

CYNTHIA B. MORROW, MD, MPH NATALIE E. KARP, MD SARAH E. PARKER, PHD



HSSIP Leadership



Sarah E. Parker, PhD
Chair, Dept. of IPE
Associate Professor, FBRI
Sr. Director, CSRPS



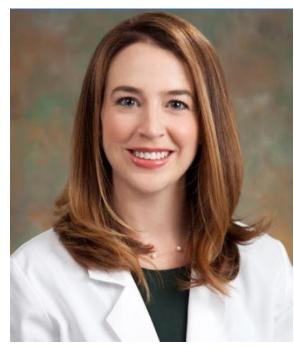
Cynthia B. Morrow, MD MPH

HSSIP Co-leader M1/2

Health Director, Roanoke City &

Alleghany

Health Districts



Natalie E. Karp, MD
HSSIP Co-leader M3/4
OBGYN Clerkship Director

We have no disclosures

Goals & Objectives







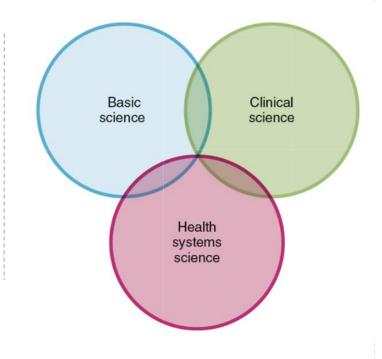


- Explain Health Systems Science
- ID core functional, foundational, & linking domains & illustrate their application in Med Ed and healthcare
- Recognize the new 4-year
 HSSIP curriculum
- Describe Systems Thinking and understand its importance in healthcare

Health Systems Science*:

"The study of how health care is delivered, how health care professionals work together to deliver that care, and how the health system can improve patient care and health care delivery."

"How healthcare is delivered to, and received by, patients and populations."
- Dr. Mitchell Gitkind, Dean of HSS at UMass SOM



^{*} Health Systems Science, 2nd Ed. Skochelak et al. Elsevier 2020.

There Should Be a Nobel Prize for Vaccine Logistics

Immunization against Covid-19 is not going perfectly, but at least it's going. Let's give credit where it's due.

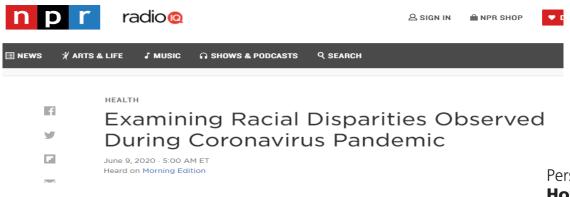




CHRIS WARE'S "BEDTIME"

COVER STORY

Navajo Nation: The people battling America's worst coronavirus outbreak*
By Joshua Cheetham. BBC News. 16 June 2020



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PHYSICIAN HEALTH

Burnout isn't due to resiliency deficit. It's still a system issue.

Perspective: Physician Advocacy: What Is It and How Do We Do It?

Mark A. Earnest, MD, PhD, Shale L. Wong, MD, MSPH, and Steven G. Federico, MD

The New York Times Why People Are Still Avoiding the Doctor (It's Not the Virus)

At first, people delayed medical care for fear of catching Covid. But as the pandemic caused staggering unemployment, medical care has become unaffordable for many. Health

Mortality rate for Black babies is cut dramatically when Black doctors care for them after birth, researchers say

Tell me about your experiences as a resident/fellow/attending – what unexpected barriers to patient care did You face? What makes it harder to take care of patients?

"There's limited connection of care between specialties/imaging all under the same roof [which creates] barriers to care. The lack of equal access to care [stands] out to me."

"Insurance"

"Consultations not always easy to obtain – no clear consult pathway for each specialty"

"Transportation is a real barrier for patients, [especially when] they have multiple appointments at different locations throughout the day"

"Systems don't value support staff who can do non-MD level tasks to support & improve patient care"

"Medical literacy of patients. [I was surprised that] some don't understand how pharmacies or prescriptions work"

"The EMR – when I started fellowship I could not figure out how to order a blood transfusion on a patient. I knew clinically what they needed, but could not make it happen because I could not 'find' the right order in the EMR"

"Communicating medical knowledge/science to patients and making treatment plans with them with everything else they see/read on the internet, Facebook"

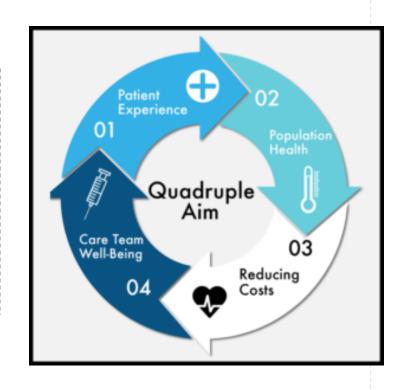


Why is change needed?

- To optimally serve their patients and their community, future physicians need to be prepared to work in increasingly complex healthcare systems.
- HSSIP provides a framework in which basic science, clinical science, and research can reach their potential to ensure that the patients and populations they serve receive high quality care.
- Ultimately, incorporating HSSIP into medical education can contribute to achieving "Quadruple Aim".



