

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

P. Patel
1/26/19

Date: 01/26/2019

Prakash A. Patel, MD, FASE

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If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

2001	B.S.	University of Florida, Gainesville, FL (Chemistry Major / Art History Minor; Dec. 2001)
2006	M.D.	Jefferson Medical College, Philadelphia, PA (Doctor of Medicine)

Postgraduate Training and Fellowship Appointments:

2006-2007	Intern, Medicine, Albert Einstein Medical Center, Philadelphia, PA
2007-2010	Resident, Anesthesiology, Hospital of the University of Pennsylvania, Philadelphia, PA
2010-2011	Fellow, Cardiothoracic Anesthesiology, Hospital of the University of Pennsylvania, Philadelphia, PA
2011-2012	Certificate in Patient Oriented Research Training, Institute for Translational Medicine and Therapeutics, University of Pennsylvania

Faculty Appointments:

2011-2012	Instructor, Department of Anesthesiology and Critical Care, University of Pennsylvania School of Medicine
2012-present	Assistant Professor of Anesthesiology and Critical Care at the Hospital of the University of Pennsylvania, University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2011-present	Staff Anesthesiologist, Hospital of the University of Pennsylvania, Philadelphia, PA
2011-present	Staff Anesthesiologist, Penn Presbyterian Medical Center, Philadelphia, PA
2017-present	Anesthesia Director for Transcatheter Procedures, Hospital of the University of Pennsylvania, Philadelphia, PA

Specialty Certification:

2011	American Board of Anesthesiology
2011	National Board of Echocardiography

Licensure:

2010	Pennsylvania State Board of Medicine
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Awards, Honors and Membership in Honorary Societies:

2000	Phi Beta Kappa
2001	Phi Kappa Phi
2005	Alpha Omega Alpha
2006	William T. & Madeline Lemmon Memorial Prize in Anesthesiology, Outstanding Work in Anesthesiology as Medical Student
2011	Joel A. Kaplan Award, Cardiac Anesthesiology Fellow of the Year
2015-2016	Ombudsman for Department of Anesthesiology and Critical Care, Univ of PA
2016	Society for the Advancement of Blood Management Service Award, Committee Co-Chair
2017	Society for the Advancement of Blood Management Service Award, Committee Co-Chair
2017	Associate Member of the Association of University Anesthesiologists (AUA)
2017	Fellow of the American Society of Echocardiography (FASE)

Memberships in Professional and Scientific Societies and Other Professional Activities:International:

2008-2010	Faculty of 1000 Medicine (Associate Faculty Member; 14 reviews)
2009-Present	International Anesthesia Research Society

National:

2007-Present	American Society of Anesthesiologists
2009-Present	Society of Cardiovascular Anesthesiologists (Blood Conservation Working Group: 2017-2019)
2014-Present	American Society of Echocardiography (Council on Perioperative Echocardiography: 2016-present)
2014-Present	Society for the Advancement of Blood Management (Membership Committee: 2015-present; Co-chair Membership Committee: 2016-2017; Chair Scientific Committee 2018; Co-Chair Annual Meeting Planning Committee 2019)
2014-Present	Society of Thoracic Surgeons (Workforce on Surgical Treatment of Adults with Congenital Heart Disease: 2017-2020)

Local:

2014-Present Pennsylvania Medical Society
 2014-present Philadelphia County Medical Society

Editorial Positions:

2011-Present Reviewer, Journal of Cardiothoracic and Vascular Anesthesia
 2012-Present Guest Reviewer, Journal of Clinical Anesthesia
 2015-Present Guest Reviewer, Journal of Surgical Research
 2015-Present Reviewer, Anesthesia and Analgesia Case Reports
 2017 Guest Reviewer, Orphan Anesthesia
 2017-Present Guest Reviewer, Perioperative Medicine
 2018-Present Editorial Board, Journal of Cardiothoracic and Vascular Anesthesia

