

Global Health Pathway (GHP) in Internal Medicine Residency at the University of Colorado, Denver

Drs. Ali Musani and Reem Hanna

<http://www.medschool.ucdenver.edu/globalhealth>

Curriculum:

The goal of the core curriculum is to train physician leaders in clinical medicine, health policy, and research in global health. The WES curriculum for the Global Health Pathway includes didactics, public policy, journal club, and clinical skills relevant to resource-poor settings (procedural skills, POCUS, etc.). Our goal is to break up each week's sessions into varied learning modalities, ranging from hands-on skills to didactics.

The first type of session will be case-based didactic sessions, related to common pathologies encountered abroad. Topics will focus on tropical diseases such as parasites, tuberculosis, HIV and opportunistic infections. These diseases are commonly encountered in low and middle income countries (LMIC), but residents often receive minimal exposure to them locally in the US. Lecturers will include global health pathway-related faculty (generalists and specialists) as well as infectious disease faculty.

The second category of WES sessions will be ultrasonography skills. In these sessions, residents will receive instruction in commonly-used ultrasound skills in LMIC including: lung ultrasound, abdominal ultrasound, basic obstetric ultrasound, and procedural ultrasound (thoracentesis, paracentesis, lumbar puncture, arthrocentesis). These will be hands-on sessions with expert faculty and will utilize ultrasound models as well as resident volunteers.

The remainder of the WES curriculum will include reviewing global health related articles that address ethical issues and healthcare systems in LMIC, career opportunities locally and abroad with global health focus, pre-departure training, and use of interpreters. Finally, there will be didactic sessions related to public policy and social determinants of health, with the hope of introducing residents to societal, social, cultural, and economic factors and how they frame patients' medical care.

Some of our sessions include:

- What is Global Health?
- Case-based review series: Diagnosis and Treatment of TB in resource-limited settings
- Case-based review series: Diagnostic and Treatment of Malaria
- Case-based review series: Diagnostic and Treatment of Kaposi Sarcoma
- Ethical Challenges in Global Health
- Social Determinants of Health: The Power of One
- Developing US Skills Workshop: Pleural US: Is it TB, PNA, or effusion?
- Developing US Skills Workshop: The basics of Cardiac US
- Developing US Skills Workshop: The basics of Abdominal US
- Interesting X-rays
- Careers in Global Health
- Tele-medicine in Global Health

International Sites:

Residents will spend one or more months during their IM residency on global health electives. These electives will provide a fertile ground for a full immersion training in clinical and research aspects of medicine in new and different health care environments. The foundation of training there will be on clinical skills, medical knowledge, and experiential learning instead of the highly investigative and technology-driven practice of medicine in developed countries. The social and cultural diversity with various ethical and hierarchical paradigms will challenge residents in expanding their horizons in the practice of medicine. These electives can be clinically focused, with residents working on hospital wards, in clinics, and multispecialty medical camps for underserved refugee or migrant populations; or research focused, with training in research methodology and conduction of multinational studies.

Currently, we offer five international sites including Nepal, Zimbabwe, Guatemala, Philippines and India for clinical and research immersion training. The following are some of the salient features of each site in relation to its scope of practice, patient population, and expected pathologies to be encountered.

Please visit <http://www.medschool.ucdenver.edu/globalhealth> for more information on international rotations.