

Stephen Alerhand MD

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PRESENT ACADEMIC APPOINTMENT

Associate Professor 7/2018 – present
Department of Emergency Medicine
Director, Division of Emergency Ultrasound
Director, Advanced Emergency Medicine Ultrasonography Fellowship
Rutgers New Jersey Medical School

BOARD CERTIFICATIONS

Emergency Medicine – American Board of Emergency Medicine (ABEM) 2017 – present
Focused Practice Designation in Advanced Emergency Medicine Ultrasonography – ABEM 2022 – present
Critical Care Echocardiography (Diplomate) – National Board of Echocardiography 2025 – present

POST-GRADUATE TRAINING

Clinical Ultrasound Fellow 7/2017 – 6/2018
Icahn School of Medicine at Mount Sinai
Fellowship Director: Bret Nelson MD

Resident Physician 7/2013 – 6/2017
Department of Emergency Medicine
Icahn School of Medicine at Mount Sinai
Program Director: Kaushal Shah MD

EDUCATION

Doctorate of Medicine 7/2009 – 6/2013
Boston University School of Medicine

Bachelor of Science, Neuroscience with Honors 8/2004 – 5/2008
Brown University

PRIOR ACADEMIC APPOINTMENTS

Instructor of Emergency Medicine 7/2017 – 6/2018
Mount Sinai Hospital
Elmhurst Hospital Center
Mount Sinai Queens

EMPLOYMENT HISTORY

University Hospital; Newark, NJ 7/2018 – present
Emergency Department

Mount Sinai Hospital 7/2017 – 5/2018
Elmhurst Hospital Center
Mount Sinai Queens
Emergency Department

MEDICAL LICENSURES

New Jersey Medical License
Controlled Dangerous Substance (CDS)
Drug Enforcement Administration (DEA)

CERTIFICATIONS

American College of Surgeons:
Advanced Trauma Life Support (ATLS)
American Heart Association:
Advanced Cardiac Life Support (ACLS), Basic Life Support (BLS), Pediatric Advanced Life Support (PALS)

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American College of Emergency Physicians (ACEP)
Society of Academic Emergency Medicine (SAEM)
Society of Clinical Ultrasound Fellowships (SCUF)

LANGUAGE SKILLS

English

Spanish – fluent (1st language)

French – intermediate

HONORS & AWARDS

Golden Apple Nominee for Excellence in Teaching Rutgers New Jersey Medical School Nominated by medical student body	2/2026
Fellow, Aspiring Leaders Track Rutgers Health Academic Leadership Program	8/2025
Outstanding Section Newsroom Content Award during my elected period as Newsletter Editor American College of Emergency Physicians – Emergency Ultrasound Section	9/2024
Service to the College Award during my elected period as Secretary-Treasurer American College of Emergency Physicians – Emergency Ultrasound Section	9/2024
Service to the College Award during my elected period as Secretary-Treasurer American College of Emergency Physicians – Emergency Ultrasound Section	9/2023
Journal Feed Feature for publication JournalFeed.org “Pericardial tamponade: a comprehensive emergency medicine and echocardiography review”	9/2022
Contribution to the Section Award American College of Emergency Physicians – Emergency Ultrasound Section ACEP Annual Meeting	10/2021
Rising Star in Education Award Society of Academic Emergency Medicine – Academy of Emergency Ultrasound	10/2022
Golden Apple Nominee for Excellence in Teaching Rutgers New Jersey Medical School Nominated by medical student body	1/2020
Certificate of Appreciation Asociación de Medicina de Urgencias y Desastres de México A.C. (AMUDEM) Annual International Congress; Puerto Vallarta, Mexico “Valvular Dysfunction for the Resuscitator”	5/2019
Certificate of Appreciation for Directorship Israeli Association of Emergency Medicine (IAEM) Pre-Conference Critical Care Ultrasound Workshop Tel Aviv, Israel	3/2019

Journal Feed Feature for publication JournalFeed.org “What echocardiographic findings suggest a pericardial effusion is causing tamponade?”	3/2019
Recognition for Ultrasound Education Mexican Association of Critical and Emergency Ultrasound (AMUSCU)	12/2018
Award for Recognition of Online Education Icahn School of Medicine at Mount Sinai Fellowship Graduation Ceremony	6/2018
Certificate of Appreciation for Directorship Israeli Association of Emergency Medicine (IAEM) Pre-Conference Critical Care Ultrasound Workshop Tel Aviv, Israel	3/2018
Research Oral Presentation Award 15 th Annual Mount Sinai St. Luke’s Regional Ultrasound Symposium	3/2018
First Place Golden Probe Award for Best Point-of-Care Ultrasound Clip The POCUS Atlas (ThePocusAtlas.com) World Congress of Ultrasound in Medical Education (WCUME) Annual Meeting Montreal, Canada	10/2017
Outstanding Academic Achievement Award Icahn School of Medicine at Mount Sinai Residency Graduation Ceremony	6/2017
Outstanding Publication by a Resident Icahn School of Medicine at Mount Sinai Residency Graduation Ceremony	6/2017
Resident Education Award Society of Academic Emergency Medicine – Academy of Emergency Ultrasound	5/2017
Finalist for New Speaker Forum on Best Clinical Practice American College of Emergency Physicians – New York Section “Spontaneous Intracerebral Hemorrhage: Primary Management”	4/2017
Most Innovative Blog or Podcast as Associate Editor for EMdocs.net Academic Life in Emergency Medicine (ALiEM) Awards	5/2016
Most Outstanding Project/Presentation (monetary prize) Mount Sinai Services at Elmhurst Hospital Center Day of Recognition for Research and Scholarly Activity “The Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis”	6/2015
Travel Monetary Award Eastern Society for Pediatric Research Annual Meeting “The Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis”	2/2015
Residency Finalist	11/2013

Council of Residency Directors (CORD) Clinical Pathological Case Competition at Mount Sinai
"Acute Aortic Occlusion"

Serchuck Award for 1st Place Clinical Science Poster/Presentation 2/2011

Boston University School of Medicine

Alzheimer's Disease Center

"The Long-Term Psychological Impact of Genetic Risk Disclosure for Alzheimer's Disease"

Medical Student Summer Research Project (MSSRP) Financial Scholarship 6/2010

Boston University School of Medicine

Alzheimer's Disease Center

Neuroscience Research Grant 10/2008

Karyn Kupcinec International Science School

Weizmann Institute of Science in Israel

Marlboro Township Education Association (MTEA) Scholarship (\$1,000) 8/2004

To attend Brown University

EDUCATION ACTIVITIES

GRADUATE MEDICAL EDUCATION AND FACULTY DEVELOPMENT

Paid Review Course Lecturer 1/2026 – 2/2026

Focused Practice Designation (FPD) Examination in Advanced Emergency Medicine Ultrasonography (AEMUS)

American Board of Emergency Medicine

Director, 2nd Annual Internal Point-of-Care Ultrasound Workshop 1/2026

University Hospital

Registrants from Departments of Anesthesia, Internal Medicine

Co-Director, Faculty Development Teaching Session on Evaluating for Ectopic Pregnancy 5/2025

Department of Emergency Medicine

Rutgers New Jersey Medical School

Editor-in Chief, PEERcert+ Question Bank for ABEM Examination in Advanced EM Ultrasonography 4/2025 –

American College of Emergency Physicians

Director, 1st Annual Internal Point-of-Care Ultrasound Workshop 3/2025

University Hospital

Registrants from Departments of Anesthesia, Internal Medicine, General Surgery, Obstetrics/Gynecology, Neurology

Director, Educational Series for Transesophageal Echocardiography in Cardiac Arrest 3/2024 – present

Department of Emergency Medicine

Rutgers New Jersey Medical School

Paid Review Course Lecturer 1/2024 – 2/2024

Focused Practice Designation (FPD) Examination in Advanced Emergency Medicine Ultrasonography (AEMUS)

