Revised: August 2025

Matthew R. Klein, MD MPH FACEP

Assistant Professor of Emergency Medicine, Clinician Educator The Warren Alpert Medical School of Brown University

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EDUCATION

Undergraduate Yale University

B.A. Molecular, Cellular and Developmental

Biology (2005-2009)

Medical School The Warren Alpert Medical School of Brown

University

M.D. (2010-2014)

Other Advanced Degrees Yale School of Public Health

M.P.H (2008-2010)

POSTGRADUATE TRAINING

Residency McGaw Medical Center of Northwestern

University Emergency Medicine Residency

(2014-2018)

Fellowship Northwestern University Feinberg School of

Medicine Department of Emergency
Medicine Fellowship in Medical Education

Scholarship (2018-2020)

ADDITIONAL EDUCATION AND TRAINING

Medical Education Research Certificate

Association of American Medical Colleges

and Council of Residency Directors in Emergency Medicine (2016-2017)

Designing & Implementing Simulation-Based

Mastery Learning Curricula Course

Northwestern University Feinberg School of

Medicine (2019)

Leadership & Performance Coaching Certification Brown University School of Professional

Studies (2025-2026)

POSTGRADUATE HONORS AND AWARDS

Society for Academic Emergency Medicine Prize The Warren Alpert Medical School of Brown

University (2014)

Excellence in Community EM Award Northwestern Lake Forest Hospital

(2016)

Outstanding Teacher Recognition Northwestern University Feinberg School of

Medicine (2016, 2017, 2018, 2019, 2020,

2022)

Best Resident Role Model Award Northwestern Emergency Medicine

Residency (2017, 2018)

Best Resident Teacher Award Northwestern Emergency Medicine

Residency (2018)

Best Resident Innovator in Education Award Northwestern Emergency Medicine

Residency (2018)

Best Faculty Lecturer Award Northwestern Emergency Medicine

Residency (2019)

Recognition for Exemplary Professionalism Northwestern University Feinberg School of

Medicine (2019, 2020, 2021, 2022, 2023)

Best Faculty Innovator in Education Award Northwestern Emergency Medicine

Residency (2019, 2021)

Best Faculty Feedback Award Northwestern Emergency Medicine

Residency (2019, 2021, 2023)

Best Conference Module Leader Award Northwestern Emergency Medicine

Residency (2019, 2022)

Alpha Omega Alpha, Elected Northwestern University Feinberg School of

Medicine (2020)

David H. Salzman Junior Faculty Award

Northwestern Emergency Medicine

Residency (2020)

Morris Kharasch Award for Excellence in Teaching Northwestern Emergency Medicine

Residency (2021)

Best Faculty Procedure Teacher Award Northwestern Emergency Medicine

Residency (2021)

Best Faculty Role Model Award Northwestern Emergency Medicine

Residency (2022, 2023)

Excellence in Medical Student Education Award The Warren Alpert Medical School of Brown

University Department of Emergency

Medicine (2024)

Fellow Status (FACEP)

American College of Emergency Physicians

(2025)

Educational Excellence Award American College of Emergency Physicians

Rhode Island Chapter (2025)

Jessica L. Smith Resident Hero Award Brown Emergency Medicine Residency

(2025)

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Illinois Medical License (Temporary) (2014-2018)

Indiana Medical License (Temporary) (2015-2018)

Illinois Medical License (Permanent) (2018-2023)

Rhode Island Medical License (2023-Present)

American Board of Emergency Medicine (2019-Present)

ACADEMIC APPOINTMENTS

Chief Resident Northwestern University Feinberg School of

Medicine Department of Emergency

Medicine (2017-2018)

Clinical Instructor Northwestern University Feinberg School of

Medicine Department of Emergency

Medicine (2018-2020)

Assistant Professor Northwestern University Feinberg School of

Medicine Department of Emergency

Medicine (2020-2023)

Assistant Professor, Clinician Educator The Warren Alpert Medical School of Brown

University Department of Emergency

Medicine (2023-Present)

HOSPITAL APPOINTMENTS

Attending Physician Northwestern Memorial Hospital, Chicago,

IL (2018-2023)

Attending Physician Northwestern Lake Forest Hospital, Lake

Forest, IL (2018-2023)

Attending Physician Rhode Island Hospital, Providence, RI

(2023-Present)

Attending Physician The Miriam Hospital, Providence, RI (2023-

Present)

