

MCW/CHW Pediatric Global and Community Health Track Overview of the supplementary training program available for Pediatric & Med-Peds residents







Global Child Health Training Program





MISSION



VISION



GUIDING PRINCIPLES

Collaborate with the MCW Office of Global Health to establish global partnerships to reduce child health disparities, with an emphasis on bidirectional education, research and clinical care. Principles of partnerships include sustainability, commitment, equity, respect, transparency, reciprocity, social justice, credibility, and trust. These same principles will be applied towards local community partnerships.



Prepare pediatricians to engage in sustainable global and community health endeavors, and improve child health through cultivating academic bidirectional global and local partnerships.

Reduce pediatric health disparities worldwide through education, research, and clinical collaborations.

Pediatric Global and Community Health Track Leadership



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How does the CHW/MCW Pediatric Residency Program approach global and community health education?

Apply in August of intern year ✓Noon conferences (6/year x 3 years, available to all residents) Simulation sessions of clinical situations in low-resource settings ✓ GH TRAIN sessions (Track Residents As Instructors at Noon) Visiting speakers Local projects/partnerships: Refugee Health Literacy Project ✓ Global engagement (opportunities include global or local/global health elective, capacity development, & educational initiatives)





Global Child Health Training Program

GLOBAL HEALTH

Participate in the Global Health Noon Conference

Attend the Global Health Track monthly sessions (

Scholarly requirement: Lead a journal club (TRAIN

Establish a relationship with a Global Health mento

Prepare for and participate in an elective in a resou limited local setting, or international)

This experience includes completion of a pre-trip curriculum, ma *Note: This is highly recommended but not required for track co participation in a global health elective (such as illness, safety co global health electives are only offered to residents who have en Track requirements by graduation

Community engagement: participate in service lear International Learning Center

Educational initiatives: help with the Pediatric Glob Health Pathway medical students, engage in acade during global & community health electives

National involvement: become a member of the An Child Health; get engaged in national advocacy or

Residents must fulfill minimum expectations

TRACK COMPONENTS		
Series (4 per year)	1(
1 st Wednesday of every month)		
I session)		
OL	y aı a	
urce-limited setting* (Indian Health Services, resource- aintenance of an on-site patient log, and debriefing upon return. Empletion. We recognize that there are circumstances that could preclude oncerns at the elective site, financial restrictions, etc). Per CHW policy, nrolled in the Global Health Track as interns and are on track to complete		
rning opportunities, including with partners such as the		
bal & Community Health Track curriculum, mentor Global emic research, participate in Train the Trainer initiatives		
nerican Academy of Pediatrics Section on International educational initiatives		
in order to achieve track "completion". Reside		

Community health-focused research project during their residency will be awarded "Completion with Distinction"

% Expected participation	PL Year
00% (in person or by video)	1, 2, 3
50%	1, 2, 3
100%	3
Optional if GCHT is our secondary track nd you already have mentor in a different track	1, 2, 3
Required	3 (or 4, for med- peds)
Optional	1, 2, 3
Optional	1, 2, 3
Optional	1, 2, 3

ents who complete a Global or

CHW/MCW Pediatric Global Health Noon Conference Series (3 year rolling curriculum available to all pediatric & med-peds residents)

Diagnosis & management of malnutrition in low resource settings	Emergent & intensive care in low- resource settings	Approach care
Diarrhea & dehydration: extending beyond the NS bolus	Infectious diseases in international travelers	Dia
Pediatrics in the tropics (trivia format)	Global Health Jeopardy (trivia format)	Interr
Diagnosis & management of HIV	Diagnosis and management of malaria	HIV care
Social and economic influences on child health: local & global perspectives	Maternal, newborn & child health	Injury pr
Report card on adolescent global health	Humanitarian disaster response	Introduct

