



Session VI

Panel:
Role of students &
schools

THE LANCET Commission on Global Surgery

Paul Farmer, Julio Frenk, Robert Taylor, Mack Cheney, Lars Hagander, Sarnai Erdene

Panel Focus:

How can universities, schools of medicine, and schools of public health engage and educate students across all disciplines on the challenges of global surgery?

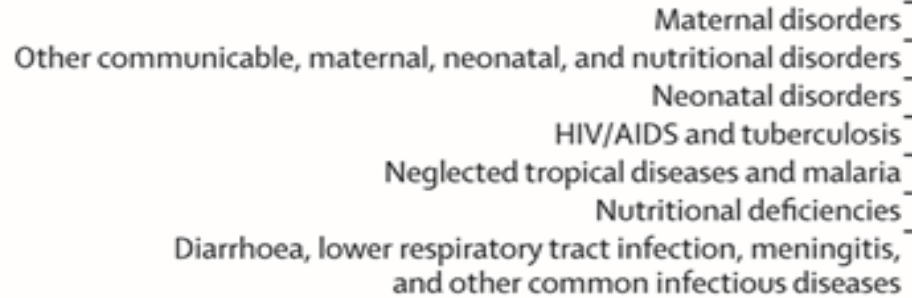
Halfdan Mahler, Director-General of the WHO, 1980

“Surgery clearly has an important role to play in primary health care and in the services supporting it. . .Without it, in spite of preventive measures aimed for example at preventing accidents, people will not have faith in primary health care. . .This may seem kindergarten information coming from the Director-General of WHO.”

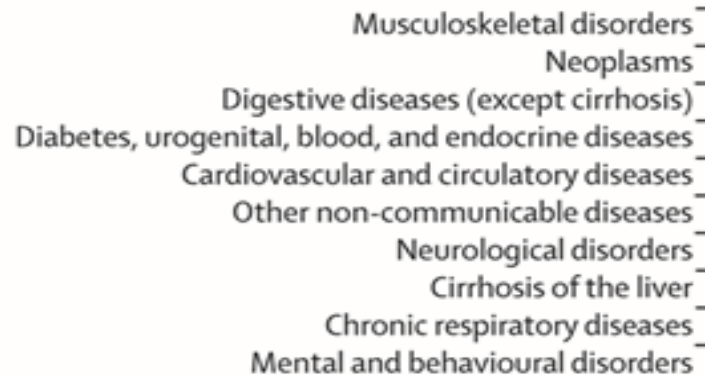
Surgery is required across **All Disease Categories**

GBD disease categories

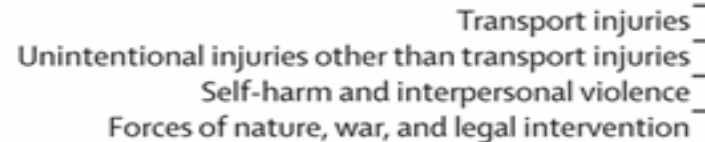
1. Communicable, maternal, neonatal, and nutritional disorders



2. Non-communicable diseases



3. Injuries



Frequency of procedure (%)

Figure 1: Frequency of operations done per GBD 2010 disease category for patients admitted to hospitals in a well resourced health system
Data from Rose and colleagues.⁹ GBD=Global Burden of Disease.

