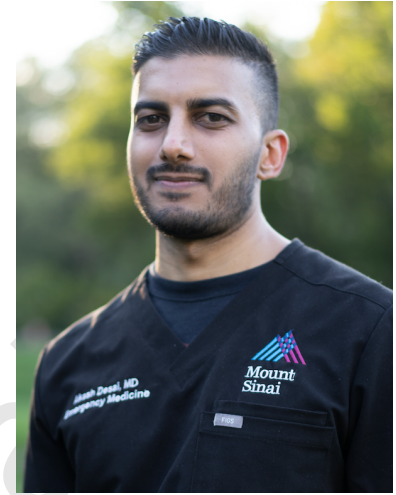


# Akash Desai, MD, FACEP

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## **SUMMARY OF EXPERTISE**

*Board certified emergency medicine physician in active clinical practice in California. Inaugural Director of Emergency Ultrasound at the University of California, San Diego East Campus with active role in quality assurance and case review for point-of-care ultrasound exams. Completed residency training at the Mount Sinai Hospital in New York City, and fellowship training in Advanced Clinical Bedside Ultrasound at Highland Hospital in Oakland, CA. Ample teaching and leadership experience at national meetings including the American College of Emergency Physicians (ACEP), Society for Academic Emergency Medicine (SAEM), and Council of Residency Directors (CORD) in Emergency Medicine. Published author on topics including health care power of attorney and point-of-care emergency ultrasound. Editor of the 2022 American Board of Emergency Medicine EM Model which outlines the official standards-of-training for emergency medicine residencies across the United States. Former Chair and Vice Chair of the Emergency Medicine Residents' Association (EMRA) Ultrasound Committee and International Committee, respectively.*



## **EDUCATION**

- |  |                                   |
|--|-----------------------------------|
| <b>Fellow in Advanced Clinical Bedside Ultrasound</b><br>Highland Hospital - Alameda Health System, <i>Oakland, CA</i> | <b>August 2022 – July 2023</b>    |
| <b>Emergency Medicine Resident Physician</b><br>Icahn School of Medicine at Mount Sinai, <i>New York City, NY</i>      | <b>July 2018 – June 2022</b>      |
| <b>Doctor of Medicine</b><br>Keck School of Medicine of the University of Southern California, <i>Los Angeles, CA</i>  | <b>August 2014 – May 2018</b>     |
| <b>Bachelor of Science, Psychobiology</b><br>University of California Los Angeles, <i>Los Angeles, CA</i>              | <b>September 2008 – June 2012</b> |

## **EMPLOYMENT**

- |  |                               |
|--|-------------------------------|
| <b>Director of Ultrasound, Emergency Medicine Physician</b><br>University of California, San Diego East, <i>San Diego, CA</i> <ul style="list-style-type: none"><li>Performing quality assurance, feedback, and managerial duties for point-of-care ultrasound</li></ul> | <b>January 2024 - Present</b> |
| <b>Emergency Medicine Physician, Per Diem</b><br>Southern California Permanente Medical Group, <i>San Diego, CA</i> <ul style="list-style-type: none"><li>KP San Diego Zion, SDMC, and San Marcos campuses</li></ul>   | <b>August 2023 - Present</b>  |

- Emergency Medicine Physician, Per Diem** **October 2022 - Present**  
 Kaiser Permanente East Bay, *Oakland & Richmond, CA*
- Flagship medical center for Kaiser Permanente
- Fellow in Advanced Clinical Ultrasound** **August 2022 – July 2023**  
 Highland Hospital - Alameda Health System, *Oakland, CA*
- Level 1 Trauma Center, Public Hospital
- Emergency Medicine Physician, Per Diem** **January 2023 – June 2023**  
 Sutter Delta Medical Center, *Antioch, CA*
- North Bay Area Community Hospital
- Emergency Medicine Resident Physician** **July 2018 – June 2022**  
 Icahn School of Medicine at Mount Sinai, *New York City, NY*
- The Mount Sinai Hospital – Quaternary care center
  - Elmhurst Hospital – Level 1 Trauma center, Public Hospital
  - Beth Israel Hospital – Urban community hospital
- Research Coordinator, Staff** **October 2012 – August 2014**  
 Memory and Aging Center, University of California San Francisco, *San Francisco, CA*

