AMIT S. PADAKI, MD

CURRICULUM VITAE

EDUCATION

MS	Stanford University Master of Science Management Science and Engineering Stanford, California	Expected 2026
MD	John Hopkins University School of Medicine Doctor of Medicine Baltimore, Maryland	2012
MS	Pennsylvania State University Master of Science – Physiology University Park, Pennsylvania	2007
BS	Pennsylvania State University Schreyer Honors College Bachelor of Science – Bioengineering University Park, Pennsylvania	2006

POST-GRADUATE MEDICAL TRAINING

Fellowship in Extreme Environmental Medicine — 2016
George Washington University
Washington, DC

Resident, Emergency Medicine — 2015
Vanderbilt University Medical Center
Nashville, Tennessee

PROFESSIONAL EXPERIENCE

Biodynamic Research Corporation — 2024-present
Consultant
San Antonio, Texas

Healthforce Partners — 2023-present
Consultant
Bothwell, Washington

Baylor College of Medicine Emergency Department Attending Physician Houston, Texas	2022-present
Christiana Care Health System Emergency Department Attending Physician Newark, Delaware	2017-2022
Thomas Jefferson University Hospital Emergency Department Attending Physician Philadelphia, Pennsylvania	2016-2017
VA Medical Center Emergency Department Attending Physician Washington, DC	2015-2016
Cookeville Regional Medicine Center Emergency Department Attending Physician Cookeville, Tennessee	2015

BOARD CERTIFICATIONS

American Board of Emergency Medicine	2016-present

MEDICAL LICENSURES

Texas State Board of Medical Examiners [T7446] Inactive Medical Licenses: DC, DE, MD, NJ, PA, TN	2022-present

PROFESSIONAL REGISTRATIONS

Fellow, American Academy of Emergency Medicine	2022-present
Fellow, American College of Emergency Physicians	2021-present
Fellow, Academy of Wilderness Medicine	2018-present

PROFESSIONAL AFFILIATIONS

Society of Automotive Engineers	2025-Present
Organization for Space Medicine, Engineering, and Design	2024-Present
Vice Chair, Education and Training Committee	2024-Present

OTHER TRAINING/CERTIFICATIONS

FAA Aviation Medical Examiner Training	2016
UHMS Primary Training in Hyperbaric Medicine	2015
FEMA US&R Search and Rescue Training	2015
NOAA Dive Medical Officer Training	2015
Certified ACS Advanced Trauma Life Support Instructor	2014

ACADEMIC APPOINTMENTS

Associate Professor — 2024-present
Baylor College of Medicine
Center for Space Medicine

Space Medicine Fellowship Core Faculty — 2023-present
Baylor College of Medicine

Space Medicine Fellowship Research Director — 2023-present
Baylor College of Medicine

Associate Professor — 2023-present
Baylor College of Medicine
Department of Emergency Medicine

Wilderness Medicine Course Director — 2023-2024
Baylor College of Medicine

Assistant Professor — 2022-2023
Baylor College of Medicine
Department of Emergency Medicine

Visiting Professor — 2017
Aster Hospital System and Baby Memorial Hospital
Kerala, India

Assistant Professor — 2016-2022
Thomas Jefferson University
Department of Emergency Medicine

Research Instructor — 2015-2016
George Washington University
Department of Emergency Medicine

RESEARCH EXPERIENCE

Principal Investigator 2024-present
Presage Technologies Camera-Acquired Vital Signs Study
Baylor College of Medicine
Houston, TX

Site Principal Investigator 2023-2024
RCE Non-Invasive Troponin Sensor Study
Baylor College of Medicine
Houston, TX

Research Assistant 2009-2011
Department of Epidemiology
Johns Hopkins School of Public Health
Baltimore, Maryland

Research Assistant 2006-2007
Department of Chemical Engineering
Pennsylvania State University
University Park, Pennsylvania

PRESENTATIONS

Invited Lecturer: Incident Command Systems and Rapid Triage Algorithms, Sand and Sea Summit Wilderness Medicine Conference; Kuwait City, Kuwait, 2024

Invited Lecturer: Remote Medical Command, Sand and Sea Summit Wilderness Medicine Conference; Kuwait City, Kuwait, 2024

Canepa C, Levin D, **Padaki A,** Antonsen E. Non-Invasive Monitoring of Heart and Respiratory Rates using a Cellphone-Based Application during a Space Analog Mission. Aerospace Medical Association Annual Scientific Meeting, Chicago, IL, 2024.

Chao K, Burman A, Titus J, Peacock W, **Padaki A**, Levin D. Non-invasive Protein Measurement by Transcutaneous Sensor. NASA Human Research Program Investigator's Workshop. Galveston, TX, 2024.

Ortiz D, Antonsen E, **Padaki A**, Hirzallah M, Kamine T, Harris N, Levin D. Needs Assessment in Space Medicine Education. Aerospace Medicine Association Annual Scientific Meeting, New Orleans, LA, 2023.

Rahm S, Phillips L, **Padaki A**, Saifi G, Aguilar Montalvan L, Wasserman T, Payne K. Incident Command: The Game. Society for Academic Emergency Medicine Annual Meeting, Online, 2021.

Phillips L, Rudner J, **Padaki A**. Mass Casualty Workshop. Wilderness Medical Society Winter Conference, Online, 2021.

Phillips L, Rudner J, **Padaki A**. Virtual Wilderness Medicine: Keeping it Wild! Wilderness Medical Society Online Seminar, 2020.

