotic Cardiac Surgery.
Department of Cardiology, Temple University School of Medicine,
Philadelphia, Pennsylvania
- 2013 Kidney and Liver Issues. Perioperative Co-morbidities Panel, Lead
Speaker American Society of Anesthesiologists - Anesthesiology
2013
San Francisco, California.
- 2013 Preoperative Optimization Panel, Lead Speaker Hemodynamic
Optimization: Is it easy to achieve? American Society of
Anesthesiologists- Anesthesiology 2013
San Francisco, California.
- 2014 Fluid Choices: Are all crystalloids equal? Fluid choices in
resuscitation panel, Speaker, American Society of Anesthesiologists -
Anesthesiology 2014
New Orleans, Louisiana.
- 2014 Fluid Resuscitation: Are all crystalloids equal? Grand Rounds.
Stanford University, Stanford, California
- 2014, 2015 Minimally Invasive cardiac surgery: Cardiac anesthesiology fellows
conference
Stanford, California.
- 2015 Cardiac and tomographic anatomy. INDE 221 Human health and
Disease 221, Medical students Y-1.
Stanford, California
- 2015 Echocardiography for Minimally Invasive Cardiac Surgery-
Advanced Echo Workshop. Speaker, American Society of
Anesthesiologists- Anesthesiology 2015
San Diego, California.
- 2015 Peculiarities of Cardiac Anesthesia: Hemodynamics and Beyond 1st
Anesthesia technologist conference
Stanford, California.
- 2015 Perioperative Hemodynamic Optimization. Moderator and Speaker,
American Society of Anesthesiologists- Anesthesiology 2015
San Diego, California.
- 2015 Restoring Homeostasis: Confronting Postoperative Complications.
Moderator and Speaker, American Society of Anesthesiologists-
Anesthesiology 2015
San Diego, California.
- 2016 Fluids in Cardiac Surgery: 34th Annual international symposium:
Clinical Update in Anesthesiology, Surgery and Perioperative

Medicine
San Juan, Puerto Rico.

- 2016 Management Strategies for Optimization: Devices Versus Drugs. Moderator/Speaker American Society of Anesthesiologists Anesthesiology 2016 Chicago, Illinois.
- 2016 Measuring Myocardial hypertrophy: Echocardiography for Hypertrophic Cardiomyopathy Panel Speaker American Society Echocardiography Annual Meeting. Seattle, Washington.
- 2016 VADs and Non-Cardiac Surgery: Problem Based Learning Discussion. Society of Cardiac Anesthesiologists. Annual Meeting San Diego, California.
- 2017 Critical Care Education Update: Moderator. Society of Critical Care Anesthesiologists Annual Meeting. Washington, District of Columbia.
- 2017 LV function: Regional Wall motion abnormalities. 20th Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.
- 2017 LV systolic function: Visual inspection Vs. Quantification. 20th Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.
- 2017 Moderate mitral regurgitation. Problem Based Learning Discussion. 20th Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.
- 2/2017-2/2017 Basics of 3D Echocardiography 25th Annual Echo Week. Society of Cardiac Anesthesiologists. Virtual Meeting
- 2018 Anatomical lesion-based approach: Mitral valve symposium. 21st Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.
- 2018 LV systolic function: Global Systology. 21st Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.
- 2018 Moderate tricuspid regurgitation. Problem Based Learning Discussion. 21st Annual Echo Week. Society of Cardiac Anesthesiologists. Atlanta, Georgia.

- 2018 Physician Wellness Seminar: American Society of Anesthesiologists –
Anesthesiology 2018
San Francisco, California.
- 2019 Aortic Regurgitation. 22nd Annual Echo Week. Society of Cardiac
anesthesiologists.
Atlanta, Georgia
- 2019 Echocardiography in durable ventricular assist devices. Annual
Meeting. American Society of Echocardiography
Portland, OR
- 2019 Importance of social media. Annual Meeting, Society of Critical care
anesthesiologists
Montreal, CA
- 2019 LV Global Systolic function. 22nd Annual Echo Week. Society of
Cardiac anesthesiologists.
Atlanta, Georgia
- 2019 Mechanical circulatory support. A refresher course lecture Annual
Meeting American Society of Anesthesiologists
Orlando, FL
- 2020 Aortic Regurgitation. 23rd Annual Echo Week. Society of Cardiac
anesthesiologists.
Atlanta, Georgia
- 2020 Basics of 3D Echocardiography. 23rd Annual Echo Week. Society of
Cardiac Anesthesiologists.
Atlanta, GA
- 2020 Mechanical circulatory support. A refresher course lecture Annual
Meeting American Society of Anesthesiologists
Virtual Meeting.
- 2/2021 Imaging for Temporary Mechanical Circulatory Support. 24th Annual
Echo Week. Society of Cardiac Anesthesiologists.
Virtual Meeting
- 3/2021 Communication in Healthcare – is it time to retrain? Department of
Anesthesiology. University of Chicago
Chicago, Illinois.
- 3/2021 Mechanical Circulatory Support and non-cardiac surgery. Department
of Anesthesiology, Temple University
Philadelphia, Pennsylvania.
- 3/2021 Mechanical circulatory support and non-cardiac surgery. Grand
Rounds.
Temple University, Philadelphia, Pennsylvania