## **NATIONAL ACADEMIC EXPERIENCE**

- Society of Academic Emergency Medicine Meeting 2023** **May 2023**  
 Faculty Instructor: Ultrasound Guided Nerve Block Workshop, *Austin, TX*
- Instructor for hands-on session for lower extremity nerve blocks
- American College of Emergency Physicians Conference 2022** **October 2022**  
 Faculty Instructor: 10 Ultrasound Applications for Your Community ED Gig, *San Francisco, CA*
- Instructor for three 2-hour ultrasound sessions teaching and demonstrating 10 common bedside ultrasound applications to community ED physicians
- Council Of Residency Directors in Emergency Medicine 2021** **March 2021**  
 Panel Moderator and serving EMRA International Committee Vice Chair, *Virtual*
- Chaired and moderated an EMRA Ultrasound Committee panel of leaders in academic emergency ultrasound to discuss career paths and mentorship within the field
- American Board of Emergency Medicine EM Model, Ultrasound Section** **February 2021**  
 Editor
- As the Emergency Medicine Resident’s Association representative to ABEM, I participated in live discussion and proposed edits to the Ultrasound Section of the 2022 version of ABEM’s official EM Model

- Rapid Fire Ultrasound at ACEP2020 Unconventional** **October 2020**  
 Panel Moderator and Serving EMRA Ultrasound Committee Chair, *Virtual Interface*
- Converted an originally planned nerve block workshop to facilitate a live EM ultrasound rapid-fire didactic lesson featuring leaders in academic emergency ultrasound with >150 participants
- Council Of Residency Directors in Emergency Medicine 2020, Panel Moderator** **March 2020**  
 Panel Moderator and EMRA Ultrasound Committee Chair, *New York, NY*
- Chaired and moderated an EMRA Ultrasound Committee panel of leaders in academic emergency ultrasound to discuss career paths and mentorship within the field
- Ultrasound, Pediatrics, and Simulation Interactive Workshop** **October 2019**  
 Workshop Instructor and EMRA Ultrasound Committee Chair-Elect, *Denver, CO*
- Planned and executed an interactive EM ultrasound educational workshop as part of the EMRA Ultrasound Committee using live models and simulation-based didactics
- Council Of Residency Directors in Emergency Medicine Academic Assembly 2019** **March 2019**  
 Moderator of Handheld Ultrasound: The Future is in Our Hands, *Seattle, WA*
- Organized a live comparative demonstration for novel portable handheld ultrasound technology
- Society of Academic Emergency Medicine Western Regional Meeting, Presenter** **April 2017**  
 Abstract Presentation, *Palo Alto, CA*
- Presented quality improvement research on patient flow in LAC+USC ED

## **LECTURES**

- 1. Ultrasound-Guided Paracentesis** **June 2023**  
 Highland Hospital Emergency Medicine Residency
  - Faculty instructor for US-guided paracentesis
- 2. Nerve Blocks** **May 2023**  
 Highland Hospital Emergency Medicine Residency
  - Faculty instructor for US-guided femoral nerve, distal sciatic, posterior tibial nerve blocks
- 3. Arthrocentesis** **April 2023**  
 Highland Hospital Emergency Medicine Residency
  - Faculty instructor for US-guided shoulder, wrist, hip, knee, ankle arthrocentesis
- 4. Pelvic Ultrasound** **March 2023**  
 Highland Hospital Emergency Medicine Residency
  - Faculty instructor for transabdominal/transvaginal pelvic ultrasound
- 5. eFAST** **August 2022**  
 Highland Hospital
  - Conferenced small group lecture on eFAST for all residents