OTHER APPOINTMENTS

Assistant Residency Program Director Northwestern University Department of

Emergency Medicine (2018-2023)

Assistant Clerkship Director Northwestern University Department of

Emergency Medicine (2020-2021)

Clerkship Director Northwestern University Department of

Emergency Medicine (2021-2023)

Emergency Medicine Specialty Advisor Northwestern University Department of

Emergency Medicine (2022-2023)

Emergency Medicine Specialty Advisor The Warren Alpert Medical School of Brown

University (2023-present)

Mary B. Arnold Longitudinal Mentor

The Warren Alpert Medical School of Brown

University (2024-present)

DEPARTMENT COMMITTEES

Residency Recruitment Committee Member Northwestern University Department of

Emergency Medicine (2015-2023)

Program Director Search Committee Member Northwestern University Department of

Emergency Medicine (2016-2017)

Program Evaluation Committee Member Northwestern University Department of

Emergency Medicine (2016-2023)

Residency Leadership Committee Member Northwestern University Department of

Emergency Medicine (2017-2023)

Clinical Competency Committee Member Northwestern University Department of

Emergency Medicine (2018-2023)

UNIVERSITY COMMITTEES

Alumni Schools Committee Interviewer Yale University (2013-2023)

Admissions Committee Member Northwestern University Feinberg School of

Medicine (2019-2023)

Admissions Committee Member The Warren Alpert Medical School of Brown

University (2012-2014, 2023-Present)

Medical Committee on Academic Standing and Professionalism Member

The Warren Alpert Medical School of Brown University (2023-Present)

MEMBERSHIP IN SOCIETIES

Society for Academic Emergency Medicine (2014-Present)

American College of Emergency Physicians (2018-Present)

Council of Residency Directors in EM (2018-2023)

Feinberg Academy of Medical Educators (2018-2023)

Clerkship Directors in Emergency Medicine (2021-2023)

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

- Safdar B, McGregor AJ, McKee S, Ali A, Radulescu R, Himelfarb N, Klein M, Mazure C. Inclusion of Gender in Emergency Medicine Research. Acad Emerg Med 2011;18(2):e1-4. PMID: 21314767
- 2. Safdar B, Bezek SK, Sinusas AJ, Russell RR, **Klein MR**, Dziura JD, D'Onofrio G. Elevated CK-MB with a Normal Troponin Does Not Predict 30-Day Adverse Cardiac Events in Emergency Department Chest Pain Observation Unit Patients. *Crit Pathw Cardiol.* 2014;13(1):14-9. PMID: 24526146.
- 3. McCarthy DM, Powell RE, Cameron KA, Salzman DH, Papanagnou D, Doty AMB, Leiby BE, Piserchia K, **Klein MR**, Zhang XC, McGaghie WC, Rising KL. Simulation-based mastery learning compared to standard education for discussing diagnostic uncertainty with patients in the emergency department: a randomized controlled trial. *BMC Medical Education*. 2020;20(1):49. PMID: 32070353
- Klein MR, Schmitz ZP, Adler MD, Salzman DH. Development of a Rigorously-Designed Procedural Checklist for Assessment of Emergency Medicine Resident Performance of Temporary Transvenous Cardiac Pacing. AEM Educ Train 2021;5(3):e10566. PMID: 34124512
- Leibowitz MK, Scudder MR, McCabe M, Chan JL, Klein MR, Trueger NS, McCarthy DM. Emergency medicine influencers' Twitter use during the COVID-19 pandemic: a mixed methods analysis. West J Emerg Med 2021;22(3):710-718. PMID: 34125051
- Papanagnou D, Klein MR, Zhang XC, Cameron KA, Doty A, McCarthy DM, Rising KL, Salzman DH. Developing Standardized Patient-Based Cases for Communication Training: Lessons Learned from Training Residents to Communicate Diagnostic Uncertainty. Adv Simul 2021;6(1):26. PMID: 34294153
- 7. Poluch M, Feingold-Link J, Ankam N, Kilpatrick J, Cameron K, Chandra S, Doty A, **Klein M**, McCarthy D, Rising K, Salzman D, Ziring D, Papanagnou D. I Don't Have A Diagnosis for You: Preparing Medical Student to Communicate Diagnostic Uncertainty in