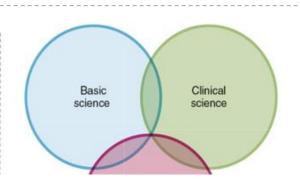
Teaching health systems science





Care provided to an individual patient

Health Systems Science



35 y.o. male w/RLQ pain





Delay in setup, delays during difficult case

Health

systems

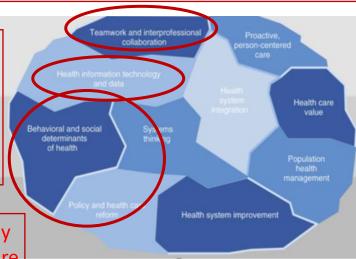
- History (fevers, chills, N/V)
- Differential Dx
- Labs (elevated WBC)
- Imaging (CT c/w acute appendicitis)
- Treatment plan (abx, OR for lap appy)

"fell off" when pt was transported to preop, did not receive

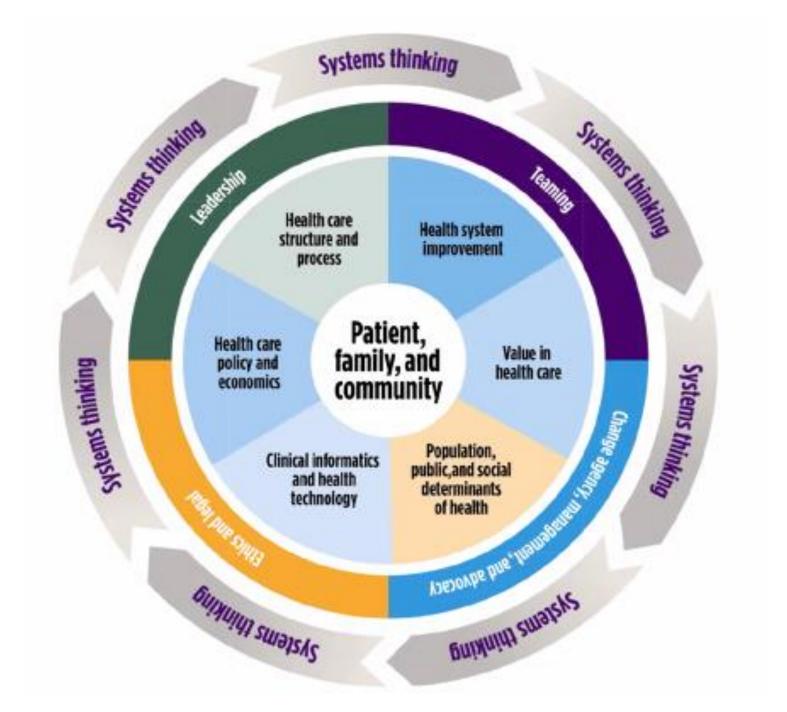
Abx ordered in ED

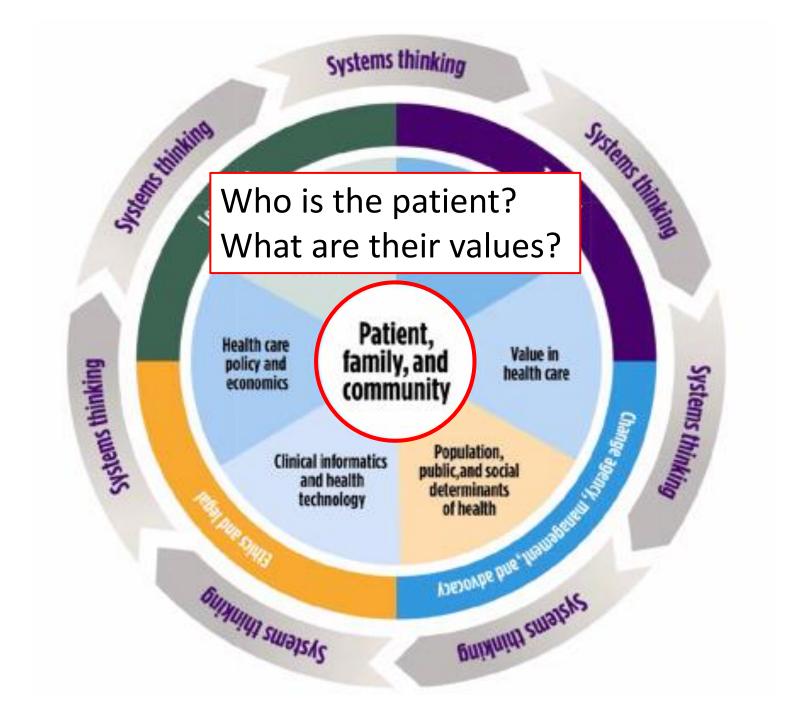
Uninsured/self-pay
Delayed seeking care
2/2 fears of cost
Ruptured appy,