Academic and Institutional Committees:

2012-Present Adult Cardiothoracic Anesthesiology Fellowship Selection Committee, Department of Anesthesiology and Critical Care, University of Pennsylvania
 2013-Present Anesthesiology Resident Selection Committee, Department of Anesthesiology and Critical Care, University of Pennsylvania
 2014-Present Program Evaluation Committee for Adult Cardiothoracic Anesthesiology Fellowship, Department of Anesthesiology and Critical Care, University of Pennsylvania
 2015-2016 QGenda Faculty Scheduling Committee, Department of Anesthesiology and Critical Care, University of Pennsylvania
 2018-Present Aortic Disease Team Member, Heart and Vascular Service Line, University of Pennsylvania

Major Academic and Clinical Teaching Responsibilities:

2011-Present Lecturer in Anesthesiology and Critical Care (Fellow/Resident Education)
 2011-Present Co-Director, Adult Congenital Heart Disease Elective for Cardiac Anesthesiology Fellowship
 2012 "Single lung ventilation during cardiac surgery" Respiratory Therapy Lecture Series, University of Pennsylvania (7/18/12)
 2012-2013 Faculty Mentor: Alex J. Gregory, MD (Penn ACTA fellow; Kaplan Award): now at University of Calgary, Calgary, AB
 2013 "Flolan for Founders 5!" Respiratory Therapy Lecture Series, University of Pennsylvania (7/15/13)
 2014-2015 Faculty Mentor: Michael Fabbro, DO (Penn ACTA fellow; Kaplan Award): now at University of Miami, Miami, FL
 2015 "Levosimendan in cardiac surgery" Heart and Vascular ICU Lecture Series, University of Pennsylvania (4/3/15)
 2015-2016 Faculty Mentor: Ronak Shah, MD (Penn ACTA fellow; Kaplan Award): now at University of Pennsylvania, Philadelphia, PA
 2015-Present Penn Pre-Medical Association Physician Shadowing Program

2015	"Sedation for Transcatheter Aortic Valve Replacement" Penn Medicine/Edwards Lifesciences TAVR Conscious Sedation Course, Philadelphia, PA (Feb 2015)
2015	"Monitored Anesthesia Care for Transcatheter Aortic Valve Replacement" Penn Medicine/Edwards Lifesciences TAVR Conscious Sedation Course, Philadelphia, PA (Nov 2015)
2016-2017	Faculty Mentor: Joseph Bracker, DO (Penn ACTA fellow), now at Mount Sinai St. Luke's Roosevelt Hospital, New York, NY
2016-2018	Faculty Mentor: Carissa Livingston, BS (Penn medical student): research mentor and supervisor
2017-2018	Faculty Mentor: Saumil Patel, MD (Penn ACTA fellow; Kaplan Award), now at University of Pennsylvania, Philadelphia, PA
2017	"Management of Perioperative Bleeding" Critical Care Lecture Series, University of Pennsylvania (10/18/17)
2017	"Transition to MAC for Transcatheter Aortic Valve Replacement" Penn Medicine/Edwards Lifesciences TAVR Conscious Sedation Course, Philadelphia, PA (Jan 2017)
2017-2018	Faculty Mentor: Saurabh Sudesh (Penn undergraduate student): premed advisor and intraoperative shadowing
2018-2019	Faculty Mentor: Jake Rosen (Emory undergraduate student): research mentor and supervisor

Lectures by Invitation:

Jan, 2012	"Preoperative Blood Conservation" 30th Annual Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, Rio Grande, Puerto Rico
Apr, 2012	"Perioperative Blood Conservation in Cardiac Surgery" Grand Rounds, Reading Hospital Medical Center, Reading, PA
Apr, 2012	"Perioperative Coagulopathy" PBLD Session, 34th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, Boston, MA
Dec, 2012	"TAVR: Anesthesia, Resuscitation, and TEE" Cardiac Surgery and Anesthesiology Conference, Westchester Medical Center, Valhalla, NY
Nov, 2013	"Update on Antifibrinolytics in the Perioperative Period" 5th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
Nov, 2013	"Making Sense of Factor Concentrates and Derivatives for Perioperative Hemostasis" 5th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
Nov, 2013	"Point of Care Coagulation Testing: Coming soon to an OR near you" 5th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
Nov, 2013	"Anesthesia for the Fontan Patient for Noncardiac Surgery" 5th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV

