



Accelerating Change in Medical Education Innovation Grant Program: Award recipients

2023

California University of Science and Medicine

Principal investigator: Gordon Green, MD, MEd, EdD

Adaptive learning in medical education: An AI-powered approach to personalized performance feedback for clinical skills and EPA achievement

Children's Hospital of Philadelphia, University of Pennsylvania

Principal investigator: Janet Reid, MD, FRCPC, MSEd

Intelligent Tutor: A novel precision education solution to ensure optimal training and performance in radiology

Geisel School of Medicine at Dartmouth

Principal investigator: Thomas Thesen, PhD, FRSB

Precision well-being in medical education

Michigan State University College of Human Medicine

Principal investigator: Ling Wang, MS, PhD

Natural language processing methods to identify key terms in history gathering and physical examination based on patients notes written by medical students

Northwestern University Feinberg School of Medicine

Principal investigator: Brigid Dolan, MD, MEd

Identifying student-specific electronic health record-derived measures (STEMs): An exploration of learning analytics to foster student growth in a longitudinal outpatient primary care setting

Oregon Health and Science University

Principal investigator: Glenn Woodworth, MD

Development of a taxonomy for precision medical education



The Wright Center

Principal investigator: Stephanie Gill, MD, MPH

The Wright Center graduate medical education safety-net consortium

Thomas Jefferson University Hospital

Principal investigator: Gretchen Diemer, MD, MACP

Transition to practice: Precision education for hospitalists

University of Arizona College of Medicine-Phoenix

Principal investigator: Jennifer Preston, MD, FACS

GME programs as master adaptive learners: Using artificial intelligence enabled precision education and GME program milestones to power improvement of GME programs

University of Colorado School of Medicine

Principal investigator: Tai Lockspeiser, MD, MHPE

Identifying disparities in clinical grading to promote equity: A multi-institutional study

University of Virginia School of Medicine

Principal investigator: Michael Ryan, MD, MEPH

Competency-based medical education with precision: An integrated, data-driven, learner-centered model to support student advancement

Vanderbilt University School of Medicine

Principal investigator: Shane Stenner, MD, MS

From logging to learning: A precision education learner engagement tool to enhance master adaptive learning by clerkship students

Wayne State University School of Medicine

Principal investigator: Christopher Steffes, MD

Precision evaluation: A student to resident growth chart in demonstrated competencies and skills



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A.T. Still University School of Osteopathic Medicine in Arizona

Principal investigator: Britani Javed, DO

Professional Development and Scholarly Activity Weeks to Enhance the Master Adaptive Learning Curriculum

Dell Medical School at the University of Texas at Austin

Principal investigator: Nicholas Phelps, PhD

The Development of a Novel Survey Instrument to Address Health Equity Teaching Needs

Eastern Virginia Medical School

Principal investigator: Judith Taylor-Fishwick, MSc

Cultural Humility: Providing Context and Application to the Learning Environment

Meharry Medical College

Principal investigator: Bolanle Asiyanbola, MD

The Virtual Translational Learning and coaching [VTLC] Curriculum: Positivity Influencing Specialty Recruitment among Medical Students from Low Socioeconomic Status Households.

Michigan State University

Principal investigator: Chi Chang, PhD, MS

Using Computer Vision Techniques to Identify Medical Students' Safety Behaviors in Objective Structured Clinical Examinations

Montefiore Medical Center

Principal investigator: Iman Hassan, MD, MS

Measuring Structural Competency in Graduate Medical Education: Development and Validation of a Structural Competency Assessment Tool

Prisma Health–Upstate

Principal investigator: Mary Blumer, MD

Promoting Adaptive Clinician Learners Through Quality Improvement and Clinical Feedback Utilizing the Electronic Medical Record

San Ysidro Health

Principal investigator: Jennifer Poast, DO, MA

Reducing Primary Care Health Disparities, and Promoting Diversity, Equity Inclusion, and Belonging (DEIB), through Medical Resident Training

The Regents of the University of California, on behalf of its Riverside campus

Principal investigator: Daniel Novak, PhD

Starting Upstream: Integrating Research and Scholarship Skills with Health Systems Science Perspectives on Health Disparities to Develop Physician-Scientists through a Longitudinal UME Course

University of Hawaii, John A. Burns School of Medicine

Principal investigator: Lee Buenconsejo-Lum, MD

Partnering with a Medicaid/Medicare Health Plan to Design and Deliver a Health Systems Science (HSS) Experiential Curriculum

University of Rochester Medical Center

Principal investigator: Conrad Gleber, MD, MBA

Development of Digital Educational Ecosystem for Graduate Medical Education in Internal Medicine

Virginia Commonwealth University School of Medicine

Principal investigator: Nicole Deiorio, MD

Incorporating underrepresented identity in coaching: what does culturally humble coaching look like?

