

Curriculum Vitae

Personal Information

Date Prepared: 9/27/2024

Name: Aalap C. Shah, MD FASA

Education

1998-2002	International Baccalaureate	International Baccalaureate	International Academy of Bloomfield Hills
2002-2006	Bachelors of Arts (B.A.)	Neuroscience	Johns Hopkins University
2006-2011	Doctorate of Medicine (M.D.) Health Sciences Research Fellowship	Medicine Neuroscience	University of Pittsburgh School of Medicine University of Pittsburgh Medical Center

Postdoctoral Training

07/11-06/15	Resident	Anesthesiology	University of Washington Affiliated Hospitals
01/15-06/15	Research Fellow	Anesthesiology	University of Washington Affiliated Hospitals
07/15-07/16	Clinical Fellow	Pediatric Anesthesiology	Boston Children's Hospital, Harvard Medical School
07/16-10/16	Research Fellow	Anesthesiology	Boston Children's Hospital, Harvard Medical School

NOT YET RETAINED

Appointments at Hospitals/Affiliated Institutions

10/2016 - 7/2017	Associate Partner	Anesthesiology	General Anesthesia Specialists Partnership Medical Group / Cedars-Sinai Medical Center
8/2017 - 3/2018	Anesthesiologist	Anesthesiology	Century Anesthesia Medical Group
4/2018 - 5/2019	Anesthesiologist	General Anesthesiology; OB Anesthesiology; Pediatric Anesthesiology	Apex Anesthesia Medical Group
10/2018 - 5/2019	Anesthesiologist, Associate Partner	General Anesthesiology; Pediatric Dental Anesthesiology	American Mobile Anesthesiology
6/2019 - 5/2020	Chief of Service Medical Director	Anesthesiology	East Los Angeles Doctors' Hospital (ELADH)
5/2020 - 10/2020	Chief of Service Medical Director	Anesthesiology	Monterey Park Hospital (MPH)
10/2019 - 06/2023	Assistant Clinical Professor; General and Pediatric Anesthesiologist	Anesthesiology & Perioperative Care	University of California, Irvine Medical Center
10/2020 - 06/2023	Director, Perioperative Informatics	UCI Health	University of California, Irvine Medical Center
11/2021 -	Anesthesiologist	Anesthesiology	Crystal Anesthesiology / La Veta Surgery Center (SCA Affiliate)
01/2024 -	Anesthesiologist	Anesthesiology	NAPA / UCI-Lakewood Regional Medical Center Locums Anesthesia - Ventura County Medical Center

Report of Clinical Activities and Innovations

Current Licensure and Certifications

2015-2016	Massachusetts Medical License
06/2016-	California State Medical License (A 144367)
06/2016-	Advanced Cardiovascular Life Support (ACLS)
06/2016-	Pediatric Advanced Life Support (PALS)
06/2016-	Diplomate, American Board of Anesthesiology, General Anesthesiology
08/2017-	Diplomate, American Board of Anesthesiology, Pediatric Anesthesiology
12/2017-	International Association for Six Sigma Certification Green Belt # G3665
12/2017-	Certification in LEAN Management
12/2020-	Epic Physician Builder
01/2021-	Python for Everybody Specialization
01/2024-	Diplomate, American Board of Preventive Medicine, Clinical Informatics

Practice Activities

10/2016	Surgery	Anesthesiology	Five-seven days per week
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Electronic Health Record Proficiency

08/2006- 10/2016;	Cerner Corporation	PowerChart, SurgiNet	University Pittsburgh SOM, University of Washington, Boston Children's Hospital Ventura County Medical Center
12/2023- Present			Pomona Valley General Hos- pital
10/2016- Present	Epic Systems	Epic	Cedars-Sinai Medical Center University of California, Irvine
04/2018	Evident	CPSI	Community hospitals

Other Professional Positions

2005-2007	Instructor/Tutor	The Princeton Review, Medical College Admission Test (MCAT) Preparatory Course
2015-2016	Fellow	Doximity
2015-2016	Physician Panel Member	Doctorbase
2016-2017	Physician Panel Member	Doximity
2018-2019	Paid Writer	Xenon Health
2018-	Founder, Chief Executive Officer	PRPmobile, LLC
2018-	Partner	AnesthesiaSTAT, LLC
2018-2019	Clinical Lab Consultant	Masimo
2019-2022	Chief Executive Officer - Oversee the provision of perioperative anesthesia services for OR and L&D services community hospitals and clinics in the East Los Angeles area.	Synesthesia Medical Group
2021-2022	Telehealth Fellow	Doximity
2022-2023	Knowledge Consultant	Wolters-Kluwer

