

# Nicklaus P. Brandehoff, MD

Nicklaus.brandehoff@cuanschutz.edu

## Work Experience

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|---|--------------------------------|
| • <b>Advanced Hazmat Life Support</b><br>Regional Director, Region 8  | January, 2022 – Present        |
| • <b>Emergency Physician</b><br>Denver Health Attending Physician   | August 2020 – Present          |
| • <b>Assistant Clinical Professor of Emergency Medicine</b><br>University of Colorado School of Medicine, Aurora, Colorado                  | March 2020 – Present           |
| • <b>Medical Toxicologist</b><br>Toxicology Associates, Denver Colorado   | February 2020 – Present        |
| • <b>Emergency Physician</b><br>Enloe Medical Center, Chico, CA   | January 2020 - Present         |
| • <b>Volunteer Faculty of Medical Toxicology</b><br>Rocky Mountain Poison and Drug Center, Denver, Colorado                                 | January 2019 – Present         |
| • <b>Remote Medical International</b><br>Topside Physician Consultant   | August 2020 – March 2022       |
| • <b>Medical Director</b><br>Snakebite Management Solutions, Seattle, WA  | January 2020 – March 2021      |
| • <b>Emergency Physician</b><br>Emergency Physicians of the Rockies, Fort Collins, Colorado   | February 2020 - September 2021 |
| • <b>Assistant Clinical Professor of Emergency Medicine/Medical Toxicology</b><br>University of California San Francisco-Fresno, Fresno, CA | July 2018 – January 2020       |
| • <b>Clinical Instructor of Emergency Medicine</b><br>University of Colorado School of Medicine, Aurora, Colorado                           | April 2018 – July 2018         |
| • <b>Emergency Physician</b><br>Adeptus Health, Colorado  | May 2017 – March 2018          |
| • <b>Emergency Physician</b><br>Team Health, Colorado   | September 2016 – July 2018     |
| • <b>Emergency Physician</b><br>USACS, Colorado   | August 2016 – September 2017   |
| • <b>Emergency Physician</b><br>California Emergency Physicians, California   | February 2016 – July 2016      |

## EDUCATION

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|---|-----------|
| • <b>Rocky Mountain Poison and Drug Center</b> , Toxicology Fellowship, Denver, CO        | June 2018 |
| • <b>UCSF, Fresno</b> , Emergency Medicine Residency, Fresno, CA                          | July 2016 |
| • <b>UCSF School of Medicine</b> , Doctor of Medicine, San Francisco, CA                  | May 2012  |
| • <b>CSU Fullerton</b> , Post-Baccalaureate Health Professions Certificate, Fullerton, CA | May 2007  |
| • <b>Whittier College</b> , Bachelor of Arts, Psychology, Whittier, CA                    | May 2005  |
| • <b>Los Medanos College</b> , Associate of Arts, Liberal Arts, Pittsburg, CA             | May 2003  |

## CERTIFICATIONS

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Board Certified in Emergency Medicine  
Board Certified in Medical Toxicology  
Board Certified in Addiction Medicine  
Advanced Cardiac Life Support  
Pediatric Advanced Life Support  
Advanced Trauma Life Support  
Advanced Hazmat Life Support, Instructor

## **PROFESSIONAL ASSOCIATIONS**

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<b>North American Society of Toxinology</b>	March 2020 - Present
<b>International Society of Toxinology</b>	August 2016 - Present
<b>American Academy of Clinical Toxicology</b> , Envenomation Section Chair	August 2016 - Present
<b>American College of Medical Toxicology</b>	August 2016 - Present
<b>Emergency Medicine Resident Association</b> , Toxicology Division Charter Member	May 2015 – July 2016
<b>American College of Emergency Physicians</b>	July 2012 – July 2020
<b>American Academy of Emergency Medicine</b>	June 2010 – May 2012

## **GRANTS AWARDED**

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### **American Academy of Clinical Toxicology – Junior Investigator Award**

“The Application of High Throughput Thermal Shift Assays for the Development of Novel Therapeutic Approaches to the Treatment of Global Snakebite Envenomations”

Department of Defense

## **HONORS & AWARDS**

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**Fellow of the American College of Medical Toxicology**

**Fellow of the American Academy of Clinical Toxicology**

**Chief Resident**, UCSF-Fresno Emergency Medicine

**Steven N. Park, MD, Leadership Award**, UCSF-Fresno Emergency Medicine

**Leon S. Peters UCSF-Fresno Resident of the Year**, UCSF-Fresno Emergency Medicine

**Melissa Dowd Community Service Award**, UCSF-Fresno Emergency Medicine

**UC Merced SJV Prime Resident Educator of the Year**, UCSF-Fresno Emergency Medicine

**Male Student-Athlete of the Year**, Whittier College

**Excellence in Collaborative Research in the field of Psychology**, Whittier College

**Phi Delta Epsilon Honor Society**, Whittier College

**Psi Chi Honor Society**, Whittier College

**Dean’s List**, Whittier College/Los Medanos College

## **UNIVERSITY & LEADERSHIP SERVICE**

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**Asclepius Snakebite Foundation** May 2018 - Current

- Co-founder, President, Executive Director, Medical Director
- Currently working closely with an international consortium of physicians, researchers, and herpetologists as a part of a 501(3)c non-profit organization to improve snakebite morbidity and mortality in Sub-Saharan Africa.
- Develop partnerships, medical clinics and/or in-services for local health care providers in the countries of Guinea, Sierra Leone, Republic of the Congo, Zambia, and Uganda
- Lead weekly operations meetings.
- Lead monthly All Hands meetings
- Develop clinical and research protocols.
- Develop fundraising strategies.