- 6. Echocardiography for Beginners** **July 2022**  
 Highland Hospital
- Instructed incoming emergency medicine interns on bedside Echocardiography
- 7. Morning Report** **December 2019 – June 2022**  
 Ichan School of Medicine of Mount Sinai
- Beta Blocker Toxicity*
  - Acute Aortic Dissection*
  - Venous Sinus Thrombosis*
  - Pacemaker Migration*
  - Hyponatremia*
  - Penetrating Neck Trauma*
- 8. Morbidity and Mortality Conference** **February 2019 – June 2022**  
 Ichan School of Medicine of Mount Sinai
- Pulmonary Embolism*
  - Testicular Torsion*
  - Ectopic Pregnancy or Active Delivery?*
  - Post-traumatic Seizure*
  - Peri-intubation Complications*
- 9. Haiti NEXUS, Course Instructor** **September 2019**  
 Ichan School of Medicine of Mount Sinai
- Taught a skills instruction course to teach 4<sup>th</sup> year medical students pre-hospital skills for traumatic injuries, long bone fractures and in-field hemorrhage, in order for them to make videos and instruct their Haitian counterparts
- 10. Academic Coach** **September 2015 – June 2016**  
 Keck School of Medicine of USC
- Mentored and personally tutored junior medical students requesting academic assistance
- 11. Peer Learning Facilitator in Mathematics** **September 2010 – June 2012**  
 Academic Advancement Program at UCLA
- Achieved a 100% pass rate for UCLA undergraduates coming from low-income and underrepresented communities by creating and teaching proprietary lessons in Statistics, Pre-Calculus/Trigonometry and Multivariable Calculus

## **LEADERSHIP & SERVICE**

- International Committee, Vice Chair** **March 2021 – March 2022**  
 Emergency Medicine Residents Association
- Developed a Global EM opportunity catalog and produced informative programming on the present and future of Global EM at nationwide conferences
- Emergency Ultrasound Committee, Chair/Chair-Elect** **March 2019 – March 2021**  
 Emergency Medicine Residents Association
- Led a national committee of over 400 residents along with ultrasounds trained EM faculty, fellows, and academic leadership nationwide to produce emergency ultrasound content and execute assembly meetings at the annual EM conferences for CORD and ACEP

**POCUS for the Win, Co-Creator****December 2020**

EM Resident Journal

- Co-creator, lead editor and writer for an online, publicly sourced case series showcasing the ability of bedside ultrasound in impacting patient care; [www.emra.org/emresident](http://www.emra.org/emresident)

**Medical Student Provider****Fall 2015 – Spring 2018**Healing Hearts Across Borders, *Tijuana, Mexico*

- Worked alongside undergraduates, residents, and faculty from medical, dentistry and pharmacy schools across Southern California to provide acute and long-term primary care to two underserved homeless communities in Tijuana, Mexico on a quarterly basis

**Sports Medicine Interest Group, Co-President****September 2015 – June 2016**

Keck School of Medicine of USC

- Organized Emergency Rescue training with the Los Angeles Sheriff's department and EMS service during local high school football games, held musculoskeletal injury and physical exam workshops, and tour of LA Dodgers' training facilities

**USC Student National Medical Association Chapter Secretary****September 2015 – June 2016**

Keck School of Medicine of USC

- Moderated discussions on social determinants of health within the medical school and helped lead a heart dissection workshop for a local low-income community elementary school with the "Tom Bradley Mini-Medical School"

**Health Policy Student Interest Group, Board Member****September 2015 – June 2016**

Keck School of Medicine of USC

- Coordinated lunchtime lectures/discussions and monthly "Policy and a Pint" gatherings to review current health policy initiatives and their impact on healthcare delivery and access

