

Jeremy Vincent Laney, M.D.

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Education & Training

University of Southern California
Marshall School of Business
Executive Master of Business Administration
Class of 2025 August 2023- current

University of Southern California
Adult Cardiothoracic Anesthesiology Fellowship
Class of 2021 July 2020-June 2021

University of Southern California
Anesthesiology Residency Training Program
Class of 2020 June 2016-June 2020

University of California, Los Angeles
David Geffen School of Medicine
Charles Drew University of Medicine and Science
College of Medicine
M.D., Class of 2016 Aug 2012-June 2016

University of California, Los Angeles
College of Letters and Science
Department of Psychology/Psychobiology
B.S., Psychobiology Sept 2007-Sept 2011

Licenses/Certifications

American Society of Echocardiography September 2021-current
• Board Certified Perioperative Transesophageal Echocardiographer

American Society of Anesthesiologists July 2021-current
• Board Certified Anesthesiologist

Medical Board of California Oct 2018-current
• Licensed Physician

Work Experience

University of Southern California, Keck School of Medicine August 2021-current
Assistant Clinical Professor of Anesthesiology
Cardiothoracic Division
Liver Transplant Division

Expert Witness in Medical litigation September 2022-current
• Provided expert witness services in medical malpractice case involving alleged awareness under general anesthesia

Memberships

Society of Cardiovascular Anesthesiologists (SCA) November 2018-current

American Society of Anesthesiologists (ASA) July 2016-current

Publications and Acknowledgements

Publications

- Konstantinos Alfaras-Melainis, Rohesh J. Fernando, Michael L. Boisen, Paul J Hoffman, Daniel J Rosenkrans, Emily Teeter, Alessandra I Cardi, Jeremy Laney, Aaron Reagan, Vidya K. Rao, Michael Anderson, Charles B. Luke, Sudhakar Subramani, Travis Schisler, Peter J Ritchie, Theresa A Gelzinis, The Year in Thoracic Anesthesia: Selected Highlights from 2022, *Journal of Cardiothoracic and Vascular Anesthesia*, 2023.
- Laney J, MD, Szokol J, MD, FASA. Managing COVID-19 in the Perioperative Setting. *APSF Newsletter*. June 2022;37(2):62-63
- Jeremy V. Laney, MD; Thang D. Tran, MD; Arash Motamed, MD. Critical heart rate and left bundle-branch block resolution in anesthesia. *Journal of Anaesthesiology Clinical Pharmacology*. 2020;36(2):282.
- Ayrian E, Sugeir SH, Arakelyan A, Arnaudov D, Hsieh PC, Laney JV, Roffey P, Tran TD, Varner CL, Vu K, Zelman V, Liu JC. Impact of a Perioperative Protocol on Length of ICU and Hospital Stay in Complex Spine Surgery. *J Neurosurg Anesthesiology*. 2019
- Laney J, Fish D, MD. Effect of Magnetic Resonance Imaging Results on the Interpretation of Electromyograms in Patients with Cervical Radiculopathy. *Journal of Investigative Medicine*. 2014;62:251.

Article Acknowledgement

- Acknowledgement in scientific journal for project assistance:
Lisse, T. S., Liu, T., Irmeler, M., Beckers, J., Chen, H., Adams, J. S., & Hewison, M. (2010). Gene targeting by the vitamin D response element binding protein reveals a role for vitamin D in osteoblast mTOR signaling. *The FASEB Journal*, 25(3), 937-947

Leadership Positions

American Society of Anesthesiologists, Cardiothoracic Anesthesia Committee October 2022-current

- National society responsible for improving cardiothoracic anesthesiology practices by implementing evidence-based guidelines and recommendations and hosting educational opportunities

Anesthesiology Dept Representative, Patient Blood Management Committee December 2021-current

- Multidisciplinary committee of administrators and leaders, at Keck Medical Center of USC, responsible for evaluating and implementing safe blood transfusion practices to help optimize patient outcomes and minimize complications

USC KSOM Anesthesiology Dept, Fellowship Interview Committee December 2021-current

- Faculty interviewer for Adult Cardiothoracic Anesthesiology fellowship applicants

USC KSOM Anesthesiology Dept, Residency Interview Committee August 2021- March 2022

- Faculty interviewer for Anesthesiology resident applicants

USC Anesthesiology Chief Resident (Class of 2020) July 2019- June 2020

- Resident administrator; responsible for creating resident schedule and assisting faculty with various duties that enhance the residency program