**Emergency Department Executive Committee** July 2019 – January 2020

- Nominated and elected by colleagues to represent faculty at monthly meetings.

**Fresno Chaffee Zoo Venomous Animal Medical Liaison** August 2014 – Current

- Provided medical direction and protocols for the Reptile House at Fresno Chaffee Zoo. Worked directly with handlers to improve safety protocols. Developed EMS and hospital protocols in the event of exotic envenomation. Kept stock records and monitored national database of antivenom.

**Roundup River Ranch, Avon, CO**

October 2016 – June 2018

- Participated in biannual medical advisory board meetings for a Serious Fun camp that caters to chronically or seriously ill children ages 7-16 using the therapeutic recreation model.

**Chief Resident**

August 2015 – July 2016

- Elected by faculty and residents.
- Participated in Education, Emergency Department Operations, and Administrative meetings on a monthly basis.
- Identified potential program problems and developed solutions with co-Chiefs.
- Implemented ShiftAdmin scheduling software.

**The Painted Turtle Camp, Lake Hughes, CA**

May 2005 – February 2016

- Worked 2 summers and volunteered over 2000 hours while adapting programs for chronically or seriously ill children ages 7-16 using the therapeutic recreation model.
- Took leadership roles in high-risk programming areas to ensure a safe and engaging environment for campers and team members.
- Worked closely with medical staff to assess and adapt each program to fit the needs of individual children to ensure all can participate regardless of physical limitations.
- Participated in The Painted Turtle Hospital Outreach program to bring camp programming to pediatric inpatient units including CHOC, Mattel Children's UCLA, Lucile Packard, and UCSF Benioff Children's Hospitals.

**Graduate Medical Education Committee**

July 2014 – August 2015

- Elected by residents to represent resident interest during bi-monthly meetings with UCSF-Fresno residency and fellowship directors including the Dean of UCSF-Fresno.

**Resident Council Representative**

July 2014 – July 2016

- Attended monthly meetings with residents from various programs.
- Assessed grant-funding applications for research, conferences, and international electives.

**Twin Cities Marathon**

August 2013 – November 2015

- Recruited 65 volunteers a year, ranging from physicians to college students, to staff medical tents. Worked with local EMS agency on events logistics and disaster preparedness. Stocked and allocated medical supplies.

**Provider at Triage 2.0**

March 2015 – July 2016

- Collaborated with Emergency Department leadership to redesign and develop a more efficient and safe Provider at Triage intake system.

**Executive Committee on Assessment of the MD Portfolio, UCSF SOM**

August 2009 – May 2012

- Collaborated with faculty and administrators monthly to assess the effectiveness of the UCSF Portfolio on displaying UCSF SOM's 6 competency requirements.

**Chancellor's Registration Fee Advisory Committee, UCSF**

October 2008 – March 2010

- Participated in interdisciplinary committee of administrators and student representatives from all graduate divisions of UCSF to audit presentations by and allocate funds to various student service organizations.

**UCSF Big/Little Siblings Program, UCSF Medicine**

September 2009 – May 2012

- Volunteered to provide guidance and support to 4 students in the medical school class of 2013.

**UCSF Medical School Day Coordinator for AIM High Summer Program, UCSF**

July 2009

- Spearheaded education day for rising 9<sup>th</sup> graders from underserved communities. Collaborated with UCSF Pediatric Cardiology to educate students on the heart and uses of the catheterization lab.

- 3-Year Varsity College Baseball Captain, Whittier College/Los Medanos College** 2002 - 2005
- Structured off-season workouts and helped lead Whittier College baseball to its 1<sup>st</sup> and 2<sup>nd</sup> most winningest seasons in school history.
  - Helped lead Los Medanos College to first California Community College playoffs in 8 years.

## **MEDICAL EDUCATION EXPERIENCE**

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- Denver Health Internal Medicine Lecture Series** September 2016 – June 2018
- Initiated and developed a monthly lecture series for Internal Medicine residents on basic toxicologic principles.

- UCSF Wilderness Medicine Resident Course Director** August 2015 – September 2015
- Organized and coordinated a 2 week course for 14 medical students including 1 week of class room didactics and 1 week of scenarios in Yosemite.

- Park Medic Continuing Medical Education Director** August 2012 – July 2016
- Worked directly with Park Medics at Sequoia and Kings Canyon National Park to develop protocols and continuing education. Met monthly with Park Medic staff to discuss ongoing national and program projects and papers.
  - Designated as Continuous Education Director. Developed curriculum and put on a 3-day Park Medic course for seasonal staff in June 2014. Developed a monthly schedule curriculum for Park Medic residents to provide education using 2-3 hour lectures and didactics for Park Medics.