- Nov, 2013 "Anesthesia for the Adult with Congenital Heart Disease" 5th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
- Jan, 2015 "Antifibrinolytics in the Perioperative Period" 33rd Annual Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, St. Kitts, West Indies
- Jul, 2015 "Perioperative Steroids in Cardiothoracic Anesthesia and Surgery" 1st Global Summit on Steroids, Baltimore, MD
- Sep, 2015 "Antifibrinolytics and EPO in the Perioperative Period" Annual Meeting of the Society for the Advancement of Blood Management, Orlando, FL
- Nov, 2015 "Perioperative Factor Concentrates: Classification and Indications" 7th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
- Nov, 2015 "Perioperative Antifibrinolytic Therapy: Minimizing Transfusion" 7th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
- Nov, 2015 "Novel Anticoagulants: Oral Thrombin and Factor Xa Inhibitors" 7th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
- Nov, 2015 "Novel Platelet Blockers: Anesthetic Implications" 7th Annual Cardiac Anesthesia Update, Northwest Anesthesia Seminars, Inc., Las Vegas, NV
- Jan, 2016 "Conscious Sedation in Transcatheter Aortic Valve Replacement" 34th Annual International Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, San Juan, Puerto Rico
- Apr, 2016 "Perioperative Coagulopathy and Transfusion" PBLD Session, 38th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, San Diego, CA
- Aug, 2016 "Perioperative Coagulopathy and Transfusion in Cardiac Surgery" Dept of Anesthesiology Senior Resident Lecture Series, University of New Mexico, Albuquerque, NM
- Aug, 2016 "Making Sense of Factor Concentrates and Derivatives for Perioperative Hemostasis" Dept of Anesthesiology Grand Rounds, University of New Mexico, Albuquerque, NM
- Sep, 2016 "Optimizing our TAVR Program: Anesthesiologist's Perspective" TAVR Optimentals Program, Edwards Lifesciences, Dallas, TX
- Oct, 2016 "Aorta and Aortic Valve" Basic TEE Workshop, American Society of Anesthesiologists Annual Meeting, Chicago, IL
- Nov, 2016 "Outcomes with MAC for Transcatheter Aortic Valve Replacement" Combined Cardiology, Cardiac Surgery, & Cardiac Anesthesiology Conference, Thomas Jefferson University, Philadelphia, PA
- Nov, 2016 "Management of Coagulopathy in Cardiac Surgery" Dept of Anesthesiology Resident Lecture Series, University of Maryland, Baltimore, MD