- the Emergency Department. MedEdPORTAL 2022;18:11218. PMID 35178469
- Rising KL, Cameron KA, Salzman DH, Papanagnou D, Doty AMB, Piserchia K, Leiby BE, Shimada A, McGaghie WC, Powell RE, Klein MR, Zhang XC, Vozenilek J, McCarthy DM. Communicating Diagnostic Uncertainty at Emergency Department Discharge: A Simulation-Based Mastery Learning Randomized Trial. *Acad Med* 2023;98(3):384-393. PMID 36205492.
- Klein MR, Schmitz ZP, Adler MD, Salzman DH. Simulation-based Mastery Learning Improves Emergency Medicine Residents' Ability to Perform Temporary Transvenous Cardiac Pacing. West J Emerg Med 2023;24(1):43-49. PMID 36602498.
- Klein MR, Loke DE, Barsuk JH, Adler MA, McGaghie WC, Salzman DH. Twelve Tips for Developing Simulation-Based Mastery Learning Clinical Skills Checklists. *Med Teach* 2025;47(2):212-217. Epub 2024 Apr 26. PMID: 38670308
- 11. **Klein MR**, Loke DE, Mitchell ME, Barsuk JH, McGaghie WC, Salzman DH. Developing Simulation-Based Mastery Learning Curricula for Emergency Medicine Skills Training. *AEM Educ Train* 2025;9(3):e70058. PMID: 40521339

OTHER PEER-REVIEWED PUBLICATIONS

- 1. **Klein M**, Levine M. High pressure injection injury. *Visual J Emerg Med* 2017;8:46-47.
- 2. **Klein MR**. Infections of the Oropharynx. *Emerg Med Clin N Am* 2019;37:69-80. PMID: 30454781.
- 3. **Klein MR**, Sanguino SM, Salzman DH. A Challenge to Disrupt the Disruptive Process of Residency Interview Invitations. *J Grad Med Educ* 2019;11(4):375-77. PMID: 31440328.
- 4. **Klein MR**. Maintaining Cerebral Perfusion. *AEM Educ Train* 2021;5(4):e10708. PMID: 34859172
- 5. Klein MR. All Good Things. AEM Educ Train 2023;7(2):e10859. PMID 36970558
- 6. Klein MR. Secondary Outcomes. AEM Educ Train 2023;7(6):e10923. PMID 38046088
- 7. **Klein MR**, Quarles AR, Fant AL. Help Me Help You: How to Request a Letter of Recommendation. *South Med J* 2024;117(2):106-107. PMID: 38307508.
- 8. **Klein MR**, Leibowitz MK, Fant AL. Evidence-Informed Emergency Medicine Career Advising. *AEM Educ Train* 2024; 8(3):e10969. PMID: 38765707
- 9. Klein MR. First Impressions. Acad Med [accepted]

PUBLISHED ABSTRACTS

- Safdar B, Ali A, Radulescu R, Himelfarb D, Klein M, McKee S, Mazure C, McGregor A. Scope of Gender Specific Research in Emergency Medicine. J Womens Health 2010;19(3):631.
- 2. Klein M, Fant A, Lank P. Does Standardized Video Interview Score Correlate with In-

- Person Interview Score in Emergency Medicine Residency Applicants? *Ann Emerg Med* 2018;72(4):S7-S8.
- 3. Mitchell M, **Klein M**, Salzman D, Fant A. Procedure Passports: The Journey to Procedural Competence. *West J Emerg Med* 2024;25(3.1):S60.

BOOKS AND BOOK CHAPTERS

1. **Klein M**, Stanton R, Gottlieb M. Social Media in Medicine. In: Strauss R, Mayer T, ed. Emergency Medicine Management, 2nd edition. 2021. Dallas, TX: American College of Emergency Physicians.

OTHER NON-PEER REVIEWED PUBLICATIONS

- 1. Miller D, **Klein M**. Applying cognitive load theory to emergency medicine handoffs. EM Resident 2018; 20-21.
- 2. Schnapp B, **Klein M**. Pelvic Inflammatory Disease. In: The 2018 Lifelong Learning and Self-Assessment Study Guide. 2017. Norcross, GA: EB Medicine.