- Pioneer Technical High School Medical Educator Liaison** July 2012 – July 2016
- Worked with at-risk high school students at a local continuation high school.
  - Developed a lecture series and recruited resident-physicians for bi-monthly health education sessions.
  - Provided logistic support for students to participate in UCSF-Fresno medical resident and Park Medic training days as standardized patients/victims.

- Intranet Designer/Developer** June 2013 – July 2016
- Designed and developed an intranet website to improve collaboration among faculty and residents. Consolidated and organized Emergency Operations, Resident, Faculty, and Park Medic policies, education, and procedures into a streamlined format. Provided continued technical support and updates.

- Curriculum Ambassador Program** June – August 2009
- Participated in implementation of online portfolio system for UCSF SOM. Developed online module using Articulate Engage and six competency examples on the Mahara platform for incoming class of 2013 to use as guides for creating their own portfolios.

## **RESEARCH EXPERIENCE**

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- North Colorado University Mackessy Venom Analysis Lab, Researcher** July 2017 – Current  
Advisor: Stephen Mackessy

- *Project Focus:* Assess the venom variation of *Crotalus viridis viridis* over time and geography in the state of Colorado and their effects on clinical outcomes.

- CSU Fullerton Center for Cancer Disparities, Student Researcher** August 2006 – May 2007  
Advisor: Sora Park Tanjasiri, DrPH, MPH

- *Project Focus:* Assess the effect of Asian and Pacific Islander cultural beliefs on their perception of cancer and cancer screenings.
- *Responsibilities:* Assessed 1500 surveys prior to and after administration of culturally appropriate educational video on cervical and breast cancer using SPSS software.

- Project Focus: To assess Whittier College students' motivations for attending college.
- Responsibilities: Developed, administered, entered, and did data analysis of student surveys. Completed senior literature review "Types of Motivation in College Students and Their Influence on Academic Success."

## PUBLICATIONS AND PRESENTATIONS

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### Publications

- Smith, C., Baldé, A., Bahrabadi, L., Amponsah-Asamoah, M., Larson, K.Y., Maroney, S., Ceja-Galindo, D., Millimouno, M., Camara, N., Benjamin, J., **Brandehoff, N.**, Modahl, C., McCabe, M., Cohen, M., Castoe, T., Baldé, C., Jackson, K., Mackessy, S., Hansen, K., Saviola, A. (2024) Discerning Specific Thrombolytic Activities and Blood Clot Degradomes of Diverse Snake Venoms with Untargeted Peptidomics. *bioRxiv* <https://doi.org/10.1101/2024.08.30.610527>
- Smith, C., Modahl, C., Ceja-Galindo, D., Larson, K., Maroney, S., Bahrabadi, L., **Brandehoff, N.**, Perry, B., McCabe, M., Petras, D., Lomonte, B., Calvete, J., Castoe, T., Mackessy, S., Hansen, K., Saviola, A. (2023) Assessing target specificity of the small molecule inhibitor marimastat to snake venom toxins: A novel application of thermal proteome profiling. *bioRxiv Preprint*
- Smith, C., **Brandehoff, N.**, Pepin, L., McCabe, M., Castoe, T., Mackessy, S., Nemkov, T., Hansen, K., Saviola, A. (2023) Feasibility of detecting snake envenomation biomarkers from dried blood spots. *Analytical Science Advances* <https://doi.org/10.1002/ansa.202200050>
- **Brandehoff, N.**, Dalton, A., Daugherty, C., Dart, R., Monte, A. (2023) Total Crofab and Anavip vial administration in US rattlesnake envenomations: 2019 – 2021. *Journal of Medical Toxicology*
- Smith, C., **Brandehoff, N.**, Pepin, L., McCabe, M., Castoe, T., Mackessy, S., Nemkov, T., Hansen, K., Saviola, A. (2023) Feasibility of detecting snake envenomation biomarkers from dried blood spots. *Analytical Science Advances* <https://doi.org/10.1002/ansa.202200050>
- Greene, S., Folt, J., Wyatt, K., **Brandehoff, N.** (2021) The authors reply: Using lay media for epidemiology of snakebite fatality. *American Journal of Emergency Medicine* <https://doi.org/10.1016/j.ajem.2021.05.058>
- Joseph, M., Sanseau, E., Thomas, A., **Brandehoff, N.**, Augenstein, J., Shuster, M., Tiyyagura, G., Auerbach, M. (2021) Pediatric Rattlesnake Envenomation: A Simulation Scenario With Optional Health Equity, Virtual Facilitation, and Senior Learner Modifications. *Cureus* DOI: 10.7759/cureus.18106
- **Brandehoff, N.** & Benjamin, J. (2021). Chapter 6: Envenomations and Treatment: Translating Between the Bench and the Bedside. S. Mackessy (Ed.) *Handbook of Venoms and Toxins of Reptiles: Volume 2*. CRC Press
- Keyler, D., & **Brandehoff, N.** (2021). Chapter 37: Envenomations by Reptiles in the United States. S. Mackessy (Ed.) *Handbook of Venoms and Toxins of Reptiles: Volume 2*. CRC Press
- Abo, B., Fobb, J., Brandehoff, N., Dean, D., King, A., Mackessy, S. and Smith, C. (2020) When theory and reality diverge: A monocled cobra envenomation in the United States. *Toxicon*, 182,13.
- Benjamin, J.M., Abo, B., Balde, C., Chippaux, J.P., **Brandehoff, N.** (2020) Clinical presentation and management of cytotoxic and hemotoxic envenomations at an austere snakebite clinic in Kindia, Guinea. *Toxicon* DOI: 10.1016/j.toxicon.2020.04.037
- Greene, S., **Brandehoff, N.**, Lewis, B., Denning, D., Schwartz, R., Rose, R., Quackenbush, E., Charlton, N., Mullins, M., Toschlog, E. and Sharma, K. (2020) Clinical Features and Outcomes of Copperhead Envenomations Treated with Either Crotalidae Polyvalent Immune Fab (Ovine) or Placebo in Adolescents. *Clinical Toxicology* 58(11) 1138
- **Brandehoff, N.**, Benjamin, J.M., Balde, C., Chippaux, J.P. (2020) Ketamine for pain control of snake envenomation in Guinea: A case series. *Toxicon* doi:10.1016/j.toxicon.2020.08.020