American Board of Emergency Medicine

Editor, 3-Minute Nerve Block Tutorials Department of Emergency Medicine Rutgers New Jersey Medical School http://www.youtube.coim/@rutgersemergencyultrasound9669	8/2022 – present
Co-Creator, Point-of-Care Ultrasound MasterClass Teaching Series Department of Emergency Medicine Rutgers New Jersey Medical School	7/2022 – present
Creator, POCUS Pearls Weekly Educational Emails Department of Emergency Medicine Rutgers New Jersey Medical School	7/2022 – present
Instructor, Hands-on Point-of-Care Ultrasound Workshop Department of Neurology Rutgers New Jersey Medical School	5/2022
Instructor, Hands-on Point-of-Care Ultrasound Workshop Department of Plastic Surgery Rutgers New Jersey Medical School	4/2022
Instructor, Hands-on Point-of-Care Ultrasound Workshop Department of General Surgery Rutgers New Jersey Medical School	3/2022
Co-Director, Hands-on Point-of-Care Ultrasound Workshop Triple Track CME Conference Rutgers New Jersey Medical School	2/2020
Instructor, Hands-On Point-of-Care Ultrasound Course American College of Emergency Physicians – New Jersey Section	9/2019
Faculty Advisor, Residency Team for Society of Academic Emergency Medicine SonoGames Department of Emergency Medicine Rutgers New Jersey Medical School	5/2019 – present
Instructor, Hands-On Point-of-Care Ultrasonography Course Department of Critical Care Medicine Rutgers New Jersey Medical School	2/2019
Instructor, Point-of-Care Ultrasound rotation for Trauma Surgery Fellows Department of Trauma Surgery Rutgers New Jersey Medical School	7/2018 – present
Moderator, Monthly Ultrasound Division Rounds Department of Emergency Medicine Rutgers New Jersey Medical School	7/2018 – present
Editor of Ultrasound Probe Section of EMdocs.net	2014 – present

Free Open Access Medical Education site receiving up to 9,000 views per day

Hands-on Airway Instructor Salad Sono Fest Brooklyn, New York	10/2018
Paid Instructor, Critical Care Ultrasound Workshop for Anesthesia Department Mount Sinai Hospital	1/2018
Co-Organizer and Hands-on Instructor Annual Regional Critical Care Ultrasound Course Mount Sinai Hospital	12/2017
Co-Organizer, Ultrasound Journal Club Icahn School of Medicine at Mount Sinai	9/2017 – 6/2016
Instructor, Intern Point-of-Care Ultrasound Orientation Department of Emergency Medicine Icahn School of Medicine at Mount Sinai	7/2017
Designer, Regional Anesthesia Resident and Fellow Elective Department of Emergency Medicine Icahn School of Medicine at Mount Sinai	1/2017
Hands-on Instructor Annual Regional Critical Care Ultrasound Course Mount Sinai Hospital	12/2016
Teaching Resident Department of Emergency Medicine Icahn School of Medicine at Mount Sinai	6/2016
Section Editor for FOAMbase Ultrasound and Physical Examination Sections	2014 – 2015
Instructor, ACLS training for incoming interns Department of Emergency Medicine Icahn School of Medicine at Mount Sinai	6/2014 – 6/2017

UNDERGRADUATE MEDICAL EDUCATION

Co-Director, Teach the Teachers Point-of-Care Ultrasound Rutgers New Jersey Medical School Non-Credit Elective for teaching 4 th -year students to become the teachers of 1 st -year students	4/2024 – present
Co-Director, Medical Student Ultrasound Elective Rutgers New Jersey Medical School	7/2018 – 6/2024
Faculty Supervisor, POCUS Bowl Interactive Kahoot Medical Student Competition	4/2021

Rutgers New Jersey Medical School

Organizer and Instructor, Annual 4th-Year Medical Student Point-of-Care Ultrasound Boot Camp 5/2019 – present
Emergency Medicine-bound medical students
Rutgers New Jersey Medical School

Creator and Director, Undergraduate Medical Education Ultrasound Curriculum 7/2018 – present
Rutgers New Jersey Medical School
MS1-2 Pre-Clinical Lectures and Hands-on Teaching
MS4 Capstone Course on Ultrasound-Guided Peripheral Intravenous Access

Faculty Advisor, Medical Student Ultrasound Interest Group 7/2018 – present
Rutgers New Jersey Medical School

Trainer, Medical Student Team (“Dopplergangers”) 1/2018 – 3/2018
American Institute of Ultrasound in Medicine (AIUM) SonoSlam Competition
Icahn School of Medicine at Mount Sinai

Co-Director, Intern and Medical Student Ultrasound Rotation 7/2017 – 6/2018
Department of Emergency Medicine
Icahn School of Medicine at Mount Sinai

Faculty Advisor, Medical Student Ultrasound Interest Group 7/2017 – 6/2018
Icahn School of Medicine at Mount Sinai

Instructor, Echocardiographic Regional Wall Motion Abnormality Seminar 11/2017 – 3/2017
Icahn School of Medicine at Mount Sinai

Instructor, Annual Ultrasound Medical Education Day for 4th-year medical students 2014-2016
Icahn School of Medicine at Mount Sinai

Instructor, Procedural Skills in Medical Student Anatomy Lab 2014-2016
Icahn School of Medicine at Mount Sinai

Instructor, Cognitive Errors in the Emergency Department 12/2015
Course for 4th-year Emergency Medicine-bound medical students
Icahn School of Medicine at Mount Sinai

Clinical Instructor, Introduction to Clinical Medicine Course for 1st-Year Medical Students 4/2013
Boston University School of Medicine

Designer/Instructor, Medical Spanish University Course 2006 – 2007
Brown University

EMT, PARAMEDIC, & NURSING EDUCATION

Director, Ultrasound-Guided Peripheral Intravenous Access Hands-on Workshop 3/2026
47th Annual Conference of New Jersey Emergency Nurses Association
Atlantic City, New Jersey

Director, Ultrasound-Guided Peripheral Intravenous Access Hands-on Workshop 46 th Annual Conference of New Jersey Emergency Nurses Association Atlantic City, New Jersey	3/2025
Director, Ultrasound-Guided Peripheral Intravenous Access Hands-on Workshop 45 th Annual Conference of New Jersey Emergency Nurses Association Atlantic City, New Jersey	3/2024
Co-Director, Ultrasound-Guided Peripheral Intravenous Access Hands-on Workshop 43 rd Annual Conference of New Jersey Emergency Nurses Association Atlantic City, New Jersey	3/2022

INTERNATIONAL EDUCATION

Director, Pre-Conference Critical Care Ultrasound Workshop Israeli Association of Emergency Medicine (IAEM) 23 rd Annual Scientific Assembly; Tel Aviv, Israel	3/2019
Director, Pre-Conference Critical Care Ultrasound Workshop Israeli Association of Emergency Medicine (IAEM) 22 nd Annual Scientific Assembly; Tel Aviv, Israel	10/2018
Invited Guest Instructor and Grand Rounds Speaker Department of Emergency Medicine Shaare Zedek Hospital Jerusalem, Israel	4/2017 – 5/2017
Instructor, Point-of-Care Ultrasound International Elective Cabral and Juan XXIII Hospitals Santiago, Dominican Republic	5/2016

ADMINISTRATION, LEADERSHIP, & OPERATIONS

ULTRASOUND

Judge, SAEMMIES Annual Manuscript Awards Society of Academic Emergency Medicine	11/2025 – present
Director-at-Large Society of Clinical Ultrasound Fellowships	10/2025 – present
Editor-in Chief, PEERcert+ Question Bank for ABEM Examination in Advanced EM Ultrasonography American College of Emergency Physicians	4/2025 –
Developer, Credentialing Protocol in Transesophageal Echocardiography for Graduating Residents	10/2024

Department of Emergency Medicine
Rutgers New Jersey Medical School

Creator, Clinician and Disinfection Protocol for Transesophageal Echocardiography in Cardiac Arrest 3/2024
Department of Emergency Medicine
Rutgers New Jersey Medical School

