Skills and Scope: Ethical Practice of Clinical Medicine in LMIC and Resource-Constrained Settings

Consent

WELCOME LETTER AND CONSENT:

The purpose of this research is to understand health professional activities with regard to scope of training when practicing in low and/or middle-income country (LMIC) or resource-constrained settings.

You are invited to participate in this research project because you are likely to have undertaken professional activities in LMIC or resource-constrained settings outside of your country of training. Your participation in this research study is completely voluntary. You can discontinue your participation at any time without being penalized.

As part of this research you will be asked to complete an online survey that will take approximately 15 minutes. In the survey you will be asked questions about your professional activities in LMIC or resource-constrained settings, your opinions about the clinical skills required to practice in such settings, the types of procedures you have performed or have been asked to perform while working in these settings, and your responses to scenarios in which you were asked to practice beyond your scope of training.

To help protect your confidentiality, the surveys will not record information that will personally identify you, such as your name or IP address. However, if you agree to be contacted at the end of the survey, your e-mail address will be recorded in a secure database.

The results of this study will be used to further understanding about scope of training and professional activities by those trained outside of LMICs while in LMICs.

Thank you for your time.

Ashti Doobay-Persaud, MD, Northwestern University Brett Nelson, MD, MPH, DTM&H, Harvard University Jessica Evert, MD, Child Family Health International, University of California, San Francisco Laurel Gabler, MD, MPH, Children's Hospital of Philadelphia Phuoc Le, MD, MPH, University of California, San Francisco Natalie Sheneman, Northwestern University

Joshua Goldstein, MD, Northwestern University If you have any questions about the research study, please contact:

Ashti Doobay-Persaud, MD 645 N Michigan Ave Ste 1058 Chicago, IL 60611 a-doobay-persaud@northwestern.edu 312-503-8816

ELECTRONIC CONSENT: Please select your choice below.

Clicking on the "agree" button below indicates that:

- You have read the above information
- You voluntarily agree to participate
- You are at least 18 years of age

If you do not wish to participate in the research study, please decline participation by clicking on the

"disagree" button.	 -	-	-	_	
AGREE: I agree to participate in this study					
DISAGREE: I do not want to participate in this study					

Definitions

For the purposes of this survey, please use the following definitions:

- Resource-Constrained Setting: Settings that are subject to limitations on equipment, personnel, local infrastructure, and other resources that affect health, health care, and health care delivery.
- Low and/or Middle-Income Country (LMIC): For the current 2017 fiscal year, low-income economies are defined as those with a gross national income (GNI) per capita, calculated using the World Bank Atlas method, of \$1,025 or less in 2015; lower middle-income economies are those with a gross national income per capita between \$1,026 and \$4,035.*
- High-Income Country (HIC): For the current 2017 fiscal year, high-income economies are those
 with a GNI per capita, calculated using the World Bank Atlas method, of \$12,476 or more.*

*World Bank. (2017). World Bank Country and Lending Groups. Retrieved from https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups

Have you performed health professional activities or other professional activities in a LMIC or resource-constrained setting within the last 5 years?	
○ Yes	
○ No	

Degree/Title

Please indicate your degree(s).
☐ Doctor of Medicine
☐ Doctor of Osteopathic Medicine
 Advanced Practice Provider (Physician Assistants and Nurse Practitioners)
Registered Nurse
☐ Not applicable/still in training
Other

Which of these best describes your current professional status. Please select one option.
Resident
○ Fellow
Licensed practitioner (completed training)

2017		Qualtrics Survey Software
	Medical student	
	Other health professional student	
	Other	
In w	hat country did you complete	your health professional training? ▼
In w	hat country are vou completin	g your health professional training?
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	t is your specialty? Select all and the second second in the second second in the second seco	that apply by holding down the CTRL button (on a PC) or the making your selection.
Alle	ergy/Immunology	
	esthesiology	
	matology	
	gnostic Radiology	
	ergency Medicine	
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	ernal Medicine	
	gery-General dical Genetics	
	urology	
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Global Health Background

In the last 5 years, which of the following professional activities best describes your role when working in LMIC or resource-constrained settings? Select all that apply. Clinical patient care Clinical teaching of local trainees Clinical teaching of trainees from HIC locations. Research (all types) Non-clinical capacity building Economic development Public health practice Complex humanitarian emergency response Quality improvement project(s) Clinical learning/training (for your personal professional development) Other

Definitions 2

For the remainder of the survey, "professional activities" refers to the activities you selected and applies to your experience in a LMIC or resource-constrained setting, unless otherwise indicated.

Emergency Interventions

Based on your experience practicing professionally in a LMIC or resource-constrained setting, how often do HIC professionals perform clinically beyond their scope of training when in these settings?

Never

Infrequently

Sometimes

Frequently

Always

While practicing professionally in a LMIC or resource-constrained setting *during the last 5 years*, were you ever ASKED to perform clinical activities beyond your scope of training?

Yes

No

How many times *in the last 5 years* have you been ASKED to perform clinical activities beyond your scope of training?

