Health Systems Science Across the Med Ed Continuum

Mamta Singh, MD, MS; Heidi Gullett, MD, MPH; Amy Wilson-Delfosse, PhD; Klara Papp, PhD; Patricia Thomas, MD, FACP
Case Western Reserve University School of Medicine, Cleveland, Ohio

Consortium projects in CWRU Context

1. Systems and Scholarship Curriculum
   • Implemented year-long population health curriculum
   • Engages students in analysis of datasets to answer focused questions
   • Teaches that physicians are leaders who bring the patient into every conversation/meeting

2. Undergraduate Medical Education Community-Based Patient Experiences
   • Aging in Place, Patient Navigator, I-LEAP
   • Engage students in small groups at community sites adding value to patients
   • Assess student competencies in health systems science and interprofessional teamwork
   • Challenge remains scalability with large class size and increased interprofessional expansion

CWRU Curriculum Design

Brief curricular overview: Block 1 – Becoming A Doctor, Foundational HSS Course

• Week 1: Population Health
• Week 2: Determinants of Health
• Week 3: Health Systems
• Week 4: Patient-centered care
• Week 5: Culminating week

• Techniques: IQ, TBL, simulation
• Assessment of Health Systems Science content
• Benefits: Early introduction to Health Systems Science leads to engagement and desire to apply new skills
• Challenges: Scaling practical HSS activities for large class longitudinally

Patient Navigator Program: Early evaluation results

• Effective in teaching HSS core domains and systems thinking after building upon Block 1 foundation
• Population health, quality improvement and value-based care were consistently linked with systems thinking

Areas of Expertise and Interest

1. Health Systems Science Assessment
2. Equity, Diversity and Inclusion in medical education curriculum
3. Teaching Population Health and Determinants of Health through community engagement

Institutional Contact

Mamta Singh, MD, MS, Assistant Dean for Health Systems Science
mamta.singh@case.edu; (216) 368-4471

Grant team members

1. Patricia Thomas, MD, FACP; Vice Dean for Medical Education and Principal Investigator
2. Mamta Singh, MD, MS; Assistant Dean for Health System Science
3. Amy Wilson-Delfosse, PhD; Associate Dean for Curriculum
4. Heidi Gullett, MD, MPH; HSS Faculty
5. Klara Papp, PhD; Director of Student Assessment and Program Evaluation