

ANDREW BECK, MD, MS

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EDUCATION

Undergraduate

Purdue University
B.S
2000-2004
Honors: Dean's List

Medical School

Case Western Reserve University
School of Medicine
M.D.
2013-2017
Honors: Distinction in Research, AOA,
Caughey Scholar

Other Advanced Degrees/Certificates

Indiana University
M.S.
2007

POSTGRADUATE TRAINING

Residency

Brown University Emergency
Medicine Residency
593 Eddy St. Providence, RI
2017-2021

Fellowship

Medical Education Research
Fellowship
55 Claverick St. Providence, RI
2021-2022

POSTGRADUATE HONORS AND AWARDS

2023 RI American College of Emergency Physicians Educational Innovation Award

2022 Brown Emergency Medicine Faculty Development Grant, \$40,000 award
2022 Clinical and Pathologic Case Conference Winner, Brown Emergency Medicine
 2021 Daniel L. Savitt Resident Teaching Award
 2020 Brown Emergency Medicine Resident Research Grant
 2020 Rhode Island ACEP Emergency Physician of the Year
 2019 Lifespan Simulation Center Research Scholarship
 2017 CWRU Honors with Distinction in Research Graduate
 2017 Alpha Omega Alpha inductee
 2016 AMA Physicians of Tomorrow Scholar
 2016 Oregon Health and Science University Visiting Student Scholarship
 2015-2016 Scholarship in Teaching Award - Case Western Reserve University
 2015 IAMSE Outstanding Presentation Award Finalist
 2015 Case Western Reserve University Medical Student Research Award Finalist
 2013-2016 Bent Arrow Scholarship: Case Western Reserve University, School of Medicine
 2013 Caughey Scholarship: Case Western Reserve University, School of Medicine
 2011 Hast Scholarship Recipient: Post-Baccalaureate Premed – Washington University
 2009 Excellence Award – Community Service – Booz Allen Hamilton
 2009 Achievement Award, Business Development Competition - Booz Allen Hamilton
 2008 IdeasFest Intellectual Capital Competition – Panel Selection/Notable Mention
 2007 Dean’s Scholarship: For Academic Merit and Financial Need – Indiana University
 2007-2012 Five Time Recipient: High 5 Performance Award – Booz Allen Hamilton
 2007-2012 Three Time Recipient: Performance and Team Award - Booz Allen Hamilton

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Rhode Island Board of Registration in Medicine	2017-Present
American Board of Emergency Medicine	#73698

ACADEMIC APPOINTMENTS

Assistant Professor, Teaching Scholar Track	Warren Alpert Medical School Department of Emergency Medicine 2022-Present
Assistant Professor, Clinician Educator Track	Warren Alpert Medical School Department of Emergency Medicine 2021-2022

HOSPITAL APPOINTMENTS

Attending Physician Hospital, Hasbro Children’s Hospital	Rhode Island Hospital, The Miriam 2021-Present
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MEMBERSHIP IN SOCIETIES

(List and include a termination date where appropriate; indicate office held or honors awarded)

Society for Academic Emergency Medicine (SAEM)	Member, 2017 – Present
Academy: Global Emergency Medicine	Member, 2019 – Present

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

Beck A, MD MS, Diaz MI, ScM, Odoom E, ScM, Niyigirimbabazi C, MD, Longerstaey O, MD, Ndebwanimana V, MD, Uwamahoro D, MD, Karim N, MD. Remote Teaching in a Rwandan

Emergency Medicine Residency: A Viable Option with Limited In-person Staff. Af J Emerg Med, Submitted, Mar 2023.

Drury B, Gomes T, Horton M, **Beck AC**. "High-pressure Injection Injury with Abdominal Visceral Involvement." *Ann Emer Med*. Accepted Jul 2022.

Beck A, MD MS, Lash E, MD, Hack JB, MD. Environmental Toxic Exposures Using Companion Animals as an Indicator of Human Toxicity: A Case Report and Discussion. *Journal of Emergency Medicine*, March 2020

Beck A, MS, Wood C, MM, Helms R, Ph.D, Arvizo C, MD, Cherry BM, MD, Ziats, N, Ph.D. "Peer-Assisted Learning in Introductory Histopathology Improves Learner Scores and Delivers Learner Satisfaction." *Med Sci Educ*. 12 Nov 2015. doi: 10.1007/s40670-015-0207-6

Braude S, Ph.D, **Beck A**, MS. "Complete blood counts with differential: more accurate reference ranges based on circadian leukocyte trafficking." *J Clin Pathol*. 12 Aug 2013. doi: 10.1136/jclinpath-2013-201776

OTHER PEER-REVIEWED PUBLICATIONS

Beck A, MD MS. "Motivation in Education." *Brown University Emergency Medicine Blog*. 30 Jun 2021

Beck A, MD MS. "To do or not to do an Emergency Department (ED) Resuscitative Thoracotomy: Alternatives to ED Thoracotomy at Non-Trauma Centers." *Brown University Emergency Medicine Blog*. 15 Feb 2020

Beck A, MD MS. "Acetaminophen, Acetylcysteine, and Anaphylaxis with a Twist." *Brown University Emergency Medicine Blog*. 3 Jan 2019. <http://brownemblog.com/blog-1/2018/12/19/pediatric-emergency-medicine-case-report-anaphylaxis-with-a-twist>

Beck A, MD MS. "Seymour Fractures." *Brown University Emergency Medicine Blog*. 15 Dec 2017. <http://brownemblog.com/orthopedics>

BOOKS AND BOOK CHAPTERS

Beck A, MD MS, Merritt R MD. Chapter 4 – Intubation Basics. *The Clerkship Guide*. Wolters Kluwer Medicine, 2019.