- Greene, S.C., **Brandeheoff, N.** (2020) Comment on “Failure of a Mexican antivenom on recovery from snakebite-related coagulopathy in French Guiana.” *Clinical Toxicology* doi:10.1080/15563650.2020.1814317
- Abo, B., **Brandeheoff, N.**, Balde., C., Chippaux, J.P., Benjamin, J.M., (2020) A breath of fresh air: Capnography, innovation, ASF approach to treatment and training for neurotoxic snakebites in austere environments. *Toxicon* DOI:10.1016/j.toxicon.2020.04.034
- Greene, S.C., Folt, J., Wyatt, K., **Brandeheoff, N.** (2020) Epidemiology of Fatal Snakebites in the United States 1989 – 2018. *American Journal of Emergency Medicine* <https://doi.org/10.1016/j.ajem.2020.08.083>
- Benjamin, J., Abo, B., **Brandeheoff, N.** (2020) Bringing Snakebite Treatment to the Point of Injury: The Asclepius Snakebite Foundation Model for Field Treatment. *Toxicon* DOI: 10.1016/j.toxicon.2019.10.064
- Benjamin, J.M., **Brandeheoff, N.**, Wilson, B., Hall, A., Greene, S., Otten, E., Maddry, J., Collazo, M., Grisham, J., Jarema, D., Dye, C., Lee, J. (2020) Joint Trauma System Clinical Practice Guideline: Global Snake Envenomation Management. *Journal of Special Operations Medicine*. 20(2):43-74. <https://www.ncbi.nlm.nih.gov/pubmed/32573741>
- Benjamin, J., Abo, B., **Brandeheoff, N.** (2019). Review Article: Snake Envenomation in Africa. *Current Tropical Medicine Reports*. Accepted for publication.
- Armenian, P., Whitman, J., Badea, A., Johnson, W., Drake, C., Dhillon, S., Rivera, M., **Brandeheoff, N.**, and Lynch, K. (2019). Notes from the Field: Unintentional Fentanyl Overdoses Among Persons Who Thought They Were Snorting Cocaine—Fresno, California, January 7, 2019. *Morbidity and Mortality Weekly Report*, 68(31), 687.
- **Brandeheoff N.** & Monte, A. (2019). Chapter 337: Cannabinoids. *Harwood-Nuss' Clinical Practice of Emergency Medicine*. Philadelphia: Wolters Kluwer.
- **Brandeheoff N.** (2019) Chapter 70: Toxicologic Emergencies. *Emergency Medicine Secrets*. Elsevier Health Sciences.
- **Brandeheoff, N.** (2019) Seafood Toxins. *EM:RAP Online Textbook*
- **Brandeheoff, N.** (2019) Snakebites. *EM:RAP Online Textbook*
- Freiermuth, C, Lavonas, E, Anderson V, Kleinschmidt, K, Sharma, K, Rapp-Olsson, M, Gerardo, C., Copperhead Recovery Workgroup. (2019) Antivenom Treatment Is Associated with Fewer Patients using Opioids after Copperhead Envenomation. *West J. Emerg Med*, 20(3), 497 - 505
- Gerardo, C. J., Vissoci, J. R., De Oliveira, L. P., Anderson, V. E., Quackenbush, E., Lewis, B., Rose S. R., Greene S., Toschlog E. A., Charlton N. P., Mullins M. E., Schwartz R., Denning D., Sharma K., Kleinschmidt K., Bush S. P., **Brandeheoff N. P.**, & Lavonas E.J. (2019). The validity, reliability and minimal clinically important difference of the patient specific functional scale in snake envenomation. *PloS one*, 14(3), e0213077.
- Pavlek, L., Kraft, M., Simmons, C., Ryan, M., Prusakov, P., Campbell, A., **Brandeheoff N.**, Ng PC, Russell J, Ciciora SL, & Fathi, O. (2019). Acetaminophen and Acetylsalicylic Acid Exposure in a Preterm Infant after Maternal Overdose. *American journal of perinatology*, 36(02), 136-140.
- **Brandeheoff, N.**, Smith, C. F., Buchanan, J. A., Mackessy, S. P., & Bonney, C. F. (2019). First reported case of thrombocytopenia from a Heterodon nasicus envenomation. *Toxicon*, 157, 12-17.
- **Brandeheoff, N. P.**, Baker, K. A., Bonney, C. F., Ng, P. C., Schimmel, J., & Hoyte, C. O. (2018). Articles You May Have Missed. *Journal of Medical Toxicology*, 1-4.
- Armenian, P., Darracq, M., Gevorgyan, J., Clark, S., Kaye, B., & **Brandeheoff, N. P.** (2018). Intoxication from the novel synthetic cannabinoids AB-PINACA and ADB-PINACA: A case series and review of the literature. *Neuropharmacology*, 134, 82-91.
- **Brandeheoff, N.**, Adams, A., McDaniel, K., Banister, S. D., Gerona, R., & Monte, A. A. (2018). Synthetic cannabinoid “Black Mamba” infidelity in patients presenting for emergency stabilization in Colorado: a P SCAN cohort. *Clinical toxicology*, 56(3), 193-198.
- **Brandeheoff, N.**, Lunney, K., Mittendorf, G., Roche, C. “Bites and Stings.” *Wilderness EMS: A Text for the NPS Provider*. Ed. Megann Young. Fresno, Ca: United States National Park System, 2013. Pg. 57 – 70.
- **Brandeheoff, N.**, Vohra, R., “Snakebite” *Atlas of Pediatrics in the Tropics and Resource-Limited Settings* Ed. Jonathan M. Spector. American Academy of Pediatrics. 2016. Pg. 279 - 288