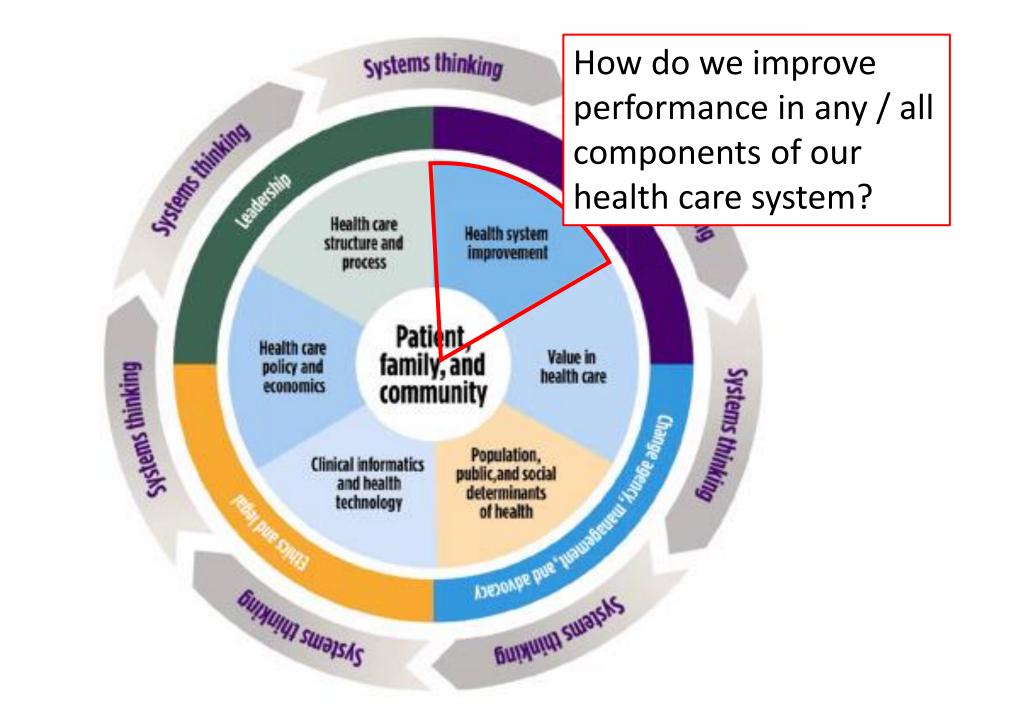


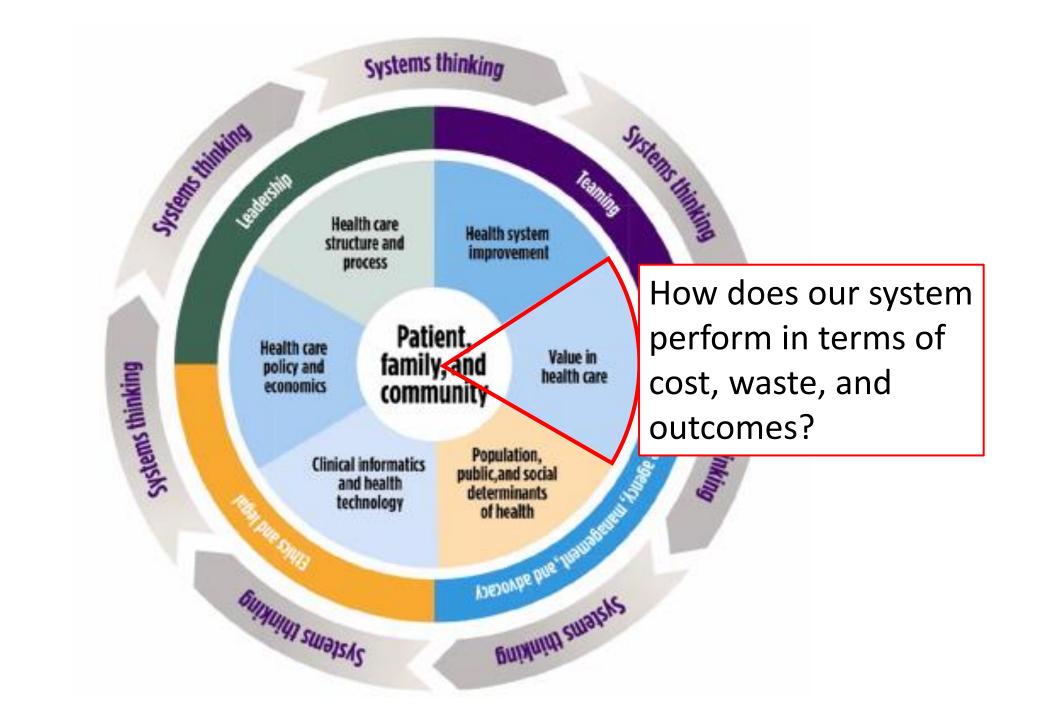


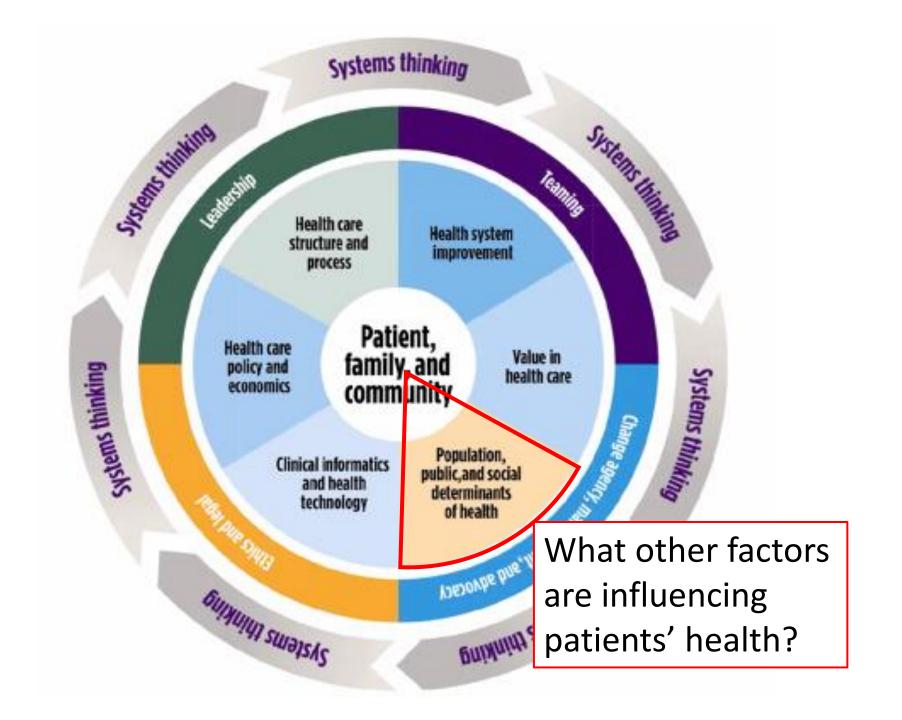
Care provided to an individual patient

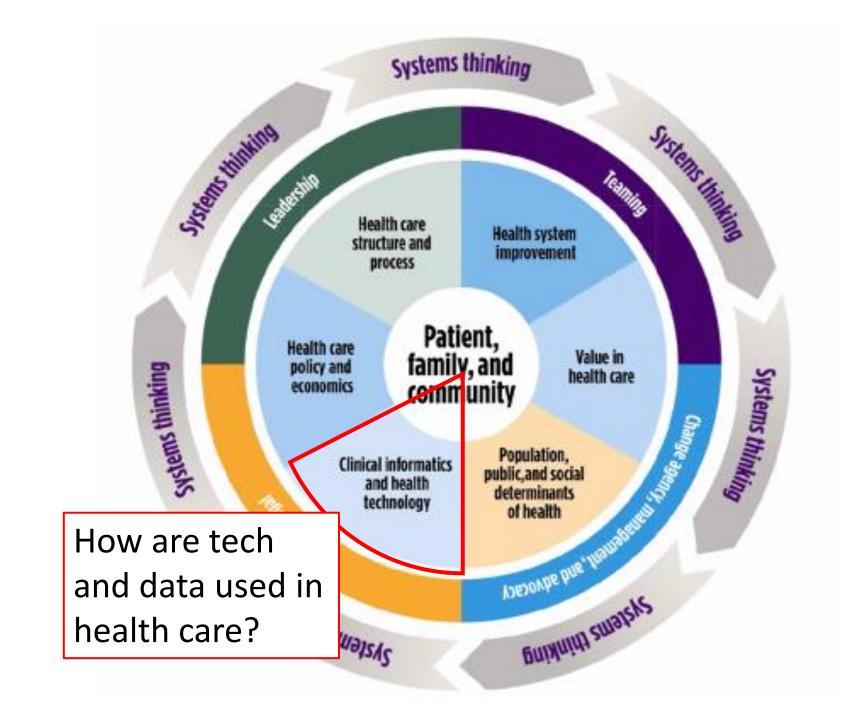


