

Project: Ghana Emergency Medicine Collaborative

Document Title: Open Educational Resources

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Open Educational Resources

Ghana Emergency Medicine Collaborative

University of Michigan Department of Emergency Medicine



Ghana Emergency Medicine Collaborative

- Established in 2008
- Aims to improve the delivery of emergency medical care in Ghana through sustainable physician, nursing and medical student training programs
- Supported by NIH grant



Ghana Emergency Medicine Collaborative

- Kwame Nkrumah University of Science and Technology (KNUST) ♪
- Komfo Anokye Teaching Hospital (KATH) ♪
- Ghana College of Physicians and Surgeons ♪
- Ghana Ministry of Health ♪
- University of Michigan Department of Emergency Medicine and School of Nursing ♪



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 ♪-UNESCO♪



Open Educational Resources

- Using the ACGME requirements for Emergency Medicine Residency, we developed a list of approximately 150 lectures that Ghanaian Emergency Medicine Residents should receive during their training♪
- Emergency Nursing and Medical Student lectures are also being developed♪



Open Educational Resources

- Lectures are being donated from the University of Michigan/St. Joseph Mercy Hospital EM residency faculty, as well as faculty from other EM residencies in the United States♪
- Visiting faculty and nurses are writing lectures to present while in Kumasi, Ghana♪





- open.michigan is editing lectures ♪
 - ensure legal compliance ♪
 - maximize other's ability to use, adapt, and further share the resources ♪





- open.michigan is publishing Emergency Medicine courses in OER format♪
 - Advanced Emergency Trauma♪
 - Ghana Emergency Medicine Collaborative♪
- <http://open.umich.edu/education/med/em>♪



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medical

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- > m2 curriculum
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- > department of emergency medicine
 - advanced emergency trauma
 - ghana emergency medicine collaborative
- > department of family medicine
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Department of Emergency Medicine

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The Department of Emergency Medicine has nationally recognized clinical expertise in trauma, chest pain, toxicology, brain injuries and pediatric emergency medicine. The Department is a full service Level 1 adult and pediatric trauma center staffed and equipped to deal with all urgent and emergency problems. It is a major access point to the services and facilities of the University of Michigan Health System and is a provider of emergency care 24-hours a day, 7-days a week. Faculty are board-certified physicians in Emergency Medicine and/or Pediatric Emergency Medicine. The Department of Emergency Medicine offers a four-year residency training program, leading to board certification in the specialty of Emergency Medicine, and a Pediatric Emergency Medicine Fellowship program, accepting qualified candidates from Pediatric and Emergency Medicine residency programs.

[Visit Website](#)

Course(s)

- > [Advanced Emergency Trauma](#)
- > [Ghana Emergency Medicine Collaborative](#)



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Ghana Emergency Medicine Collaborative

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Overview

Materials

Sessions

Term:

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Published: November 18, 2011

Revised: August 3, 2013

Current emergency care in Ghana is sub-optimal with significant delays to definitive care and high morbidity and mortality. The Ghanaian government has recently invested in physical infrastructure for emergency care at major teaching hospitals, but the human resources to provide care are inadequate. To address this need, the [Ghana Emergency Medicine Collaborative](#) has proposed an innovative training program focused on medical students, nurses, and residents with the formation of a new faculty for sustainable training. This program will train emergency medicine personnel in injury and acute medical illness management, expose trainees to research methodology, administrative and leadership aspects of emergency medicine.



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The Ghana Emergency Medicine Collaborative is a joint project between Kwame Nkrumah University of Science and Technology, Komfo Anokye Teaching Hospital, University of Michigan Medical School and [School of Nursing](#), Ghana Ministry of Health, Ghana College of Physicians and Surgeons, and Ghana Ambulance Service. The program receives funding from the [Medical Education Partnership Initiative \(MEPI\)](#).