- **Brandeheff, N.,** Young, M., Campagne, D. “My Fingers Are Discolored.” *Emergency Medicine Journal*, June. 2016, Pg. 443
- **Brandeheff, N.,** Weichenthal, L. “Cerebrovascular Trauma” *GEMSoft Emergency Medicine*. 2016
- **Brandeheff, N.,** Vohra, R., Crebassa, L., Graham, E., Ramirez, R. “Centipede Envenomations: Clinical Effects and Treatments.” *Clinical Toxicology in Asia Pacific and Africa* Ed. P. Gopalakrishnakone. Springer Publishing, 2015. Pg. 483 – 495.

#### Oral Presentations

- **Brandeheff, N.,** *The World of Snakebites*, American Academy of Clinical Toxicology Webinar, October 2024
- **Brandeheff, N.,** Moderator for AACT *Envenomation Section Scientific Symposium – When Venomous Pets Go Wrong*, North American Congress of Clinical Toxicology, Denver, September 2024
- **Brandeheff, N.,** *ACMT Scientific Symposium Speaker – Translational Venomics*, North American Congress of Clinical Toxicology, Denver, September 2024
- **Brandeheff, N.,** *AACT Presymposium Speaker – Long Term Management of Snakebite Envenomations*, North American Congress of Clinical Toxicology, Denver, September 2024
- **Brandeheff, N.,** *Management of North American Pitviper Envenomations*, Columbus Venom Conference, Columbus, September 2024
- **Brandeheff, N.,** *Challenges and Successes of Snakebite Care in Guinea*, Venoms and Toxins, Oxford, UK, August 2024
- **Brandeheff, N.,** *Translating Mambas*, Venoms Week, Durham, NC, June 2024
- **Brandeheff, N.,** *ECMO In The Poisoned Patient*, 25<sup>th</sup> Anniversary Celebration of the Establishment of the Poison Control Center of Bach Mai Hospital: National Symposium of Clinical Toxicology, Hanoi, Vietnam, December 2023
- **Brandeheff, N.,** Moderator for AACT *Envenomation Section Scientific Symposium*, North American Congress of Clinical Toxicology, Montreal, September 2023
- **Brandeheff, N.,** *Snakebites in Guinea: The Asclepius Snakebite Foundation*, Liverpool School of Tropical Medicine and Hygiene, Virtual, May 2023
- **Brandeheff, N.,** *Novel Treatments in the Pipeline for Envenomations*, American College of Clinical Toxicology, San Diego, CA, May 2023
- **Brandeheff, N.,** *Global Snakebites*, UCSF Fresno Wilderness Medicine Conference, Bass Lake, CA, March 2023
- **Brandeheff, N.,** *Marine Envenomations*, UCSF Fresno Wilderness Medicine Conference, Bass Lake, CA, March 2023
- **Brandeheff, N.,** Moderator for *Gaboon Viper Envenomation*, American Academy of Clinical Toxicology Webinar, December 2022
- **Brandeheff, N.,** Moderator for AACT *Envenomation Section Scientific Symposium – Venomic and Antivenomics and Their Role in Treating Envenomations*, North American Congress of Clinical Toxicology, San Francisco, September 2022
- **Brandeheff, N.,** Lightning Presentation – *Clinical presentation of 149 African elapid envenomations at a rural snakebite clinic in Kindia, Guinea*, North American Congress of Clinical Toxicology, San Francisco, September 2022
- **Brandeheff, N.,** Greene, S., Bush, S. *Coffee and Crotalids*, Virtual Platform, April 2022
- **Brandeheff, N.,** *Antivenom*, Explorers Club Webinar, November 2021
- **Brandeheff, N.** Chair and Moderator for the Denver Venom Conference, October 2021
- **Brandeheff, N.,** Moderator for AACT *Envenomation Section Scientific Symposium – Exotic Snakebite Envenomations in the United States*, North American Congress of Clinical Toxicology, Online, October 2021
- **Brandeheff, N.,** *History of the Exotic Antivenom Index*, North American Congress of Clinical Toxicology, Online, October 2021
- **Brandeheff, N.,** *American College of Medical Toxicology Clinical Pathologic Case Competition*, North American Congress of Clinical Toxicology, Online, October 2021

