

IHPE Forum Workshop

Health Systems Science (HSS) Education: A Workshop

The Workshop: A Three Part Series

Part 1: A Shared Understanding of Health Systems Science

Part 2: The Importance of Health Systems Science Across Professions

Part 3: Designing, Implementing, and Evaluating Successful HSS Training Programs

Definition of HSS:

[AMA](#): Health systems science is a foundational framework for the study and understanding of how care is delivered, how health professionals work together to deliver that care, and how the health system can improve patient care and health care delivery.

Overall Workshop Objective: To explore the importance of training in health systems science to empower learners across the health professions to thrive in, and improve, the systems in which they work, resulting in better care for patients, improved health of populations and enhanced well-being of health professionals.

Pre-workshop Virtual Session

A Shared Understanding of Health Systems Science

OCTOBER 24

Session Objective: To move toward a shared understanding of health systems science and its importance in health professions education and training for health promotion, disease prevention, and patient care (i.e., the quintuple aim)

11:00amET	<p>Welcome from IHPE Forum Co-Chairs: Zohray Talib, California University of Science and Medicine & Patrick DeLeon, Uniformed Services University</p> <p>Moderator – Kimberly Lomis, Vice President, Medical Education Innovations, American Medical Association & Workshop Co-chair</p> <ul style="list-style-type: none"> • Raj Ratwani, Director, MedStar National Center for Human Factors Engineering in Healthcare • Learner Perspective: Nicholaus Christian, Fellow, VA Health Services Research & Development Affiliate, Yale Program in Addiction Medicine, Yale School of Medicine <p>Q&A</p> <ul style="list-style-type: none"> • Health Professional Panelists: HSS from the perspective of their health profession <ul style="list-style-type: none"> ○ Travis Threats, Professor and Chair, Department of Speech, Language & Hearing Sciences, Saint Louis University & Workshop Co-chair ○ Peter Maramaldi, Professor and Social Work Alumni Fund Endowed Chair, School of Social Work, Simmons University ○ Catherine Quatman-Yates, Associate Professor Division of Physical Therapy, Ohio State University School of Health and Rehabilitation Sciences <p>Panel discussion</p> <p>Audience is encouraged to ask questions/make comments using Slido</p>
12:15pm	Adjourn

Workshop Hybrid Session

The Importance of Health Systems Science Across Professions

NOVEMBER 1, 2023
500 5TH St. NW, Washington, DC 20001
Room 208

Session Objective: To share examples of HSS within and across professions as a demonstration of its importance in health professions education and training for health promotion, disease prevention, and patient care (i.e., the quintuple aim)

4pmET	<p>Welcome from IHPE Forum Co-Chairs: Zohray Talib, California University of Science and Medicine & Patrick DeLeon, Uniformed Services University</p> <p>Moderator – Kimberly Lomis, Vice President, Medical Education Innovations American Medical Association</p> <ul style="list-style-type: none">• Laying the Foundation for Understanding HSS in Education Raj Ratwani, Director, MedStar National Center for Human Factors Engineering in Healthcare
4:20pm	<p>Learner perspective: Natasha Sood, Clinical Fellow in Anesthesia, Brigham and Women's Hospital</p>
4:35pm	<p>HSS examples from different professions/perspectives</p> <ul style="list-style-type: none">• Example 1: Diagnostic Systems Safety Kristen Miller, Sr. Scientific Director, National Center for Human Factors in Healthcare, MedStar Health Research Institute (MHRI)• Example 2: Clinician wellbeing Matthew D. McHugh, Independence Chair for Nursing Education, Professor of Nursing, Director, Center for Health Outcomes & Policy Research (CHOPR), University of Pennsylvania School of Nursing; and Jennifer Graebe, Director, Nursing Continuing Professional Development & Joint Accreditation Program, American Nurses Credentialing Center• Example 3: Government, Health Related Institutions and Schools working together across systems Teneisha Kennard, Executive Director, Behavioral Health -Ambulatory Services with the Department of Behavioral Health at JPS Health Network, Texas Child Mental Health Care Consortium's (TCMHCC), Texas Child Health Access through Telemedicine (TCHAT) program <p>Panel discussion: Questions & comments from committee members</p> <p>Audience is encouraged to ask questions/make comments using Slido</p>
5:50pm	<p>Closing remarks – Travis Threats, Workshop Co-chair</p>
6pmET	<p>Adjourn</p>

Workshop Hybrid Session

Designing, Implementing, and Evaluating Successful HSS Training Programs

NOVEMBER 2, 2023
500 5TH St. NW, Washington, DC 20001
Room 106

Session Objective: To explore how educators in different learning environments can design, implement, and evaluate HSS programs in health professions education and training for health promotion, disease prevention, and patient care (i.e., the quintuple aim)

9amET 9:05am	<p>Welcome from Workshop Co-Chair</p> <p>Moderator – Reamer L. Bushardt, Massachusetts General Hospital Institute of Health Professions</p> <ul style="list-style-type: none">• Designing & Implementing HSS Jed Gonzalo, Senior Associate Dean for Medical Education, Virginia Tech Carilion School of Medicine Questions: 10min• Evaluating HSS Programs & Tracking Program Effectiveness Abbas Hyderi, Kaiser Permanente Bernard J. Tyson School of Medicine, Senior Associate Dean for Medical Education, Professor of Clinical Science Questions: 10min <p>Audience is encouraged to ask questions/make comments using the chat function</p>
9:45am	<p>Panel Discussion</p> <p>Moderator – Reamer L. Bushardt, Massachusetts General Hospital Institute of Health Professions</p> <p>Three examples specific to HSS</p> <ul style="list-style-type: none">• The Teddy's Team Center of Excellence in Stroke Recovery Rachel T. Pittmann, Assistant Professor, Communication Sciences and Disorders, Assistant Dean for Interprofessional Practice, MGH Institute of Health Professions & Kimberly Erler, Associate Professor in the Department of Occupational Therapy, School of Health and Rehabilitation Sciences, MGH Institute of Health Professions• Quality HSS education on a tight budget Luan Lawson, Senior Associate Dean for Medical Education and Student Affairs, Virginia Commonwealth University, School of Medicine Dean's Office• Arizona State University Student Health Outreach for Wellness (SHOW) Teri Kennedy, Associate Dean, Interprofessional Practice, Education, Policy, and Research, School of Nursing, University of Kansas <p>Audience is encouraged to ask questions/make comments using Slido</p>
10:45am	10min stretch break
10:55am	Roundtable Discussion: Strategies for Success