Committee Service

Local

2014-2015	Chair, Surgical Services Subcommittee, Housestaff Quality and Safety Council	University of Washington Medical Center
2013-2015	Resident Representative, Department of Anesthesiology, Housestaff Association	University of Washington Medical Center
2015-2016	Member, Housestaff Quality and Safety Council	Boston Children's Hospital
2015-2016	Fellow Representative, Scholarly Activity Committee	Boston Children's Hospital

2019-	Member, Equipment Committee	University of California, Irvine Department of Anesthesiology & Perioperative Care
10/2020-	Director of Informatics, Epic Clinical Informatics Lead	University of California, Irvine Department of Anesthesiology & Perioperative Care
03/2021-	Member, Sedation Committee	University of California, Irvine Department of Anesthesiology & Perioperative Care
03/2021-	Member, Conservation & Sustainability Committee	University of California, Irvine Department of Anesthesiology & Perioperative Care
10/2021-	Member, Compensation Committee	University of California, Irvine Department of Anesthesiology & Perioperative Care

National

02/2021-	Social Media Ambassador	Anesthesia Patient Safety Foundation
02/2022-	Teamwork in Patient Safety	Anesthesia Patient Safety Foundation

Professional Societies

08/2006- 05/2011	Member	American Medical Student Association
08/2006-	Member	American Medical Association
07/2007- 06/2011	Member	Allegheny County Medical Society
07/2011-	Member	American Society of Anesthesiologists

07/2011- 06/2015	Member	Washington State Society of Anesthesiologists - Resident Delegate, 2014-2015
10/2014-	Member	Society for Technology in Anesthesia
07/2015- 09/2016	Member	Massachusetts Medical Society
07/2015-	Member	Society for Pediatric Anesthesia
10/2016-	Member	California Society of Anesthesiologists

Academic Review Activities

11/2014- 05/2015	UWHA Grant Awards	University of Washington Medical Center Housestaff Association
04/2018-	Ad hoc Reviewer	British Medical Journal – Case Reports
04/2020-	Ad hoc Reviewer	Nature Scientific Reports
12/2021-	Contributing Editor, Ad hoc Reviewer	BMC Anesthesiology

Advisory Board

04/2018- 04/2019	SureConsent LLC
05/2020-	Healfast LLC
03/2022- Present	Doximity
07/2022-	Beyond Physician
09/2022- 08/2024	Andwise

Honors

10/2004	Provost Undergraduate Research Award	Johns Hopkins University	
05/2006	Phi Beta Kappa	Johns Hopkins University	Academic Honors
09/2008-07/2009	Health Sciences Research Fellow	University of Pittsburgh Medical Center	
05/2011	Arnold P. Gold Humanism Society	University of Pittsburgh School of Medicine	
05/2015	Frederick P. Cheney Endowment for Anesthesiology Resident Excellence Award	University of Washington Medical Center	
10/2015	Hacking Pediatrics Innovations Mashup - Most Institutional Impact Award	Boston Children's Hospital	
10/2015	Von L. Meyer Travel Award	Boston Children's Hospital	
10/2016	David C. Leach Award	American Council on Graduate Medical Education	Institutional Quality Improvement (Post-Operative Handovers)
10/2017	Hilda Mears Award	Association for Perioperative Practice	Global Health Initiative (Silkroad for Surgery, Mandalay, Myanmar)
09/2018	Doximity Foundation Award	Doximity	Global Health Initiative (Silkroad Surgery for Surgery, Mandalay, Myanmar)
04/2021	Faculty of the American Society of Anesthesiologists (FASA)	American Society of Anesthesiologists	
06/2021, 09/2022	<i>Super Doctors</i> Rising Star, Southern California Chapter	<i>Super Doctors</i>	2022, 2023

01/2023	Castle Connolly	<i>Top Doctor</i>	2023
09/2024	Physicians of Excellence	<i>Orange County Medical Association</i>	2024

Report of Funded and Unfunded Projects

Current Funded Projects

- 12/2022- Using machine learning to prognosticate outcomes between non-COVID and COVID patients requiring extracorporeal membrane oxygenation (ECMO): a single-center experience
University of California, Irvine
- 12/2022- AnesthesiaSTAT Podcast – Department of Anesthesiology
University of California, Irvine
- 03/2021- Intraoperative clinical decision support for reduction of fresh gas flows and volatile anesthetic use
University of California, Irvine – Epic OpTime