USC Anesthesiology Class Representative (Class of 2020) July 2016-June 2019

- Act as a representative for the c/o 2020 cohort, attending meetings that influence various changes and policies made for the USC Anesthesiology residency program

Committee of Interns and Residents (CIR) Representative

July 2017-June 2020

- CIR is a union for residents at Los Angeles County Hospital that is responsible for collective bargaining of resident contracts and negotiating benefits for residents to Los Angeles county representatives
- Served as the Anesthesiology spokesperson for the CIR to express our interests, and act as a liaison between the two parties
- Helped secure two rapid infusers for the Anesthesiology dept, worth roughly \$50,000 in total value, through a Patient Care Fund

UCLA DGSOM Teaching Fellowship

August 2015- June 2016

- Fellowship offered to 4th year medical students interested in academic medicine
- 4th year students were required to teach/lead 1st and 2nd year medical students in small group settings with problem-based learning and doctoring courses

Quality Improvement

Sustainability Representative

May 2023-current

- Representative for the anesthesiology department, at Keck Medical Cn in leading projects that improve sustainability efforts
- Modification of central venous catheter kits
- Transitioning from disposable to reusable equipment

Emergency Hemorrhage Panel

January 2022-July 2022

- Multidisciplinary team between anesthesiologists, laboratory scientists and operating room nursing staff; developed a fast-track process for urgent laboratory values during hemorrhage to implement goal-directed transfusion therapies

Alteplase Protocol for Liver Transplant

August 2022

- Developed a protocol for tPA use in liver transplant patients who develop intracardiac thrombi and/or pulmonary thromboembolisms intraoperatively

International Presentations

Cardiac Anesthesiology- Cardiopulmonary Bypass

March 2022

- Dr. V. Zelman institute of Medicine and Psychology Medical School in Novosibirsk, Russia

Lecture Presentations

Tricuspid Valve Anatomy, Pathology & Echocardiography

November 2023

- Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows

Heart Transplantation & Primary Graft Dysfunction

October 2023

- Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows

Basics of Cardiac Anesthesia

August 2023

- Audience- USC medical students

Echocardiography Hemodynamic Measurements & Calculations

August 2023

- Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows

Fluid Management & Blood Transfusions

July 2023

- Audience- Anesthesia Residents (CA1)

Rare Cardiac Diseases Pt 2

March 2023

- Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows

<u>Rare Cardiac Diseases Pt 1</u>	March 2023
<ul style="list-style-type: none"> • Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows 	
<u>The Physics of Ultrasonography</u>	December 2022
<ul style="list-style-type: none"> • Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows 	
<u>Neuroprotection in Cardiac Surgery</u>	October 2022
<ul style="list-style-type: none"> • Audience- Keck Dept of Anesthesiology Cardiothoracic Division fellows 	
<u>Basics of Cardiac Anesthesia</u>	October 2022
<ul style="list-style-type: none"> • Audience- USC medical students 	
<u>Coagulopathy in Cardiac Surgery</u>	August 2022
<ul style="list-style-type: none"> • Audience- Cardiothoracic Anesthesia Fellows 	
<u>Fluid Management & Blood Transfusions</u>	July 2022
<ul style="list-style-type: none"> • Audience- Anesthesia Residents (CA1) 	
<u>The Physics of Ultrasonography</u>	April 2022
<ul style="list-style-type: none"> • Audience- Keck Dept of Anesthesiology Cardiothoracic Division faculty and fellows 	
<u>Mechanical Circulatory Devices Journal club</u>	March 2022
<ul style="list-style-type: none"> • Audience- Keck Dept of Anesthesiology Cardiothoracic Division faculty and fellows 	
<u>Anesthesiology Oral Boards Prep</u>	February 2022
<ul style="list-style-type: none"> • Audience- Anesthesia Residents (CA2 & CA3) 	
<u>Neuroprotection in Cardiac Surgery</u>	January 2022
<ul style="list-style-type: none"> • Audience- Cardiothoracic Anesthesia Fellows • Strategies to prevent neurocognitive deficits/injury during cardiac surgeries 	
<u>Intro to Cardiothoracic Anesthesiology Part 2</u>	October 2021
<ul style="list-style-type: none"> • Audience- Anesthesia Residents (CA1) 	
<u>Intro to Cardiothoracic Anesthesiology Part 1</u>	October 2021
<ul style="list-style-type: none"> • Audience- Anesthesia Residents (CA1) 	
<u>Rescue Transesophageal Echocardiography</u>	February 2021
<ul style="list-style-type: none"> • Audience- Keck USC/LAC+ USC anesthesia departmental grand rounds 	
<u>Complications of Cardiopulmonary Bypass</u>	May 2020
<ul style="list-style-type: none"> • Audience- Keck USC/LAC+ USC anesthesia departmental grand rounds 	

