#### Online Global Health Course 5: Bacterial, Mycobacterial, and Fungal Infections

#### 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 diagnose and treat people with bacterial, TB, and fungal infections. 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 <a href="Moleonergy-EP-ottal">CE Portal</a>. 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 <a href="moleonergy-em-ottal-em-

**Estimated time to complete**: 30.5 hours **Original Release Date**: 3/15/2011 **Recent Content Review:** March 2025 **Content Valid Through:** 6/30/2026

#### **Objectives**

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

- 1. Analyze the epidemiology of tropical bacterial, mycobacterial and fungal diseases, highlighting neglected tropical diseases.
- 2. Describe the pathophysiology and clinical presentation of these diseases, including tuberculosis.
- 3. Apply the diagnosis and treatment of these diseases at the clinical level.
- 4. Identify social determinants of health that impact tropical bacterial, mycobacterial and fungal diseases in neglected populations.

# 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.

JOINTLY ACCREDITED PROVIDER INTERPROFESSIONAL CONTINUING EDUCATION

## **Credit Designation Statements**

## **American Medical Association (AMA)**

The University of Minnesota, Interprofessional Continuing Education designates this enduring material for a maximum of 30.5 *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 <a href="mailto:sblhlth@umn.edu">sblhlth@umn.edu</a> for individual review.

# **Disclosure Summary**

Module A: Tuberculosis	i		
Tuberculosis	Faculty	Bryan Rock, MD	Nothing to disclose
Pathogenesis			
Management and	Faculty	Bryan Rock, MD	Nothing to disclose
Treatment of Active			
Pulmonary			
Tuberculosis			
Extrapulmonary	Faculty	Bryan Rock, MD	Nothing to disclose
Tuberculosis			
Pediatric TB	Faculty	Dr. Kristen Bastug	Nothing to disclose
	Faculty	Dr. Jessica Hane	Nothing to disclose
Latent TB	Faculty	Dr. Megan	Nothing to disclose
		Shaughnessy	
Multi-Drug Resistant	Faculty	Dr. German Henestroza	Nothing to disclose
Tuberculosis			
TB in MN	Faculty	Dr. Malini DeSilva	Nothing to disclose
Diagnosis of TB in Low	Faculty	Dr. Lillian Tugume	Nothing to disclose
Income Settings			
Module B: Bacterial Infe	ections I		
A Difficult Diagnosis	Faculty	Dr. Megan	Nothing to disclose
(Typhoid)		Shaughnessy	
Rickettsial Diseases	Faculty	Dr. Lucas Blanton	Nothing to disclose
Part I			
Rickettsial Diseases	Faculty	Dr. Lucas Blanton	Nothing to disclose
Part II			
Leprosy	Faculty	Dr. Pedro Legua	Nothing to disclose
Diphtheria	Faculty	Dr. Jon Hallberg	Nothing to disclose

Carrion's Disease	Faculty	Dr. Eloy Espinoza	Nothing to disclose
Pertussis	Faculty	Dr. Michael Taylor	Nothing to disclose
	Faculty	Dr. Kristina Krohn	Nothing to disclose
Murine and Scrub	Faculty	Dr. Wasin Matsee	Nothing to disclose
Typhus	Faculty	Dr. Jonathan Sellman	Nothing to disclose
Plague	Faculty		Nothing to disclose
Tularemia (More than just rabbit fever)	Faculty	Victoria Hall, DVM, MS Nothing to disclose	
Q Fever	Faculty	Maria Bye Nothing to disclo	
Tetanus	Faculty	Dr. Megan Nothing to disclose Shaughnessy	
Brucellosis	Faculty	Dr. Jonathan Sellman	Nothing to disclose
Borrellia Recurrentis in Ethiopia	Faculty	Dr. Kalkidan Zenebe Nothing to disclose	
Tick Borne Diseases	Faculty	Dr. Elizabeth Schiffman	Nothing to disclose
Module C: Bacterial Infe			. 5
STI Treatment and Prevention	Faculty	Jenell Stewart, DO, MPH	Nothing to disclose
Rise of STIs Globally	Faculty	Jenell Stewart, DO, MPH	Nothing to disclose
Cholera	Faculty	Kate (Venable) Shafto, MD	Nothing to disclose
Cholera: Treatment Units	Faculty	Dr. Anst Gelin	Nothing to disclose
Campylobacter	Faculty	Kirk Smith, DVM, MS, PhD	Nothing to disclose
Salmonella	Faculty	Kirk Smith, DVM, MS, PhD	Nothing to disclose
Shigella	Faculty	Kirk Smith, DVM, MS, PhD	Nothing to disclose
E. Coli Diarrhea	Faculty	Kirk Smith, DVM, MS, PhD	Nothing to disclose
Melioidosis	Faculty	Dr. Kristina Krohn	Nothing to disclose
	Faculty	Dr. Megan Shaughnessy	Nothing to disclose
	Faculty	Dr. Wasin Matsee	Nothing to disclose
Leptospirosis	Faculty	Hannah Lee, MD	<b>5</b>
	Faculty	Nishad Sathe, MD	
	Faculty	Bickey Chang, MD	
	Faculty	Mahsa Abassi, DO	
	Faculty	Hope Pogemiller, MD	
	Faculty	Dr. Wasin Matsee	Nothing to disclose
	Faculty	Kristina Krohn, MD	Nothing to disclose
Anthrax	Faculty	Maria Bye	Nothing to disclose
	Faculty	Kelly Schenck	Nothing to disclose

