

Teaching Improvement Science (TIS) Curriculum

At OHSU, we are cultivating the next generation of leaders in Health Systems Science through interactive training, project-based learning, and scholarship. We offer residents educational time and support from committed faculty mentors to build essential skills and to participate in, and lead, meaningful change across the healthcare system.

TIS Curriculum:

- House of Horrors-Errors in Medicine
- Quality Improvement: A simulated QI project
- Diagnostic Errors: Understanding how we think
- Value Based Care: Providing affordable quality care
- Teamwork: Simulation Center teamwork activity
- Mystery Dinner Root Cause Analysis: A gamified and simulated RCA
- Error Disclosure & Second Victim: A peer lead workshop
- Narrative Medicine: Processing errors
- QI-EBM: Quality Improvement Evidence Based Medicine

Health Systems Projects

Residents help improve our hospital through Health System Projects as part of the TIS curriculum. The projects are done in small groups of 2-4 interns and are selected based off intern interest. These projects can span the range of Health Systems Science domains and take place in any division (primary care, hospital medicine, or specialty care) to align with resident career development. Projects are created during intern year, but faculty support is provided into R2/3 year for those who wish to carry projects forward for scholarly purposes.

Sampling of Recent Health System Projects:

- Penicillin de-labeling on inpatient wards
- Use of contraception for teratogenic medications in rheumatology clinic
- Improving education for outpatient antibiotic therapy
- Developing personalized pain plans for sickle cell patients
- Limiting police involvement on inpatient services
- Developing diuretic algorithms for heart failure admissions
- Delays in inpatient transfusions

Additional Health Systems Science Opportunities

Scholarship in Health Systems Science

There are numerous scholarly opportunities available in Health Systems Science at OHSU. All

residents complete a Health Systems Science project with faculty mentorship designed to support scholarly output. There are also opportunities through PBL&I to participate in clinic-based projects as well as numerous ongoing inpatient and outpatient projects. A list of available health system projects is kept updated to facilitate resident involvement. Our residents have published articles, posters, and abstracts, and won local/regional ACP/SGIM awards for their involvement in Health Systems Science projects.

OHSU Housestaff Quality & Safety Counsel (HQSC)

The OHSU HQSC is a multi-specialty group of house officers that meets monthly to discuss hospital-wide quality and safety initiatives, review house officer-submitted safety event reports, and provide peer coaching for individual quality and safety initiatives. The HQSC is a part of OHSU's formal quality oversight infrastructure, so participation provides house officers with a high visibility opportunity for engagement and leadership development in health system improvement. Previous HQSC projects have also given residents the opportunity to contribute to conference presentations and publications.

VA Chief Resident in Quality & Safety (CRQS)

The CRQS program at VA Portland and OHSU is a one-year post-residency training for Internal Medicine graduates. Throughout their chief year, the CRQS focuses on learning and teaching about quality and patient safety while also engaging in improvement activities at the Portland VA. The CRQS is available as a consultant and a mentor for quality and safety related issues for residents interested in improvement.

VA Resident Huddle

Experience a Health Systems Huddle first-hand through the Portland VA Internal Medicine Resident Huddle. This weekly inpatient huddle reviews systems changes and quality and safety performance feedback to keep residents informed and part of ongoing systems improvement. Residents attend huddle during VA wards rotations.

Learn More

Interested in learning more about what OHSU teaches as part of our innovative Teaching Improvement Science Curriculum? Visit our website sponsored by the American Medical Association at <https://www.TeachIS.org> to experience the curriculum first-hand, or contact our Director for Health Systems Science Dr. Andrea (Anne) Smeraglio at smeragli@ohsu.edu.