h to skin abnormalities and burn re in low-resource settings

agnosis & management of tuberculosis

rnational adoption medicine

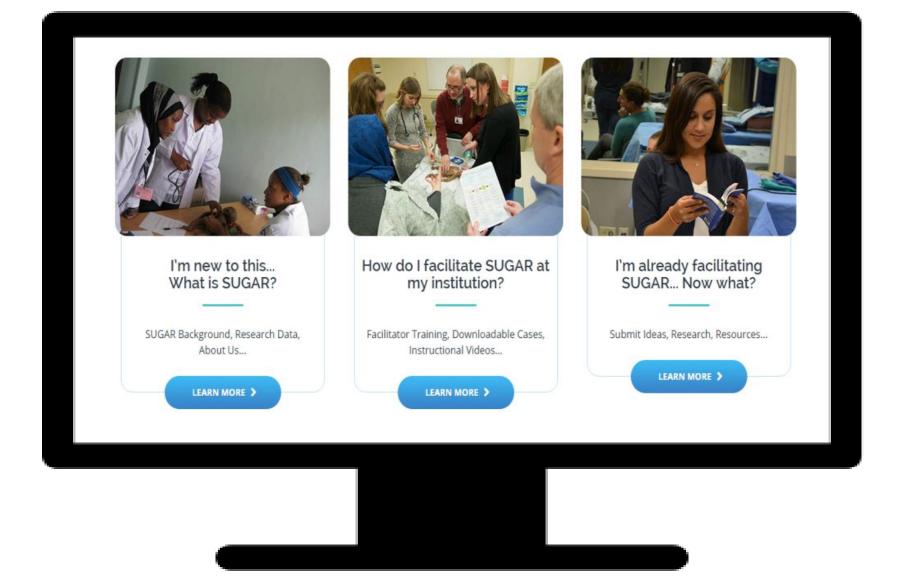
re: neighborhoods to nations

prevention and management in low resource settings

ction to Native American health

S.U.G.A.R. simulation sessions (Simulation Use for Global Away Rotations)

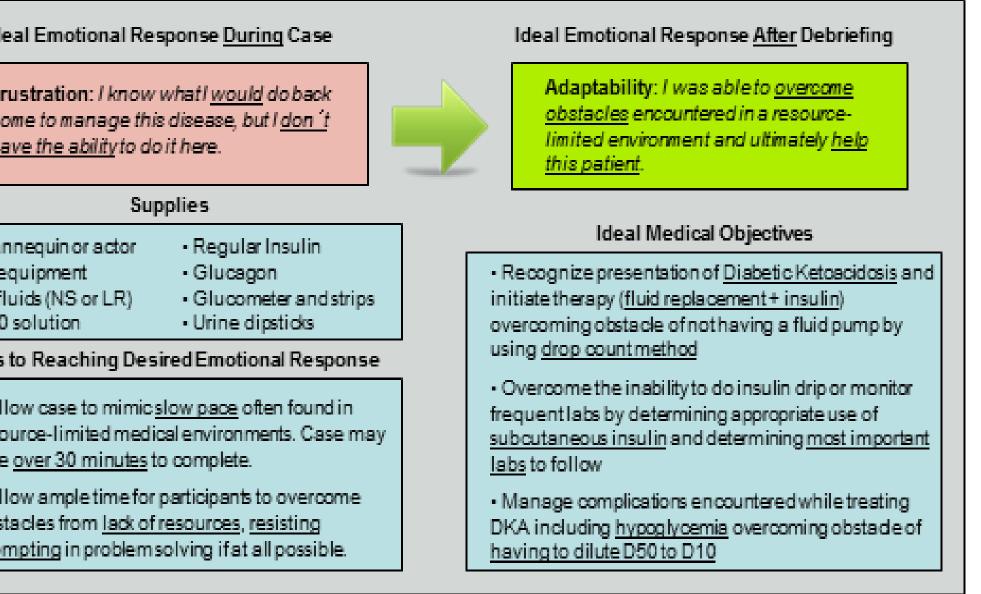
Curriculum developers: Mike Pitt, Sabrina Butteris, & the S.U.G.A.R. collaborators



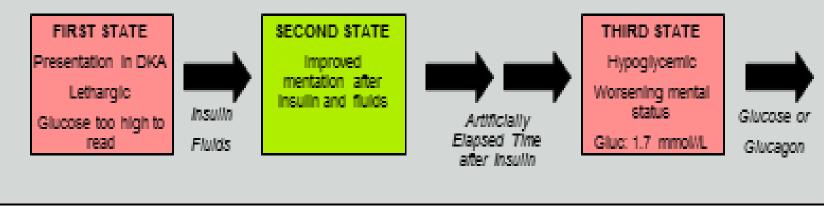


	ldea Fru hon <u>hav</u>
	• Manr • IV eq • IV flu • D50 s Keys t
	• Allo resou take o • Allo obsta prom
-	IDEAL
	FIRS Presenta Let Glucose
	SIGN • <u>Hypergly</u> metabolic bicarb <15 •Polydyspia • Vomiting • Kussmau deep brea • Fruity bra • Signs of altered me