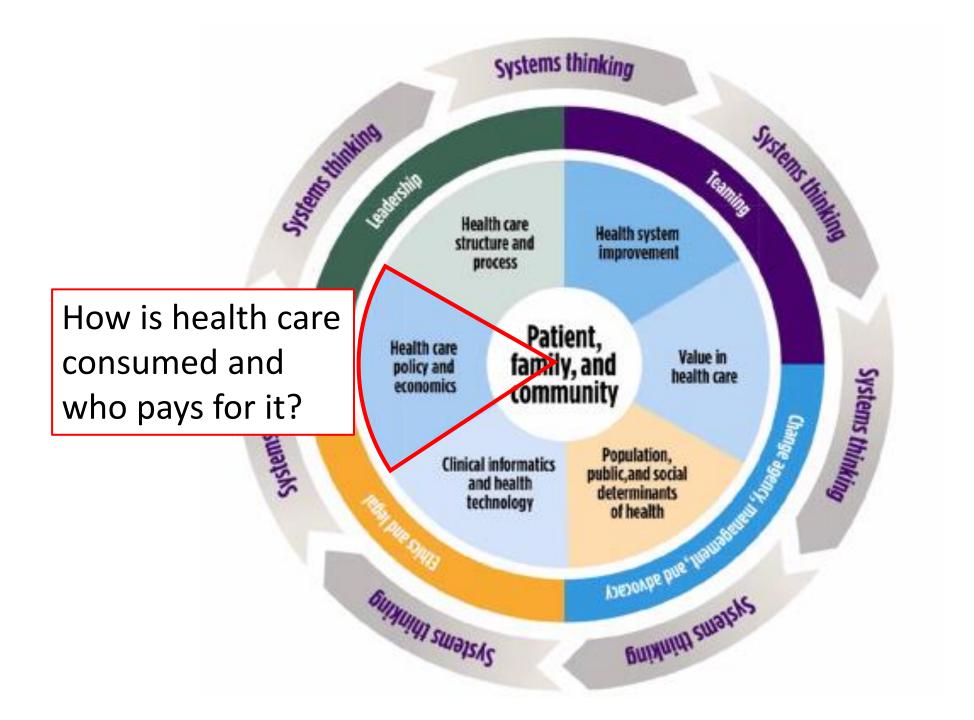


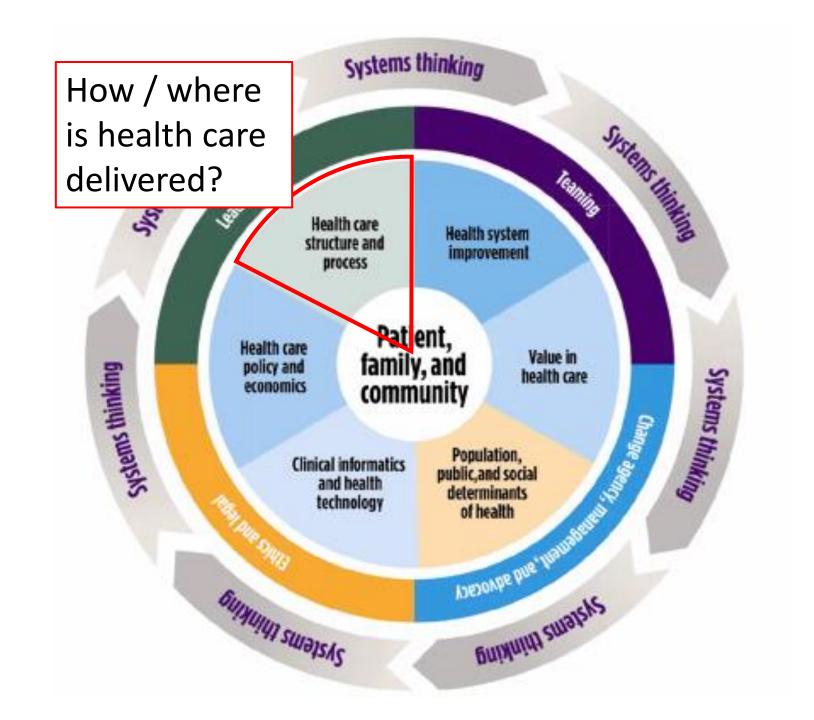


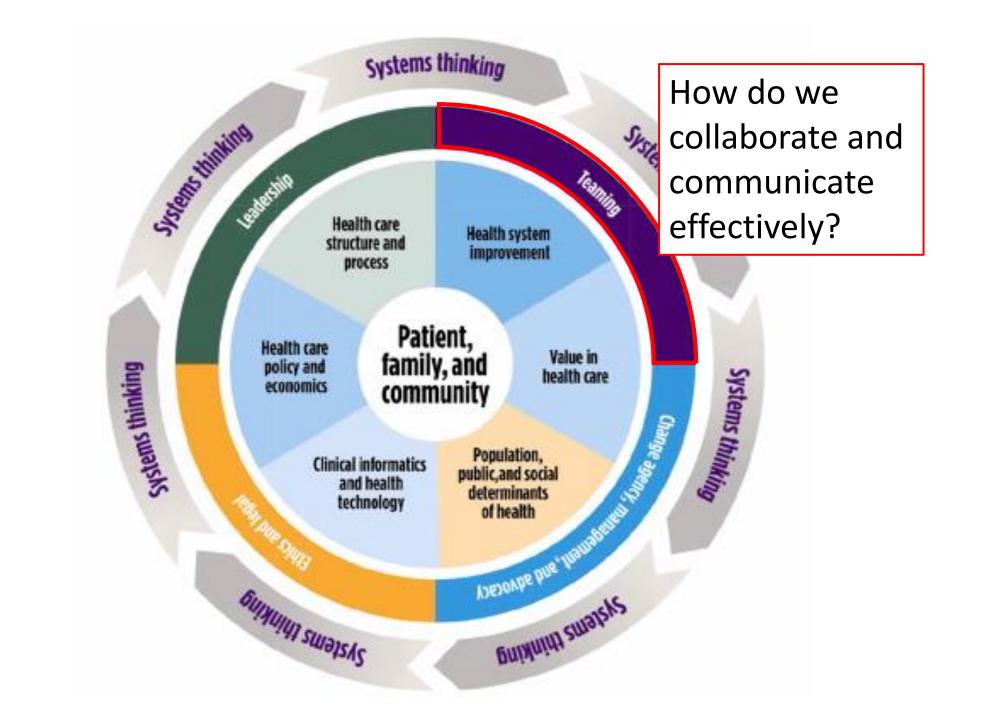


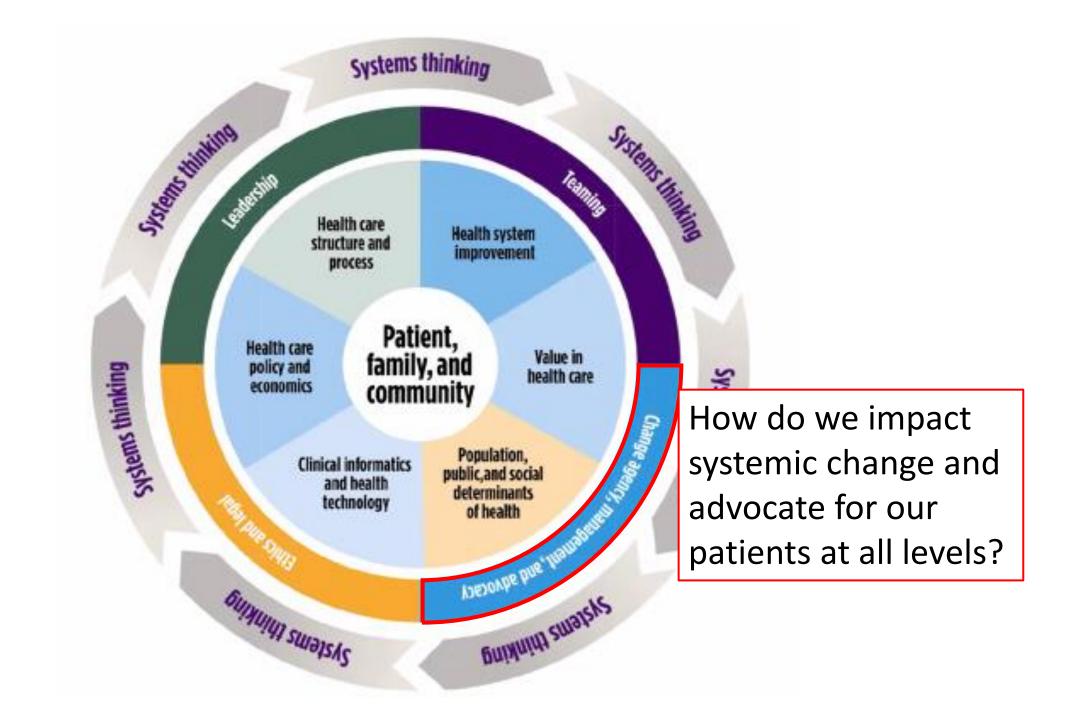