Current Unfunded Projects

- 07/2023- Transparent Medical Institute (TMI)
A trainee-focused financial and private practice management curriculum including the following segments:
- Obtaining Employment ; Maximizing Money, Optimizing Insurances & Scrutinizing Investments ; Developing Leaders ; Starting A Business/Practice ; Understanding Medical Staff Issues, Liability & Regulations, Anesthesia Perioperative Quality & Metrics ; Anesthesia Billing, Revenue Cycle Management & Practice Management Issues ; Anesthesia Service Contracts & Value Proposition ; Anesthesia Practice Standard Operating Manual (SOP) ; Anesthesia Value-Added Services
Aalap C Shah, MD Inc
Principal
- 12/2021- A retrospective analysis of a case series based on our own institutional experience with Venovenous Extracorporeal Membrane Oxygenation.
University of California, Irvine
Co-Investigator

04/2021- Revision of Attending Anesthesiologist Attestations for Medicolegal Compliance
University of California, Irvine – Epic OpTime

Prior Funded Projects

03/2013- Epidural infusion time and post-operative pain control. (UW IRB # 48675)
05/2017

University of Washington ITHS / NCATS UL1TR00042

Investigator

04/2014- Tracheostomy care and emergencies curriculum
04/2017

University of Washington Housestaff Association Grants

Co-Investigator

04/2003- Cdk5/p35 phosphorylation of neurofilaments after focal cerebral ischemia
04/2005

Provosts Undergraduate Research Award, Johns Hopkins University

Investigator

01/2006- “Tumor endothelial marker-1 (TEM-1) RNA expression in glioblastoma multiforme.”
08/2006

Department of Neurosurgery, University of Pittsburgh

Research Associate

09/2008- Differential caspase expression and activity in male versus female rats after induction of
06/2009 hypoxic ischemia.

Heath Sciences Research Fellowship, University of Pittsburgh

Research Associate

Prior Unfunded Projects

10/2007- University of Pittsburgh, Department of Neurosurgery.
11/2015 - The utility of intra-operative neurophysiological monitoring during brainstem decompression surgery

- 04/2013-05/2016 University of Washington, Department of Anesthesiology and Pain Medicine
 Research and Study Resources shared access link (via Dropbox)
 - 500+ self-created flashcards
- 04/2014-05/2016 University of Washington, Department of Anesthesiology and Pain Medicine
 - Database Management of the Departmental Directory and Smartphone Contact Lists
- 12/2015-05/2016 University of Washington, Department of Anesthesiology and Pain Medicine
 - A Pre-Operative Checklist for Patients Receiving Regional Anesthesia for Upper Extremity Surgery
- 12/2015-08/2016 Boston Children’s Hospital, Department of Anesthesiology, Perioperative and Pain Medicine
 - Difficult airway management and concurrent pediatric thyroid disorders
- 04/2013-06/2018 University of Washington, Department of Anesthesiology and Pain Medicine
 - The utility of an electronic handover tool for OR-to-PACU and OR-ICU patient handovers
 - Subjective Exercise Tolerance as a predictor of pulmonary hypertension and outcomes after non-cardiac surgery (UW IRB #45314)
- 07/2014- Harborview Medical Center, Department of Anesthesiology and Pain Medicine
 - A Standardized Post-Operative Checklist for OR-PACU Transfer-of-Care at Harborview Medical Center
- 11/2015-06/2018 Boston Children’s Hospital, Department of Anesthesiology, Perioperative and Pain Medicine, & University of Georgia, Terry College of Business Master’s in Business and Technology Program
 - The Electronic Pre-Operative Anesthetic Plan (EPAP) -

Report of Local Teaching and Training

Local Teaching (including 4U)

- 07/2020- “Bridging the Gap” Perioperative Disparities Between Teaching and Community Hospitals
 - Topics include: Divide between
 - Format: PowerPoint Presentations, Operating Room 1:1 Didactics and Discussions
- 07/2020- “Building a Partnership and Independent Practice”
 - Topics include: Financial & Legal Aspects of Incorporation, Project Management Skills, Promoting Efficiency through Lean / Six Sigma, Supply Chain Management, Revenue Cycle Management
 - Format: PowerPoint Presentations: Operating Room 1:1 Didactics and Discussions

