

**Kyle Barbour**  
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## Education

- **University of California, Irvine School of Medicine** Irvine, CA  
*MD (expected)* 2018
  - Gold Humanism Honor Society
  - Committee member: Honors and Promotions; Peer Review (elected conflict resolution body); Associated Medical Student Government
  - Emergency Medicine Interest Group: Senior Student Advisor (2017 – 2018), VP Advising (2016 – 2017), VP Operations (2015 – 2016)
  - Electives: Intermediate Spanish, Ultrasound, Social Medicine, and Medical Humanities
- **University of California, Berkeley** Berkeley, CA  
*BA, Molecular and Cell Biology, Neurobiology Emphasis; GPA: 3.97* 2012
  - Highest distinction in general scholarship
  - Honors in Molecular and Cell Biology, research thesis: “Long-term effects of neonatal sevoflurane on recognition memory in rats,” Stratmann Laboratory

## Experience

- **Orange County Needle Exchange Program (OCNEP)** Santa Ana, CA  
*Founder, Board of Directors and Steering Committee Member* October 2014 – Present
  - Led and designed the implementation of the first needle exchange in Orange County, raising over \$170,000, ensuring financial and organizational sustainability, earning 501(c)(3) nonprofit status, building relationships with city authorities, public health, media, police, and other key stakeholders, and becoming the first program to be certified by the California Department of Public Health
  - Oversaw cultural, logistical, operational, financial, overdose prevention, community engagement, and media program arms; all organized on democratic lines
  - Built strong community coalition of injection drug users, homeless individuals, faculty, community members, elected officials, law enforcement, students, neighborhood organizations, and other needle exchanges to develop program while maintaining a strong harm reduction orientation
  - Established multiple public health research studies regarding efficacy of needle exchanges on improving safe disposal of used needles, understanding needs of injection drug users, and building naloxone distribution overdose prevention programs
- **San Francisco Suicide Prevention** San Francisco, CA  
*Hotline Counselor* August 2012 – July 2014
  - Trained new counselors, provided emotional support and emergency intervention for individuals from around the world in suicidal and mental health crises via telephone and internet chat counseling
  - Provided social service referrals, HIV/AIDS-related emotional support, and substance use support through the 211, San Francisco Behavioral Health Access, HIV/AIDS Nightline, and Drug and Relapse hotlines
- **Marin General Hospital Emergency Department** Greenbrae, CA  
*Emergency Department Technician* July 2012 – July 2014
  - Provided emergency medical care, assessment, and assistance with triage of patients in a team-based emergency department and trauma center
  - Frequently practiced skills included patient assessment, triage assistance, wound care, splinting, ECGs, patient monitoring, and assistance with sterile procedures, among other skills

- Bay Area Mountain Rescue Unit (BAMRU)** Stanford, CA  
*EMT, Operations Officer, Field Member* *May 2011 – July 2014*

  - Third highest ranking unit member, responsible for overseeing the safety, efficacy, and efficiency of all BAMRU operations
  - Operations leader and active member on missing person and evidence search missions in mountainous, high altitude, snow and ice, wilderness, and urban environments
  - Thousands of hours of searches and trainings, fully endorsed in all wilderness search techniques, leader of technical rescue, search operations, and wilderness travel trainings; member of the technical standards committee, former maintainer of unit activity records
- Black Rock City Emergency Services** Black Rock City, NV  
*EMT, 911 Dispatcher* *August – September 2011 – 2015*

  - Treat medical emergencies in the field and clinic at Burning Man, a 50,000+ person event in the Nevada desert
  - 911 dispatcher for medical, fire, and law enforcement emergencies
- University of California, San Francisco Department of Anesthesia** San Francisco, CA  
*Research Assistant, Stratmann Laboratory* *October 2010 – May 2012*

  - Designed, managed, and executed a research project on the effects of neonatal sevoflurane on postnatal neuron development
  - Collaborator on several projects related to the long-term neurocognitive and memory effects of neonatal general anesthesia in rats
  - Techniques included tissue preparation and examination, animal handling, and multiple behavioral and cognitive testing tasks, among others
- California Explorer Search and Rescue** San Mateo, CA  
*EMT, Search and Rescue Technician* *September 2005 – May 2012*

  - Team leader and active member on missing person search missions in wilderness and urban environments; promoted to Certified Member, highest unit rank
  - Completed over 400 hours of searches and training, including specialized training in navigation and search strategy