Once

Twice

Three times

4-10 times

More than 10 times

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ou ever PERFORM o	fessionally in a LMIC or resource-constrained setting <i>during the last 5 years</i> , did clinical activities beyond your scope of training?
Yes	
O No	
low many times <i>duri</i> raining?	ing the last 5 years have you PERFORMED clinical activities beyond your scope o
Once	
Twice	
Three times	
4-10 times	
More than 10 times	
Too many to count	
lease describe brief linical activity beyor	fly the most <i>challenging situation</i> in which you were asked to, or did perform, a nd your scope of training.
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Qualitative Response

Thinking back to the *most challenging* situation in which you performed clinical activities beyond your scope of training, how did you feel at the time about the experience?

I did not seek adequate assistance when I needed it.

Other

were you adequately prepared	ices practicing professionally in a LMIC or resource-constrained setting, I on how to respond when asked to perform or when put in a position of beyond your scope of training?
○ No	
Yes, somewhat	
Yes, very	
obal Health Skills	
Do you believe it is appropriat when in LMIC or resource-con	te for HIC-trained clinicians to practice beyond their scope of training astrained settings?
○ Yes	
O No	
It depends	
Please select all procedures the are beyond your scope of train	hat you have performed in a LMIC or resource-constrained setting that ning?
Basic ultrasound	Wound care and suturing of lacerations
Central venous line	Vaginal delivery
Lumbar puncture	Complicated vaginal delivery
Paracentesis	
☐ Thoracentesis	Caesarian section
	Caesarian section Repair of perineal or vaginal lacerations
Placement of intraosseous and intravenous lines	
Placement of intraosseous and	Repair of perineal or vaginal lacerations
Placement of intraosseous and intravenous lines	Repair of perineal or vaginal lacerations Management of postpartum hemorrhage
Placement of intraosseous and intravenous lines Chest tube placement	Repair of perineal or vaginal lacerations Management of postpartum hemorrhage Dilation and curettage

5/2017	Qualtrics Survey Software
Remediation of bag/mask ventilation	All of the above
Fracture management	Other
Reduction and splinting of simple dislocations	
setting without referral options	C is going to be working in a highly resource-constrained or LMIC, which emergency procedural skills do you believe would be most sees regardless of their specialty?

Reduction and splinting of simple dislocations Basic ultrasound Central venous line Wound care and suturing of lacerations Vaginal delivery Lumbar puncture Paracentesis Complicated vaginal delivery Thoracentesis Caesarian section Placement of intraosseous and Repair of perineal or vaginal lacerations intravenous lines Management of postpartum hemorrhage Chest tube placement Anesthesia: general Management of Hypertensive Emergencies in Pregnancy Neonatal resuscitation Anesthesia: local Endotracheal intubation None Remediation of bag/mask All of the above ventilation Other Fracture management

Global Health Background 2

In the last 12 months, how much time have you spent in a LMIC or resource-constrained setting taking part in professional activities?

Enter a number	Select a unit of time (days/weeks/months)
	▼

Over the last 5 years, how much time on average PER YEAR have you spent in a LMIC or resourceconstrained setting taking part in professional activities?

	Enter a number	Select a unit of time (days/weeks/months)
		•

LMIC Countries Select

Select all of the LMICs or resource-constrained settings where you have taken part in professional activities *in the last 5 years*. Select all that apply by holding down the CTRL button (on a PC) or the Command button (on a Mac) while making your selection.



Global Health Background 3

How many times have you been to \${Im://Field/1} to participate in professional activities during the last 5 years?

1 time
2 times
3 times
4 times
5 times
6-10 times
More that 10 times

Global Health Experience and Setting

Describe the type of location(s) where you have taken part in professional activities in the last 5 years.

Select all that apply.

Urban (city)

Rural

District/Village

Peri-Urban

Other

Describe the organization(s) with which you were most closely affiliated when taking part in professional activities *during the last 5 years*. Select all that apply.*

	Governmental
	NGOs and non-profits
	International bilateral (e.g. CDC, USAID)
	Multi-lateral (e.g. WHO, World Bank, UNICEF)
	Health care foundations (e.g. Bill & Melinda Gates Foundation, Rockefeller)
	University
	Not sure
	Other
	ch of the following health care settings best describes where your professional activities have n place during the last 5 years. Select all that apply.
	Community health care workers, health committees and/or volunteer community members providing basic care, follow up, screening, outreach in the home or village setting.
	Health center or dispensary staffed by non-MD (or equivalent) health workers.
	Primary care clinic staffed by doctors and/or nurses, may include basic laboratory services.
	Primary level or district hospital. Includes mainly internal medicine, obstetrics and gynecology, pediatrics, and general surgery, limited laboratory services.
	Specialty hospital or national referral center with highly specialized staff and differentiated by function. Includes psychiatry and psychology, diagnostic radiology, general and orthopedic surgery, rehabilitation, intensive care unit, specialized imaging units.intensive care unit, specialized imaging units.
	Other. Please describe.
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dical Durir	Other. Please describe. School LMIC Background Ing health professional school, did you travel to a LMIC or resource-constrained setting for an cive, summer experience, or other learning/service experience? Yes
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Durirelect	Other. Please describe. School LMIC Background In the health professional school, did you travel to a LMIC or resource-constrained setting for an clive, summer experience, or other learning/service experience? Yes No Not applicable Payou returned to the LMIC or resource-constrained setting where you traveled during your ing?

Email

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Yes					
○ No					
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