Secretary/Treasurer of Ultrasound Section 10/22 – 9/2024
American College of Emergency Physicians – Emergency Ultrasound Section

Fellowship Director, Clinical Ultrasound Fellowship 7/2021 – present
Rutgers New Jersey Medical School
Accredited by Emergency Ultrasound Fellowship Accreditation Council

Co-Creator, Ultrasound Speaker Matrix Database 6/2021
American College of Emergency Physicians – Emergency Ultrasound Section

Senior Content Editor, PEERcert+ Question Bank for ABEM Examination in Advanced EM Ultrasonography 7/2021
American College of Emergency Physicians

Co-Chair, Ultrasound Resident Education Subcommittee 9/2018 – 8/2021
American College of Emergency Physicians – Emergency Ultrasound Section

Developer, Point-of-Care Ultrasound Infection Control Protocol for COVID19 3/2020
Department of Emergency Medicine
Rutgers New Jersey Medical School

Developer, Infection Control Protocol for Ultrasound-Guided Peripheral Intravenous Access 9/2018
Department of Emergency Medicine
Rutgers New Jersey Medical School

Quality Assurance, Departmental Point-of-care Ultrasound Scans 7/2018 – present
Department of Emergency Medicine
Rutgers New Jersey Medical School

Worksheet Designer, QPath Middleware for Point-of-Care Ultrasound Workflow 7/2018 – present
Department of Emergency Medicine
Rutgers New Jersey Medical School

Fellow Representative, Ultrasound Fellow Education Subcommittee 2/2017 – 5/2018
American College of Emergency Physicians – Emergency Ultrasound Section

CLINICAL

Designer, Emergency Medicine and Orthopedics Regional Anesthesia Protocol for Hip/Femur Fractures 4/2021
University Hospital

Developer, Intubation Protocol for COVID-19 3/2020
Department of Emergency Medicine
Rutgers New Jersey Medical School

Housestaff Representative, Root Cause Analysis (RCA) Team 6/2016 – 1/2017
Mount Sinai Hospital

Resident Representative, Team STEPPS 9/2014
Team Strategies & Tools to Enhance Performance & Patient Safety
Department of Emergency Medicine
Mount Sinai Hospital

INSTITUTIONAL

Member, Departmental Leadership Committee 1/2026 – present
Department of Emergency Medicine

Member, Residency Program Evaluation Committee 9/2021 – present
Department of Emergency Medicine
Rutgers New Jersey Medical School

Member, Committee on Academic Programs and Policies 9/2020 – 5/2022
Rutgers New Jersey Medical School

Interviewer, Medical Student Admissions 11/2018 – 1/2024
Rutgers New Jersey Medical School

Senior Mentor, Resident Mentoring Program 1/2017 – 6/2017
Department of Emergency Medicine
Icahn School of Medicine at Mount Sinai

Emergency Medicine Representative, Hospital Housestaff Council 6/2016 – 5/2016
Mount Sinai Hospital

Developer, Ultrasound Rotation Tutorial for Resident Survival Guide 8/2015
Department of Emergency Medicine
Icahn School of Medicine at Mount Sinai

Resident Member, Split Flow Operations Core Sub-Committee 2/2014 – 6/2014
Department of Emergency Medicine
Mount Sinai Hospital

Leader/Advisor, Student Peer Advising Committee (PAC) 6/2010 – 5/2011
Boston University School of Medicine

Paid Pre-Medical Studies Student Advisor 8/2007 – 5/2008
Brown University

PRIOR RESEARCH

Alzheimer's Disease Center, The REVEAL Study 2010 - 2012
Boston University School of Medicine

Principal Investigator: Robert C. Green MD, MPH

Neurobiology Research Laboratory

Weizmann Institute of Science In Israel

Principal Investigator: Menachem Segal PhD

10/2008 – 5/2009

Neurobiology Research Laboratory

Brown University

Principal Investigator: Anna Dunaevsky PhD

2007-2008

COMMUNITY & ADDITIONAL SERVICE

Director, Ultrasound Workshop for Newark Health Equity Education Coalition (HEEC)

Rutgers New Jersey Medical School

7/2025

Director, Ultrasound Workshop for Summer Health Professions Education Program (SHPEP)

Grant support for teaching undergraduate college students underrepresented in medicine

Rutgers New Jersey Medical School

7/2025

Director, Ultrasound Workshop for Summer Health Professions Education Program (SHPEP)

Grant support for teaching undergraduate college students underrepresented in medicine

Rutgers New Jersey Medical School

7/2024

Director, Ultrasound Workshop for Summer Health Professions Education Program (SHPEP)

Grant support for teaching undergraduate college students underrepresented in medicine

Rutgers New Jersey Medical School

7/2023

Director, Cardiac Ultrasound for Hispanic Heritage Month Student Health Sciences Day

Rutgers New Jersey Medical School

10/2019

Lecturer, Introduction to Emergency Medicine for Mini-Med School

Geared towards local high school students interested in health professions careers

Rutgers New Jersey Medical School

2020 - 2023

Finish Line Medical Volunteer

New York City Marathon

11/2023

International Emergency Medical Seminar on Emergency Response with Magen David Adom

Jerusalem, Israel

3/2013

Spanish Interpreter, Interpreter's Aide Program

Rhode Island Hospital Emergency Department

2005-2006

MENTORSHIP/SPONSORSHIP

Advanced Emergency Medicine Ultrasonography Fellows (5)

- Annette Mueller MD MBA, Linda Qiu MD, Abdo Zeinoun MD, Marwa Ali MD, Brianna Mendiola MD (incoming)

Emergency Medicine residents who have matched into Clinical Ultrasound Fellowship (6)

- Jeremy Carter DO, Robert Adrian MD, Linda Qiu MD, Peter Alsharif MD, Marwa Ali MD, Sean Beckman DO

Residents who have won the Resident Education Award from the Society of Academic Emergency Medicine – Academy of Emergency Ultrasound (3)

- Robert Adrian MD, Peter Alsharif MD, Marwa Ali MD

Graduate Medical Education Resident Recognition Award

Rutgers New Jersey Medical School

- Marwa Ali MD

PEER-REVIEWED PUBLICATIONS

1. **Alerhand S**, Qiu L, Adrian RJ. What echocardiographic findings suggest acute type A aortic dissection? *J Emerg Med.* 2025 Oct 10;80:224-240.
2. Zeinoun A, **Alerhand S**. Transesophageal echocardiography diagnosis of dextrocardia during cardiac arrest guided optimal chest compression location: a case report. *Am J Emerg Med.* 2025 Nov 19;100:70-72.
3. Adrian RJ, Alsharif P, Shokoohi H, **Alerhand S**. Gastric ultrasound in the management of emergency department patients with upper gastrointestinal bleeding: a case series and sonographic technique. *J Emerg Med.* 2025 Jan;68:66-72.
4. **Alerhand S**, Adrian RJ, Taylor L. Cardiac point-of-care ultrasound: an emergency medicine review. *Emerg Med Clin North Am.* 2024 Nov;42(4):731-754.
5. Beckman S, Lu H, Alsharif P, Ali M, Adrian RJ, **Alerhand S**. Echocardiographic diagnosis and clinical implications of wide-open tricuspid regurgitation for evaluating right ventricular dysfunction in the emergency department. *Am J Emerg Med.* 2024 Jun;80:227e7-227.e11.
6. Adrian RJ, **Alerhand S**, Liteplo A, Shokoohi H. Is Pulmonary Hypertension Protective Against Cardiac Tamponade? A Systematic Review Is Pulmonary Hypertension Protective Against Cardiac Tamponade? A Systematic Review. *Intern Emerg Med.* 2024 Apr 15.
7. Beckman S, Goett R, Yugar B, **Alerhand S**. Invasive fungus balls diagnosed by point-of-care ultrasound in the emergency department. *J Emerg Med.* 2023 Nov 4:S0736-4679(23)00540.
8. Ali M, Beckman S, **Alerhand S**. Point-of-care ultrasound diagnosis of maxillary artery pseudoaneurysm in the emergency department. *POCUS Journal* (in press).
9. Greenstein YY, Ferrara S, Jomi J, Soetanto V, Zuckerman O, Sena A, Ostrovsky I, **Alerhand S**. A prospective comparison of standard technique, Doppler ultrasonography, and pressure waveform analysis for confirming intraosseous catheter placement. *J Intensive Care Med.* 2023 Aug 30;8850666231199086.
10. **Alerhand S**, Adrian R. What echocardiographic findings differentiate acute pulmonary embolism and chronic pulmonary hypertension? *Am J Emerg Med.* 2023 Jul 10;72:72-84.