ABSTRACTS (ORAL/POSTER)

- 1. **Klein M**, Ranney M, Choo E. Psychosocial correlates of early alcohol initiation among adolescents. Poster presentation at the American Public Health Association Annual Meeting 2012.
- 2. Reuter Q, **Klein M**, Grabow K, Schnapp B. A Near-Peer Educational Initiative to Equip Interns with Conceptual Frameworks for Emergency Medicine Chief Complaints. Poster presentation at the CORD Academic Assembly 2016.
- 3. **Klein M**, Fant A, Lank P. Does standardized video interview score correlate with in-person interview score among emergency medicine residents? Oral presentation at ACEP Scientific Assembly 2018.
- Klein M, Fant A. An Interventional Pulmonology Rotation Increases Emergency Medicine Resident Fiberoptic Intubations. Poster presentation at the Lewis Landsberg Research Day, Northwestern University Feinberg School of Medicine 2018.
- 5. Rising KL, Cameron KA, Salzman DH, Papanagnou D, Doty AMB, Piserchia K, Leiby BE, Shimada A, McGaghie WC, Powell RE, Klein MR, Zhang XC, McCarthy DM. Simulation Based Mastery Learning for Emergency Department Residents Discharging Patients with Diagnostic Uncertainty: Results from a Randomized Control Trial. Oral presentation at the 2021 Virtual International Conference on Communication in Healthcare.
- 6. Mitchell M, **Klein M**, Salzman D, Fant A. Procedure Passports: The Journey to Procedural Competency. Poster presentation at the CORD Academic Assembly 2024.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

- 1. Miller D, **Klein M**. NUEM Blog: My Brain Hurts: Applying Cognitive Theory to Emergency Medicine Handoffs? 2017. http://www.nuemblog.com/blog/cognitive-load
- 2. **Klein M**, Burns B. NUEM Blog: Infestations. 2017. http://www.nuemblog.com/blog/infestations

- 3. **Klein M.** NUEM Blog: What You Didn't Know About The Holiday Season: A Brief On Holiday Morbidity & Mortality. 2016. http://www.nuemblog.com/blog/holidazed
- 4. **Klein M**. NUEM Blog: Top 5 Papers: Being a Senior Resident. 2016. http://www.nuemblog.com/blog/top-5-mk
 - **Klein M**, Huebinger R. NUEM Blog: Influenza Like Mimics. 2016. http://www.nuemblog.com/blog/ili-mimics/
- 5. **Klein M**, Macias M. NUEM Blog: The Rockets' Red Glare: Tips For Firework Safety. 2016. http://www.nuemblog.com/blog/firework-safety/
- 6. **Klein M**, Macias M. NUEM Blog: The Achy Breaky Heart. 2016. http://www.nuemblog.com/blog/achy-breaky-heart/

INVITED PRESENTATIONS

National

- 1. Monette D, Joshi N, **Klein M.** Maintaining Engagement in Social Media, CORD Academic Assembly, San Antonio, TX (2018)
- 2. Li-Sauerwine S, **Klein M**, Ketter A, Weygandt P, Fant A. Don't Drown! How to Transition Swimmingly from Resident to Faculty in Academic Emergency Medicine, SAEM Annual Meeting, Las Vegas, NV (2019)
- 3. **Klein M.** Can't Miss Diagnoses in Homeless Patients, Rocky Mountain Winter Conference, Breckenridge, CO (2020)
- 4. **Klein M.** Clinical Pathologic Case Competition Faculty Discussant, CORD Academic Assembly, New York, NY (2020)
- 5. Burns W, **Klein M.** Negotiating Beyond Salary, CORD Academic Assembly, New York, NY (2020)
- 6. **Klein M.** Sore Throat: The Ultimate Sick or Not Sick, ACEP Virtual Grand Rounds (2021)
- 7. Loke D, **Klein M**, Adler M, Barsuk J, McGaghie B, Salzman D. Mastering Checklist Design for Mastery Learning: Creating Rigorous Assessment Tools for Competency-Based Procedure Training, International Meeting on Simulation in Healthcare, Orlando, FL (2025)