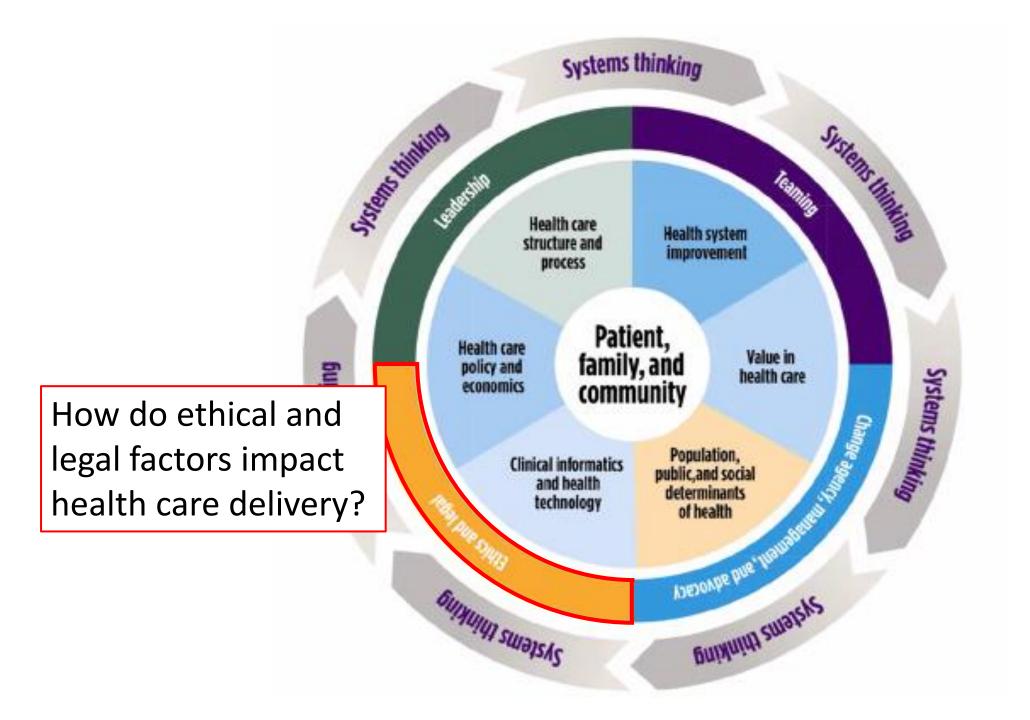


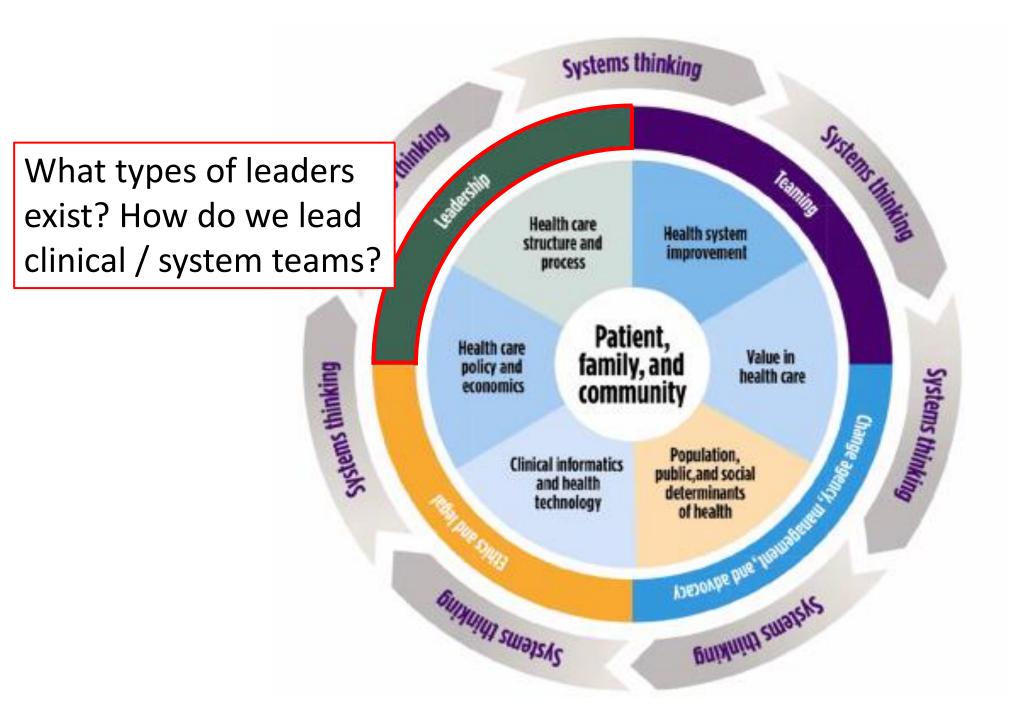










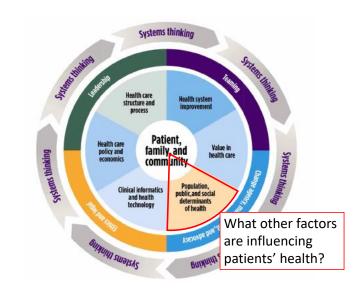


COVID-19 Vaccine Delivery



- 87 yo female seeking COVID-19 vaccine in February 2021
 - Lives by herself in public housing
 - Is not comfortable with technology

 How do we use a systems approach to achieve equity and ensure she has access?