- **Brandehoff, N.**, *Snakebites and Global Health*, Carver College of Medicine, Iowa City, IA, October 2021
- **Brandehoff, N.**, *Management of California Snake Envenomations*, Butte County Sheriff's Search and Rescue, Chico, CA, August 2021
- **Brandehoff, N.**, *Management of North American Snake Envenomations*, UCSF-Fresno Wilderness Medicine Conference, Fresno, CA, May 2021
- **Brandehoff, N.**, *Management of North American Snake Envenomations*, Enloe Hospital, Chico, CA, April 2021
- **Brandehoff, N.**, Greene, S., Bush., S. *Coffee and Crotalids*, Virtual Platform, March 2021
- **Brandehoff, N.**, *Marine Envenomations of Mozambique*, Central Hospital Emergency Medicine Residency Program, Maputo, Mozambique, February 2021
- **Brandehoff, N.**, Moderator for *Black Widow Envenomation Management*, American Academy of Clinical Toxicology Webinar, 2020
- **Brandehoff, N.**, *Snakebites and Climate Change*, African Conference of Emergency Medicine Virtual Conference, November 2020
- **Brandehoff, N.**, Moderator for *AACT Envenomation Section Scientific Symposium - Experiences with Crotalidae Immune Fab'(ab')<sub>2</sub>*, North American Congress of Clinical Toxicology, Online, September 2020
- **Brandehoff, N.**, *Snakebites and Global Health*, Carver College of Medicine, Iowa City, IA, October 2020
- **Brandehoff, N.**, *Management of North American Snake Envenomations*, UCSF-Fresno Wilderness Medicine Medical Student Elective, Fresno, CA, September 2020
- **Brandehoff, N.**, *Management of North American Snake Envenomations*, Emergency Physicians of the Rockies, Fort Collins, CO, July 2020
- Benjamin, J.M., **Brandehoff, N.** *Update on Clinical Practice Guidelines for Snake Envenomations for the United States Military*, Joint Trauma System, Department of Defense, July 2020
- **Brandehoff, N.**, *Management of Snake Envenomations in Colorado*, Northeast Physicians Advisory Board, Denver, CO, May 2020
- **Brandehoff, N.**, *Management of North American Snake Envenomations*, Enloe Nursing Staff, Chico, CA, April 2020
- **Brandehoff, N.**, *Ketamine For Pain Control Of Snake Envenomation In Guinea: A Case Series*, Venom Week 2020, Gainesville, FL, March 2020
- **Brandehoff, N.**, *Venomics and Antivenomics*, American College of Emergency Physicians, Medical Toxicology Section Meeting, Denver, CO, October 2019
- **Brandehoff, N.**, *A Man on a Mission*, Snakes, Venomous Snakes as a Flagship Species: Herp Symposia, Arnhem, Netherlands, October 2019
- **Brandehoff, N.**, Moderator for *Brown Recluse Spider Bites*, North American Congress of Clinical Toxicology, Nashville, TN, September 2019
- **Brandehoff, N.**, *Venom Induced Anaphylaxis*, University of Mississippi, Department of Emergency Medicine Grand Rounds, Jackson, Mississippi, May 2019
- **Brandehoff, N.**, *Venom Induced Anaphylaxis*, Houston Venom Conference, Houston, TX, April 2019
- **Brandehoff, N.**, Moderator for *Coral Snake Envenomation Management*, American Academy of Clinical Toxicology Webinar, 2018
- **Brandehoff, N.**, *Marine Envenomations*, Houston Venom Conference, Houston, TX, April 2018
- **Brandehoff, N.**, Brandehoff, R., Zuckerman, M., *Tox N Shakespeare*, ToxNow Podcast, Episode 40, Denver, CO, February 2018
- **Brandehoff, N.**, *ECMO use in large NSAID ingestions: A Pediatric Case Study*, North American College of Clinical Toxicology, Vancouver, BC, Canada, October 2017
- **Brandehoff, N.**, *Crotaline Snakebite Management: Anaphylaxis and Crotaline Envenomation; Are You Prepared?*, BTG National Webinar, Denver, CO, October 2017
- **Brandehoff, N.**, *Modern Opiate Toxicity*, Eagle County Paramedic Divisions, Eagle, CO, September 2017