11. Lu HJ, Lee EH, **Alerhand S**. Delayed Iatrogenic Bladder Rupture Diagnosed by POCUS in the Emergency Department. *POCUS J*. 2023 Apr 26;8(1):38-42.
12. Gottlieb M, **Alerhand S**. Managing Cardiac Arrest Using Ultrasound. *Ann Emerg Med*. 2022 Nov 2:S0196-0644(22)01120:-9.
13. **Alerhand S**, Adrian RJ, Long B, Avila J. Pericardial Tamponade: A Comprehensive Emergency Medicine and Echocardiography Review. *Am J Emerg*. 2022 May 6;58:159-174.
14. Gaspari RJ, Gleeson T, **Alerhand S**, et al. A multicenter, prospective study comparing subxiphoid and parasternal views during brief echocardiography: effect on image quality, acquisition time, and visualized anatomy. *J Emerg Med*. 2022 Jan 22.
15. Adrian R, Choi A, Lamba S, Ostrovsky I, Ramdin C, Traba C, Chen S, Sudyn A, **Alerhand S**. Teaching module on ultrasound-guided venous access using a homemade gel model for fourth-year medical students. *MedEdPORTAL*. 2022; 18:11222.
16. **Alerhand S**, Choi A, Varga P. Cardiac Ultrasound for Pediatric Emergencies. *Pediatr Ann*. 2021 Oct;50(10):e424-431.
17. **Alerhand S**, Situ-LaCasse E, Ramdin C, Gottlieb M. National Survey of Point-of-Care Ultrasound Scholarly Tracks in Emergency Medicine Residency Programs. *West JEM*. Aug 2021.
18. **Alerhand S**, Sundaram T, Gottlieb M. What are the echocardiographic findings of acute right ventricular strain that suggest pulmonary embolism? *Anaesth Crit Care Pain Med*. 2021 Mar 26;40(2):100852.
19. Gottlieb M, **Alerhand S**, Long B. Response to "POCUS to confirm intubation in trauma setting." *West JEM*. 2021 Mar; 22(2): 400.
20. Gottlieb M, **Alerhand S**. NSAIDs May Be Considered in Patients with Acute Fractures. *Ann Emerg Med*. 2020 Nov;76(5):675-676.
21. Sena A, **Alerhand S**, Lamda S. Milestone Approach to Designing a Point-of-Care Ultrasound Curriculum for Transition-to-Residency Programs in the United States. *Teach Learn Med*. 2020 Oct 21:1-12.
22. Denault AY, Monrief T, **Alerhand S**, Scott J. Title: Point-of-care echocardiography for the evaluation of right-to-left cardiopulmonary shunts: a narrative review. *Can J Anes*. 2020 Sept 17.
23. Panebianco N, Liu R, **Alerhand S**, et al. Joint Recommendations and Resources for Clinical Ultrasound Education Amidst the COVID-10 Era. *AEM Educ Train*. 2020 Sept 4;4(4):438-442.
24. Gottlieb M, **Alerhand S**, Long B. Point-of-Care Ultrasound for Intubation Confirmation of COVID-19 Patients. *West J Emerg Med*. 2020 Aug 17;21(5):1042-1045.
25. Gottlieb M, **Alerhand S**. Pre-Reduction Radiographs Are Not Routinely Needed for Anterior Shoulder Dislocations. *Ann Emerg Med*. 2020 Aug;76(2):132-133.
26. **Alerhand S**, Tsung JW. Unmasking the lung pulse for detection of endobronchial intubation. *J Ultrasound Med*. 2020 May 1.

27. Gottlieb M, **Alerhand S**. Clinical Controversy—Ultrasound: A Useful Adjunct in Cardiac Arrest. *Ann Emerg Med*. 2020 Apr 75(4):514-515.
28. **Alerhand S**, Cherneykina M, Wei HS, Barricella RL. Point-of-care ultrasound diagnosis of medial plantar artery pseudoaneurysm secondary to penetrating injury. *J Emerg Med*. 2020 Mar 31.
29. **Alerhand S**, Tay ET. Point-of-care ultrasound for confirmation of gastrostomy tube replacement in the pediatric emergency department. *Intern Emerg Med*. 2020 Mar 5.
30. Gottlieb M, **Alerhand S**. Ultrasound Should be Considered for All Arthrocentesis. *Ann Emerg Med*. 2020 Feb;75(2):261-262.
31. **Alerhand S**, Choi A, Ostrovsky I, et al. Integrating Basic and Clinical Sciences Using Point-of-Care Renal Ultrasound for Pre-Clerkship Education. *MedEdPORTAL*. 2020;16:11037.
32. **Alerhand S**, Mickman CT, Hu K, Apakama DU, Mishoe JM, Nelson BP. Attrition in Emergency Department Point-of-Care Ultrasound Workflow Adherence for the Evaluation of Cutaneous Abscesses. *J Hosp Manag Health Policy* 2020.
33. **Alerhand S**, Hickey S. Tricuspid Annular Plane Systolic Excursion (TAPSE) for Risk Stratification and Prognostication of Patients with Pulmonary Embolism. *J Emerg Med*. 2019 Nov 14.
34. Montrief T, **Alerhand S**, Jewell C, Scott J. Incorporation of Transcranial Doppler into the Emergency Department for the Neurocritical Care Patient. *Am J Emerg Med*. 2019 March 10.
35. **Alerhand S**, Carter JM. What Echocardiographic Findings Suggest a Pericardial Effusion is Causing Tamponade? *Am J Emerg Med*. 2019 Feb;37(2):321-6.
36. Cisewski D, **Alerhand S**. SCALD-ED block: Superficial cutaneous anesthesia in a lateral leg distribution within the emergency department – a case series. *J Emerg Med*. 2019 Jan 8.
37. Meltzer JA, Kunkov S, Chao JH, Tay ET, George JP, Borukhov D, **Alerhand S**, Harrison PA, Hom J, Crain EF. Association of delay in appendectomy with perforation in children with appendicitis. *Pediatr Emerg Care*. 2019 Jan;35(1):5-49.
38. **Alerhand S**, Nevel A, Nelson BP. Radial artery pseudoaneurysm diagnosed by point-of-care ultrasound five days after transradial catheterization: A case report. *World J Emerg Med*. 2018;9(3):223-226.
39. **Alerhand S**. Ultrasound for Identifying the Cricothyroid Membrane Prior to the Difficult Anticipated Airway. *Am J Emerg Med*. 2018 Nov;36(11):2078-84.
40. Long B, **Alerhand S**, Kurian M, Koymfman A. Echocardiography in Cardiac Arrest: An Emergency Medicine Review. *Am J Emerg Med*. 2018 Mar;36(3):488-93.
41. **Alerhand S**, Wood S, Long B, Koymfman A. The Time-Sensitive Challenge of Diagnosing Spinal Epidural Abscess in the Emergency Department. *Intern Emerg Med*. 2017 Dec;12(8):1179-83.
42. **Alerhand S**, Lay C. Spontaneous Intracerebral Hemorrhage. *Emerg Med Clin North Am*. 2017 Nov;35(4):825-845.
43. **Alerhand S**, Meltzer JA, Tay ET. Evaluating the risk of appendiceal perforation when using ultrasound as the initial diagnostic imaging modality in children with suspected appendicitis. *Ultrasound*. 2017 Aug;25(3):166-72.