- Dec, 2016 "Transitions in Anesthesia for Transcatheter Aortic Valve Replacement" Dept of Anesthesiology Grand Rounds, University of Maryland, Baltimore, MD
- Jan, 2017 "Emergency Response in Transcatheter Aortic Valve Replacement" 53rd Annual Meeting of the Society of Thoracic Surgeons, Houston, TX
- Jan, 2017 "Monitored Anesthesia Care for Transcatheter Aortic Valve Replacement" 35th Annual International Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, Cancun, Mexico
- Feb, 2017 "Evolution of Anesthesia in Transcatheter Aortic Valve Replacement" Dept of Anesthesiology Grand Rounds, Rutgers New Jersey Medical School, Newark, NJ
- Feb, 2017 "Perioperative Blood Conservation and Coagulopathy" Dept of Anesthesiology Resident Lecture Series, Rutgers New Jersey Medical School, Newark, NJ
- Apr, 2017 "Stop the Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy" PBLD Session, 39th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, Orlando, FL
- May, 2017 "Blood Product Transfusion and Hemostatic Agents for Coagulopathy" Dept of Anesthesiology and Perioperative Medicine Resident Lecture Series, Tufts Medical Center, Boston, MA
- May, 2017 "Transcatheter Aortic Valve Replacement: Past, Present, and Future" Dept of Anesthesiology and Perioperative Medicine Grand Rounds, Tufts Medical Center, Boston, MA
- Jun, 2017 "Optimizing our TAVR Program" Combined Cardiology, Cardiac Surgery, & Cardiac Anesthesiology Conference, Edwards Lifesciences, University of Florida, Gainesville, FL
- Jul, 2017 "Echocardiography for Non-cardiac Surgery" XLIII Annual Refresher Course in Anesthesiology and Perioperative Medicine, Mexican College of Anesthesiologists, Mexico City, Mexico
- Jul, 2017 "Factor Concentrates for Perioperative Coagulopathy" XLIII Annual Refresher Course in Anesthesiology and Perioperative Medicine, Mexican College of Anesthesiologists, Mexico City, Mexico
- Oct, 2017 "Heparin Monitoring" 16th International Congress of Cardiothoracic and Vascular Anesthesia, Brazilian Society of Anesthesiology, Rio de Janeiro, Brazil
- Oct, 2017 "Anesthetic Considerations in Complex Aortic Arch Surgery" 16th International Congress of Cardiothoracic and Vascular Anesthesia, Brazilian Society of Anesthesiology, Rio de Janeiro, Brazil
- Nov, 2017 "Routine Prophylactic CSF Drain" 2017 American Heart Association Annual Meeting, Anaheim, CA

- Jan, 2018 "Anesthesia for Transcatheter Aortic Valve Replacement: Outcomes" 36th Annual International Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, Paradise Island, Bahamas
- Jan, 2018 "Transitioning to a Sedation-based Anesthetic for Transcatheter Aortic Valve Replacement" Duke Cardiothoracic Seminar Series, Duke University, Durham, NC
- Mar, 2018 "Perioperative Use of Prothrombin Complex Concentrates" Dept of Anesthesiology, Perioperative Care, and Pain Medicine Grand Rounds, New York University Langone Medical Center, New York, NY
- Apr, 2018 "Still Bleeding: Tips and Tricks for Troubleshooting Perioperative Coagulopathy" PBLD Session, 40th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, Phoenix, AZ
- May, 2018 "Factor Concentrates for Hemostasis: Current Practices, Guidelines, and the Future of Bleeding Management" Dept of Anesthesiology, Perioperative Medicine, and Pain Management Grand Rounds, University of Miami Miller School of Medicine, Miami, FL
- Sep, 2018 "TEE for Hypertrophic Cardiomyopathy" Cardiac Anesthesiology Conference, Emory University, Atlanta, GA
- Oct, 2018 "Update on Antifibrinolytics in Cardiac Surgery" Pennsylvania State Perfusion Society Fall Meeting, King of Prussia, PA
- Jan, 2019 "Neuroprotection in Transcatheter Aortic Valve Replacement" 37th Annual International Symposium: Clinical Update in Anesthesiology, Surgery, and Perioperative Medicine, Oranjestad, Aruba
- Jan, 2019 "Monitored Anesthesia Care in Transcatheter Aortic Valve Replacement" Multidisciplinary TAVR Meeting, Edwards Lifesciences, McLaren Bay Region Hospital, Bay City, MI
- May, 2019 "Bypass Hacks to Maximize the Potential of Your Red Cell Mass: Ultrafiltration, RAP, Microplegia, Mini-Circuits, and More!" 41st Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, Chicago, IL
- May, 2019 "TAVR 2019: Do You Even Need an Anesthesiologist?" 41st Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists, Chicago, IL

Organizing Roles in Scientific Meetings:

- Apr, 2014 Workshop Moderator: Transthoracic Echocardiography and Vascular Access; 4th Annual Cadaver and Ultrasound Workshop for Regional Anesthesia
University of Pennsylvania, Philadelphia, PA

- Apr, 2015 Workshop Moderator: Transthoracic Echocardiography and Vascular Access; 5th Annual Cadaver and Ultrasound Workshop for Regional Anesthesia
University of Pennsylvania, Philadelphia, PA
- Apr, 2016 PBLD Facilitator: Lung Transplantation (Fellows session); 38th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists
San Diego, CA
- Apr, 2016 Session Moderator: Complex Case Poster Presentations; 38th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists
San Diego, CA
- Apr, 2016 Workshop Moderator: Transthoracic Echocardiography and Vascular Access; 6th Annual Cadaver and Ultrasound Workshop for Regional Anesthesia
University of Pennsylvania, Philadelphia, PA
- Sep, 2016 Session Moderator: Research Poster Presentations; 2016 Annual Meeting of the Society for the Advancement of Blood Management
Grand Rapids, MI
- Apr, 2017 Session Moderator: Complex Case Poster Presentations; 39th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists
Orlando, FL
- Sep, 2017 Session Moderator: Research Poster Presentations; 2017 Annual Meeting of the Society for the Advancement of Blood Management
Portland, OR
- Oct, 2017 Session Moderator: Challenges in Complex Aortic and Arch Surgery; 16th International Congress of Cardiothoracic and Vascular Anesthesia, Brazilian Society of Anesthesiology
Rio de Janeiro, Brazil
- Oct, 2017 Session Moderator: Hands-on Workshop: Coagulation Monitoring; 16th International Congress of Cardiothoracic and Vascular Anesthesia, Brazilian Society of Anesthesiology
Rio de Janeiro, Brazil
- Apr, 2018 Session Moderator: Complex Case Poster Presentations; 40th Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists
Phoenix, AZ
- May, 2018 Workshop Moderator: Focused Assessment of Transthoracic Echocardiography (FATE) Exam; 8th Annual Cadaver and Ultrasound Workshop for Regional Anesthesia
University of Pennsylvania, Philadelphia, PA
- Sep, 2018 Scientific Committee Chair: 2018 Annual Meeting of the Society for the Advancement of Blood Management
Brooklyn, NY

- May, 2019 Session Moderator: Complex Case Poster Presentations; 41st Annual Meeting and Workshops of the Society of Cardiovascular Anesthesiologists
Chicago, IL
- Sep, 2019 Co-Chair Annual Meeting Planning Committee: 2019 Annual Meeting of the Society for the Advancement of Blood Management
Baltimore, MD

Grants:Past:

A Double-Blind, Randomized, Placebo-Controlled Study Of Levosimendan In Patients With Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass; Levo-Cts, Tenax Therapeutics, OBI-LVO-01, 10/2014-4/2015 (PRAKASH A. PATEL, PI), \$33,818/annual direct costs, 1% effort (Role in grant: PI)

Bibliography:Research Publications, peer reviewed (print or other media):