CASE 1A: BACKGROUND



CASE FLOW: Specifics less important than flow - Remembergoal is to allow frustration



KEY MEDICAL MANAGEMENT REMINDERS

NS OF DKA

l<u>ycemla</u> (>11 mmol/L) + c acidosis (pH <7.3 or I5 mEq/L)

la/Polyurla

)/Dehydiration

Il Respirations (labored, ths)

f Increased ICP (confusion ental status, headache)

REHYDRATION

 Start with 10 ml/kg bolus of NS over 1 hr. May repeat.

 Replace remainder of deficit over <u>48 hours</u>. After bolus, start
 1.5 times maintenance of NS +KCL switching to D5 NS + KCL when RBG < 14 mmol/L or glucose decreasing rapidly

 Stop IV fluids when patient can drink or tolerate NG

 Drop Count Method: (If no pump) 20 drops = 1 mi; Can provide a rate by adjusting rate of drops (I.e. 90 ml/hr = 1,800 drops/hr = 30 drops per min = 5 drops in 10 seconds)

INSULIN DOSING

 Ideal would be to start insulin drip at 0.05-0.1 units/kg/hr

 Can <u>mix insulin 1:1 in 0.45 NS</u> to make solution of insulin that is 1 unit/mil. Then piggyback with IVF using drop count method (give as close to vein as possible)

 If drip not available, can do <u>intermittent SQ dosing</u> as sliding scale. Assume 1 unit/kg/day needed and determine sliding scale with Rule of 1800: 1800/insulin units per day = amount in mg/dL glucose will drop for each unit of insulin

HYPOGLYCEMIA

FOURTH STATE

proved mentation

er administration

of glucose or

glucagon

 Treat with <u>dextrose bolus</u> or <u>glucagon</u>.

 Rule of 50: Percent dextrose multiplied by the volume to give in mi/kg should equal fifty (i.e. 5mi/kg of D10; 2 mi/kg of D25)

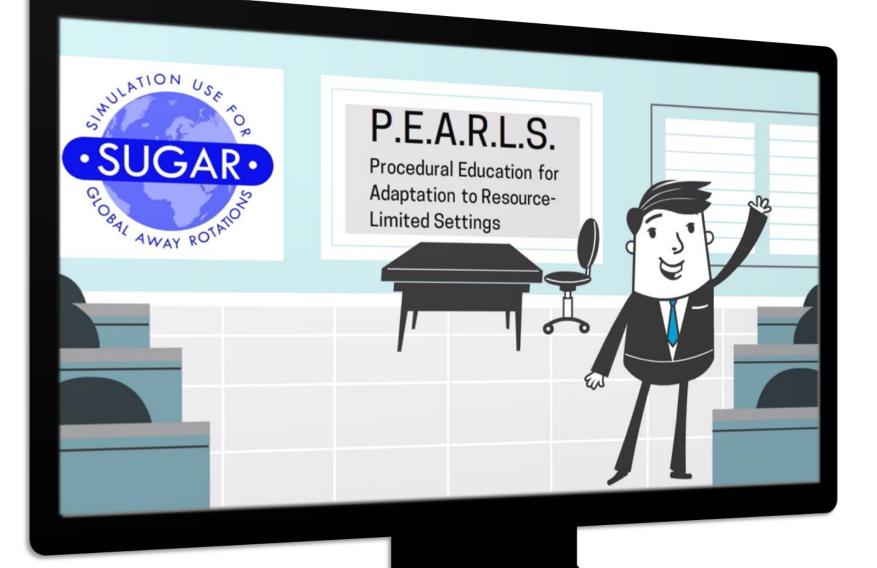
 Do not give more than D12.5 through peripheral IV