44. Santos C, Pomerleau A, **Alerhand S**, Siegelman JN. Isoniazid Toxicity. American College of Emergency Physicians Toxicology Section – Toxicology Simulation Case Library, 2017.
 45. Santos C, Pomerleau A, **Alerhand S**, Siegelman JN. Isoniazid poisoning: a pediatric simulation case for emergency medicine residents. MedEdPORTAL. 2016 Dec 9;12:10515.
 46. **Alerhand S**. Inner Conflicts From a Resident Medico-Legal Consulting Case. Academic Emergency Medicine. Acad Emerg Med. 2016 Nov;23(11):1296-1297.
 47. **Alerhand S**, Cassella C, Koyfman A. Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in the Pediatric Population - A Review. Pediatric Emergency Care. 2016 July;32(7):472-6.
 48. Falkowitz D, **Alerhand S**, Su M. A Letter to the Editor: carbon monoxide poisoning deaths in the United States, 1999 to 2012. Am J Emerg Med. 2016 May;34(5):904.
 49. Santos, C. **Alerhand, S**. Koyfman, A. Does the Choice of Antibiotic Affect Outcome in Strep Throat? Ann Emerg Med. 2015 May;65(5):564-6.
 50. Roberts JS, Christensen KD, Waterston LB, Duggan J, **Alerhand S**, Cupples LA, Whitehouse PJ, Obisesan TO, Green RC, The REVEAL Study. What is the Long-Term Emotional and Behavioral Impact of Genetic Risk Assessment for Alzheimer's Disease? Findings from the REVEAL Study. Alzheimer's & Dementia. 2014 July;10(4):211.
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BOOK CHAPTERS

1. Adrian RJ, Maloney K, Shepherd C, **Alerhand S**. "Testicular Ultrasound." *Point-of-Care Ultrasound, 3rd Edition*. Ed. Nilam J. Soni, Robert Arntfield, Pierre Kory. Elsevier (in press).
 2. **Alerhand S**. Gastrointestinal Ultrasound. *Manual of Emergency and Critical Care Ultrasound, 3rd Edition*. Ed. Vicki Noble, Bret P. Nelson. Cambridge University Press. (in press)
 3. **Alerhand S**, Gulalp B. Lung Ultrasonography. SonoGuide. American College of Emergency Physicians. May 2021.
 4. **Alerhand S**, Lakoff D. "Testicular Ultrasound." *Point-of-Care Ultrasound, 2nd Edition*. Ed. Nilam J. Soni, Robert Arntfield, Pierre Kory. Elsevier, 2019.
 5. **Alerhand S**, Graumann O, Nelson BP. Physics and basic principles. *In: Laursen CB, Rahman NM, Volpicelli G, eds. Thoracic Ultrasound (ERS Monograph)*. Sheffield, European Respiratory Society, 2018; pp.1-13.
 6. **Alerhand S**. "Peripheral Vein Ultrasound." *Atlas of Handheld Ultrasound*. Eds. Nelson BP, Topol E, Bhagra A, Mulvagh SL, Narula J. Springer, 2018.
 7. **Alerhand S**. "Renal Ultrasound." *Atlas of Handheld Ultrasound*. Eds. Nelson BP, Topol E, Bhagra A, Mulvagh SL, Narula J. Springer, 2018.
 8. **Alerhand S**, Lakoff D. "Pericardial Tamponade." *Clinical Decision Support: Emergency Medicine*. Ed. John Ma, Beech Burns, Francis Counselman, John Marshall. Decision Support in Medicine, 2017.
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ABSTRACTS

1. Toor U, Traba C, Chen S, **Alerhand S**, Qiu L, Grachan J. Teaching abdominal sonography using fourth-year medical teaching assistants. 4th Annual International Association of Medical Science Educators, Virtual Forum, October 2025.
2. Alsharif P, Qiu L, Adrian R, Ostrovsky I, **Alerhand S**. Reusable Ultrasound phantom for simulating peripheral arterial and venous cannulation, New Jersey American College of Emergency Physicians Regional Conference, Sept 2023.
3. Peter Alsharif MD, Elena Wickstrom MD, **Stephen Alerhand MD**, Ilya Ostrovsky MD, "Case of an intra-orbital abscess." Society of Academic Emergency Medicine Clinical Imaging Exhibit, Austin TX. May 2023.
4. Adrian R, **Alerhand S**, Liteplo A, Shokoohi H. Is pulmonary hypertension protective against cardiac tamponade physiology? 26th Annual SAEM New England Regional Meeting. April 2023.
5. Alsharif P, Muckey E, Lu H, Zingaro L, Zhai M, Ramdin C, **Alerhand S**. Emergency Department workflow limits the utilization of fascia iliaca blocks for closed hip and femur fractures. Rutgers New Jersey Medical School Emergency Medicine Research Day. April 2022.
6. Adrian R, Alsharif P, Ghafoor N, Attalla K, Anana M, Ostrovsky I, **Alerhand S**. Fascia iliaca plane block teaching module and simulation for Emergency Medicine residents and faculty. Rutgers New Jersey Medical School Emergency Medicine Research Day. April 2022.
7. Mok T, Tu J, Adrian R, **Alerhand S**. Overutilization of computed tomography in evaluation for suspected renal colic in the emergency department. Rutgers New Jersey Medical School Emergency Medicine Research Day. April 2022.
8. Mok T, **Alerhand S**. Overutilization of computed tomography in evaluation for suspected renal colic in the emergency department. Society of Academic Emergency Medicine Annual Meeting. New Orleans – May 2022.
9. Alsharif P, Lu H, Muckey E, **Alerhand S**. Emergency department workflow limits the utilization of fascia iliaca blocks for hip and femur fractures. Society of Academic Emergency Medicine Annual Meeting. New Orleans – May 2022.
10. Adrian R, Choi A, Lamba S, Ostrovsky I, Traba C, Chen S, Ramdin C, Sudyn A, **Alerhand S**. Teaching module on ultrasound-guided venous access using a homemade gel model for fourth-year medical students. American Institute of Ultrasound in Medicine, electronic poster. San Diego – March 2022.
11. Adrian R, Alsharif P, Ghafoor N, Attaalla K, Anana M, Ostrovsky I, **Alerhand S**. Fascia iliaca plane block teaching module and simulation for emergency medicine residents and faculty. American Institute of Ultrasound in Medicine, electronic poster, March 2022.
12. Adrian R, Qiu L, Hedni M, Lleras S, Frishman A, **Alerhand S**. Suboptimal documentation of emergency department point-of-care ultrasound scans and missed potential revenue. American Institute of Ultrasound in Medicine, electronic poster. March 2022.
13. Adrian R, Choi A, Ostrovsky I, Traba C, Chen S, Ramdin C, Lamba S, Sudyn A, **Alerhand S**. Teaching Module on Ultrasound-Guided Venous Access Using a Homemade Gel Model for Fourth-Year Medical Students. Society of Academic Emergency Medicine Annual Meeting. 2021.
14. Qiu L, Adrian R, Hedni M, Lleras S, Frishman A, Ramdin C, **Alerhand S**. Suboptimal Documentation of Emergency Department Point-of-Care Ultrasound Scans Leads to Missed Potential Revenue. Society of Academic Emergency

Medicine Annual Meeting. 2021.

15. Soetanto V, Ferrara S, Zuckerman O, Sena A, Ostrovsky I, **Alerhand A**, Greenstein Y. Prospective diagnostic accuracy study comparing sensitivity and specificity of methods used to confirm correct placement of an intraosseous catheter. American Thoracic Society International Conference. Philadelphia, May 15.