1. Augoustides JG, **Patel P**, Ghadimi K, Choi J, Yue Y, Silvaj G: Current conduct of deep hypothermic circulatory arrest in China. HSR Proc Intensive Care Cardiovasc Anesth 5(1): 25-32, 2013.
2. Gutsche JT, Kornfield ZN, Speck RM, **Patel PA**, Atluri P, Augoustides JG: Impact of guideline implementation on transfusion practices in a surgical intensive care unit. J Cardiothorac Vasc Anesth 27(6): 1189-93, Dec 2013.
3. Gutsche JT, Feinman J, Silvaj G, **Patel PA**, Ghadimi K, Landoni G, Yue Y, Augoustides JG: Practice variations in the conduct of hypothermic circulatory arrest for adult aortic arch repair: focus on an emerging European paradigm. Heart Lung Vessel 6(1): 43-51, 2014. PMID: PMC4009596
4. Marcantuono R, Gutsche J, Burke-Julien M, Anwaruddin S, Augoustides JG, Jones D, Mangino-Blanchard L, Hoke N, Houseman S, Li R, **Patel P**, Stetson R, Walsh E, Szeto W, Herrmann HC: Rationale, development, implementation, and initial results of a fast track protocol for transfemoral transcatheter aortic valve replacement (TAVR). Catheter Cardiovasc Interv 85(4): 648-54, March 2015.
5. Fabbro M, Gutsche JT, Miano TA, Augoustides JG, **Patel PA**: Comparison of thromboelastography-derived fibrinogen values at rewarming and following cardiopulmonary bypass in cardiac surgery patients. Anesth Analg 123(3): 570-577, Sept 2016.
6. Pouch AM, Jackson BM, Lai E, Takebe M, Tian S, Cheung AT, Woo YJ, **Patel PA**, Wang H, Yushkevich PA, Gorman RC, Gorman JH: Modeling the myxomatous mitral valve with 3D echocardiography. Ann Thorac Surg 102(3): 703-710, Sept 2016.

7. Gutsche JT, Vernick WJ, Mikkelsen M, McCarthy F, Miano T, Ramakrishna H, **Patel PA**, Desai N, Lane-Fall M, Williams M, Augoustides JG, Szeto WY: Venovenous extracorporeal life support in hemodynamically unstable patients with ARDS. Anesth Analg 124(3): 846-848, March 2017.
8. Sohmer B, Jafar R, **Patel P**, Chamberland M, Labrosse M, Boodhwani M: Aortic valve cusp coaptation surface area by 3D transesophageal echocardiography correlates with severity of aortic valve insufficiency. J Cardiothorac Vasc Anesth Aug 2017 Notes: [Epub ahead of print]
9. Gutsche JT, Miano TA, Vernick W, Raiten J, Bermudez C, Vallabhoysula P, Milewski K, Szeto W, Fall ML, Williams ML, **Patel P**, Mikkelsen ME, Chiu C, Ramakrishna H, Canon J, Augoustides JG: Does a mobile ECLS program reduce mortality for patients transported for ECLS therapy for severe acute respiratory failure? J Cardiothorac Vasc Anesth Sept 2017 Notes: [Epub ahead of print]
10. Hyman M, Vemulapalli S, Szeto WY, Stebbins A, **Patel PA**, Matsouaka R, Herrmann H, Anwaruddin S, Kobayashi T, Desai N, Vallabhajosyula P, McCarthy F, Li R, Bavaria J, Giri J: Conscious sedation versus general anesthesia for transcatheter aortic valve replacement: insights from the NCDR STS/ACC TVT registry. Circulation 136(22): 2132-2140, Nov 2017.
11. Jain A, Gebhardt BR, Basaham SA, Zahedi F, Ianchulev S, Brinckerhoff LH, Augoustides JG, **Patel PA**, Tsai A, Cobey FC: Chronic post thoracotomy pain in trans-apical transcatheter aortic valv replacement. Ann Card Anaesth 2018 Notes: [Epub ahead of print]
12. MacKay EJ, Groeneveld PW, Fleisher LA, Desai ND, Gutsche JT, Augoustides JG, **Patel PA**, Neuman MD: Practice pattern variation in the Use of transesophageal echocardiography for open valve cardiac surgery. J Cardiothorac Vasc Anesth 33(1): 118-133, Jan 2019.

Research Publications, peer-reviewed reviews:

1. Augoustides JG, **Patel P**: Recent advances in perioperative medicine: highlights from the literature for the cardiothoracic and vascular anesthesiologist. J Cardiothorac Vasc Anesth 23: 430-6, 2009.
2. **Patel PA**, Augoustides JG: Progress in platelet medicine: focus on stent thrombosis and drug resistance. J Cardiothorac Vasc Anesth 24(4): 722-7, Aug 2010.
3. Ramakrishna H, Fassl J, Sinha A, **Patel P**, Riha H, Andritoso M, Chung I, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2009. J Cardiothorac Vasc Anesth 24: 7-17, 2010.

