

### Goals

- Discuss HSS structure of a non-clinical department within a school of medicine
  - Departmental mission
  - Education mission
- Describe the connections between HSS and implementation science that can result in a research agenda to benefit healthcare delivery
- Describe lessons learned (to date!)

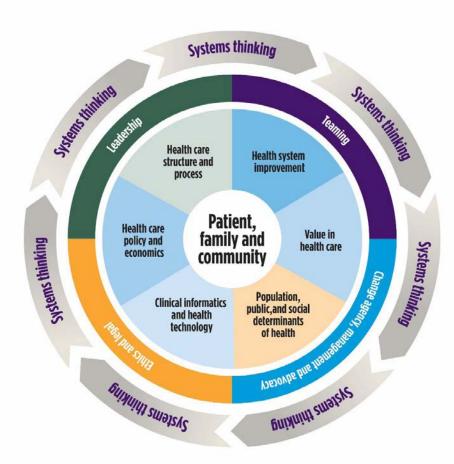
## HSIS Department & HSSIP Domain

#### **HSIS** department

- Teaching, Research, Service (or clinical ops)
- Teach in domain
- For primary faculty, research is 50% ish portion of time
- Departmental home for HSS scholarship and educators
- Includes teamwork/ interprofessionalism as scholarly domain

#### **HSSIP** domain

- 4 year curriculum
- Phase 1, 2, and 3(ish)
- Phase 1- classroom, sim
- Phase 2- sim, clinical
- Topics in HSS wheel + Clinical applications
- Includes interprofessionalism



 ${\it Davis, Gonzalo.}\ \ {\it How Medical Schools Can Promote Community Collaboration Through HSS Education.}\ \ {\it AMA journal of ethics, 2019}$ 

Djulbegovic, Bennett, Guyatt. A unifying framework for improving health care. Journal of Evaluation in Clinical Practice. 2018

Gonzalo, et al. The Triple Helix of Clinical, Research, and Education Missions in AHCs. A Qualitative Study. Learning Health Systems, 2020.







#### Systems thinkers

- Engineering (ISE)
- Psychology (context and design)
- Behavioral Economics (design influence behavior)
- Human Factors (take what we know about human performance and design the system accordingly)
- Public Health (how people behave in the real world)

#### Applied problems

- Health- obesity, SUD, etc
- Operations- access, process optimization
- Translation, Implementation
- Healthcare delivery models
- Educators, Methodologists, Deep SME

Application driven

Educators

Methodological grounding

Systems thinking

# Health Systems Science + Implementation Science



## Your commitment opportunity

- Learning through this program
- Engage with teaching mission of the department
  - Opportunities to teach and interact with students
    - Upcoming! April 14 sim day
- Engage with research mission of the department
  - Medical Education Research
  - Health Systems Science, health care delivery, implementation science
- Engage with your own faculty development
  - Journal club with the other Clinical Champions

# Current departmental research and education faculty



Dr. Mary Wesley



Dr. Cynthia Morrow



Dr. Mengxi Zhang

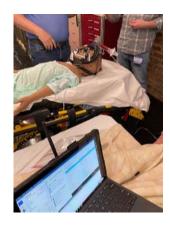


Dr. Natalie Karp

+clinical champs
Sarah DeWitt
Joseph Kidd
A Lucktong
Andrew Moore
Jaclyn Nunziato
Vydia Permashwar
Lubna Wani
Justin White

+ multiple adjunct and instructional faculty

## Current state of the department



This is a design moment

Goal: Build transdisciplinary teams to study and address implementation science challenges in health care to:

- Implement system improvements to positively impact health care now
- Extramural grant support to systematically investigate and report innovations in models of care for others to implement

Respect unorthodox backgrounds



## Steps so far

- Department (HSIS) is purpose-built to create a collaborative and multidisciplinary
  - Special breed of faculty and infrastructure must be recruited and retained- diverse perspectives, backgrounds, mission driven, applied
    - Partnership
    - Project management
    - Infrastructure for grants management
  - Core full time HSIS foundation faculty (Tenured, Tenure-Tracked), implementation science, public health, HSS, domain specific
  - Must deliberately include
    - clinicians
    - clinical researchers
    - public health experts

- experts in quality, safety and simulation;
- experts in human factors,
- Systems engineers
- Designers

Differentiator: Human-Centered Design

### Lessons learned

- Silos
- Funding
- Polylingual yet nuanced
- Diversity of experience
- Marriage of tenure expectations and applied work
- Process and buy-in