**Triage Medic****March 2015, March 2017**

Los Angeles Marathon

- Teamed with healthcare professionals and the LAC+USC Emergency Medicine Department to triage and treat LA Marathon runners

**Dhablania and Kim Family Global Medicine, Fellow**Service-Learning Project, *24 de Diciembre, Panama*

- Completed an 8-day service-learning project in Panama working with and vector control specialists to identify and eliminate public health in the low-resource community of 24 de Diciembre

## **PUBLICATIONS WITH CO-AUTHORSHIP**

1. Howell, K., **Desai, A.**, Martin, D., & Nagdev, A. (2023, September 7). *How to safely incorporate ultrasound into cardiac arrest resuscitation - page 3 of 4*. ACEPNow. <https://www.acepnow.com/article/how-to-safely-incorporate-ultrasound-into-cardiac-arrest-resuscitation/3/>
2. Berrin LL, Howell K, Foote A, Mullings J, **Desai A**, Montgomery M, Barbant S, Nagdev A. Spontaneous Coronary Sinus Thrombosis Detected by Point-of-care Transthoracic Echo: A Case Report. *Clin Pract Cases Emerg Med*. 2023 Aug;7(3):193-196. doi: 10.5811/cpcem.1590. PMID: 37595305; PMCID: PMC10438941.
3. Nagdev, A., Howell, K., **Desai, A.**, Martin, D., & Mantuani, D. (2023, January 6). *How to build an ultrasound-guided nerve block program*. ACEP Now. <https://www.acepnow.com/article/how-to-build-an-ultrasound-guided-nerve-block-program/>
4. Biavati, M., Hubbard, D., Freudenberger, J., **Desai, A.**, & Montrief, T. (2020, September 30). *Can Transcranial Doppler be useful in the ED? A review of the literature*. EMRA. <https://www.emra.org/emresident/article/transcranial-doppler/>.
5. Giwa, A., **Desai, A.**, & Duca, A. (2020, March 24). Novel 2019 Coronavirus SARS-CoV-2 (Covid-19): An Updated Overview for Emergency Clinicians. *Emergency Medicine Practice*, 22 (5) PMID: 32207910
6. Giwa, A., **Desai, A.**, (2020, February 27). Novel Coronavirus COVID-19: An Overview for Emergency Clinicians. *Emergency Medicine Practice*, 22 (2 Suppl 2) PMID: 32105049
7. VanNatta, K., Lieu, E., **Desai, A.**, Southgate, S., Freudenberger, J., & Liu, R., (2020, October 9). *Lung Ultrasound in Covid-19*. EMRA. <https://www.emra.org/emresident/article/lung-us-in-covid/>.
8. VanNatta, K., Freudenberger, J., **Desai, A.**, (2020, December 1). *POCUS for the Win: Popliteal Artery Occlusion*. EMRA. <https://www.emra.org/emresident/article/pocus-in-popliteal-artery-occlusion/>.
9. **Desai, A.** (2019, June 3). Power of Attorney. Retrieved from <http://www.ncbi.nlm.nih.gov/books/NBK542309/>
10. Guha, A., Wang, L., Esmaceli-Firidouni, P., Wendelken, L.A., Busovaca, E., **Desai, A.**,... Valour, V. (2015). Intrinsic network connectivity abnormalities in HIV-infected individuals over age 60, *Journal of NeuroVirology J. Neurovirol.*, 22(1), 80-87. doi:10.1007/s13365-015-0370-y
11. Jahanshad, N., Couture, M., Prasitsuebsai, W., Nir, T. M., Aupibul, L., Thompaons, P. M., Pruksakaew, K., Lerdlum, S., Visrutaratna, P., Catella, S., **Desai, A.**,... Valcour, V. G. (2015). Brain Imaging and Neurodevelopment in HIV-uninfected Thai Children Born to HIV-infected Mothers. *The Pediatric Infectious Disease Journal*, 34(9). doi:10.1097/inf.0000000000000774
12. Sailasuta, N., Ananworanich, J., Lerdlum, S., Sithinamsuwan, P., Fletcher, J. L., Tipsuk, S., Pothisri, M., Jadwattanakul, T., Jirajariyavej, S., Chalermchai, T., Catella, S., Busovaca, E., **Desai, A.**,... Valcour, V. (2015). Neuronal-glia markers by Magnetic Resonance Spectroscopy in HIV Before and After Combination Antiretroviral Therapy. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 1. doi:10.1097/qai.0000000000000779