4. Singh N, **Patel P**, Wyckoff T, Augoustides JG: Progress in perioperative medicine: focus on statins. J Cardiothorac Vasc Anesth 24: 892-6, 2010.
5. Andritsos M, Singh N, **Patel P**, Sinha A, Fassl J, Wyckoff T, Riha H, Roscher C, Subramaniam B, Ramakrishna H, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2010. J Cardiothorac Vasc Anesth 25: 6-15, Feb 2011.
6. Riha H, Fassl J, **Patel P**, Wyckoff T, Choi J, Augoustides JG: Major themes for 2010 in cardiothoracic and vascular anesthesia. HSR Proc Intensive Care Cardiovasc Anesth 3: 33-43, 2011.
7. **Patel P**, Ramakrishna H, Andristos M, Wyckoff T, Riha H, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2011. J Cardiothorac Vasc Anesth 26(1): 3-10, Feb 2012.
8. **Patel PA**, Fassl J, Thompson A, Augoustides JG: Transcatheter aortic valve replacement - part 3: the central role of perioperative transesophageal echocardiography. J Cardiothorac Vasc Anesth 26(4): 698-710, Aug 2012.
9. Riha H, **Patel P**, Valentine E, Lane B, Augoustides JG: Major themes for 2011 in cardiovascular anesthesia and intensive care. HSR Proc Intensive Care Cardiovasc Anesth 4(1): 31-39, 2012.
10. Ramakrishna H, Reidy C, Riha H, Sophocles A, Lane BJ, **Patel PA**, Andritsos M, Ghadimi K, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2012. J Cardiothorac Vasc Anesth 27(1): 86-91, Feb 2013.
11. Reidy C, Sophocles A, Ramakrishna H, Ghadimi K, **Patel PA**, Augoustides JG: Challenges after the first decade of transcatheter aortic valve replacement: focus on vascular complications, stroke, and paravalvular leak. J Cardiothorac Vasc Anesth 27(1): 184-9, Feb 2013.
12. **Patel PA**, Lane B, Augoustides JG: Progress in platelet blockers: the target is the P2Y12 receptor. J Cardiothorac Vasc Anesth 27(3): 620-4, Jun 2013.
13. Ghadimi K, **Patel PA**, Gutsche JT, Sophocles A, Anwaruddin S, Szeto WY, Augoustides JG: Perioperative conduction disturbances after transcatheter aortic valve replacement. J Cardiothorac Vasc Anesth 27(6): 1414-20, Dec 2013.
14. Riha H, **Patel P**, Al-Ghofaily L, Valentine E, Augoustides JG, Sophocles A: Major themes for 2012 in cardiovascular anesthesia and intensive care. HSR Proc Intensive Care Cardiovasc Anesth 5(1): 9-16, 2013.