- **Brandeheoff, N.**, *Prehospital Envenomations*, Eagle County Paramedic Divisions, Eagle, CO, September 2017
- **Brandeheoff, N.**, *Prehospital Toxicology*, Paramedic Certification School, Denver, CO, July 2017
- **Brandeheoff, N.**, *Prehospital Toxicology Part 1*, Paramedic Certification School, Denver, CO, February 2017
- **Brandeheoff, N.**, *Synthetic cannabinoid drug use as a cause or contributory cause of death*, National Toxicology Journal Club, Denver, CO, September 2016
- **Brandeheoff, N.**, *Toxicology of the Middle Ages*, Pioneer Technical High School, Madera, CA, March, 2015
- **Brandeheoff, N.**, *Hemodynamic Stability in Critical Care*, UCSF-Fresno, Fresno, CA, October, 2014
- **Brandeheoff, N.**, *Cardiology*, National Park Service EMT Refresher Course, Sequoia National Park, CA, June 2014
- **Brandeheoff, N.**, *The Patient Assessment*, National Park Service EMT Refresher Course, Sequoia National Park, CA, June 2014
- **Brandeheoff, N.**, *Clinical Presentation Case: Endocarditis*, UCSF-Fresno, Fresno, CA, February 2014
- **Brandeheoff, N.**, *The Pediatric Friendly Emergency Department*, UCSF-Fresno, Fresno, CA, February, 2013
- **Brandeheoff, N.**, *Injuries of the Shoulder*, UCSF-Fresno, Fresno, CA, August 2013
- **Brandeheoff, N.**, *The Pathway to Medical School*, Freedom High School, Oakley, CA, August 2010
- **Brandeheoff, N.**, *Examples of a Student Created Portfolio*, UCSF 3<sup>rd</sup> Annual Faculty Development Day, San Francisco, CA, March 2010
- Loeser, H., Papadakis, M., Souza, K., **Brandeheoff, N.**, et al. *Introduction to Portfolios: Documenting Your Journey to The Competent Physician*, UCSF Class of 2013 School of Medicine Orientation, San Francisco, CA, September 2009

#### Poster Presentation

- Muschler, K., Massengill, D., Banerji, S., Brandehoff, N. *A Case of Fatal Gila Monster Envenomation*, North American Conference of Clinical Toxicology, Denver, 2024
- **Brandeheoff, N.**, Wyatt, K., Greene, S. *Assessing The Accuracy of Venomous Versus Nonvenomous Snake Identification By Emergency Physicians*, American College of Medical Toxicology, San Diego, 2023
- **Brandeheoff, N.**, Benjamin, J. *Clinical presentation of 149 African elapid envenomations at a rural snakebite clinic in Kindia, Guinea*, North American Congress of Clinical Toxicology, San Francisco, September 2022
- Benjamin, J., Balde, C., **Brandeheoff, N.**, *Clinical presentation of 149 African elapid envenomations at a rural snakebite clinic in Kindia, Guinea*, North American Congress of Clinical Toxicology, San Francisco, September 2022
- Pepin, L.C., Nguyen, H., **Brandeheoff, N.**, Buchanan, J. *“Altered Mentation Requiring Intubation After Repurposed Ivermectin and Clorsulon Use in an Attempt to Prophylax COVID-19.”* Annual Scientific Meeting of American College of Medical Toxicology, San Antonio, TX, March 2022
- Baines, E., Benjamin, J., **Brandeheoff, N.** *“Implementation of updated joint trauma system clinical practice guidelines for snakebite envenomations in Africa via module based learning.”* North American Congress of Clinical Toxicology, Virtual Conference, October 2021
- **Brandeheoff, N.**, Benjamin, J., Balde, C., Chippaux, J.P. *“When the Researcher Becomes the Subject: Insights from a Severe Puff Adder (Bitis arietans) Envenomation in a Herpetologist”* North American Congress of Clinical Toxicology, Virtual Conference, September 2020
- Abo, B., Fobb, J., **Brandeheoff, N.**, Dean, D., King, A., Mackessy, S.P., Smith, C. (2020) *“When theory and reality diverge: A monocled cobra envenomation in the United States.”*. Venom Week, Gainesville, FL, March 2020
- Benjamin, J.M., Abo, B., Balde, C., Chippaux, J.P., **Brandeheoff, N.** *“Clinical presentation and management of cytotoxic and hemotoxic envenomations at an austere snakebite clinic in Kindia, Guinea”* Venom Week, Gainesville, FL, March 2020