Conference Presentations

<u>Society of Cardiovascular Anesthesiologists (SCA)</u>	May 2022
<ul style="list-style-type: none"> • Case report, "Collapse of the Frozen Elephant Trunk", Allan Yau, MD; Jeremy Laney, MD • Presenter: Allan Yau, MD 	
<u>Society of Cardiovascular Anesthesiologists (SCA)</u>	April 2021
<ul style="list-style-type: none"> • Case report, "Perioperative Optimization of Hemoglobin/Hematocrit and Bleeding Risk Mitigation Strategies in a Jehovah's Witness Undergoing a Fourth-Time Redo Sternotomy/Bentall Procedure", Behrod Katebian MD, Jeremy Laney MD, Mandeep Singh MD • Presenter: Behrod Katebian, MD 	

International Anesthesia Research Society (IARS)

May 2019

- Case report, “Iatrogenic Intrahepatic Thoracostomy Tube in the Intensive Care Unit”, Jeremy Laney, MD; Shihab Sugeir, MD
- Presented by Marie LeClair, MD

Society of Cardiovascular Anesthesiologists (SCA)

May 2019

- 41st Annual Meeting & Workshops
- Case Report, “Cesarean Section in a Parturient with a Single Ventricle and Pulmonary Emboli”, Jeremy Laney, MD, Susan Alvarez, MD, Joshua Ng, MD

California Society of Anesthesiologists (CSA)

March 2019

- Marie Le Clair, MD; Sachin Jha, MD; Eugenia Ayrian, MD; “The Effect of Perioperative Intravenous Acetaminophen on Intraoperative and Postoperative Opioid Use and Pain Scores in Minimally Invasive Spine Surgery”
- Presenter: Jeremy Laney, MD

Anesthesiology 2018, Annual Meeting

October 2018

- Hosted by American Society of Anesthesiologists (ASA)
- Scientific abstract presenter, “Protocolized Perioperative Care for Complex Spine Surgeries and the Resulting Reduction in ICU/Hospital Length of Stay”, Jeremy Laney, MD, D. Arnaudov, MD, P. Roffey, MD, S. Sugeir, MD, T. Tran, MD, C. Varner, MD, K. Vu, MD, V. Zelman, MD, J. Liu, MD, Ayrian, MD. Presentation reviews the outcomes of a new perioperative protocol implemented in complex spine surgeries
- Medically challenging case presenter, “The Forgotten Opioid: Alfentanil Induction in an ASA IV Cardiac Patient”, Jeremy Laney, MD; Jack Berger, MD, PhD; Presentation discusses the difficult anesthetic management and unique induction technique in a patient with multiple cardiac morbidities

Western Anesthesiology Resident Conference

May 2018

- Medically challenging case presenter, “The Forgotten Opioid: Alfentanil Induction in an ASA IV Cardiac Patient”, Jeremy Laney, MD; Jack Berger, MD, PhD; Presentation discusses the difficult anesthetic management and unique induction technique in a patient with multiple cardiac morbidities

Western Student Medical Research Forum

January 2014

- Student presenter, “Effect of Magnetic Resonance Imaging Results on the Interpretation of Electromyograms in Patients with Cervical Radiculopathy” at the annual WSMRF conference in Carmel, CA

Josiah Brown Poster Fair

August 2013

- Student presenter, held at UCLA DGSOM, presented research findings from the UCLA Spine Center involving diagnostic procedure in patients with cervical radiculopathy

Minority Health Conference

October 2012 & 2013

- Attendee at annual conference co-sponsored by Keck School of Medicine of USC, David Geffen School of Medicine at UCLA and Charles Drew University of Health and Medical Sciences, focused on community-based approaches to health justice

Research Experiences

Perioperative Spine Protocol and Reduction in Hospital/ICU Length of Stay

September 2017-June 2019

- USC Keck School of Medicine Department of Anesthesiology
- Establishment of a of protocolized perioperative care in high-risk spine surgery patients and improve clinical outcomes; with Dr. Eugenia Ayrian

HEART Validation Study (Harbor-UCLA)

