

Online Global Health Course 3: Clinical Non-Communicable Diseases in Low Resource Settings

About this course:

This course is provided by the Department of Medicine, Global Medicine as an online course in Canvas. This course prepares physicians and other health care providers to care for people traveling to (or living in) developing countries and other settings where resources are limited. If you have questions or need support during the course contact globalhealth@umn.edu.

Once enrolled in the course, complete all elements of the Canvas course including: the pre-test, modules, supplemental bonus material (optional, not required for completion of the course) and post-test. Be sure to complete the course evaluation form; this is required to receive the available CE credit and/or a Certificate of Completion.

Upon submission of your evaluation, you will have an opportunity to print a copy of your Certificate when it appears on your screen. The Office of Continuing Professional Development (OCPD) will also record your completion in [CE Portal](#). You will use your email address to access your account in CE Portal. Allow one month for your transcript in CE Portal to be updated; contact cme@umn.edu if you have questions or need assistance accessing CE Portal. *CE Portal is not connected to any other University or Fairview systems and if you have not previously accessed your CE Portal account, select Forgot Your Password on the Sign In screen to set your password.*

Estimated time to complete: 28.25 hours

Original Release Date: 4/22/2011

Recent Content Review: April 2025

Content Valid Through: 6/30/2026

Objectives

At the conclusion of this course, learners should be able to:

1. Analyze differences in non-communicable diseases (NCDs) between low-resource and high resource settings, including epidemiology, prevention, and clinical diagnoses and treatments, from a medical perspective.
2. Appraise key interventions in the field of NCDs, from prevention to emergency health care, including malnutrition, pediatrics, neonatal resuscitation, obstetrics, and gender related care
3. Manage the diagnosis and treatment of these diseases at the clinical level.
4. Evaluate a wide range of clinical skills from selected medical specialties to care for NCDs in low resource settings, including hematology, oncology, cardiology, and dermatology.

Accreditation

In support of improving patient care, University of Minnesota, Interprofessional Continuing Education is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.



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Credit Designation Statements

American Medical Association (AMA)

The University of Minnesota, Interprofessional Continuing Education designates this enduring material for a maximum of 28.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other Healthcare Professionals

Other healthcare professionals who participate in this CE activity may submit their statement of participation to their appropriate accrediting organizations or state boards for consideration of credit. The participant is responsible for determining whether this activity meets the requirements for acceptable continuing education.

Additional Information**Cancellation Policy**

Registration of this asynchronous course is final with no refunds after the course has been started. If there are circumstances requiring administrative review, organizers may be contacted directly at gblhlth@umn.edu for individual review.

Disclosure Summary

Module A: Emergency Medicine			
Primary Orthopaedics in a Resource Poor Setting	Faculty	Christina Ward, MD	Nothing to disclose
Toxicology in the Tropics	Faculty	Dr. Carson Harris	Nothing to disclose
Universal Approach to the Critically Ill	Faculty	Dr. Steven Dunlop	Nothing to disclose
Procedural Pearls	Faculty	Dr. Steven Dunlop	Nothing to disclose
Ultrasound Basics	Faculty	Dr. Steven Dunlop	Nothing to disclose
Ultrasound Exams	Faculty	Dr. Steven Dunlop	Nothing to disclose
	Faculty	Dr. Jim Leatherman	Nothing to disclose
	Faculty	Dr. Zach Kattenborn	Eli Lily- stock ownership
Module B: Pediatrics			
Fundamentals of Malnutrition	Faculty	Adriana Dhawan MD	Nothing to disclose
	Faculty	Tiana Hallberg, MD	Nothing to disclose
	Faculty	Dr. Parminder Suchdev	Nothing to disclose
	Faculty	Dr. Steve Swanson	Nothing to disclose
	Faculty	Victor Musiime	Nothing to disclose
	Faculty	Dr. Lindy Fenlason	Nothing to disclose
	Faculty	Dr. Kristina Krohn	Nothing to disclose
Refeeding Syndrome	Faculty	Dr. Steve Swanson	Nothing to disclose
Review of Vitamin and Mineral Deficiencies	Faculty	Dr. Parmi Suchdev	Nothing to disclose
Vomiting, Diarrhea, and Dehydration	Faculty	Dr. Tina Slusher	Nothing to disclose