16. Soetanto V, Ferrara S, Zuckerman O, Sena A, Ostrovsky I, **Alerhand A**, Greenstein Y. Prospective diagnostic accuracy study comparing sensitivity and specificity of methods used to confirm correct placement of an intraosseous catheter. New Jersey Medical School Department of Medicine Research Day. New Jersey, June 2020.

17. The REASON2a Group, Principle Investigator: Romolo Gaspari. Basic limited cardiac ultrasound is not the same as echocardiography – impact on cardiac arrest: A Multi-center REASON Study. 2020 Society of Academic Emergency Medicine (SAEM) Annual Conference. Denver, CO. April 2020.

18. The REASON2a Group, Principle Investigator: Romolo Gaspari. Limited cardiac ultrasound in cardiac arrest – impact on image quality: A Multi-center REASON Study. 2020 Society of Academic Emergency Medicine (SAEM) Annual Conference. Denver, CO. April 2020.

19. The REASON2a Group, Principle Investigator: Romolo Gaspari. Characteristics of brief limited cardiac ultrasound – implications on resuscitation: A Multi-center REASON Study. 2020 Society of Academic Emergency Medicine (SAEM) Annual Conference. Denver, CO. April 2020.

20. Carter J, Ostrovsky I, **Alerhand S**. Atypical Presentation of Fournier’s Gangrene Diagnosed by Point-of-Care Ultrasound in the Emergency Department. 2020 American Institute of Ultrasound in Medicine (AIUM) Annual Conference. New York, NY. Oral presentation. New York, March 2020.

21. Cherneykina M, Wei H, **Alerhand S**. Medial Plantar Artery Pseudoaneurysm Diagnosed by Point-of-Care Ultrasound in the Emergency Department. 2020 American Institute of Ultrasound in Medicine (AIUM) Annual Conference. New York, NY. Oral presentation. New York, March 2020.

22. Carter J, Ostrovsky I, Ramdin C **Alerhand S**. Medical Students Perceive a Pre-Clinical Ultrasound Curriculum to be Beneficial Toward Their Step 1 Learning. 2019 World Congress of Ultrasound in Medical Education. University of California – Irvine; September 2019.

23. Cisewski DH, **Alerhand S**. Superficial Cutaneous Anesthesia in a Lateral Leg Distribution: A Novel Approach to Anesthesia in the Emergency Department. 2018 SAEM Great Plains Regional Conference. Washington University in St. Louis; September 2018.

24. **Alerhand S**, Hu K, Mickman C, Apakama D, Mishoe J, Wilson Z, Nelson B. An Informatics Study on Point-of-Care Ultrasound For Abscesses: Evaluating the Use, Workflow Documentation, Billing, and Revenue Collection in the Emergency Department. 6th World Congress of Ultrasound in Medical Education (WCUME). Wake Forest; September 2018.

25. Rosenthal H, **Alerhand S**, Nelson B. The Effect of Point-of-Care Ultrasound for Cutaneous Abscesses on the Decision to Perform Incision and Drainage. 6th World Congress of Ultrasound in Medical Education (WCUME). Wake Forest; September 2018.

26. **Alerhand S**, Hu K, Mickman C, Apakama D, Mishoe J, Wilson Z, Nelson B. Evaluating the Use, Workflow Documentation, and Billing of Point-of-Care Ultrasound for Evaluating Cutaneous Abscesses in the Emergency Department: An Informatics Study. New York American College of Emergency Physicians (NY ACEP). Sagamore, New York; July 2018.

27. **Alerhand S**, Hu K, Mickman C, Apakama D, Mishoe J, Wilson Z, Nelson B. An Informatics Study on Point-of-Care Ultrasound For Abscesses: Evaluating the Use, Workflow Documentation, Billing, and Revenue Collection in the Emergency Department.” Consortium for Graduate Medical Education’s 9th Annual Resident and Fellow Research Day. Mount Sinai Hospital – June 2018.
28. **Alerhand S**, Hu K, Mickman C, Apakama D, Mishoe J, Wilson Z, Nelson B. Evaluating the Use, Workflow Documentation, and Billing of Point-of-Care Ultrasound for Evaluating Cutaneous Abscesses in the Emergency Department: An Informatics Study. World Interactive Network Focused on Critical Ultrasound (WINFOCUS). Madrid, Spain; April 2018. Oral presentation by Carl Mickman MD.
29. **Alerhand S**, Tay, ET. Ultrasound for Confirmation of Gastrostomy Tube Replacement in Children: A Case Series. St. Luke’s-Roosevelt 15th Annual Regional Ultrasound Symposium. St. Luke’s-Roosevelt; March 2018.
30. **Alerhand S**, Milliner B, Bentley S. Evaluation of a Novel Course in Point-of-Care Ultrasound for Emergency Medicine Residents in a Low-Resource Dominican Republic Hospital. 5th World Congress on Ultrasound in Medical Education (WCUME). Montreal; October 2017.
31. **Alerhand S**, Apakama D, Nevel A, Nelson B. Radial Artery Pseudoaneurysm Diagnosed by Point-of-Care Ultrasound Five Days After Transradial Catheterization: A Case Report. World Interactive Network Focused on Critical Ultrasound (WINFOCUS). Rosario, Argentina; September 2017.
32. **Alerhand S**, Milliner B, Bentley S. Evaluation of a Novel Course in Point-of-Care Ultrasound for Emergency Medicine Residents in a Low-Resource Dominican Republic Hospital. Society of Academic Emergency Medicine (SAEM), Moderated ePoster Presentation. Orlando; May 2017. Oral presentation by Suzanne Bentley MD MPH.
33. Sun J, **Alerhand S**, Shah K. A Standardized Signout Note Reinforced by a Simple Trackboard Icon Significantly Improves Verbal Handoff Quality Among Emergency Medicine Providers. Society of Academic Emergency Medicine (SAEM), Moderated ePoster Presentation. Orlando; May 2017. Oral presentation by Jean Sun MD.
34. Sun J, **Alerhand S**, Shah K. Do Emergency Department Providers Omit Pertinent Patient Information During Verbal Handoffs?. Society of Academic Emergency Medicine (SAEM). New Orleans; May 2016. Oral presentation by Jean Sun MD.
35. **Alerhand S**, Tay ET. Evaluating the risk of appendiceal perforation when using ultrasound as the initial diagnostic imaging modality in children with suspected appendicitis. American Institute of Ultrasound in Medicine (AIUM). New York; March 2016.
36. **Alerhand S**, Tay ET. Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis. American College of Emergency Physicians (ACEP). Boston; October 2015.
37. **Alerhand S**, Tay ET. Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis. Pediatric Academic Society Annual Conference. San Diego; April 2015.
38. **Alerhand S**, Tay ET. Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis. Society of Academic Emergency Medicine (SAEM) Mid-Atlantic Regional Conference. Washington D.C.; March 2015.

NON-PEER-REVIEWED PUBLICATIONS

1. **Alerhand S**, Panebianco N. Advanced Critical Care Echocardiography: An Expiring Pathway to Certification for

Emergency Physicians. ACEP Emergency Ultrasound Newsletter. May 2023.

2. Alsharif, P, Ali M, Lu H, Adrian RJ, Mueller A, Ostrovsky I, Alerhand S. "Pick-Up-and-Go Block Bags for Fascia Iliaca Blocks." The Scan: Official Blog of the American Institute of Ultrasound In Medicine." Jan 3 2023.

3. Prats M, Liu L, Theyyuni N, **Alerhand S**. Hot Topic: Point-of-Care Ultrasound Scholarly Tracks. ACEP Emergency Ultrasound Section Newsletter, May 2022.

4. Liu, L. **Alerhand S**. "What's with the Milestones Shake Up?" ACEP Emergency Ultrasound Section Newsletter, April 2021.

