

This survey aims to characterize medical student perceptions of global health. Completion of this confidential, anonymous 2-page questionnaire will serve as your consent to be in this study. For questions, please contact MS3 Ambar Mehta (amehta25@jhmi.edu).

What year of medical school are you in? MS1 MS2 MS3 MS4

What do you identify as? Male Female Other

What is your age? _____

Were you born in the United States? Yes No

Have you spent more than one year at one time living outside of the United States? Yes No

For MS3 and MS4 students: which core rotations have you completed? Check all that apply.

- Pediatrics Internal Medicine Obstetrics/Gynecology (OB/GYN) Surgery Psychiatry/Neurology

Your primary physician-mentor practices in which medical field? _____

What medical field are you currently most interested in joining at this moment? _____

Are you currently planning on pursuing an academic career? Yes No

Do you envision incorporating global health work into your medical career? Yes No

If **Yes**: What percentage of your time do you envision working in global health? _____

Which TWO medical fields HAVE HAD the greatest impact in global health over the past 25 years?

- | | | |
|---|--|--|
| <input type="radio"/> Emergency medicine | <input type="radio"/> Neurology | <input type="radio"/> Pediatrics |
| <input type="radio"/> Family medicine | <input type="radio"/> OB/GYN (maternal & fetal health) | <input type="radio"/> Psychiatry |
| <input type="radio"/> Infectious Diseases | <input type="radio"/> Oncology | <input type="radio"/> Surgical care (elective, urgent & obstetric) |
| | | <input type="radio"/> Other (specify): _____ |

Which TWO medical fields WILL HAVE the greatest impact in global health over the next 25 years?

- | | | |
|---|--|--|
| <input type="radio"/> Emergency medicine | <input type="radio"/> Neurology | <input type="radio"/> Pediatrics |
| <input type="radio"/> Family medicine | <input type="radio"/> OB/GYN (maternal & fetal health) | <input type="radio"/> Psychiatry |
| <input type="radio"/> Infectious Diseases | <input type="radio"/> Oncology | <input type="radio"/> Surgical care (elective, urgent & obstetric) |
| | | <input type="radio"/> Other (specify): _____ |

In your opinion, which TWO medical fields are least represented in the global health agenda?

- | | | |
|---|--|--|
| <input type="radio"/> Emergency medicine | <input type="radio"/> Neurology | <input type="radio"/> Pediatrics |
| <input type="radio"/> Family medicine | <input type="radio"/> OB/GYN (maternal & fetal health) | <input type="radio"/> Psychiatry |
| <input type="radio"/> Infectious Diseases | <input type="radio"/> Oncology | <input type="radio"/> Surgical care (elective, urgent & obstetric) |
| | | <input type="radio"/> Other (specify): _____ |

In your opinion, which (select ONE) of the following fields MOST contributes to a comprehensive healthcare system (i.e. strengthens the delivery of all other types of care)?

- | | | |
|---|--|--|
| <input type="radio"/> Emergency medicine | <input type="radio"/> Neurology | <input type="radio"/> Pediatrics |
| <input type="radio"/> Family medicine | <input type="radio"/> OB/GYN (maternal & fetal health) | <input type="radio"/> Psychiatry |
| <input type="radio"/> Infectious Diseases | <input type="radio"/> Oncology | <input type="radio"/> Surgical care (elective, urgent & obstetric) |
| | | <input type="radio"/> Other (specify): _____ |

Of the following, which results in the greatest annual mortality worldwide?

- HIV/AIDS + malaria + tuberculosis Trauma Obstetric complications

In your opinion, how often DO each of the following medical fields focus on preventive medical care?

	1 Almost never	2 Rarely	3 Sometimes	4 Often	5 Almost always
Emergency Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infectious Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OB/GYN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surgical care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your opinion, how often COULD each of following medical fields provide preventive medical care?

	1 Almost never	2 Rarely	3 Sometimes	4 Often	5 Almost always
Emergency Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infectious Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OB/GYN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surgical care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your opinion, how ECONOMICALLY COST-EFFECTIVE is it in the long run for a resource-poor country to invest in each of these medical fields?

	1 Almost never cost-effective	2 Rarely cost-effective	3 Sometimes cost-effective	4 Often cost-effective	5 Almost always cost-effective
Emergency Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infectious Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OB/GYN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surgical care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your opinion, how FEASIBLE is it to pursue a career in global health while working in the following medical fields?

	1 Almost never feasible	2 Rarely feasible	3 Sometimes feasible	4 Often feasible	5 Almost always feasible
Emergency Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Family Medicine	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Infectious Diseases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
OB/GYN	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Surgical care	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Have you ever received medical ethics training (i.e. workshop, class, etc.)? Yes No

If **Yes**: Do you currently feel adequately prepared with addressing ethical issues in a medical setting? Yes No

Have you received any formal ethical training pertaining to global health? Yes No

For physicians-in-training interested in or entering surgical careers, do you perceive any of the following as barriers in pursuing a global health career?

- Length of training (i.e. residency, fellowships)
- Lack of established career tracts for pursuing global surgery
- Difficulty with providing longitudinal patient care for patients living abroad
- Lack of surgical role models in global health
- Constrained time to travel abroad during career
- Ethical issues with providing surgical care in resource-limited communities
- Available medical resources and infrastructure in resource-limited communities
- Other (please specify):

Supplemental Digital Appendix 2

Barriers for Johns Hopkins Medical Students Interested in Surgical Careers to Pursuing a Career in Global Health, From a Study of Medical Students' Perceptions of Global Surgery

Barrier	Preclinical: n = 125	Clinical: n = 131	Total: N = 256
Constrained time to travel abroad during one's career	75%	78%	77%
Length of training	70%	62%	66%
Available medical resources and infrastructure in resource-limited communities	71%	61%	66%
Difficulty with providing longitudinal patient care for patients living abroad	66%	59%	62%
Lack of established career tracks for pursuing global surgery	61%	53%	57%
Ethical issues with providing surgical care in resource-limited communities	42%	33%	37%
Lack of surgical role models in global health	34%	37%	36%
Other: family responsibilities, surgical culture, limited funding	8%	5%	6%