Dilute D50 to D10 by mixing 1
part D50 to 4 parts NS

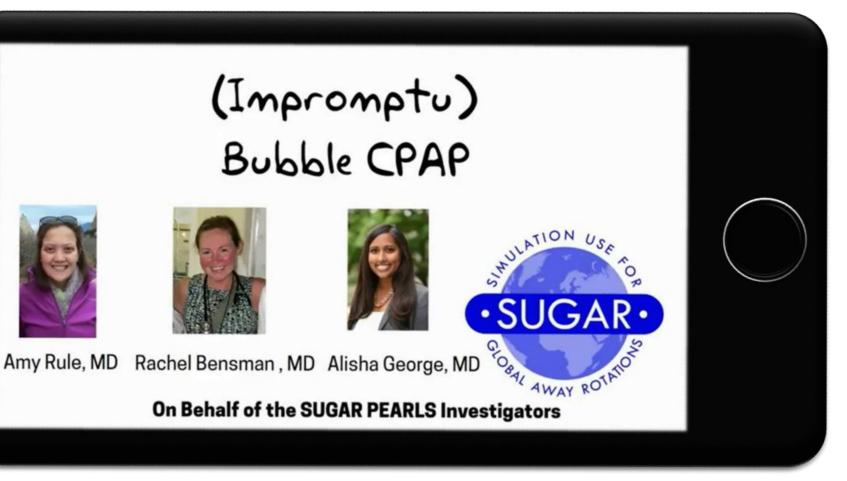
 Approximate <u>conversion</u> of mmol/L to mg/dL by multiplying by 18 (Le. 1.7 mmol/L = 32 mg/dL)

PROCEED TO CASE PRESENTATION, EXPECTED INTERVENTIONS, AND OBSTACLES

(Midwest Consortium of Global Child Health Educators) Pitt M, Butteris S, Hagen S – Rev 9/21/12







Images from sugarprep.org

Local Community Engagement Opportunities

- - refugee learners
 - with our healthcare system



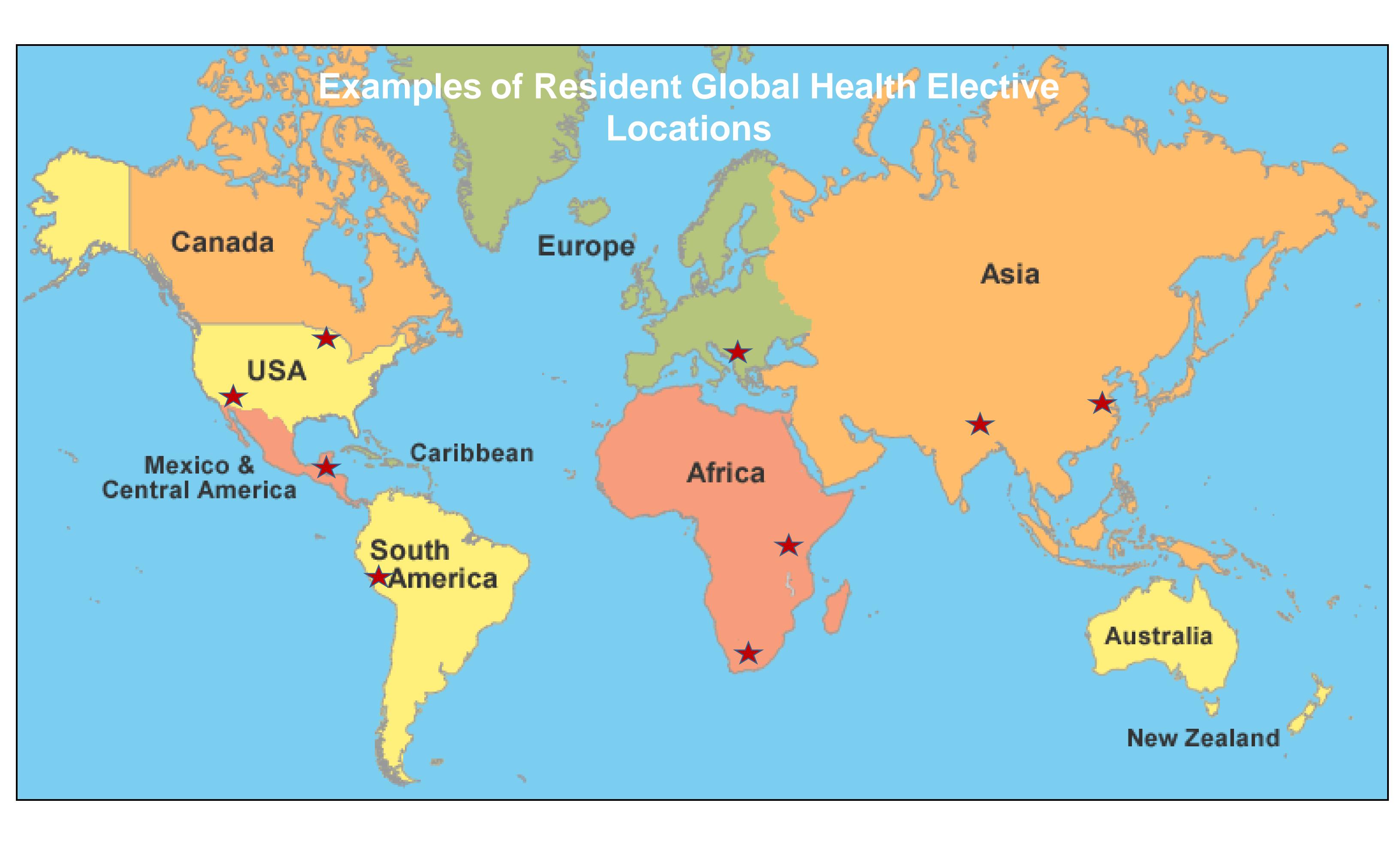
 Current focus: Partnership with the International Learning Center in Milwaukee to provide a Health Literacy Curriculum for Refugees - Monthly educational sessions on health topics presented by trainees to