FREE ONLINE ACCESS MEDICAL EDUCATION

1. 3-Minute Ultrasound-Guided Nerve Block Videos. <https://www.youtube.com/@rutgersemergencyultrasound9669>

2. Hickey S, **Alerhand S**. "US Probe: Tricuspid Annular Plane Systolic Excursion (TAPSE) for Risk Stratifying Patients with Pulmonary Embolism." Emdocs.net August 2018.

3. Montrieff T, Scott JM, **Alerhand S**. "US Probe: Transesophageal Echocardiography in Cardiac Arrest." Emdocs.net August 2018.

4. **Alerhand S**. "US Probe: When does a Pericardial Effusion Become Pericardial Tamponade?" Emdocs.net. June 2018.

5. Cheung LW, **Alerhand S**. "US Probe: Ultrasound Guided Subclavian/Axillary Vein Catheterization." Emdocs.net. May 2018.

6. **Alerhand S**. "US Probe: Unmasking the Lung Pulse." Emdocs.net. Apr 2018.

7. Cisewski D, **Alerhand S**. "US Probe: E-Point Septal Separation in the CHF Patient." Emdocs.net. Feb 2018.

8. Tin J, Simmons C, Ditkowsky J, **Alerhand S**. "US Probe: Ultrasound for Shoulder Dislocation and Reduction." Emdocs.net. Jan 2018.

9. Cisewski D, Joh A, **Alerhand S**. "(Amateur) Boxer's Fracture" Emdocs.net. Jan 2018.

10. Volz N, Bogaert K, Rozehnal J, **Alerhand S**. "US Probe: Ultrasound for Small Bowel Obstruction." Emdocs.net. Nov 2017.

11. Lin W, **Alerhand S**. "US Probe: Ultrasound Abdominal Aortic Aneurysm." Emdocs.net. Sept 2017.

12. Ledonne S, Sengupta D, **Alerhand S**. "US Probe: Ultrasound Water Bath for Distal Extremity Evaluation." Emdocs.net. Aug 2017.

13. **Alerhand S**. "Ultrasound for Retained Radiolucent Foreign Body in Soft Tissue." Emdocs.net. Jun 2016.

14. **Alerhand S**. "Ultrasound for Confirmation of Endotracheal Tube Placement During CPR." Emdocs.net. Feb 2016.

15. **Alerhand S**. "Ultrasound for Optic Nerve Sheath Diameter." Emdocs.net. Dec 2015.

16. **Alerhand S.** “Popliteal Artery Injury from Blunt Trauma: A Trauma Case.” EMdocs.net. Nov 2015.
17. **Alerhand S.** “Ultrasound for Appendicitis.” EMdocs.net. Oct 2015.
18. **Alerhand S.** “Ultrasound for Achilles Tendon Rupture.” EMdocs.net. Jul 2015.
19. **Alerhand S.** “Ultrasound for Retinal Detachment.” EMdocs.net. June 2015.
20. **Alerhand S.** “Ultrasound for Pneumonia in the ED.” EMdocs.net. March 2015.
21. **Alerhand S.** “Ultrasound Guided Thoracentesis.” EMdocs.net. Feb 2015.
22. **Alerhand S.** “Ultrasound Guided Hematoma Block.” EMdocs.net. Dec 2014.
23. **Alerhand S.** “Transesophageal Echocardiography in Cardiac Arrest.” EMdocs.net. Dec 2014.
24. **Alerhand S.** “Ultrasound for Lumbar Puncture: How to Maximize First-Pass Success in Patients with Large Body Habitus.” EMdocs.net. Nov 2014.
25. **Alerhand S.** “Ultrasound for Small Bowel Obstruction.” EMdocs.net. Oct 2014.
26. **Alerhand S.** “Ultrasound for Pediatric Skull Fractures.” EMdocs.net. Oct 2014.
27. **Alerhand S.** “Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis in the Pediatric Population.” EMdocs.net. Oct 2014.
28. **Alerhand S.** “CT Versus Ultrasound for Kidney Stones.” EMdocs.net. Oct 2014.
29. **Alerhand S.** “Spinal Epidural Abscess.” EMdocs.net. Jul 2014.

MANUSCRIPT REVIEWER

Annals of Emergency Medicine
Academic Emergency Medicine
American Journal of Emergency Medicine
Journal of Emergency Medicine
Western Journal of Emergency Medicine
POCUS Journal

EXTERNAL PRESENTATIONS

Grand Rounds Speaker, University of Texas Southwestern Medical Center. “Cardiac Tamponade: Pearls, Pitfalls, & Misconceptions.” December 2024.

Invited Virtual Lecturer to Northwell Pediatric Emergency Ultrasound Division. “POCUS for Airway Confirmation.” November 2023.

Keynote Graduation Speaker for Northeast Regional Alliance (NERA) Med Prep Scholars Program for traditionally underrepresented or economically disadvantaged college students interested in attending medical school. “Lessons Learned from My Journey Through Medicine.” Rutgers, Mount Sinai, and Columbia Medical School. July 2023.

Pre-Conference Virtual Plenary Speaker, 26th Annual Scientific Assembly of the Israeli Association of Emergency Medicine (IAEM). “Echocardiography for Acute Pulmonary Embolism vs Chronic Pulmonary Hypertension.” June 2023.

Paid Guest Speaker, Conceptos Emergency Medicine Annual Conference. “The Oft-Forgotten Right Ventricle.” Toledo, Spain. November 2022.

Israeli Association of Emergency Medicine Guest Lecture Series. “Point-of-Care Ultrasound for Airway Management.” May 2022.

Invited Conference Speaker, Johns Hopkins Emergency Medicine Residency. “Point-of-Care Ultrasound for the Difficult Airway.” January 2022.

Rising Stars in Emergency Ultrasound, Mount Sinai System 19th Annual Regional Ultrasound Symposium. “POCUS for Airway Confirmation.” April 2022.

Grand Rounds Speaker, Mount Sinai Emergency Medicine Annual Physician Assistant Ultrasound Conference. “Lung Ultrasound for Rapid Clinical Decision-Making.” January 2022.

Sociedad Peruana de Medicina Intensiva, XVI Congreso Internacional de Medicina Intensiva. “Echocardiographic Findings of Acute Right Ventricular Strain that Suggest Pulmonary Embolism.” November 2021.

Sociedad Peruana de Medicina Intensiva, XVI Congreso Internacional de Medicina Intensiva. Point-of-Care Ultrasound Round Table. November 2021.

Israeli Association of Emergency Medicine Guest Lecture Series. “Echocardiographic Findings of Acute Right Ventricular Strain that Suggest Pulmonary Embolism.” January 2021.

Columbia University Emergency Ultrasound Division Guest Lecture. “The Echocardiographic Findings of Pericardial Tamponade.” January 2021.

Emergency Medicine Residents’ Association (EMRA) Ultrasound Careers Panel. Council of Emergency Medicine Residency Directors (CORD) Annual Conference. New York – February 2020.

New Jersey American College of Emergency Physicians (ACEP). “Ultrasound-Guided Peripheral Venous Access.” Princeton Crowne Plaza – September 2019.

Asociación de Medicina de Urgencias y Desastres de México A.C. (AMUDEM) International Congress. “Valvular Dysfunction for the Resuscitator.” Puerto Vallarta, Mexico – May 2019.

Pre-Conference Critical Care Ultrasound Workshop for 23rd Annual Scientific Assembly of the Israeli Association of Emergency Medicine (IAEM). “Pericardial Tamponade.” Tel Aviv, Israel – March 2019.

New Jersey Emergency Medicine Joint Conference. “When Does a Pericardial Effusion Become Tamponade.” Rutgers New Jersey Medical School – January 2019.

Massachusetts General Hospital Emergency Ultrasound Division Journal Club. “What Echocardiographic Findings Suggest a Pericardial Effusion is Causing Tamponade?” January 2019.

Asociación Mexicana en Ultrasonografía Crítica y Urgencias (AMUSCU) A.C. Invited Guest Lecture Series – Online Webinar. “When Does a Pericardial Effusion Become Tamponade.” December 2018. Over 7,500 views.