2021

A.T. Still University School of Osteopathic Medicine in Arizona

Principal investigator: Earla White, PhD, MEd Employing Master Adaptive Learning Methodologies Embedded in Asynchronous Health Systems Science Modules

Henry Ford Health System

Principal investigator: Denise White-Perkins, MD
Diversity, Equity, Inclusion and Justice Medical Education Faculty Learning Taskforce

Montefiore Medical Center/Albert Einstein College of Medicine

Principal investigator: Shwetha Iyer, MD
Integration of the Master Adaptive Learner Framework in Primary Care Training

Texas Tech University Health Sciences Center

Principal investigator: Sarah Kiani, MD
Applying the Master Adaptive Learner Framework via an Innovative Clinical Documentation Technology to Enhance the Clinical Reasoning of Medical Students

Thomas JeOerson University Hospital

Principal investigator: Sonia Bharel, MD HSS
GME Champions: An Incubator Program to Integrate Health Systems Science into Graduate Medical Education

University of Arizona College of Medicine Phoenix

Principal investigator: Cheryl O'Malley, MD
Personal Best: A Program to Enhance Emotional Intelligence and Coaching Skills in Graduate Medical Education

University of Cincinnati College of Medicine

Principal investigator: Benjamin Kinnear, MD, MEd
Connecting Education to Clinical Care Using Resident-Sensitive Quality Measures

University of Houston College of Medicine

Principal investigator: Kenya Steele, MD

Training Pre-Clerkship Clinical Skills to a Highly Diverse Student Cohort: Developing Supplemental Learning Materials that Reflect Diversity of our Medical Students and Community

University of Minnesota

Principal investigator: Rachel Poeppelman, MD

Developing Automated Faculty Feedback Using Natural Language Processing to Decrease Bias in Medical Student Assessments

University of North Carolina School of Medicine

Principal investigator: Karina Whelan, MD

Reducing Primary Care Health Disparities through Medical Student Quality Improvement

Washington University School of Medicine

Principal investigator: Nichole Zehnder, MD

Coaching to Build Inclusive Community—Evaluating Outcomes of an Innovative Coaching Program for Medical Students

Zucker School of Medicine

Principal investigator: Samara Ginzburg, MD

Coaching the Master Adaptive Learner: Faculty and Learner Development

2020

Indiana University

Principal investigator: Bradley Allen, MD, PhD

Communication in Telehealth Environments (CITE): Developing a Competency Framework and Assessment Tool

University of Southern California Keck School of Medicine

Principal investigator: Ron Ben-Ari, MD

Health Justice and Systems of Care: Building Advocacy Skills for Eecting Transformative Policy and Structural Changes in Health Systems

Virginia Commonwealth University Health System

Principal investigator: Emily Rivet, MD, MBA

The Future of Patient Communication is Now: Innovative Telehealth Skills Program for Delivering Bad News

Yale University, School of Medicine

Principal investigator: Luming Li, MD

Leadership in Education, Administration, and Dissemination Simulation-based Health Systems Science Cases (LEADS-HSS)

Golisano Children's Hospital at Strong, University of Rochester School of Medicine

Principal investigator: Adam Dziorny, MD, PhD

Trainee Individualized Learning System: Driving Resident Practice Change through Automated EHR Extraction of Clinical Experiences

Kaiser Permanente Bernard J. Tyson School of Medicine

Principal investigator: Paul Chung, MD, MS

Measuring Team Effectiveness for Students Training in Health Systems Science

University of Utah

Principal investigator: Sara Lamb, MD

Better than Broccoli: Turning Health Systems Science Education into a Fun and Healthy Treat

Wayne State University School of Medicine

Principal investigator: Senthil Kumar Rajasekaran, MD

Facilitating Effective Transitions along the Medical Education Continuum: Knowledge Mining and Application from the Executive Onboarding and Talent Management Industry

American Association of Colleges of Osteopathic Medicine

Principal investigator: Alissa Craft, DO, MBA

Transforming Health Systems Science Education Through Gamified Technology

Duke University

Principal investigator: Mitchell Heflin, MD

The CO-TEACH Curriculum: Creating Opportunities for Telehealth Education, Assessment, and Care through Hotspotting

University of Iowa Hospitals and Clinics

Principal investigator: Nkanyezi Ferguson, MD

Responding to Patient-Initiated Identity-Based Harassment: An Innovative Curriculum to Empower Residents and Faculty to Address Discrimination and Harassment in Clinical Training

Indiana University

Principal investigator: Daniel Corson-Knowles, MD

Student Success Committee: A Coaching Program for the Learner in Need

2019

Beth Israel Deaconess Medical Center, Harvard Medical School

Principal investigator: Kelly Graham, MD

Transforming the Resident Continuity Clinic for the Future of Ambulatory Care: Implementing a Population Health Model in an Internal Medicine Residency Program