- 07/2020- Medical Humanities and Journalism
- Encourage trainees to contribute opinion-editorials and creative writing pieces to various medical and non-medical outlets
- 07/2020- “Anesthesia for The Elderly”
- Provide a high-yield presentation on the physiological differences associated with geriatric age range, divided by organ system and incorporating landmark article references
- 07/2020- “Anesthesia for the Young”
- Provide a high-yield presentation on the physiological differences associated with neonatal and pediatric age range, divided by organ system and incorporating landmark article references
- Format: PowerPoint Presentations: Operating Room 1:1 Didactics and Discussions with trainees during their pediatric anesthesiology rotation, 4U Didactics

Local Invited Presentations

No presentations below were sponsored by outside entities

- 04/2015 Post-Operative Transfer of Care at HMC: A Multidisciplinary Quality Improvement Initiative / Committee Meeting
Surgical Leadership Council, Harborview Medical Center
- 05/2015 Process Improvement and Healthcare IT: OR-to-PACU Transfer of Care / Grand Rounds
Department of Anesthesiology and Pain Medicine, University of Washington Medical Center
- 10/2015 Small Bowel Obstruction and Aplastic Anemia / Morning Report
Department of Anesthesiology, Perioperative and Pain Medicine, BCH
- 04/2016 Process Improvement and Healthcare IT: OR-to-PACU Transfer of Care
Department of Anesthesiology, Perioperative and Pain Medicine, BCH
A Focus on Perioperative Communication / Morning Report
Department of Anesthesiology, Perioperative and Pain Medicine, BCH
- 05/2016 Post-Tonsillectomy Bleed and One-Lung Ventilation / Morning Report
Department of Anesthesiology, Perioperative and Pain Medicine, BCH

Mentorship of Resident and Fellow Trainees in Anesthesiology

10/2019- University of California, Irvine, Department of Anesthesiology
Present

Mentorship of Pre-Medical Students

05/2016 Khushi Patel, candidate for medical school from UC Berkeley
- Shadowing experience in the operating rooms, labor & delivery unit, and off-site anesthetizing locations for a variety of outpatient and inpatient procedures

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

No presentations below were sponsored by outside entities

Regional

05/2015 Process improvements for timely initiation of epidural infusion for post-operative pain control

Western Anesthesia Residents Conference, Seattle, WA

05/2015 Self-reported exercise tolerance and prevalence of adverse perioperative outcomes in pulmonary hypertension patients undergoing non-cardiac, non-obstetrical surgery.

Western Anesthesia Residents Conference, Seattle, WA

National

10/2015 Early Epidural Infusion Initiation and Post-Operative Pain Control in Patients Undergoing Elective Surgery: A Single Center Experience

American Society of Anesthesiologists Meeting, Young Investigators Clinical Research Session, San Diego, CA

International

05/2010 Microvascular decompression for hemifacial spasm: evaluating the prognostic value of intra-operative lateral spread response monitoring and clinical characteristics in 293 patients

American Academy of Neurology, Toronto, Ontario CA

Report of Education of Patients and Service to the Community

Activities

- 08/2002-10/2004 Mentor, Refugee Youth Project, American Red Cross, Baltimore, MD
- 10/2003-05/2006 Teaching Assistant, Johns Hopkins University
- Subjects include: Introductory Chemistry Laboratory, Biochemistry, Systems Neuroscience
- 10/2004- Founder, Current Faculty Mentor, Hopkins Association for Stroke Awareness (HASA), Johns Hopkins University, Baltimore MD
- Coordinated Stroke Questionnaire and Assessment Program at Johns Hopkins Hospital (JHH) Emergency Room
- Coordinated Stroke Education Class and Volunteer Program at JHH Physical Medicine and Rehabilitation
- Raised >\$5000 for and participated in American Stroke Association “Train to End Stroke” marathon, June 2005, Kona, HI
- 12/2006-05.2007 Student Tutor, Office of Medical Education, University of Pittsburgh
- Assisted students in 1st year courses, including Cell & Tissue Physiology, Fuel Metabolism, Immunology and Microbiology
- 07/2008-06/2009 Volunteer Pianist, The School for Blind Children, Pittsburgh, PA
- 2014-2015 Lecturer, “Introduction to the patient history and physical exam”
- Taught pre-medicine students involved in undergraduate summer research projects at University of Washington
- 01/2018- Founder, University of Washington HQSC QI Launch Scholarship
- Contribute \$2500 annually in grant funding for resident-led quality improvement projects at any affiliated hospital in Seattle, WA
- 01/2018-03/2020 Volunteer, Wags For Walks Dog Rescue Shelter
- 03/2022- Volunteer Judge, Orange County Science and Engineering Fair (OCSEF)
- 05/2024- Volunteer Judge, California Science and Engineering Fair (CSEF)