July 2015-May 2016

- A prospective validation study assessing the effectiveness of the HEART score in predicting Major Adverse Cardiac Events (MACE) and reducing excess cardiac testing in low-risk chest pain patients; with Kabir Yadav, MD

Diagnostics in Cervical Radiculopathy (UCLA Spine Center) July 2013-January 2014

- Evaluated the efficacy of Electromyogram (EMG) in concordance with Magnetic Resonance Imaging (MRI) in diagnosing cervical radiculopathy by analyzing patient results and examining order effects, under David Fish, MD
- Received funding from the Short-Term Training Program (STTP) at UCLA

UCLA, Department of Molecular, Cell and Developmental Biology June 2010-August 2010
Student Research Assistant

- Studied the hereditary patterns of various genetic mutations in *drosophila* (fruit flies) under Dr. John Merriam, at. Daily tasks included cross mating various breeds of flies and tallying offspring based on phenotypic characteristics

UCLA, Orthopaedic Hospital Research Center April 2009-November 2009
Student Research Assistant

- Studied a hereditary form of vitamin D resistance by examining the function of the vitamin D binding protein in bone cells under Thomas Lisse, PhD and Martin Hewison, PhD
- Performed PCRs, cell culturing, cell cloning and western blots

Awards and Achievements

USC Marshall School of Business Scholarship February 2023

- Merit-based scholarship awarded to select admits for the Executive MBA program

USC Anesthesiology Program Director's Award June 2020

- Awarded to residents who display strong work ethic, clinical prowess and excel throughout their training experience

UCLA DGSOM '98 Scholarship in International Health April 2016

- Established by Dr. Joseph Copeland, awarded to medical students attending who may be interested in global health but have limited exposure, allowing them to pursue global health electives

Letter of Distinction in Psychiatry Clerkship Spring 2015

- Letters of Distinction are awarded to Medical Students who excel in a particular clerkship rotation, students must exceed a particular percentile on the SHELF exam and received outstanding clerkship evaluations

Miller-Lawrence Medical & Dental Society Scholarship November 2014

- Awarded to medical and dental students for outstanding academic achievement and commitment to providing excellent health care to the poor and underserved members of the community

California Legislature Assembly, Certificate of Recognition November 2014

- For outstanding academic achievement and commitment to providing health services to the underserved community

Jessie Barber, Jr., MD Memorial Scholarship June 2014

- Dr. Jessie Barber was a noted African American neurosurgeon and a professor of social medicine, the National Medical Association awards scholarship to students with academic prowess and a commitment to underserved medicine

Volunteer and Community Service Activities

Physical Medicine & Rehabilitation Interest Group April 2013-April 2014

Coordinator

- Coordinate events that expose medical students to PM&R, providing opportunities for mentorship and clinical experience within the field

Pre-hab/Free-hab, Coordinator

- Managed medical student volunteers at the OPCC homeless clinic in Santa Monica in providing care to patients with musculoskeletal issues, students shadowed PM&R physicians learning physical exam techniques and providing care to the homeless at OPCC in Santa Monica

Student National Medical Association

MAPS (Minority Association of Pre-Medical Students) Coordinator

April 2013-April 2014

- SNMA is a medical student organization that promotes cultural diversity amongst health fields and providing quality healthcare to underserved communities
- MAPS coordinator position manages the mentorship component of the chapter, mentoring pre-medical students with the intention of helping to facilitate their path to medicine and increasing diversity in healthcare

Project Santa Claus, Volunteer

December 2012 & 2013

- Distributed goods to underserved children in the Watts-Willowbrook community area (in Los Angeles) during the Christmas season

Anatomy Dissection Program

July 2013-August 2013

- Dissected human cadavers for incoming first year medical students at UCLA David Geffen School of Medicine

Partnership 4 Progress

Coordinator

August 2012-May 2014

- A student run mentorship program within the CDU, College of Medicine
- Mentored students at King Drew Medical Magnet High School and programmed events that involved SAT workshops, college readiness workshops and teaching clinical physical exam skills
- Helped raise money to provide selected students to receive P4P scholarship funds

Synergy Health Fair

Hosted by the UCLA/CDU chapter of the Student National Medical Association annually, the Synergy Health Fair provides free health services to minority communities in South Los Angeles, held at Holman United Methodist Church and Macedonia Baptist Church

Volunteer

17 November 2012

5 October 2013

- Recorded patient vital signs and BMIs, provided hypertensive counseling and resources for free healthcare
- Registered people to a bone marrow registry via "Be the Match"