## **PUBLICATIONS WITH COLLABORATOR ACKNOWLEDGEMENT**

1. Valcour, V. G., Spudich, S. S., Sailasuta, N., Phanuphak, N., Lerdlum, S., Fletcher, J. L.,...Ananworanich, J. (2015). Neurological Response to cART vs. cART plus Integrase Inhibitor and CCR5 Antagonist Initiated during Acute HIV. *PLOS ONE PLoS ONE*, 10(11). doi:10.1371/journal.pone.0142600
2. Kore, I., Anaworanich, J., Valcour, V., Fletcher, J. L., Chalermachai, T., Paul, R.,...Spudich, S. (2015). Neuropsychological Impairment in Acute HIV and the Effect of Immediate Antiretroviral Therapy. *JAIDS Journal of Acquired Immune Deficiency Syndromes*, 70(4), 393-399. doi:10.1097/qai.0000000000000746

## **ORAL PRESENTATIONS**

1. **Desai, A. R.**, Mallett, S., Montero, S., DeNunzio, S., Sanchez, C., Wei, E. *The Impact of Rapid Patient Registration on Emergency Department Flow*. Abstract presented at the Western Regional Meeting for the Society of Academic Emergency Medicine; April 8<sup>th</sup>, 2017; Stanford University, Palo Alto, CA
2. **Episode 37: Novel Coronavirus COVID-19: March 2020: An Overview for Emergency Clinicians featuring Drs. Al Giwa and Akash Desai**

## **RESEARCH EXPERIENCE**

### **Quality Improvement Researcher**

**February 2015 – March 2017**

Los Angeles County Hospital Emergency Department

**Mentor: Dr. Eric Wei, MD, MBA**

- Analyzed quality improvement metrics to measure the impact of LEAN process improvement tools on patient wait times and outcomes in an urban safety-net high-volume setting

### **Staff Research Coordinator**

**October 2012 – June 2014**

Memory and Aging Center, University of California San Francisco

**Mentor: Victor Valcour, M.D., Ph.D.**

- Full-time research coordinator and manuscript writer for multiple international multi-center studies examining the cognitive impact of both acute and chronic HIV infection in pediatric and adult populations

### **Research Associate**

**March 2012 – October 2012**

Rissman Memory Lab, University of California Los Angeles

**Mentor: Jesse Rissman, Ph.D.**

- Developed and executed a reasoning, perception, and memory fMRI study to decode the neural circuitry behind higher order cognitive processing in humans

## **AWARDS**

### **Dhablania and Kim Family Global Medicine Fellowship**

1 in 15 recipients

Funded Panama Service Learning Project

**April 2015**

### **UCLA Dean's List**

Henry Samueli School of Engineering and Applied Science

College of Letters and Science

**2008-2009**

**2009-2012**

### **National Merit Scholar**

1 of 8,300 recipients out of approximately 1.5 million USA high school students

**2008**

## **PROFESSIONAL MEMBERSHIPS**

**American Board of Emergency Medicine**

**2022 - Present**

**American College of Emergency Physicians**

**2018 - Present**

**Society of Clinical Ultrasound Fellowship**

**2022 – 2023**

**Emergency Medicine Residents Association**

**2018 - 2022**

**American Medical Association**

**2014 – 2018, 2020-Present**

**Student National Medical Association**

**2014 - 2018**