Pro bono and Medical Mission Trips

- 09/2016 Morales, Guatemala (Healing The Children; November 4-13, 2016)
- Coordinated with OBP Medical and Afya Foundation (medical supply recovery) to provide anesthesia equipment and care supplies for the mission

09/2017, Mandalay, Myanmar (Burma) (Silkroad Surgery for Children; September 22-30, 2017;
09/2018, September 15-22, 2018)
09/2019 - Provide didactic and on-site teaching to local perioperative nursing staff and anesthetists

Report of Scholarship

Peer reviewed publications in print or other media

Research investigation

1. Park FS, **Shah AC**, Rao S, Rinehart J, Togashi K. Clinical Outcome Comparison of Patients Requiring Extracorporeal Membrane Oxygenation With or Without COVID-19 Infection. *Cureus*. 2023 May 16;15(5):e39078. doi: 10.7759/cureus.39078. PMID: 37332447
2. Frasik C, Luong E, Chang M, Sandhu S, **Shah AC**. Severe Thyrotoxicosis Caused by Molar Pregnancy: A Case Report and Review of the Literature. *Cureus*. 2023 Apr 14;15(4):e37582. doi: 10.7759/cureus.37582. PMID: 37197102
3. **Shah AC**, Przybysz AJ, Wang K, Jones IA, Manuel SP, Dayal R, Jung MJ, Schlomerkemper N, Gandhi S. Knowledge Gaps of Anesthetic Gas Utilization and Environmental Impact in a Large Academic Hospital System: A Multi-Center Survey." *Cureus*. 2023 Mar 6;15(3):e35868. PMID: 37033549
4. Ramaswamy P, **Shah A**, Kothari R, Schloemerkemper N, Methangkool E, Aleck A, Shapiro A, Dayal R, Young C, Spinner J, Deibler C, Wang K, Robinowitz D, Gandhi S. "Implementation of an Accessible Clinical Decision Support System to Curtail Anesthetic Greenhouse Gases in a Large Health Network." *JMIR Perioper Med*. 2022 Dec 8;5(1):e40831. PMID: 36480254
5. **Shah AC**, Nair BG, Lang CA, Ma K, Neradilek MB, Zucker FH, Lang JD. "Safe on Saturday: elective abdominal and perineal surgeries can be performed on Saturday without increased risk of poor post-operative outcome." *Am J Surg*. 2019 Sep;218(3):462-468. PMID: 31288926
6. **Shah AC**, Herstein A, Flanagan ME, Flynn-O'Brien K, Oh D, Xu, Anna. "Six Sigma DMAIC methodology and post-operative information transfer accuracy: a multidisciplinary quality improvement study with interrupted time-series regression." *J Surg Educ*. 2019 Jul-Aug;76(4):1048-1067. PMID: 30954426
7. **Shah AC**, Komperda KW, Mavanur AA, Thorpe SW, Weiss KR, Goodman MA. "Overall survival and tumor recurrence after surgical resection for primary malignant chest wall tumors; a single-center, single-surgeon experience." *J Orthop Surg (Hong Kong)*. 2019 May-Aug;27(2):2309499019838296. PMID: 30939982
8. **Shah AC**, Nair BG, Spiekerman CF, Bollag LA. "Process optimization and digital quality improvement to enhance timely initiation of epidural infusions and post-operative pain control." *Anesth Analg* 2019 May;128(5):953-961. PMID: 30138173
9. **Shah A**, Oh D, Xue A, Lang J, Nair BG. "An electronic handoff tool to facilitate transfer of care from anesthesia to nursing in intensive care units." *Health Informatics J*. 2019 Mar;25(1):3-16. PMID: 29231091
10. **Shah AC**, Ma K, Faraoni D, Oh D, Rooke GA, Van Norman G. "Self-reported functional status predicts post-operative outcomes in non-cardiac surgery patients with pulmonary hypertension." *PLoS One*. 2018 Aug 16;13(8):e0201914. PMID: 30114222