- Two Mock Medical Visit experiences per year: medical trainees lead the refugee learners through a typical doctor's visit to help familiarize them









CHW Global health elective policy Pediatric and Medicine-Pediatric residents can participate in a single, one month-long

pediatric* global health elective if they:

- are in good standing with their residency program and are entering their senior year of residency (late PGY-2 or PGY-3 for pediatric residents; PGY-3 or PGY-4 for med-peds residents);
- enrolled in the global health track as interns and are on target to complete the annual global health track requirements as outlined by the training program;
- have chosen an elective that will ensure daily physician preceptorship, is in a safe environment, and is approved by CHW/MCW residency and MCWAH leadership; and
- commit to completion of a patient log and summary of their elective experience.

Residents who meet the above criteria should submit their request to participate no later than May 15th of the academic year preceding the elective to the Global Health Track Directors

- Requests should occur earlier than 5/15 if the elective will be in the summer or early fall, as MCWAH forms need to be submitted no later than 4 months prior to the start of the elective
- Deadline for submission of MCWAH forms for late fall/winter/spring electives is July 1st of the academic year lacksquare

Residents who wish to participate in a global health elective should be sure to properly share this preference with the pediatric/medicine-pediatric chief residents on the annual master schedule preference list submission • It is recommended to make this a high priority preference in your annual master schedule preference list to maximize the likelihood of receiving a global health eligible elective slot during the appropriate block.

*Note: A pediatric global health elective is one that has salary support provided by CHW for the month-long elective. For Medicine-Pediatric residents, they additionally can pursue a salary-supported Froedtert global health elective slot—availability and number of slots may vary annually per the discretion of Froedtert's leadership.