Pre-Conference Critical Care Ultrasound Workshop for 22nd Annual Scientific Assembly of the Israeli Association of Emergency Medicine (IAEM). “Regional Wall Motion Abnormalities.” Tel Aviv, Israel – March 2018.

Pre-Conference Critical Care Ultrasound Workshop for 22nd Annual Scientific Assembly of the Israeli Association of Emergency Medicine (IAEM). “Cardiac Valvular Dysfunction.” Tel Aviv, Israel – March 2018.

22nd Annual Scientific Assembly of the Israeli Association of Emergency Medicine (IAEM). Plenary podium presentation: “Spontaneous Intracerebral Hemorrhage: Critical Actions in the First Hour.” Tel Aviv, Israel – March 2018.

St. Luke’s-Roosevelt 15th Annual Regional Ultrasound Symposium. Research oral presentation: “Evaluating the Use, Workflow Documentation, and Billing of Point-of-Care Ultrasound for Evaluating Cutaneous Abscesses in the Emergency Department: An Informatics Study.” St. Luke’s-Roosevelt Hospital – March 2018.

World Congress on Ultrasound in Medical Education (WCUME). Moderated poster presentation: “Evaluation of a Novel Course in Point-of-Care Ultrasound for Emergency Medicine Residents in a Low-Resource Dominican Republic Hospital. Montreal – October 2017.

New York ACEP Annual Scientific Assembly. New Speaker Forum podium presentation: “Best Practice in Emergency Medicine: Spontaneous Intracerebral Hemorrhage.” Sagamore, New York – July 2017.

Advanced Echocardiography Grand Rounds at Shaare Zedek Emergency Department. “Basic Echocardiography Review, Left Ventricular Contractility, Regional Wall Motion Abnormalities, and Valvular Dysfunction.” Jerusalem, Israel – May 2017.

American Institute of Ultrasound in Medicine (AIUM) Annual Conference. ePoster presentation: “Evaluating the risk of appendiceal perforation when using ultrasound as the initial diagnostic imaging modality in children with suspected appendicitis.” New York – March 2016.

American College of Emergency Physicians (ACEP) Annual Conference. ePoster presentation: “Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis.” Boston – October 2015.

Pediatric Academic Society (PAS) Annual Conference. ePoster presentation: “Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis.” San Diego – April 2015.

Society of Academic Emergency Medicine (SAEM) Mid-Atlantic Regional Conference. ePoster presentation: “Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis.” Washington D.C. – March 2015.

INTERNAL PRESENTATIONS

Weekly Residency Conference. POCUS for Advanced Airway Management. Rutgers New Jersey Medical School – January 2026.

Weekly Residency Conference. Hands-on Regional Anesthesia Workshop. Rutgers New Jersey Medical School – January 2026.

Weekly Residency Conference. Hands-on Regional Anesthesia Workshop. Rutgers New Jersey Medical School – March 2025.

MS1 Multimodal Curriculum. “Correlating Cardiac Point-of-Care Ultrasound to Anatomy, Physical Examination, and Electrocardiogram.” Rutgers New Jersey Medical School – February 2025.

Weekly Residency Conference. “Introduction to the Point-of-Care Ultrasound Division.” Rutgers New Jersey Medical School – July 2024.

Weekly Resident Conference. “Air Artifacts in All the Wrong Places.” Rutgers University Hospital – December 2023.

Weekly Resident Conference. “Transthoracic and Transesophageal Echocardiography for Cardiac Arrest.” Rutgers University Hospital – August 2023.

Intern Boot Camp. “Introduction to the Point-of-Care Ultrasound Division.” Rutgers New Jersey Medical School Emergency Medicine Residency – July 2023.

Weekly Resident Conference. “POCUS for Airway Management.” Rutgers University Hospital – June 2022.

Emergency Medicine and Orthopedics Femoral Nerve Block Protocol. University Hospital – April 2021.

Weekly Resident Conference. “Echo Findings of RV Strain in the Age of COVID.” Rutgers University Hospital – January 2021.

Weekly Resident Conference. “Pearls & Pitfalls in Using POCUS for Pneumothorax.” Rutgers University Hospital – November 2020.

Weekly Resident Conference. “Pearls, Pitfalls, Hacks, and Novel Techniques in Abdominal Point-of-Care Ultrasound.” Rutgers University Hospital – September 2020.

Weekly Resident Conference. “Tricuspid Annular Plane Systolic Excursion.” Rutgers University Hospital – September 2019.

Weekly Resident Conference. “Ultrasound Case Review.” Rutgers University Hospital – April 2019.

Weekly Resident Conference. “Ultrasound for Pneumonia.” Rutgers University Hospital – February 2019.

Weekly Resident Conference. “Introduction to Transesophageal Echocardiography.” Rutgers University Hospital – December 2018.

Weekly Resident Conference. “Ultrasound-Guided Femoral Nerve Block.” Rutgers University Hospital – September 2018.

Consortium for Graduate Medical Education’s 9th Annual Resident and Fellow Research Day. “An Informatics Study on Point-of-Care Ultrasound For Abscesses: Evaluating the Use, Workflow Documentation, Billing, and Revenue Collection in the Emergency Department.” Mount Sinai Hospital – June 2018.

ED-ICU Ultrasound Rounds. “Pericardial Tamponade.” Mount Sinai Hospital – September 2017.

Annual Regional Physician Assistant Conference. “Ultrasound for Peripheral Vein Access.” Mount Sinai Hospital – September 2017.

Consortium for Graduate Medical Education and Graduate School of Biomedical Science's 8th Annual Resident and Fellow Research Day. Poster Presentation: "Evaluation of a Novel Course in Point-of-Care Ultrasound for Emergency Medicine Residents in a Low-Resource Dominican Republic Hospital." Mount Sinai Hospital – May 2017.

Institute for Medical Education (IME) Education Research Day. Poster Presentation: "Evaluation of a Novel Course in Point-of-Care Ultrasound for Emergency Medicine Residents in a Low-Resource Dominican Republic Hospital." Mount Sinai Hospital – April 2017.

Intern Orientation Lectures. "Basic Echocardiography." Icahn School of Medicine at Mount Sinai, July 2017.

Intern Orientation Lectures. "Aortic Pathology." Icahn School of Medicine at Mount Sinai, July 2017.

Daily Morning Report case presentations as Teaching Resident. Mount Sinai Hospital, June 2016.

Journal Club Departmental Conference. "Quantifying Patient-Physician Communication and Perceptions of Risk During Admissions for Possible Acute Coronary Syndromes." Elmhurst Hospital Center, January 2016.

Emergency Medicine & Surgery Joint Trauma Conference. "Popliteal Artery Rupture." Elmhurst Hospital Center, October 2015.

Mount Sinai Services at Elmhurst Hospital Center Day of Recognition for Research and Scholarly Activity. Podium Presentation: "Safety of Ultrasound as the Initial Imaging Modality in Children with Suspected Appendicitis." June 2015.

Morbidity & Mortality Departmental Conference. "Infected Kidney Stones." Elmhurst Hospital Center, September 2014.

CORD Clinical Pathological Case Competition Residency Finalist. "A Case of Acute Aortic Occlusion." Elmhurst Hospital Center, November 2013.

Residency Morning Report Cases: Evidence-Based Updates and Advances on Management for Spontaneous Intracerebral Hemorrhage, Isoniazid Toxicity, Tuberculosis Meningitis, Perirectal Abscess, Intubation and Mechanical Ventilation in COPD, Lower Gastrointestinal Bleed, Spinal Epidural Abscess, Emergency Thoracotomy

GRANT FUNDING

Summer Health Professions Education Program (SHPEP) (\$800) Rutgers New Jersey Medical School	7/2025
Summer Health Professions Education Program (SHPEP) (\$800) Rutgers New Jersey Medical School	7/2024
Summer Health Professions Education Program (SHPEP) (\$800) Rutgers New Jersey Medical School	7/2023