11. **Shah AC**, Ng W, Sinnott S, Cravero JP. "Population analysis of predictors of difficult intubation with direct laryngoscopy in pediatric patients with and without thyroid disease." *J Anesth*. 2018 Feb;32(1):54-61. PMID: 29149429
12. **Shah AC**, Nair BG, Spiekerman C, Bollag L. "Continuous intraoperative epidural infusions affect recovery room length of stay and analgesic requirements: a single-center observational study." *J Anesth*. 2017 Aug;31(4):494-501. PMID: 28185011
13. **Shah AC**, Nikonow TN, Horowitz MB. "Persistent hemifacial spasm after microvascular decompression: A clinical predictor model." *Br J Neurosurg*. 2017 Jun;31(4):494-501. PMID: 27906546
14. **Shah AC**, Barnes CE, Spiekerman C, Bollag L. "Hypoglossal nerve palsy (HNP) after general anesthesia: an analysis of 69 patients." *Anesth Analg*. 2015 Jan;120(1):105-120. PMID: 25625257
145. Thirumala PD, Wang X, **Shah A**, Habeych M, Crammond D, Balzer J, Thirumala PD, Sekula R. "Clinical impact of residual lateral spread response after adequate microvascular decompression for hemifacial spasm: A retrospective analysis." *Br J Neurosurg*. 2015 Jun 22:1-5. PMID: 26098605
16. Wang X, Thirumala PD, **Shah A**, Gardner P, Habeych M, Crammond D, Balzer J, Burkhart L, Horowitz M. "Microvascular decompression for hemifacial spasm: focus on late reoperation." *Neurosurg Rev*. 2013 Oct;36(4):637-43. PMID: 23749049
17. Kanaan H, Horowitz MB, **Shah A**. "Safety and efficacy of percutaneous vascular closure devices in cerebral endovascular procedures: a single-center analysis." *J NeuroIntervent Surg*. 2013 July. doi:10.1136/neurintsurg-2013-010749. PMID: 23868215
18. Wang X, Thirumala PD, **Shah A**, Gardner P, Habeych M, Crammond D, Balzer J, Burkhart L, Horowitz M. "The role of vein in microvascular decompression for hemifacial spasm: a clinical analysis of 15 cases." *Neurol Res*. 2013 May;35(4):389-94. PMID: 23540407
19. Ying, T, Thirumala P, **Shah A**, Nikonow T, Wichman K, Holmes M, Chang Y, Habeych M. "Incidence of high-frequency hearing loss after microvascular decompression for hemifacial spasm." *J Neurosurg*. 2013 Apr;118(4):719-724. PMID: 23394342
20. Wang X, Thirumala P, **Shah A**, Gardner P, Habeych M, Crammond D, Balzer J, Horowitz M. "Effect of previous botulinum neurotoxin treatment on microvascular decompression for hemifacial spasm." *Neurosurg Focus*. 2013 Mar;34(3):E3. PMID: 23452316
21. **Shah AC**, Nikonow TN, Thirumala PD, Hirsch BE, Horowitz MB. "Hearing outcomes following microvascular decompression for hemifacial spasm." *Clin Neurol Neurosurg*. 2012 Jul;114(6):673-7. PMID: 22410649
22. Habeych ME, **Shah AC**, Nikonow TN, Balzer JR, Crammond DJ, Thirumala PD, Kassam AB, Horowitz MB. "Effect of botulinum neurotoxin treatment in the lateral spread monitoring of microvascular decompression for hemifacial spasm." *Muscle and Nerve*. 2011 Oct;44(4):518-24. PMID: 21826681
23. Thirumala PD, **Shah AC**, Nikonow TN, Habeych ME, Balzer JR, Horowitz MB, Kassam AB. "Microvascular decompression for hemifacial spasm: evaluating outcome prognosticators including the value of intra-operative lateral spread response monitoring and clinical characteristics in 293 patients." *J Clin Neurophysiol*. 2011 Feb;28(1):56-66. PMID: 21221005

Manuscripts under review

1. **Shah A**. "In-hospital and Long-term Mortality in COVID-19 Patients with Extracorporeal Membranous Oxygenation." Manuscript submitted to Cureus. March 2023.

Research publications without named authorship

1. Okado Y, Stark CEL. “Neural activity during encoding predicts false memories created by misinformation.” Learn Mem. 2005 Jan; 12(1): 3–11. *member of the investigative team cited in the appendix of the manuscript)

Proceedings of meetings or other non-peer reviewed research publications

1. Jalilian L, **Shah A**. “Medical consumables during a COVID-19 surge.” Anesthesiology News. 2020 March.
2. **Shah A**, Fiset C. “Managing departmental contacts: workflow improvements using Obvibase.” Journal of the University of Washington Housestaff Quality and Safety Committee (HOUSE). 2015 November:1(1):25-27.
3. McGauvran M, **Shah AC**, Nair BG, Bollag L. “Process improvements for the timely initiation of epidural infusion for post-operative pain control.” Journal of the University of Washington Housestaff Quality and Safety Committee (HOUSE). 2015 Nov:1(1):19