## Academic publications

1. **Barbour K**, Peña J (2017). Pediatric pulmonary abscess. *Journal of Education and Teaching in Emergency Medicine*. In revision.
2. **Barbour K**, McQuade M, Brown B (2017). Students as effective harm reductionists and needle exchange organizers. *Substance Abuse Treatment, Prevention, and Policy*, 12(1): 15. doi: 10.1186/s13011-017-0099-0
3. Stratmann G, Lee J, Sall JW, . . . , **Barbour K** (22/34), . . . Ghetti S (2014). Effect of general anesthesia in infancy on long-term recognition memory in humans and rats. *Neuropsychopharmacology*, 39(10): 2275 – 2287. doi: 10.1038/npp.2014.134
4. Ramage TM, Chang FL, Shih J, . . . , **Barbour K** (7/20), . . . Sall JW (2013). Distinct long-term neurocognitive outcomes after equipotent sevoflurane or isoflurane anesthesia of immature rats. *British Journal of Anaesthesia*, 110(S1): i39 – i46. doi: 10.1093/bja/aet103

## Other publications

1. **Barbour K**. Landmark decision opens first needle exchange in conservative Orange County. *Huffington Post*, February 13, 2016.
2. **Barbour K**. Harm reduction is essential to combat the addiction epidemic. *Huffington Post*, October 22, 2015.

## Selected presentations

1. **Barbour K**, McQuade M, Somasundaram S, Chakravarthy B. Facilitating an emergency department take-home naloxone program through involvement of community-based harm reductionists. Presenter. American College of Emergency Physicians Scientific Assembly, Washington DC, 2017. Abstract in *Annals of Emergency Medicine*, 70(4): S168. doi: 10.1016/j.annemergmed.2017.07.310

2. **Barbour K**, McQuade M. Building a needle exchange in the desert: community, legal, and operational aspects of the Orange County Needle Exchange Program (OCNEP). Presenter. National Harm Reduction Conference, San Diego, 2016.
3. Showalter D, **Barbour K**, Wilson B. Volunteers, collectives, and outlaws: supporting informal harm reduction in a period of partial mainstreaming. Roundtable presenter. National Harm Reduction Conference, San Diego, 2016.
4. **Barbour K**, McQuade M, Alarcón J, Ewald I, Brown B. Obstacles in harm reduction implementation: lessons from founding the Orange County Needle Exchange Program. Presenter. American Public Health Association Annual Meeting, Chicago, 2015.
5. McQuade M, **Barbour K**, Alarcón J, Ewald I, Brown B. Clean needles save lives: a conversation about needle exchange. Presenter. Substance Use Disorders Statewide Conference, Garden Grove, 2015.

## Teaching

1. Harm reduction, structural violence, and student activism. Guest lecturer. California State University, Fullerton Department of Sociology, Fullerton, 2017.
2. Sexually transmitted infections and HIV/AIDS. Guest lecturer. East Los Angeles College, Los Angeles, 2017.
- 3–4. Introduction to harm reduction and needle exchange. Guest lecturer. University of California, Irvine Department of Anthropology, Irvine, Mar 2016, Nov 2016.
5. Harm reduction as solidarity in practice. Guest lecturer. University of Southern California School of Social Work, Irvine, 2016.
- 6–7. Culturally-aware harm reduction practices with people who use drugs and sex workers. Instructor. Orange County Needle Exchange Program training seminar, Irvine, 2015, 2016.
8. FAST scan. Instructor. Ultrafest, University of California, Irvine School of Medicine, Irvine, 2016.
9. Ultrasound elective. Course instructor. University of California, Irvine School of Medicine, Irvine, 2015 – 2016.
10. Cardiac ultrasound. Instructor. Ultrafest, University of California, Irvine School of Medicine, Irvine, 2015.
11. Harm reduction and needle exchange mentorship. Instructor. Orange County Needle Exchange Program, Santa Ana, 2015 – present.

## Selected media interviews

1. Carreon, Mary. Piercing the problem: Orange County's first needle exchange tries to bring hope to a wretched situation. Front page interview. *Orange County Weekly*, January 5, 2017.
2. Chandler, Jenna. Fatal drug overdoses reach 10-year high in Orange County. Interview. *Orange County Register*, May 16, 2016.
3. Banerjee, Dhruva. Kyle and Marissa, Orange County Needle Exchange Program. Radio interview. *PILLS*, KUCI, March 1, 2016.
4. Kandil, Caitlin Yoshiko. County gets its first needle-exchange program; Orange County just launched its first clean-needle exchange. Interview. *Los Angeles Times*, February 19 & 23, 2016.
5. Chandler, Jenna. Volunteers to distribute clean needles to drug users in Santa Ana. Interview. *Orange County Register*, February 16, 2016.
6. Carreon, Mary. OC makes history with first needle exchange program. Interview. *Orange County Weekly*, February 16, 2016.
7. Rodriguez, Sal. O.C. overdue for a needle-exchange program. Interview. *Orange County Register*, October 27, 2015.
8. Newell, Shane. State denies county's first needle exchange program in Santa Ana; organizers might appeal. Interview. *Orange County Register*, July 7, 2015.
9. Iverson, Dave. In My Experience: Emergency Responders. Panelist. *NPR Forum*, KQED, June 7, 2013.