	<p>Moderator: Kimberly Lomis, Vice President, Medical Education Innovations American Medical Association</p> <p>All planning committee members and speakers</p> <ul style="list-style-type: none"> • What is the current state? What are the gaps? HPE currently covers HSS informally, without a clear goal in mind – What is needed to truly make this the third pillar? How do we, as educators, anticipate the bottlenecks? What are some strategies for success? • Who should teach HSS and how do we build capacity in this area? (HSS is not a large discipline with existing faculty so how do we either mold or create faculty for this area) • What are curricular options along the arc of HPE- pre-clinical, clinical and in-service (CPD) – what are ways (educational activities) to reach these different learners? • What are curricular goals? Do we have a sense of what proficiency in HSS should look like at the pre-clinical, clinical and professional level? • What type of institutional support (Leadership/institutional buy-in) is needed to actualize this?
11:30am	<p>Open the discussion to the audience</p> <p>Audience is encouraged to join the discussion through slido</p>
11:50am	Closing remarks: Co-chairs
12noon	Adjourn

Planning Committee

Kimberly Lomis, MD (Co-Chair)

Vice President, Medical Education Innovations
American Medical Association

Travis Threats, Ph.D (Co-Chair)

Professor and Chair, Department of Speech, Language & Hearing Sciences
Saint Louis University

Andrea Pfeifle, Ed.D PT FNAP

President
National Academies of Practice

Reamer L. Bushardt, Pharm.D., PA-C, DFAAPA

Provost & Vice President for Academic Affairs
Massachusetts General Hospital (MGH) Institute of Health Professions

Kathy Chappell, Ph.D., R.N., FNAP, FAAN

Chief Executive Officer
Accreditation Commission for Education in Nursing

David Farmer, Ph.D

Executive Director of Interprofessional Practice
Assistant Professor, Medical Education & Health Systems Science

University of North Texas Health Science Center

Christopher Feddock, MD, MS

Associate Vice President, Competency Based Assessment
National Board of Medical Examiners

Eric Holmboe, M.D.

Senior Vice President, Milestones Development and Evaluation
Accreditation Council for Graduate Medical Education (ACGME)

Matthew McHugh, PhD, JD, MPH, RN, FAAN

Independence Chair for Nursing Education and Professor, University of Pennsylvania School of Nursing
Associate Director, Center for Health Outcomes and Policy Research
Senior Fellow, Leonard Davis Institute of Health Economics

Raj Ratwani, Ph.D, MPH

Vice President, Scientific Affairs, MedStar Health
Director, MedStar National Center for Human Factors Engineering in Healthcare

Halaevalu Vakalahi, Ph.D., MSW

President and Chief Executive Officer

Zohray Moolani Talib, MD, FACP

Executive Vice Dean for Education
Professor, Medical Education and Internal Medicine
Director, Global Health Equity Program
California University of Science and Medicine

Planning Committee Consultants

Jennifer Graebe, MSN NEA-BC

Resources

- Teaching health systems science - <https://www.ama-assn.org/education/changemeded-initiative/teaching-health-systems-science>
- Health systems science peer-reviewed articles (tools for educators): <https://www.ama-assn.org/education/changemeded-initiative/health-systems-science-peer-reviewed-articles>
- Penn State College of Medicine Health Systems Science Academy - <https://faculty.med.psu.edu/professional-development/health-systems-science-academy/>
- Article by Gonzalo & Ogrinc (2019). The authors call for the reexamination of 5 issues influencing HSS receptivity: student recruitment processes, faculty development, building an HSS academic “home,” evaluation metrics, and transparent collaboration between medical schools. - https://journals.lww.com/academicmedicine/fulltext/2019/10000/health_systems_science_the_broccoli_of.13.aspx

[HSS-Exam-At-A-Glance.pdf \(nbme.org\)](#)

Key features of successful HSS training programs:

- Appropriate settings
- Appropriate participants
- IPE & active learning strategies – *working together*
- Patient-centered
- Collaboration with health system (see NCICLE pathways excellence - <https://ncicle.org/interprofessional-cle>)

<https://evolve.elsevier.com/cs/product/9780443111457?role=student>

Health Systems Science Education: Development and Implementation (The AMA MedEd Innovation Series) 1st Edition - by Rosalyn Maben-Feaster, MD, MPH, Maya M. Hammoud, MD, MBA, Jeffrey Borkan, MD, PhD, Ami DeWaters, MSc, MD, Jed D. Gonzalo, MSc, MD and Stephanie R. Starr, MD

<https://www.ama-assn.org/education/changemeded-initiative/teaching-health-systems-science>

Teaching health systems science

<https://www.ipecollaborative.org/2021-2023-core-competencies-revision>

IPEC Core Competencies Revision, 2021-2023

<https://ncicle.org/interprofessional-cle>

NCICLE: The Interprofessional Clinical Learning Environment