Professional Educational Materials or Reports, in print or other media

1. **Shah AC**. "Hemodynamic Monitoring: At A Tipping Point." Accepted to CSA Vital Times, Jan 2024
2. **Shah AC**. “Advances in Perioperative Clinical Informatics” California Society of Anesthesiologists – Online First. April 2023.
3. **Shah AC**. “What happened to the first name in medicine?” KevinMD.com. 4 Feb 2019
4. **Shah AC**. “12 things you’ll need for a smooth credentialing process.” KevinMD.com. 25 Dec. 2018
5. **Shah AC**. “Volunteer Medical Trip To Myanmar.” Dox Foundation. 14 Nov 2018.
6. **Shah AC**. “VERITAS: A healthy model for a life in medicine.” Doximity Op-Med. 16 Nov 2018.
7. **Shah AC**. “Great on paper, terrible in practice”: tackling the chasm in community perioperative healthcare.” Tincture.com. 16 Nov 2018.
8. **Shah AC**. “Commotion in the [hospital] cafeteria.” Tincture.com. 27 Oct 2018.
9. **Shah AC**. “Doctor to patient: Please call me when you get home.” KevinMD.com. 21 Feb 2018.
10. **Shah A**, Dewitt B on behalf of the UW Housestaff Quality and Safety Committee / Working Group
“Harborview Medical Center – OR to PACU Transfer-of-Care” 12 May 2015.
- <https://drive.google.com/file/d/0B2uK7WoIRnTyakVuUFFaZUVRdVE/view?usp=sharing>
- Roles: Scriptwriter, Participant
- Educational video demonstrating the use of a paper checklist and associated electronic note for the standardized delivery and documentation of post-operative patient handover.

Non-peer reviewed scientific or medical publications/materials in print or other media

Newspaper and other distributed media

1. “Anesthesiology team to 'Green the OR' with carbon-neutral operating rooms.” UCI Health News. April 18, 2023. Accessed at: <https://www.ucihealth.org/news/2023/04/operating-room-sustainability>

Podcasts and television appearances

1. **Shah A**, Harding KT. “Dr. Aalap Shah – Anesthesiology.” LA Health and Me. MeTV – Los Angeles. Anesthesiology News. 2020 March. Air Dates: 8/7/22 – 9/4/22. Accessed at: <https://metv.com/videos/local-la-health-and-me/dr-aalap-shah-anesthesiology>
2. **Shah A** “Follow The Money.” Anesthesia Success Podcast. Air Date: October 26, 2020. <https://www.youtube.com/watch?app=desktop&feature=youtu.be&v=2XKNWiM35ec>
3. **Shah A** “How An Anesthesiologist Carved His Own Career Path From The Beginning.” Anesthesia Success Podcast. Air Date: May 4, 2019. <https://apmsuccess.com/episode-12-how-an-anesthesiologist-carved-his-own-career-path-from-the-beginning-w-dr-aalap-shah/>

Abstracts, Poster Presentations and Exhibits Presented at Professional Meetings

1. Park F, Katrivesis K, Dang P, Rao S, Rinehart J, **Shah A**, Togashi K. “Vasopressor Usage as a Predictor for Mortality in COVID-19 Patients Receiving Venovenous Extracorporeal Membrane Oxygenation.” Abstract accepted to Society of Critical Care Anesthesiologists, International Anesthesia Research Society, and Association of University of Anesthesiologists Annual Meeting. Denver, CO. April 2023.
2. Becker S, **Shah AC**. “EPIC-based Early Warning System for Inpatients with Difficult Airways.” Accepted for Oral Presentation at EPIC XGM 2022, Verona, WI. May 3-4, 2022.
3. **Shah AC**, Przybysz AJ, Wang K, Manuel SP, Dayal R, Jung MJ, Schlömerkemper N, Jones I, Gandhi S. “Practice Patterns and Knowledge Gaps of Anesthetic Gas Usage amongst Anesthesiology Departments in the University of California Hospital System: A Multi-Center Survey.” Poster Presentation at International Anesthesia Research Society Annual Meeting. (Virtual) March 16, 2022. Oral Presentation at Association of University Anesthesiologists Annual Meeting. (Virtual) March 16, 2022.
4. Ramaswamy P, Young C, **Shah A**, Kothari R, Olmos A, Spinner J. A Practical Toolkit to Reduce OR Emissions: Creation and Implementation of a Portable Electronic Solution Across the UC Health System. UCSF Anesthesia Research Night. San Francisco, CA. December 3, 2022.
5. Koh J, **Shah AC**. “Use of Fluoroscopy for Selective Left Lung Isolation During Pulmonary Embolization.” American Society for Anesthesiology Annual Meeting (Virtual) 2020 Notes: Moderated Poster Presentation.
6. Parris M, **Shah A**, Morrison D. “Laryngeal Mask Airway Use for Percutaneous Gastrostomy Tube Placement in the Neonatal Intensive Care Unit.” American Society for Anesthesiology Annual Meeting (Virtual) 2020 Notes: Moderated Poster Presentation.
7. **Shah AC**, Nair BG. “Safe on Saturday: elective low-risk surgery can be performed on Saturday without increased risk of poor post-operative outcome.” American Society of Anesthesiologists Meeting, San Francisco, CA. October 15, 2018.
8. **Shah AC**, Herstein AH, Flanagan ME, Flynn-O’Brien K. “A Multidisciplinary Checklist and Structured Handover Reporting Format Improves Post-Operative Information Transfer.” American Society of Anesthesiologists Meeting, Boston, MA. October 2017.