Acute Bacterial Meningitis and Epidemic Meningococcol Disease Control in Africa	Faculty	Henry Wu, MD, DTM&H	Grant: Takeda		
Antibiotic Resistance A Global Threat	Faculty	Lina Hamid, PharmD	Nothing to disclose		
Module D: Fungal Infections					
Histoplasmosis	Faculty	Dr. Tom Chiller, MD MPHTM	Nothing to disclose		
Coccidiomycosis	Faculty	Dr. Tom Chiller, MD MPHTM	Nothing to disclose		
Infection in an otherwise healthy person (blastomycosis)	Faculty	Dr. Malia Ireland	Nothing to disclose		
	Faculty	Dr. Tom McHale	Nothing to disclose		
Paracoccidioimycosis	Faculty	Dr. Monica Rani	Nothing to disclose		
Fungal NTDs	Faculty	Dr. Dallas Smith	Nothing to disclose		
Drug Resistant Fungal Infections	Faculty	Jeremy Gold	Nothing to disclose		
	Faculty	Dr. Dallas Smith	Nothing to disclose		
Sporothrix Brasiliensis	Faculty	Dr. Tom Chiller, MD MPHTM	Nothing to disclose		
Module E: Clinical Case	Vignettes				
Hansen's Disease – Leprosy	Faculty	Dr. Alexia Knapp	Nothing to disclose		
	Faculty	Dr. Ann Settgast	Nothing to disclose		
Bacterial and Fungal Dermatology Cases	Faculty	Dr. Alexia Knapp	Nothing to disclose		
	Faculty	Dr. Erkia Reid	Nothing to disclose		
Anthrax Case	Faculty	Dr. Megan Shaughnessy	Nothing to disclose		
Atrophic Rhinitis Cases	Faculty	Dr. Mallory Yelenich- Huss	Nothing to disclose		
New Onset Movement Disorders	Faculty	Dr. Steve Swanson	Nothing to disclose		
Cases from Cameroon	Faculty	Dr. Brian Muthyala	Nothing to disclose		
Case: 30 yo male with left-sided facial swelling	Faculty	Dr. Matt Goers	Nothing to disclose		
Case – Nausea and Vomiting	Faculty	Dr. Brian Yablon	Nothing to disclose		
Case – ATV Broke Down	Faculty	Dr. Brian Yablon	Nothing to disclose		

# **Planning Committee**

Kristina Krohn, MD, CTrop Med	Course Director	Nothing to disclose
Megan Shaughnessy, MD,	Co-Course Director	Nothing to disclose
CTropMed		
Brett Hendel-Paterson, MD,	Planning Committee Member	Nothing to disclose
CTropMed <sup>®</sup>		
William Stauffer, MD, MPH,	Planning Committee Member	Nothing to disclose
CTropMed <sup>®</sup>		
Beth Scudder, MA, Course	Planning Committee Member	Nothing to disclose
Developer		
Sarah Sponsler, Global Medicine	Planning Committee Member	Nothing to disclose
Pathway Coordinator		