15. Ramakrishna H, Kohl BA, Gutsche JT, Fassl J, **Patel PA**, Riha H, Ghadimi K, Vernick WJ, Andritsos M, Silvay G, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2013. J Cardiothorac Vasc Anesth 28(1): 1-7, Feb 2014.
16. Tagarakis GL, Whitlock RP, Gutsche JT, Diegeler A, **Patel PA**, Daskalopoulos ME, Vernick WJ, Anastasiadis K, Augoustides JG: New frontiers in aortic therapy: focus on deliberate hypotension during thoracic aortic endovascular interventions. J Cardiothorac Vasc Anesth 28(3): 843-7, June 2014.
17. Gutsche JT, Ghadimi K, **Patel PA**, Robinson AR, Lane BJ, Szeto WY, Augoustides JGT: New frontiers in aortic therapy: focus on deep hypothermic circulatory arrest. J Cardiothorac Vasc Anesth 28(4): 1171-5, Aug 2014.
18. Gutsche JT, Riha H, **Patel P**, Sahota GS, Valentine E, Ghadimi K, Silvay G, Augoustides JG: Major themes for 2013 in cardiothoracic and vascular anaesthesia and intensive care. Heart Lung Vessel 6(2): 79-87, 2014.
19. Ramakrishna H, **Patel PA**, Gutsche JT, Kohl BA, Savino JS, Augoustides JG: Incidental patent foramen ovale in adult cardiac surgery: recent evidence and management options for the perioperative echocardiographer. J Cardiothorac Vasc Anesth 28(6): 1691-5, Dec 2014.
20. Gutsche JT, **Patel PA**, Cobey FC, Ramakrishna H, Gordon EK, Riha H, Sophocles A, Ghadimi K, Fabbro M, Al-Ghofaily L, Chern SY, Cisler S, Sahota GS, Valentine E, Weiss SJ, Andritsos M, Silvay G, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2014. J Cardiothorac Vasc Anesth 29(1): 1-7, Feb 2015.
21. **Patel PA**, Gutsche JT, Vernick WJ, Giri JS, Ghadimi K, Weiss SJ, Jagasia DH, Bavaria JE, Augoustides JG: The functional aortic annulus in the 3D era: focus on transcatheter aortic valve replacement for the perioperative echocardiographer. J Cardiothorac Vasc Anesth 29(1): 240-245, Feb 2015.
22. Gutsche JT, **Patel PA**, Walsh EK, Sophocles A, Chern SY, Jones DB, Anwaruddin S, Desai ND, Weiss SJ, Augoustides JG: New frontiers in aortic therapy: focus on current trials and devices in transcatheter aortic valve replacement. J Cardiothorac Vasc Anesth 29(2): 536-41, April 2015.
23. Raiten J, **Patel PA**, Gutsche JT: Management of postoperative atrial fibrillation in cardiac surgery patients. Semin Cardiothorac Vasc Anesth 19(2): 122-9, June 2015.

24. Raiten JM, Ghadimi K, Augoustides JG, Ramakrishna H, **Patel PA**, Weiss SJ, Gutsche JT: Atrial fibrillation after cardiac surgery: clinical update on mechanisms and prophylactic strategies. J Cardiothorac Vasc Anesth 29(3): 806-16, June 2015.
25. Gutsche JT, Riha H, **Patel PA**, Atchley L, Valentine E, Shah R, Cisler S, Weiss SJ, Silvay G, Augoustides JGT: Major themes for 2014 in cardiothoracic and vascular anesthesia and intensive care. Heart Lung Vessel 7(2): 101-9, 2015. PMID: PMC4476764
26. Fabbro M, Goldhammer J, Augoustides JG, **Patel PA**, Frogel J, Ianchulev S, Cobey FC: Problem-solving in transcatheter aortic valve replacement: cardiovascular collapse, myocardial stunning, and mitral regurgitation. J Cardiothorac Vasc Anesth 30(1): 229-236, Jan 2016.
27. Ramakrishna H, Gutsche JT, Evans AS, **Patel PA**, Weiner M, Morozowich ST, Gordon EK, Riha H, Shah R, Ghadimi K, Zhou E, Fernando R, Yoon J, Wakim M, Atchley L, Weiss SJ, Stein E, Silvay G, Augoustides JG: The year in cardiothoracic and vascular anesthesia: selected highlights from 2015. J Cardiothorac Vasc Anesth 30(1): 1-9, Jan 2016.
28. Ramakrishna H, Gutsche JT, **Patel PA**, Fernando R, Augoustides JG: Options for incidental moderate aortic stenosis during concomitant valve surgery: a clinical update for the perioperative echocardiographer. J Cardiothorac Vasc Anesth 30(1): 252-257, Jan 2016.
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