9. **Shah AC**, Ng WCK, Sinnott S, Cravero J. “Difficult airway management and concurrent pediatric thyroid disorders: Institutional report.” Society for Pediatric Anesthesia, Colorado Springs, CO. April 2, 2016.
10. **Shah AC**, Nair BG, Bollag L. “Early Epidural Infusion Initiation and Post-Operative Pain Control Patients Undergoing Elective Surgery: A Single Center Experience.” UW Academic Evening, Seattle, WA. May 26, 2015.
11. **Shah AC**, Van Norman G, Rooke GA. “Self-reported exercise tolerance and prevalence of adverse perioperative outcomes in pulmonary hypertension patients undergoing non-cardiac, non-obstetrical surgery.” Western Anesthesia Residents Conference, Los Angeles, CA. May 3, 2014. UW Academic Evening, Seattle, WA. May 19, 2014. International Anesthesia Research Society, Honolulu, HI. March 20-24, 2015. UW Academic Evening, Seattle, WA. May 26, 2015. Honorable Mention, Top Clinical Abstracts. American Society of Anesthesiologists Meeting, San Diego, CA. October 25, 2015
12. **Shah AC**, McGauvran M, Nair BG, Bollag L. “Process improvements for timely initiation of epidural infusion for post-operative pain control.” Society for Technology in Anesthesia, Phoenix, AZ. January 7-10, 2015. International Anesthesia Research Society, Honolulu, HI. March 21-24, 2015. UW Academic Evening, Seattle, WA. May 26, 2015
13. **Shah AC**, Xue AH, Oh DC, Lang, JD, Nair BG. “A handoff tool to facilitate transfer of care from anesthesia to nursing in intensive care units.” Society for Technology in Anesthesia, Phoenix, AZ. January 7-10, 2015. UW Academic Evening, Seattle, WA. May 26, 2015
14. **Shah AC**, Barnes C, Bollag L. “Hypoglossal nerve palsy (HNP) after general anesthesia: an analysis of 69 patients.” Western Anesthesia Residents Conference, Los Angeles, CA. May 3, 2014. UW Academic Evening, Seattle, WA. May 19, 2014. *Best in Category, Educational Initiatives and Reviews
15. **Shah AC**, Nikonow TN, Holmes M, Wichmann K, Thirumala PD, Horowitz MH. “Hearing preservation after microvascular decompression for hemifacial spasm: elucidating the role of intraoperative brainstem auditory evoked responses in 89 patients.” Congress of Neurological Surgeons Annual Meeting, Pain Forum. San Francisco, CA. October 16-21, 2010.
16. Zhang J, Sun W, **Shah A**, Pabaney A, Huang J. “Cortical matrix metalloproteinase-9 expression is increased with endogenous estrogen in experimental stroke.” Poster Presentation, Congress of Neurological Surgeons, 55th Annual Meeting. July 17-21, 2005.

Other Coursework

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| 03/2022- | Introduction to Machine Learning. Instructor: Andrew Ng, PhD, Stanford University. Platform: Coursera |
| 01/2021 | Python for Everybody (PY4E) Specialization. Instructor: Charles Severance, PhD. Platform: Coursera |
| 11/2017 | International Association for Six Sigma Certification: Lean and Six Sigma Green Belt |