Beck A, MD MS, Smith J, MD. *Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Q&A, Chapters 62-65*, McGraw Hill, 2018.

ABSTRACTS (ORAL/POSTER)

Eric Ebert, Agnes Karingo Karume, Philemon Mwongera, Pirirei Sankei, Janet J. Sugut, Grace Wanjiku, Justin Myers, Amina Guleid, **Andrew Beck**. Improvement in Knowledge of Diabetic Ketoacidosis Management Following a Case-Based Curriculum in Kenya. *Academic Emergency Medicine*. Volume 30, Issue S1. Special Issue: SAEM2023 Annual Meeting Abstracts. May 2023. (Abstract) Page 561. DOI: 10.1111/acem.14718

Beck AC, Diaz MI, Odoom E, Niyo C, Longerstaey O, Ndebwanimana V, Uwamahoro D, Karim N. Remote Teaching in a Rwandan Emergency Medicine Residency: A viable option with limited in-person staff during a pandemic. *World Association for Disaster and Emergency Medicine International Conference, 2023*

Beck AC, Quinn A, Sternlicht E, Maguire S, Schmitt P, Fisher W. "A Periscope-Based, Locally Producing, 3D-Printable Indirect Laryngoscope for Resource-Limited Settings." *Society for Academic Emergency Medicine Annual International Conference*. New Orleans, LA, USA, May 2022.

Karume AK, Sugut J, Pirirei S, Guleid A, Kimathi PM, Wanjiku G, Myers JG, **Beck AC**. An Evaluation of Current Practices in Management of Diabetic Ketoacidosis in a Kenyan Academic Medical Center. Abstract. Society for Academic Emergency Medicine Annual International Conference. New Orleans, LA, USA, May 2022.

Karume AK, Sugut J, Pirirei S, Guleid A, Kimathi PM, Wanjiku G, Myers JG, **Beck AC**. An Evaluation of Current Practices in Management of Diabetic Ketoacidosis in a Kenyan Academic Medical Center. Abstract. Society for Academic Emergency Medicine, New England Regional Director's Meeting. College of the Holy Cross, Worcester, MA. 6 Apr 2022.

Beck AC, Quinn A, Sternlicht E, Maguire S, Schmitt P, Fisher W. "A Periscope-Based, Locally Producing, 3D-Printable Indirect Laryngoscope for Resource-Limited Settings." Society for Academic Emergency Medicine, New England Regional Director's Meeting. College of the Holy Cross, Worcester, MA. 6 Apr 2022.

Karume AK, Sugut J, Pirirei S, Guleid A, Kimathi PM, Wanjiku G, Myers JG, **Beck AC**. An Evaluation of Current Practices in Management of Diabetic Ketoacidosis in a Kenyan Academic Medical Center. Presentation. 12th Kenya Medical Research Institute (KEMRI) Annual Science and Health Conference (KASH), February 2022.

Beck A, MD MS, Lash E, MD, Hack JB, MD. Environmental Toxic Exposures Using Companion Animals as an Indicator of Human Toxicity: A Case Report and Literature Review. American College of Medical Toxicology, Annual Scientific Meeting. New York, USA. March 2020. Poster/Abstract.

Musits A, MD, Petrone G, DO, Pasichow S, MD, **Beck A**, MD MS. "GAS, PEARLS, and DIAMONDS: The Application of Debriefing Frameworks. International Meeting on Simulation in Healthcare, Society for Simulation in Healthcare, San Diego, January 2020. Presentation.

Beck A, MS, Wood C, MM, Helms R, Ph.D, Arvizo C, MD, Cherry BM, MD, Ziats, N, Ph.D. "Peer-Assisted Learning in Introductory Histopathology Improves Learner Scores and Delivers Learner Satisfaction." International Association of Medical Science Educators, 2015 International Meeting, San Diego, CA, 14 Jun 2015. Presentation.

Zeer, V, Shatzman S, **Beck A**, MS, Ataucuri-Vargas JB, MD, Fettig J, MD MS, Daphtary K, MD. "Investigating the Knowledge, Attitudes, Practices surrounding the Home Treatment of Diarrheal Illnesses in Rural Peru and Eliminating Barriers through Global Health Education." Cleveland Clinic Foundation Fourth Annual Workshops in Global Health Conference, Cleveland, Ohio, 23 Jan 2016. Poster/Abstract.