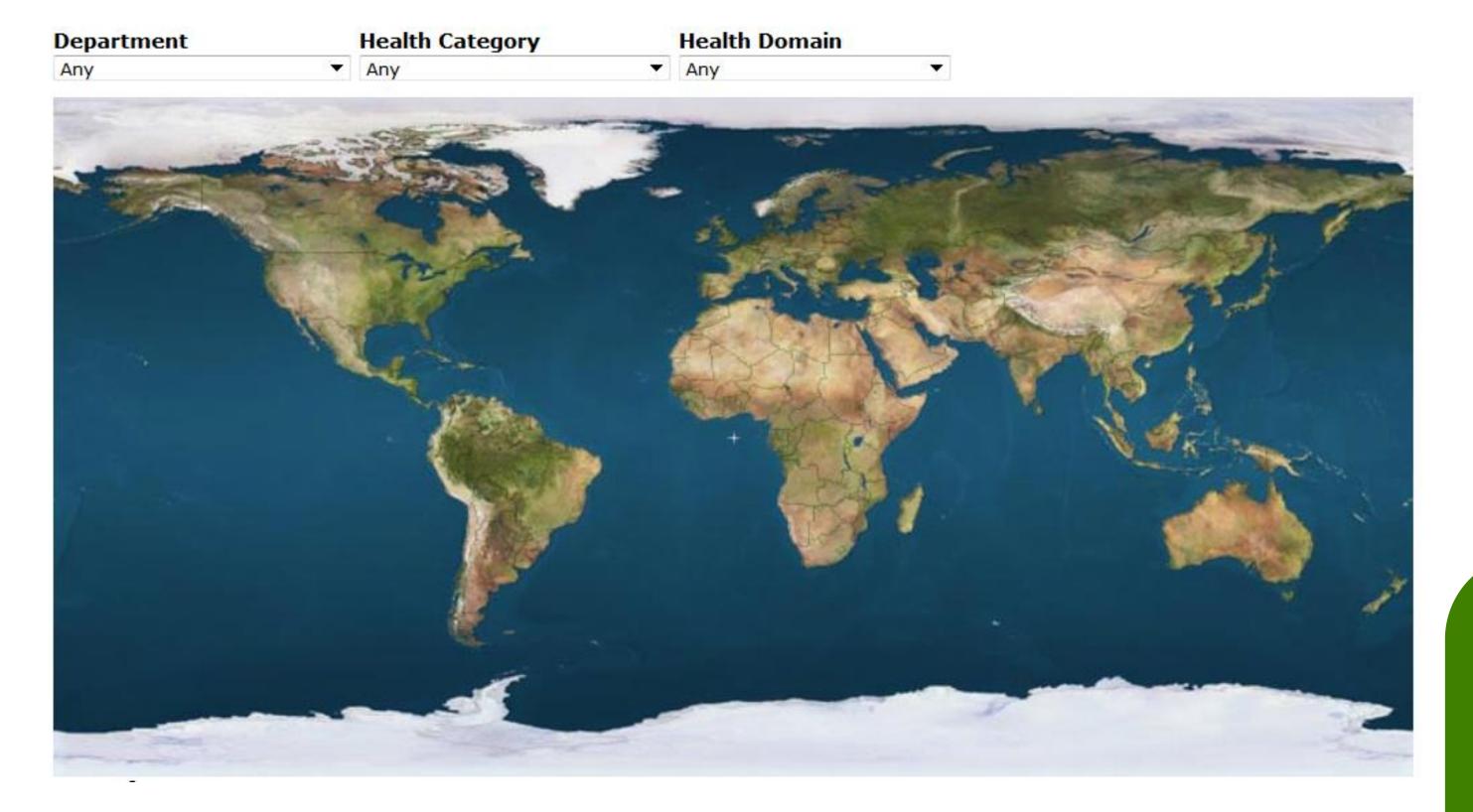
www.mcw.edu > Office of Global Health > Global Health Interactive Map

Global Health Interactive Map

Learn about our faculty efforts around the world.

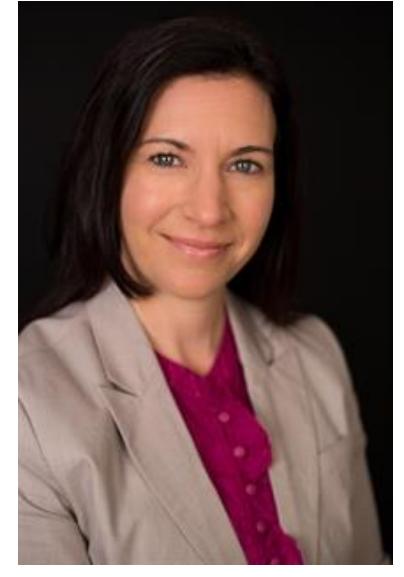
To begin, click on a continent or select a Department, Category or Health Domain.

If faculty have any updates to existing activities or additions to the map, please complete the Faculty Global Health Activity Form.





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MCW Office of Global Health http://www.mcw.edu/Office-of-Global-Health.htm





Clinical Care Reciprocal exchanges Simulation training **Department Programs**

Research IRB development

Education Global Health Pathway MPH course **Elective Rotations Support trainees Partner with** faculty Community Engagement Refugee/Immigrant health











Local & Global Education