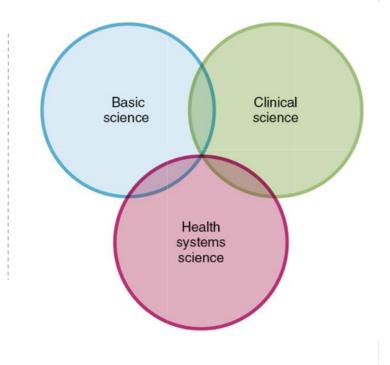
HSSIP: The Curriculum

Health Systems Science*:

"The study of how health care is delivered, how health care professionals work together to deliver that care, and how the health system can improve patient care and health care delivery."

Interprofessional Practice:

"When multiple health workers from different professional backgrounds work together with patients, families, caregivers, and communities to deliver the highest quality of care."



^{*} Health Systems Science, 2nd Ed. Skochelak et al. Elsevier 2020.

HSSIP Curriculum MS1

- Block I: Overview of Key Topics in HSSIP
- Block II: Focus on Teaming and IP, with ASBN and PA students
- Block III: Focus on Population Health, Social Determinants of Health, and Healthcare Delivery
- Block IV: Focus on Patient Safety and Quality Improvement

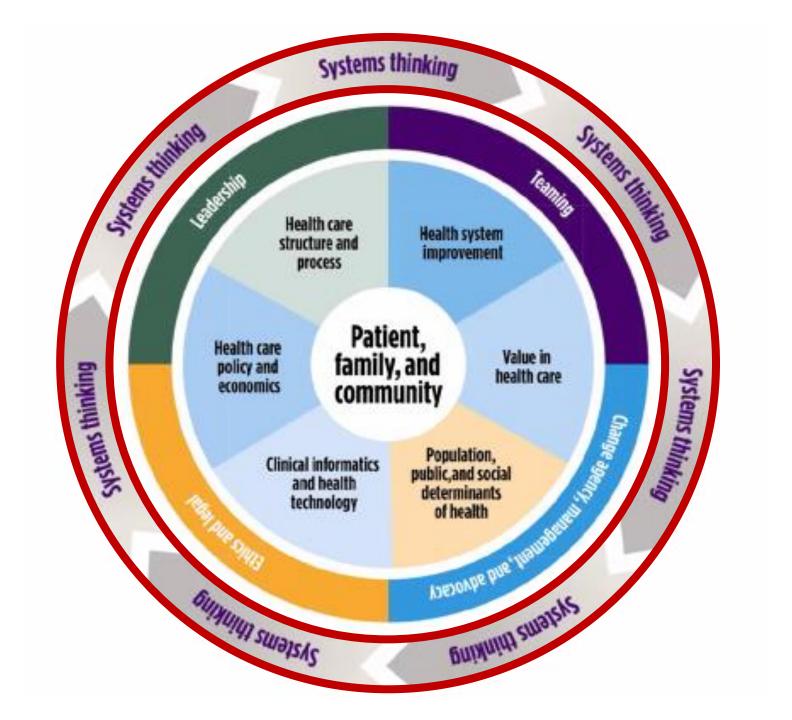
HSSIP Curriculum MS2

- Block V: Focus on IP in the clinical setting
- Block VI: Focus on ethics and law
- Block VII: Focus on public health
- Block VIII: Focus on healthcare policy

HSSIP Curriculum MS3&4

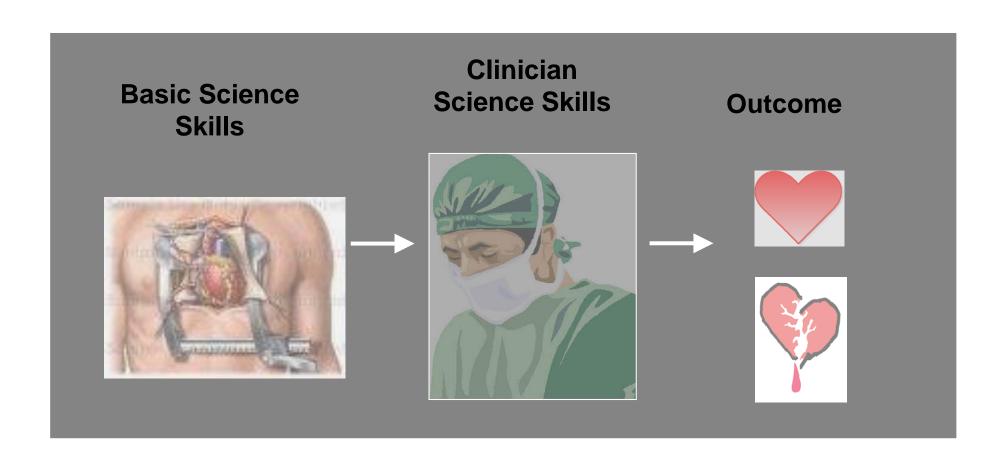


- New M3 HSSIP Longitudinal Curriculum replacing "Domain Days" – Content to be centered on HSSIP Topics
- HSSIP Clinical Champions Now recruiting!
- Incorporation into clerkship curriculum, didactics, assessment
- MS4 Electives & Capstone Course
- Focus on professional identity development, leadership, and change agency: creating future healthcare leaders

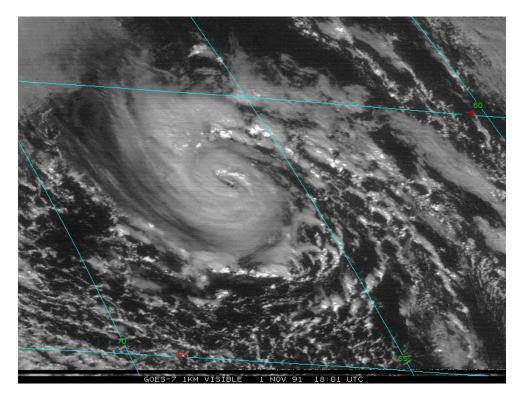


Traditional (Person-Centered) Perspective

"Once outcomes (usually mortality) have been correctly adjusted for patient risk factors, the remaining variance is assumed to be explained by individual... skill." Vincent et al. (2004). Annals of Surgery 239(4): 475-82.