- 4/2021 Leadership in Societies. Annual Meeting. Society of Critical Care Anesthesiologists.
Virtual Meeting
- 4/2021 Neurological outcomes and cardiopulmonary bypass. Panelist. 43rd Annual Meeting. Society of Cardiovascular Anesthesiologists.
Virtual Meeting
- 5/2021 Aortic Regurgitation. 24th Annual Echo Week. Society of Cardiac anesthesiologists.
Virtual Meeting.
- 5/2021 Basics of 3D Echocardiography. 24th Annual Echo Week. Society of Cardiac Anesthesiologists.
Virtual Meeting
- 5/2021 Mechanical Circulatory Support – Case based imaging. European Association of Cardiac Anaesthesia and Intensive Care (EACTAIC).
Annual meeting.
Virtual Meeting.
- 6/2021 POCUS for MCS. Annual Meeting. American Society of Echocardiography
Virtual meeting.
- 6/2021 POCUS workshop facilitator. 43rd Annual Meeting. Society of Cardiovascular Anesthesiologists.
Virtual Meeting
- 6/2021 VA ECMO – Road to transplantation. Annual Meeting. American Society of Echocardiography
Virtual meeting.
- 9/2021 Professional fulfillment. Cardiac anesthesiology fellows conference. Stanford, California
- 2/2022 Echo and Temporary Mechanical Assist Devices. 25th Annual Echo Week. Society of Cardiac Anesthesiologists.
Virtual Meeting
- 2/2022 Impella for LV failure: Annual Meeting of the Society of Critical Care Medicine.
Virtual Meeting
- 5/2022 Optimal Anticoagulation on ECMO: 2022 Annual Meeting of the Society of Cardiovascular Anesthesiologists
Palm Springs, CA
- 2/2023 SCA Echo Week: Panelist for difficult case discussion
Atlanta, GA

- 2/2023 SCA Echo Week: when is 3D better than 2D
Atlanta, GA
- 5/2023 Scaling the mountain of leadership: Musings of a Kaplan Award
Winner
Portland, OR

International presentations: (9 presentations)

- 2016 Tissue Doppler, Strain and Speckle Tracking in Transesophageal
echocardiography. 1st International and 10th National
Transoesophageal Echocardiography Workshop.
Bangalore, India.
- 2016 VADs and the anesthesiologist: IACTACON 2016 19th Indian
Association Cardiovascular Thoracic Anaesthesiologist Conference
Chennai, India.
- 2016-11/2016 New Advances in Ventricular Assist Devices: IACTACON 2016 19th
Indian Association Cardiovascular Thoracic Anaesthesiologist
Conference
Chennai, India.
- 2017 Cardiac Devices and the Anesthesiologist. 35th Annual international
update in anesthesia, surgery and perioperative medicine.
Cancun, Mexico.
- 2017 Sequential application and monitoring of mechanical support in the
failing heart. 20th Indian Association of Cardiovascular and Thoracic
Anesthesiologists. Annual Meeting
Pune India.
- 2017 Tricuspid and Pulmonic Valve 2nd International and 11th National
Transoesophageal Echocardiography Workshop.
Bangalore, India
- 2018 Echocardiography in the ICU: 3rd International and 12th National
Transoesophageal Echocardiography Workshop.
Bangalore, India.
- 6/2022 Perioperative assessment of the high-risk patient: Annual Meeting of
the European Society of Anesthesia and Intensive Care
Milan, Italy
- 6/2023 Delirium and Pain in the ICU
Glasgow Scotland