Padaki A, Redha W, Clark T, Nichols T, Jacoby L, Slivka R, Ranninger C, Lehnhardt K. Improving Responses to In-Flight Medical Emergencies through a Simulation-Based Curriculum. Aerospace Medical Association Annual Scientific Meeting, Denver, CO, 2017. *Finalist, Space Medicine Association Young Investigator Award, 2017

Ward M, Diwas K, Jenkins C, Liu D, **Padaki A**, Pines J. Emergency Departments Demonstrate Large Provider and Facility Variation in Opioid Prescriptions for Discharged Patients. Society of Academic Emergency Medicine Annual Meeting. New Orleans, LA, 2016.

Ward M, Diwas K, Jenkins C, Liu D, **Padaki A**, Pines J. The Effect of Physician Workload on Prescription of Opioids at Discharge in Five Emergency Departments. Society of Academic Emergency Medicine Annual Meeting. New Orleans, LA, 2016.

Blohm E, Shilkofski N, **Padaki A**, Saheed M, Nottidge M, Jung J. Transferability of Skills Acquired during Simulation-Based Resuscitation Training. Society of Academic Emergency Medicine Annual Meeting. Boston, MA, 2011.

Padaki A, Keshavarzi B, Borhan A, Ultman J. Contribution of the larynx to patterns of reactive gas uptake. Workshop on Multi-scale Modeling of the Respiratory System, Auckland, New Zealand, 2008.

Padaki A, Keshavarzi B, Borhan A, Ultman J. Simulations of Reactive Gas Transport through Idealized Laryngeal Geometries. Systems Biology Consortium Meeting, State College, PA, 2007.

PUBLICATIONS

Canepa C, Levin D, **Padaki A**. *Comparison of Camera-Acquired Vital Signs to Conventional Vital Signs in a Space-Analog Environment.* Wilderness and Environmental Medicine. 2024.

Padaki A, Uppal P, Perza M. *Paradoxical Agitation and Masseter Spasm during Propofol Procedural Sedation: A Case Report.* Clinical Practice and Cases in Emergency Medicine. 8(4): 369, 2024.

Padaki A, Rudner J, Phillips L. Virtual Simulation of Mass Casualty Drills: Using Breakout Rooms to Simulate Physical Locations. *Frontiers in Disaster and Emergency Medicine.* 2, 2024.

Wanner G, Ader D, Caplan R, **Padaki A,** Ravert D, Drees M. Evaluation of N95 Respirator Ultraviolet Decontamination and Clinical Reuse with Quantitative Fit Testing. *Infection Control and Hospital Epidemiology.* 43(9): 1272-1274, 2022.

Padaki A, Police Reddy A, Lehnhardt K. The Utility of Hyperbaric Oxygen Therapy for Human Spaceflight- Past, Present, and Future. *Acta Astronautica.* 164: 192-196, 2019.

Ward M, Diwas K, Jenkins C, Liu D, **Padaki A**, Pines J. Emergency Department Provider and Facility Variation in Opioid Prescriptions for Discharged Patients. *American Journal of Emergency Medicine.* 37(5): 851-858, 2019.

Padaki A, Redha W, Clark T, Nichols T, Jacoby L, Slivka R, Ranninger C, Lehnhardt K. Simulation Training for In-Flight Medical Emergencies Improves Provider Knowledge and Confidence. *Aerospace Medicine and Human Performance*. 89(12):1076-1079, 2018.

Padaki A, Fitch R, Stack L, Thurman R. Horner's Syndrome after Scalene Block and Carotid Dissection*. The Journal of Emergency Medicine.* 50(5): e215-e218, 2016.

Padaki A, Ultman J, Borhan A. Ozone Uptake During Inspiratory Flow in a Model of the Larynx, Trachea, and First Bifurcation. *Chemical Engineering Science.* 64(22): 4640-4648, 2021.

BOOK CHAPTERS EDITED

Costinas S, **Padaki A.** (2022). Tetanus. in B Levine (Ed.) *EMRA Antibiotic Guide, 20th Edition.* Irving, TX: EMRA.

Rowles, J, **Padaki A.** (2020). HIV and Hepatitis. in B Levine (Ed.) *EMRA Antibiotic Guide, 19th Edition.* Irving, TX: EMRA.

Perry B, **Padaki A.** (2018) Adverse Reactions and Drug Interactions. in B Levine (Ed.) *EMRA Antibiotic Guide, 18th Edition* Irving, TX: EMRA.

MAGAZINE ARTICLES

Cassone M, Coppersmith V, Harbin T, Malka S, Mann N, **Padaki A**. Ask the Experts: How to Give a Stellar Wilderness Medicine Presentation. *Wilderness Medicine Magazine.* 38(3), 2021.

MANUSCRIPT REVIEW

NPJ Microgravity – ad hoc reviewer 2022-present

Annals of Medicine, Emergency Medicine Section 2021-present
ad hoc reviewer

AWARDS AND HONORS

Golden Apple Award, Christiana Care Health System, Department of Emergency Medicine, Newark, Delaware, 2022

Clinician of the Year, Thomas Jefferson University, Department of Emergency Medicine, Philadelphia, Pennsylvania, 2017

OTHER ACTIVITIES

Garden J, **Padaki A.** Examining Israeli Medical Preparedness in the Context of Jefferson Medical Practices. *Phase 1.* Paper 38, 2020.

Padaki A. Clinical Pathologic Case Conference Discussion. Council of Emergency Medicine Residency Directors. San Antonio, TX, 2018.

LANGUAGES

Spanish - spoken, read, and written with high proficiency
Kannada - spoken with basic competence