Basic & Advanced Sedation Techniques in Low Resource Countries	Faculty	Dr. Jen Halverson	Nothing to disclose
Neonatal Resuscitation: Helping Babies Breathe	Faculty	Dr. Tina Slusher	Nothing to disclose
Pediatric Procedures Adapted for Resource Limited Settings	Faculty	Dr. Dr. Andrew Wu	Nothing to disclose
	Faculty	Dr. Tina Slusher Dr.	Nothing to disclose
	Faculty	Dr. Ashley Bjorklund	Nothing to disclose
	Faculty	Dr. Ifelayo Ojo	Nothing to disclose
Module C: Gender/Sex-Based Health			
Obstetric Fistula	Faculty	Rahel Nardos, MD	Nothing to disclose
OB Emergencies	Faculty	Christy Boras, MD,	Nothing to disclose
	Faculty	Mary-Signe Chojnacki, RN,	Nothing to disclose
	Faculty	Samantha Pace, MD	Nothing to disclose
Queer Health	Faulty	Dr. Hayley Veazey	Nothing to disclose
	Faculty	Dr. Ameya Kumar	Nothing to disclose
Module D: Heart and Kidney Disease			
Chronic Disease in Low Income Settings - Management of Heart Failure and Hypertension	Faculty	Dr. Ron Johannsen	Nothing to disclose
Valvular Heart Disease in Resource Limited Settings	Faculty	Dr. Ron Johannsen	Nothing to disclose
Infectious Heart Disease and Cardiology in Resource Poor Settings	Faculty	Dr. Ron Johannsen	Nothing to disclose
Acute Kidney Injury	Faculty	Dr. Janewit Wongboosin	Nothing to disclose
Chronic Kidney Disease	Faculty	Dr. Janewit Wongboosin	Nothing to disclose
Hot Topics in Global Health Nephrology	Faculty	Dr. Janewit Wongboosin	Nothing to disclose
Renal Transplantation in Low Resource Settings	Faculty	Dr. Nuttasith Larppasut	Nothing to disclose
Module E: Hematology and Oncology			
Iron Deficiency in Low Resource Settings	Faculty	Dr. Randy Hurley	Nothing to disclose

Cancer in Low-Resource Settings	Faculty	Alma Habib, MD	Nothing to disclose
	Faculty	Furaha Serventi, MD	Nothing to disclose
	Faculty	Randy Hurley, MD	Nothing to disclose
	Faculty	Adriana Dhawan, MD	Nothing to disclose
Practical Hematology for Low Resource Settings	Faculty	Troy Lund, MD	Nothing to disclose
Hepatocellular Carcinoma in Resource Limited Settings	Faculty	Jose Debes, MD	Nothing to disclose
Module F: Dermatology			
Phytophotodermatitis	Faculty	Dr. Alexia Knapp	Nothing to disclose
Burn Management in Low Resource Settings	Faculty	Dr. Jennifer Halverson	Nothing to disclose
Non-Communicable Tropical Dermatology	Faculty	Dr. Alexia Knapp	Nothing to disclose
Module G: Other Medical Specialties			
Pleural diseases in Laos	Faculty	Dr. Jim Leatherman	Nothing to disclose
Diabetes Epi, Diagnosis, and Treatment in Resource-Limited Settings	Faculty	Dr. Tasma Harindhanavudhi	Nothing to disclose
Eye Care in Resource Poor settings	Faculty	Dr. John Knapp	Nothing to disclose
Neurology in the Tropics	Faculty	Dr. Amy Walsh	Nothing to disclose
Thyroid	Faculty	Dr. Ann Kearns	Nothing to disclose
Module H: Clinical Case Vignettes	Faculty	Dr. Matt Goers	Nothing to disclose
Case: 21 yo female with diarrhea	Faculty	Dr. Matt Goers	Nothing to disclose
Case - Numbness and Tingling	Faculty	Dr. Hope Pogemiller	Nothing to disclose
Case - Ate the Walrus	Faculty	Dr. Brian Yablon	Nothing to disclose
Non-Communicable Cases from Adama Ethiopia	Faculty	Dr. Ben Swart	Nothing to disclose

Planning Committee		
Kristina Krohn, MD, CTrop Med	Course Director	Nothing to disclose
Megan Shaughnessy, MD, CTropMed	Co-Course Director	Nothing to disclose
Brett Hendel-Paterson, MD, CTropMed®	Planning Committee Member	Nothing to disclose

William Stauffer, MD, MPH, CTropMed®	Planning Committee Member	Nothing to disclose
Beth Scudder, MA, Course Developer	Planning Committee Member	Nothing to disclose
Sarah Sponsler, Global Medicine Pathway Coordinator	Planning Committee Member	Nothing to disclose