## Organizational grants and awards

- **AIDS United Syringe Access Fund**, 2017: Awarded \$35,000 over two years to continue and expand OCNEP's mission
- **Most Influential Student Group**, UC Irvine, 2017: OCNEP elected by the Associated Medical Student Government and student body for its work preventing HIV and opiate overdoses
- **Engage UCI Campus/Community Partnership Award**, 2017: Awarded to one organization annually for exceptional work in service of their community
- **California Syringe Exchange Supply Clearinghouse grant**, 2016: Over \$120,000 in supplies awarded to OCNEP in sustainable, annual funding for its harm reduction work
- **Most Influential Student Group**, UC Irvine, 2016: OCNEP elected by the Associated Medical Student Government and student body for its work preventing HIV and opiate overdoses
- **California Medical Association Foundation Medical Student Community Leadership Grant**, 2016: Awarded to OCNEP for outstanding community service and leadership
- **Elizabeth Taylor AIDS Foundation Grant**, 2015: Over \$20,000 awarded to OCNEP for its work preventing HIV and opiate overdoses
- **California Medical Association Foundation Medical Student Community Leadership Grant**, 2015: Awarded to OCNEP for outstanding community service and leadership

## Personal scholarships and awards

- **MacKenzie Family Scholarship**, 2017: Awarded to up to 30 senior medical students dedicated to service and general medicine
- **Gold Humanism Honor Society**, 2017: Awarded to senior medical students for demonstrated excellence in clinical care, leadership, compassion, and dedication to service
- **MacKenzie Family Scholarship**, 2016: Awarded to up to 30 senior medical students dedicated to service and general medicine
- **Arnold P. Gold Foundation Student Summer Fellowship**, 2015: Awarded for outstanding community service and leadership in public health
- **1st Place, UC Irvine School of Medicine Annual Creative Writing Contest**, 2015: Awarded for *Two Months*, a poem published in Plexus, the UC Irvine Health humanities journal
- **Setting a Higher Standard Award**, BAMRU, 2013: Awarded for leadership and commitment to mountain rescue
- **Summer Undergraduate Research Fellowship**, UC Berkeley, 2011: Awarded to selected undergraduate researchers for full-time independent summer research projects
- **Biology Fellows Program, Spring 2011**, UC Berkeley: Given to selected undergraduate researchers
- **Biology Fellows Program, Fall 2011**, UC Berkeley: Given to selected undergraduate researchers
- **Alumni Association Leadership Award 2011 – 2012**, UC Berkeley: Given to selected undergraduates based on demonstrated leadership
- **Alumni Association Leadership Award 2010 – 2011**, UC Berkeley: Given to selected undergraduates based on demonstrated leadership
- **Manfred O. Naumann Award**, CCSF, 2010: Faculty nominated, given annually to top organic chemistry student
- **Chester Crowell Scholarship**, CCSF, 2010: Awarded to one student per year for academic achievement
- **Victor Hoy Sen Chow Scholarship**, CCSF, 2010: Awarded to one biology student per year for academic achievement
- **Edwin Gin Memorial Scholarship**, CCSF, 2010: Awarded to one lab aide or biotechnology student per year for academic achievement

- **National Science Foundation STEM Scholarship**, CCSF, 2009: Awarded to selected science students for academic achievement
- **Carl Royce Memorial Scholarship**, CCSF, 2009: Faculty nominated, given to one selected mathematics student per semester

## Certifications, skills, and memberships

**Professional memberships:** American Academy of Emergency Medicine (2014); American Public Health Association (2015); American College of Emergency Physicians (2016)

**Medicine and mental health:** Emergency Medical Technician, former (NREMT #B2085593, CA EMT #E086820); Wilderness First Responder, former; Applied Suicide Intervention Skills Training certified; trained suicide hotline counselor

**Search and rescue:** CalOES Type 1 alpine rescue resource; Mountain Rescue Association team member; Managing the Lost Person Incident certified; FCC amateur radio licensed (Technician 2, KJ6MHY); FEMA ICS 100, 200, and NIMS 700; San Mateo County Sheriff and CalEMA sworn disaster service worker

**Research:** Proficient in survey methodology; consent procedures; naloxone training and distribution; harm reduction techniques; subject recruitment in marginalized and underserved populations; IRB procedures; statistics

**Software:** Ubuntu and Debian GNU/Linux, LaTeX, HTML/CSS; webmaster and postmaster for the Orange County Needle Exchange Program and the UC Irvine Emergency Medicine Interest Group