Beck A, MS, Zeer, V, Shatzman S, Ataucuri-Vargas JB, MD, Fettig J, MD MS, Daphtary K, MD. "Understanding the Knowledge, Attitudes, Practices, and Barriers around the Home Treatment of Diarrheal Illnesses in Rural Peru." American Pediatrics Society and Society for Pediatrics Research - Annual Meeting, Cleveland, Ohio, 31 Oct 2014. Poster/Abstract.

Teal J, **Beck A**, MS. "Business Modeling: Quantitative Analysis of Operations". Society of Cost Estimation and Analysis, Journal Publication and Annual Conference Presentation, 11 June 2010. Presentation.

INVITED PRESENTATIONS

National/International

Beck AC. Clinical Pathological Case Competition – Baclofen Withdrawal. Council of EM Residency Directors (CORD) National Conference, Las Vegas, NV, March, 2023.

Beck A, Merritt C, Matulis C, Petrone G, Clyne B. Rise to the Challenge: Techniques for teaching challenging learners in the ED. Society for Academic Emergency Medicine, May, 2022, and Brown University, Continuing Medical Education and Faculty Development Seminars, October, 2022

Regional

Beck A, MD MS. Clinical Pathologic Case Conference. Brown University, Medical Education Ted Conference, Oct 2022.

Beck A, MD MS. Are Multiple Choice Questions Failing our Students and Patients? Brown University, Medical Education Ted Conference, Nov 2021.

Beck A, MD MS. Motivation in Medical Education. Brown University Department of Emergency Medicine, Grand Rounds. Nov 2020.

Beck A, MD MS. Alternatives to ED Thoracotomy. Brown University, ED/Trauma Joint Educational Conference, Mar 2020.

Beck A, MD MS. Organophosphate Poisoning. Brown University Department of Emergency Medicine, Division of Global Emergency Medicine, Monthly Educational Conference, Nov 2019.

COMMUNITY ENGAGEMENT/VOLUNTEER ACTIVITIES

Booz Allen Hamilton, Inc, Chairperson, Workforce Leadership Council and Community Relations Committee, 2007-2012

- Led volunteer activities with a team of 80-100 participants. Arranged community partnerships with the American Cancer Society, Wheeler Mission Shelter, Dress for Success, and Junior Achievement
- Promoted professional development, growth, learning, diversity, and networking among staff

Case Western Reserve University, Chairperson, Internal Medicine Interest Group, 2014-2015

- Organized 12 annual events for students interested in Internal Medicine
- Managed communication between the School of Medicine student body and the University Hospitals Internal Medicine Faculty

Case Western Reserve University, Team Leader, Peru Health Outreach Project, 2014

- Led preparation of materials and teaching of Oral Rehydration Therapy and Water Storage and Sanitation to hundreds of Quechuan citizens
- Designed visual teaching aids in Spanish on identifying signs and symptoms of dehydration, preparation and administration of oral rehydration solution, and storage and sterilization of water
- Prepared and delivered presentations in Spanish based on current World Health Organization guidelines related to treatment of diarrheal illness

Purdue University, Project Management Mentor, 2008-2010

- Mentored engineering students in delivery of free engineering solutions to resource-limited community partners

UNIVERSITY TEACHING ROLES

World Health Organization, Basic Emergency Care (WHO BEC) Course, Registered Facilitator, 2021 - Present

- **Kigali, Rwanda, University Teaching Hospital of Kigali (CHUK), Mar, 2022 and Sep, 2023.**
- Nairobi, Kenya, Kenya Medical Training College, Oct, 2021

- Class size 30-50 students; taught the WHO BEC course to several cohorts of students in Rwanda and Kenya along with other facilitators.

Warren Alpert Medical School of Brown University, 2017 - Present

- Led Essentials of Procedural Skills, a 10-session, 40-hour course teaching introductory procedural skills to 16-24 medical students each year, covering vascular access airway management, basic and advanced suturing, lumbar puncture, splinting, and intraosseous access. Directed all aspects of the course including direct teaching, management of adjunct teachers, equipment coordination, testing, and grading
- Doctoring instructor - taught first- and second-year medical students at the bedside for 40 hours of direct one-on-one time to develop skills in patient interviewing, physical examination, differential diagnosis, diagnostic investigation, interpretation of results, and communication skills
- Prepared instructional videos on central line placement, focusing on microskills
- Prepared several 'TeleTeaching' lectures to teach shock, the evaluation and management of headache, procedural sedation, and mechanical ventilation to resident physicians in Rwanda

Case Western Reserve University, 2014-2015

- Led first-year histopathology for groups of 8-10 medical students as a second-year medical student. Taught topics such as cellular adaptation to stress, neoplasia, histologic identification, and basic tissue structure and function

Washington University in St. Louis, 2011-2012

- Coordinated and taught the General Chemistry Help Desk, a recitation-style session in which general chemistry students, typically 10-15 per semester, could seek help with problems or receive an overview of pertinent chemistry topics
- Tutored general biology, general chemistry, organic chemistry, physics, and MCAT preparation for 20+ undergraduate and post-baccalaureate students

Purdue University, 2002-2004

- Taught computer science to approximately 40 students each semester
- Prepared timely, accurate grades and reports for students and administrators
- Administered laboratory-practical exams and written exams to students