Brody School of Medicine at East Carolina

University Principal investigator: Tim Reeder, MD, MPH

Integrating HSS in a Clinical Learning Environment across the Educational Continuum Cleveland Clinic Principal investigator: Matthew Faiman, MD
Interdisciplinary Learner Education for Primary Care Using Digital Strategies

Columbia Vagelos College of Physicians and Surgeons

Principal investigator: Beth Barron, MD

Leveraging Artificial Intelligence Technology to Help Learners Direct Their Progress in an EPA- based Curriculum

H. Lee MoOitt Cancer Center and Research Institute

Principal investigator: Jessica Frakes, MD

Developing Video Content to Foster Leadership Education through Coaching and Emotional Intelligence

Johns Hopkins School of Medicine

Principal investigator: Rachel Salas, MD

The Road to Professional Identity as a Teacher: Using Strengths Coaching to Develop Interprofessional Teachers and Build an Interprofessional Collaborative Teaching Community

Rutgers Robert Wood Johnson Medical School

Principal investigator: Carol Terregino, MD

Graduate Medical Education within the Complex Adaptive System of Medical Critical Care: The Effect of A Learning Health System Champion on the Clinical Learning Environment and Patient Care

F Edward Hebert School of Medicine Uniformed Services University

Principal investigator: Louis Pangaro, MD

Accelerating Progress toward Independence in Health Systems Science - Assessment in Clinical Rotations

Rayos Contra Cancer

Principal investigator: Benjamin Li, MD, MBA

RCC University: Training and Empowering a New Generation of Leaders in Telehealth

University of Arizona

Principal investigator: Katherine Hiller, MD, MPH

Assessor Development by Peer Referencing using the National Clinical Assessment Tool in Emergency Medicine (NCAT-EM) Research Consortium

University of Arkansas for Medical Sciences

Principal investigator: Riley Lipschitz, MD

Practical Population Health Management

University of California, Irvine

Principal investigator: Khanh-Van Le-Bucklin, MD

Expansion of the #MDsToo Student Mistreatment Prevention Curriculum: Crosscountry Collaboration and Student Engagement

University of Texas Southwestern

Principal investigator: Robert Rege, MD

Keys to Successful Implementation: Integrating the Emotive Virtual Patient into UTSW's Pre- Clerkship OSCE Curriculum

Virginia Commonwealth University

Principal investigator: Robin Hemphill, MD, MPH

Measuring the Graduate Medical Education University Learning Environment

Virginia Commonwealth University

Principal investigator: Michael Ryan, MD

Measuring Master Adaptive Learning

2018

Case Western Reserve University

Principal investigator: Mamta Singh, MD

Developing a Measure of Systems Thinking: Moving Up Miller's Pyramid

Eastern Virginia Medical School

Principal investigator: Lauren Mazzurco, DO

Virtual Families: Providing context to health systems science integration across the clinical clerkships

Stanford University

Principal investigator: Tait Shanafelt, MD

Performance Nutrition for Residents on Nighttime Rotations: A Pilot Study

University of California, Irvine

Principal investigator: Khanh-Van Le-Bucklin, MD

#MDsToo: Effects of a Student Mistreatment Prevention Curriculum on Faculty, Residents, and the Learning Environment

University of Connecticut

Principal investigator: David Henderson, MD

Developing a Student Engagement Instrument to Support Diversity and Engagement

University of Michigan

Principal investigator: Rosalyn Maben, MD

Health Systems Science Modules: An Interprofessional Curriculum

University of Michigan

Principal investigator: Margaret Wole, MD

Fostering Self-Directed Learners through Coaching across the Undergraduate Medical Education to Graduate Medical Education Continuum

University of Nebraska

Principal investigator: Kelly Caverzagie, MD

Keys to Implementation Success: A qualitative analysis of early implementers of Health Systems Science curriculum

University of North Dakota

Principal investigator: Jon Allen, MD

Telemedicine InterProfessional Simulation (TIPS): A Tool Kit for Adapting Existing Medical Simulations for Telemedicine and Interprofessional Teamwork

University of Pittsburgh

Principal investigator: Barbara Barnes,

MD Case-based teaching in social medicine

University of Southern California

Principal investigator: Ron Ben-Ari, MD

Learning to Educate Patients: An Online Digital Health Literacy Curriculum for the UME- GME- CME Continuum

University of Utah

Principal investigator: Sara Lamb, MD

Establishing a working model of Education System Science and designing blueprints for how the use of Education System Science can enhance learning outcomes

Virginia Commonwealth University

Principal investigator: Stephanie Goldberg, MD

Wellness and Academic Excellence Through University Coaching