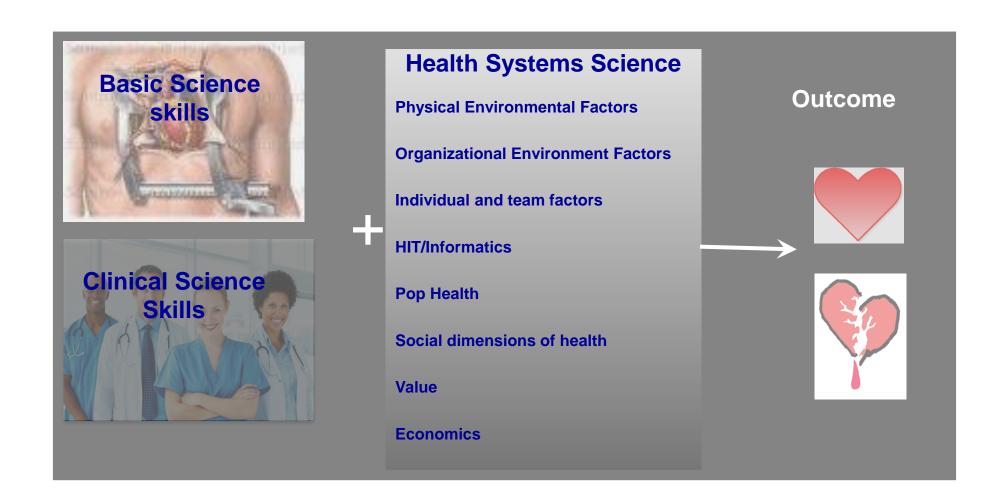
What's a complex (Perfect Storm) system?

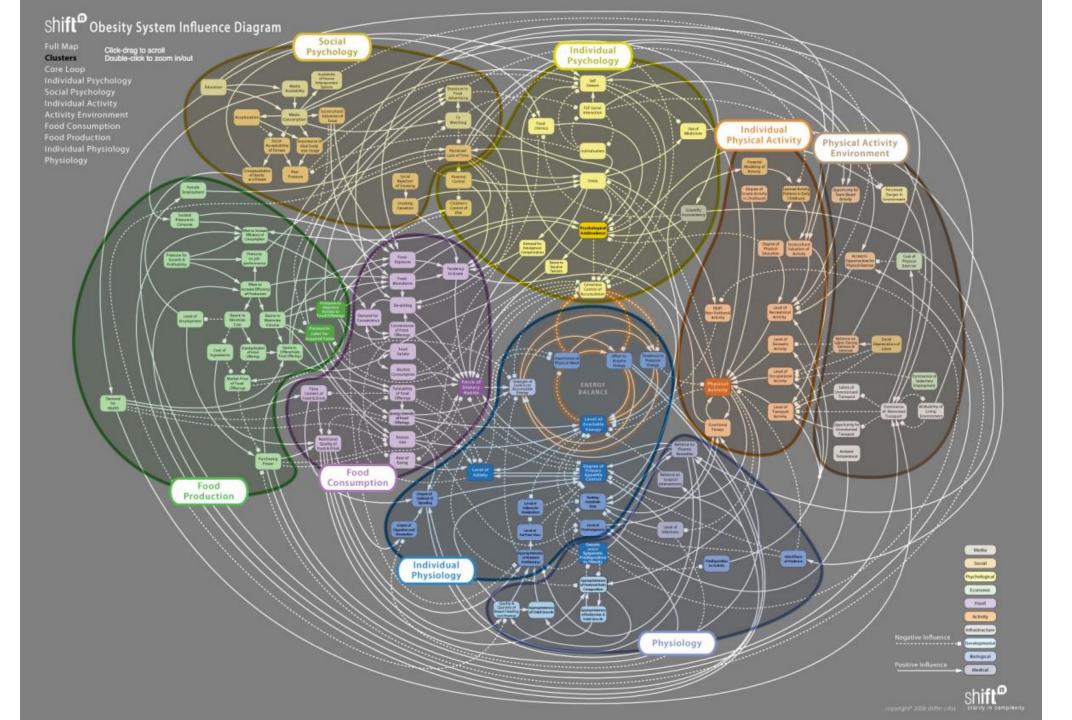
- How do discreet parts become a whole?
- How does that whole interact with its environment?

Systems Perspective

"Optimizing the ... environment, attention to ergonomics and equipment design, understanding the subtleties of decision making in a dynamic environment, enhancing communication and team performance may be more important than skill when reaching for truly high performance."

Vincent et al. (2004). Annals of Surgery 239(4): 475-82.







"The additional focus on health systems science will grow the impact of the interprofessional education domain for which our school has become a national leader. Our students will emerge with a better understanding of the way health care is delivered and how to make a positive impact on the health of patients and populations."

- Dean Learman