- Farshidapour, L., **Brandehoff, N.** “*The Diagnostic Dilemma of Dysarthria: A Rare Case of Botulism.*” American College of Emergency Physicians, Denver, CO, October 2019
- **Brandehoff, N.**, Darracq, M., Rasmussen, B., Refaat, M., & Armenian, P. (2019, October). “*Lead Toxicity 30 Years After Sustaining a Gunshot Wound.*” North American Congress of Clinical Toxicology, Nashville, TN, September 2019
- **Brandehoff, N.**, Kreider, S., Shellman, M., Dunham, S., & Goulding, D. “*Epidemiology of Snakebites for a Large Poison Center from 2007-2017.*” North American Congress of Clinical Toxicology, Nashville, TN, September 2019
- Benjamin, J., Abo, B., **Brandehoff, N.** “*Bringing Snakebite Treatment to the Point of Injury: The Asclepius Snakebite Foundation Model for Field Treatment.*” International Society of Toxinology, Buenos Aires, Argentina, September 2019
- Benjamin, J., **Brandehoff, N.**, Abo, B., Jackson, K., Chippaux, J.P. “*Bedside Perspective to Antivenom Policy: Practical Considerations for Selecting Antivenoms based on Regional Challenges.*” International Society of Toxinology, Buenos Aires, Argentina, September 2019
- Bonney, C., Buchanan, J., **Brandehoff, N.**, “*The First Reported Case of Systemic Toxicity From a Western Hognose (Heterodon Nasicus) Bite*”, North American Congress of Clinical Toxicology, Chicago, IL, October 2018
- **Brandehoff, N.**, Tanverdi, M., Wang, S. “*Burning Coral Causing Multiple Palytoxin Exposures*”, North American Congress of Clinical Toxicology, Chicago, IL, October 2018
- **Brandehoff, N.**, Marlin, M., “*Pediatric Ingestion of Cariprazine Causing Bimodal CNS Depression and Thrombocytopenia: A Case Report*”, North American Congress of Clinical Toxicology Conference, Vancouver, Canada, September 2017
- **Brandehoff, N.**, Seidel, L., “*Beta-blockers and hypoglycemia: Myth or Reality?*”, North American Congress of Clinical Toxicology Conference, Vancouver, Canada, September 2017
- **Brandehoff, N.**, Gevorkyan, J., Torres, R., Darracq, M., Armenian, P. “*Covert Drug Use at a Continuation High School*”, American College of Medical Toxicology Conference, San Juan, Puerto Rico, March 2017
- **Brandehoff, N.**, Darracq, M., Schmitt, E., Gevorkyan, J., Torres, R., Clark, S., Armenian, P. “*Multiple Synthetic Cannabinoids, Multiple Patients: A Backcountry EMS Mass Casualty Requiring Air and Ground Transport*”, North American Congress of Clinical Toxicology Conference, Boston, MA, October 2016
- **Brandehoff, N.**, Young, M., Darracq, M. “*Animal Envenomations of the United States National Park System: A Retrospective Analysis*” North American Congress of Clinical Toxicology Conference, San Francisco, CA, September 2015
- **Brandehoff, N.** *Student Created Modules to Guide Portfolio Implementation*, AAMC Western Regional Conference, Palo Alto, CA, May 2011
- **Brandehoff, N.** “*Student Created Modules to Guide Portfolio Implementation*”, 10<sup>th</sup> Annual Education Day, San Francisco, CA, April 2011
- **Brandehoff, N.**, “*Development of the UCSF Portfolio*”, Curriculum Ambassadorship Symposium, San Francisco, CA, September 2009

#### Media Appearances

- “Snakebites!” Dirty Freehub Podcast, December 28<sup>th</sup>, 2022
- “How to survive a cobra bite – or better yet, avoid one entirely”, CNN, October 30<sup>th</sup>, 2022
- “It’s rattlesnake season, here are some tips on how to stay safe”, KDVR, July 13<sup>th</sup>, 2022
- “Benadryl won’t relieve swelling from rattlesnakes bites”, Politifact, July 20<sup>th</sup>, 2022
- “Snake Search: CBS4 crew goes along on search for rattlesnakes”, CBS News Colorado, April 25<sup>th</sup>, 2022
- “Episode 59: Asclepius Snakebite Foundation with Drs. Brandehoff and Folt”, So Much Pingle Podcast, March 20<sup>th</sup>, 2022
- “Fact Check-Benadryl is not recommended to treat rattlesnake bites”, Reuters, March 17<sup>th</sup>, 2021
- “Episode 107 – You’ve Been Bitten By a Venomous Snake, Now What? W/ Dr. Nick Brandehoff”, Apex Fireside Podcast, July 2021

- “Appalachian snake handlers put their faith in God—and increasingly, doctors”, National Geographic, February 1<sup>st</sup>, 2021
- “Snakebites” EM:RAP Podcast, September, 2020
- “What to do when coming across a snake?” ABC23 Bakersfield News, July 2<sup>nd</sup>, 2020
- “Snakebites kill tens of thousands of Africans a year” National Geographic, May 28<sup>th</sup>, 2020
- “Snakebite Awareness Day Special – Asclepius Snakebite Foundation”, Word on the Snake Vine Podcast, September 2019

#### **Journal Peer Reviewer**

- Annals of Emergency Medicine
- Clinical Toxicology
- Wilderness & Environmental Medicine
- Toxins
- Toxicon
- The Royal Society of Tropical Medicine and Hygiene
- Tropical Doctor



Nicklaus Brandehoff, MD, FAACT

**Please share your current and past involvement in AACT, AACT-related activities and/or ABAT.**

I was previously the envenomation section chair from 2018 through 2024.

**Please note any previous leadership and/or board experience(s) in other associations and/or institutions.**

I am currently the Executive Director of the Asclepius Snakebite Foundation, a 501(c) focused on leading global projects in snakebite treatment, education, research, and advocacy, significantly raising awareness and improving patient outcomes worldwide.

I have also served on the Medical Advisory Committee for Round Up River, a camp for children with serious and chronic medical conditions who cannot attend camp without specific medical support. All campers participate free of charge and are fully supported by adaptive programming, making each program area inclusive no matter their limitations.

I am also the Region 8 director for the Advanced Hazmat Life Support company.

**Please share your vision and goals as a member of the Board of Trustees.**

My goals as a trustee include expanding toxicology education, supporting innovative research, and strengthening international partnerships to ensure AACT continues to grow and has a global impact. As a current MPH student at the T.H. Chan Harvard School of Public Health, I'm particularly passionate about increasing member engagement and advocating for toxicologists' essential role in public health around the world.