Course Coordinators: Rockefeller Oteng, Richard Redman, Sue Anne Bell, Nathan Brouwer

dScribes: Anudeep Mukkamala, Matthew Simpson, Trisha Paul, Jade Cheng

Viewer discretion is advised: The educational content contained herein may include medical images that non-health professionals may find disturbing.

This resource is in progress. New lectures are added every month. Check back for new materials.

Keywords: [emergency medicine](#) [trauma](#) [trauma care](#) [trauma management](#)

Syllabus

The Ghana Emergency Medicine Collaborative includes intensive team training for medical students, nurses, and residents.































































































































The medical student training is facilitated as a clinical rotation to prepare physicians for emergency care they may need to provide in their service at district hospitals.

The nursing program is a one-year module-based curriculum and offers a diploma in Emergency Medicine upon completion.

The residency curriculum lasts three years and includes the following:

- Core Lectures
 - Cardiovascular
 - Dermatology
 - Emergency Medical Services
 - Endocrine/Metabolic



Medical Student: Trauma: 03: Shock	Patrick Carter	 	 
Medical Student: Trauma: 04: Toxicology Basics	Patrick Carter	 	 
Medical Student: Trauma: 05: Environmental Emergencies	Patrick Carter	 	 
Nursing: Abdominal Emergencies	Elizabeth Tamm	 	 
Nursing: Acute Coronary Syndrome	Kristen Sarna	 	 
Nursing: Assessment and Resuscitation	Antoinette Bradshaw	 	 
Nursing: Burn Emergencies	Heather Hartney	 	 
Nursing: Cardiovascular Emergencies	Sue Anne Bell	 	 
Nursing: Communicable and Infectious Disease Emergencies	Katherine A Perry	 	 
Nursing: Fluid and Electrolyte Imbalances in Emergency Nursing	Chauntel Henry	 	 
Nursing: Genitourinary Emergencies	Karl Lopata	 	 
Nursing: Hepatitis	Katherine A Perry	 	 
Nursing: Herpes/Varicella/Shingles	Katherine A Perry	 	 
Nursing: HIV/AIDS	Katherine A Perry	 	 
Nursing: Infectious Disease Overview	Katherine A Perry	 	 
Nursing: Measles/Mumps/Rubella	Katherine A Perry	 	 
Nursing: Musculoskeletal Emergencies and the Nursing Process	Barbara Demman	 	 
Nursing: Nursing Research	Sue Anne Bell	 	 
Nursing: Pain Management	Sue Anne Bell	 	 
Nursing: Parasitic Infections	Katherine A Perry	 	 
Nursing: Shock and Initial Resuscitation	Kristen Sarna	 	 
Nursing: Skin Infections	Katherine A Perry	 	 
Nursing: Trauma	Tim Maxim	 	 
Nursing: Triage	Antoinette Bradshaw	 	 
Nursing: Typhoid Fever/Infectious Diarrhea/Diphtheria/Pertussis	Katherine A Perry	 	 
Resident: Cardiovascular -- Achy Breaky Heart: Cardiogenic Shock	Carol Choe	 	 
Resident: Cardiovascular -- ACLS Overview of Pulseless Arrest	Rockefeller Oteng	 	 
Resident: Cardiovascular -- Acute Aortic Emergencies	Carol Choe	  	 
Resident: Cardiovascular -- Acute Congestive Heart Failure	Rashmi Kothari	 	 
Resident: Cardiovascular -- Advanced Cardiac Life Support	Rockefeller Oteng	  	 
Resident: Cardiovascular -- Approach to Acute Chest Pain	Rockefeller Oteng	 	 

Open Educational Resources

- These lectures are currently being used and adapted for Emergency Medicine education in West Africa and throughout the world.♪



Open Educational Resources

- Please contact us if you are interested in learning more about our experiences in OER, or if you are interested in donating or developing lectures that can be used in the Ghana Emergency Medicine Collaborative.♪



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- Nathan Brouwer, Rockefeller Oteng, ♪
Sue Anne Bell, Kathleen Ludewig♪
- Contact: nbrouwer@med.umich.edu♪
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