UNIVERSITY TEACHING ROLES

Northwestern University Feinberg School of Medicine

EM Clerkship Dysrhythmia Session (monthly, average class size: 20)	(2018-2023)
EM Clerkship Approach to Undifferentiated Patients Session (monthly, average class size: 20)	(2021-2023)
EM Clerkship Approach to Alerted Mental Status Session (monthly, average class size: 20)	(2018-2023)
EM Clerkship Ethics & Professionalism Session (monthly, average class size 20)	(2021-2023)
Introduction to Phase 3 Communicating Diagnostic Uncertainty Session (annually, average class size: 150)	(2021-2022)
Introduction to Phase 3 Teaching, Learning & Feedback Session (annually, average class size: 20)	(2019-2020)
Introduction to Phase 3 Acute Care Pharmacology Cases (annually, average class size: 20)	(2019-2020)
Synthesis & Application Module IV Simulation Session (annually, average class size: 10)	(2017-2020)
Synthesis & Application Module II Simulation Session (annually, average class size: 10)	(2016-2018)
Capstone Airway Boot Camp (annually, average class size: 15)	(2016-2018)
Capstone First Night on Call Simulation (annually, average class size: 15)	(2016-2017)
EM Clerkship Airway and Suturing Skills Lab (monthly, average class size: 20)	(2015-2017)
Northwestern University Department of Emergency Medicine	
EM Foundations PGY1 Curriculum (weekly, average class size: 15)	(2016-2018)
Residency Conference OB/GYN Module Leader	(2018, 2020, 2022)
Residency Conference General & Vascular Surgery Module Leader	(2019, 2022)
Residency Conference ENT Module Leader	(2019)
Residency Conference Toxicology & Environmental Module Leader	(2020, 2022)
Residency Simulation Curriculum Instructor	(2018-2023)
PGY1 Procedures Boot Camp (annually, average class size: 15)	(2018-2023)

PGY4 Procedures Simulation (annually, average class size: 15)	(2021-2022)
The Warren Alpert Medical School of Brown University	
BIOL 5880 Medical Education Elective	(2014)
Doctoring III & IV Instructor	(2023-2025)

MENTORING ROLES

McGaw Medical Education Clinical Scholars Program

Faculty advisor for Zachary Schmitz, MD (2019-2021) Scholarly Outputs:

- Klein MR, Schmitz ZP, Adler MD, Salzman DH. Simulation-based Mastery Learning Improves Emergency Medicine Residents' Ability to Perform Temporary Transvenous Cardiac Pacing. West J Emerg Med 2023;24(1):43-49. PMID 36602498.
- Klein MR, Schmitz ZP, Adler MD, Salzman DH. Development of a Rigorously-Designed Procedural Checklist for Assessment of Emergency Medicine Resident Performance of Temporary Transvenous Cardiac Pacing. AEM Educ Train 2021;5(3):e10566. PMID: 34124512

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1.	Shawn Luo, MD	(2018-2022)
2.	David Feiger, MD	(2018-2022)
3.	Cameron Jones, MD MPH	(2019-2023)
4.	John Li, MD	(2020-2023)
5.	David Cook, MD	(2021-2023)
6.	Jil Shimberg, MD	(2022-2023)

Northwestern University Emergency Medicine Specialty Advisor

Sasha Becker, MD (matched to Northwestern University)	(2022-2023)
Joshua Faber, MD (matched to NYP/Weil Cornell)	(2022-2023)
Andrew Geiser, MD (matched to University of Chicago)	(2022-2023)
Maxwell McMahon, MD (matched to Ichan / Mount Sinai)	(2022-2023)
Victor Pinto, MD (matched to University of Washington)	(2022-2023)
	Sasha Becker, MD (matched to Northwestern University) Joshua Faber, MD (matched to NYP/Weil Cornell) Andrew Geiser, MD (matched to University of Chicago) Maxwell McMahon, MD (matched to Ichan / Mount Sinai) Victor Pinto, MD (matched to University of Washington)

The Warren Alpert Medical School of Brown University Emergency Medicine Specialty Advisor

1.	Ryan Cunningham, MD (matched to Beth Israel Deaconess)	(2024-2025)
2.	Makena Mette, MD (matched to Highland Hospital/Alameda Health)	(2024-2025)
3.	Aakash Setty, MD (matched to University of Miami Jackson Health)	(2024-2025)
4.	Noah Feldman	(2025-2026)
5.	Elizabeth Terry-Kantor	(2025-2026)
6.	Justin Wyda	(2025-2026)

The Warren Alpert Medical School of Brown University Advanced Clinical Mentorship

1. Makena Mette (2023-2024)

Brown Emergency Medicine Residency Faculty Coach

1. Dylan Perez, DO (2023-Present)

The Warren Alpert Medical School of Brown University

Medical Student Pride Alliance, Faculty Mentor	(2024-Present)
COMMUNITY ENGAGEMENT	
Bank of America Chicago Marathon Volunteer Physician	(2014-2023)
Chicago Blackhawks Emergency Physician	(2018-2023)