Role of Surgical Care in the Health of Populations

All
Life
Stages

Lifecourse Approach	Disease Burden Approach	Level of Care Approach
<ul style="list-style-type: none"> • Perinatal & infancy <ul style="list-style-type: none"> • e.g. birth asphyxia, gastrochisis • Childhood <ul style="list-style-type: none"> • e.g. hernia, burns, abscesses • Adolescence <ul style="list-style-type: none"> • e.g. trauma • Pregnancy & childbirth <ul style="list-style-type: none"> • e.g. obstructed labour, hemorrhage, eclampsia • Women's health <ul style="list-style-type: none"> • e.g. reproductive tract neoplasms, genital prolapse, safe abortions • Men's health <ul style="list-style-type: none"> • e.g. prostatic hypertrophy, hypospadias • Older people's health <ul style="list-style-type: none"> • e.g. cataract surgery 	<ul style="list-style-type: none"> • Trauma/injury/violence <ul style="list-style-type: none"> • e.g. fractures, burns • Obstetric complications <ul style="list-style-type: none"> • e.g. PPH, obstetric fistula • Congenital disease <ul style="list-style-type: none"> • e.g. cleft lip and palate, club foot, ARM • Neoplastic disease <ul style="list-style-type: none"> • e.g. breast, gastric, colorectal ca • Infection & sepsis <ul style="list-style-type: none"> • e.g. gangrene, abscess, AMC • General surgical conditions <ul style="list-style-type: none"> • e.g. appendicitis, renal calculi, hernia, cholecystitis • Infectious disease sequelae <ul style="list-style-type: none"> • e.g. bladder ca (schistosomiasis), rheumatic valvular disease • Reproductive health <ul style="list-style-type: none"> • e.g. AMC, malignancy • Vision & hearing <ul style="list-style-type: none"> • e.g. cataracts 	<ul style="list-style-type: none"> • Prevention <ul style="list-style-type: none"> • e.g. AMC for HIV, orchidopexy for undescended testes • Screening <ul style="list-style-type: none"> • e.g. Post-natal screening for congenital anomalies (hip dysplasia, clubfoot) • Diagnosis <ul style="list-style-type: none"> • e.g. Tumor biopsy, diagnostic laparoscopy • Treatment (1°) <ul style="list-style-type: none"> • e.g. incarcerated hernia • Treatment (2°) <ul style="list-style-type: none"> • e.g. contracture release (leprosy, burns) • Palliative <ul style="list-style-type: none"> • e.g. stent for obstructed viscous

All
Levels
of
Care

There are significant needs surrounding
Global Surgery Education
among institutions at
All Income Levels

The needs of students in **LMICs**

“Being a medical student and young physician from a LMIC... has not made our way easy in Global Surgery”

-Online comment 04/2014, addressed to
The Lancet Commission on Global Surgery

Limited Access to Information

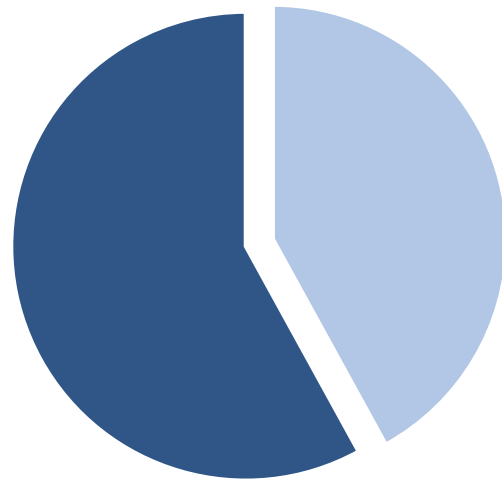
- “Limited free access to information related to surgical development”
- “We barely have occasional resources such as scientific articles, books, etc.”

Absence of Mentorship

- “For almost two years one of us has been trying to find [a mentor]”

The needs of students in **HICs**

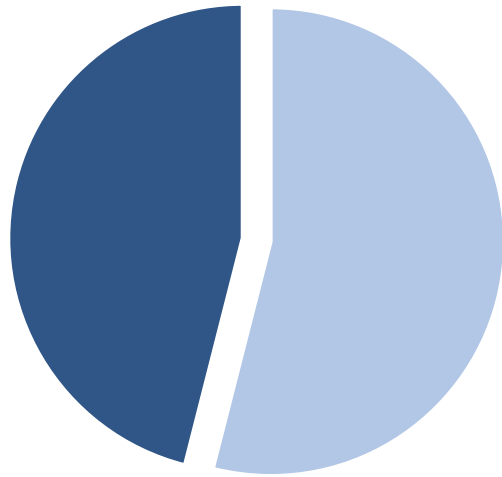
Survey of medical students at one high-income country medical school. Of 102 respondents:



42% reported involvement in global health research, volunteering or student initiatives

The needs of students in HICs

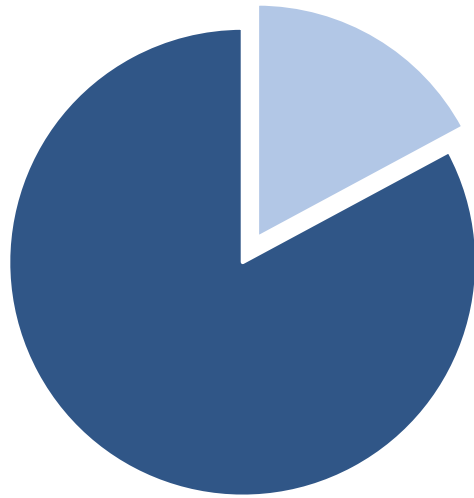
Survey of medical students at one high-income country medical school. Of 102 respondents:



68% desired an expansion of global health within the curriculum

The needs of students in HICs

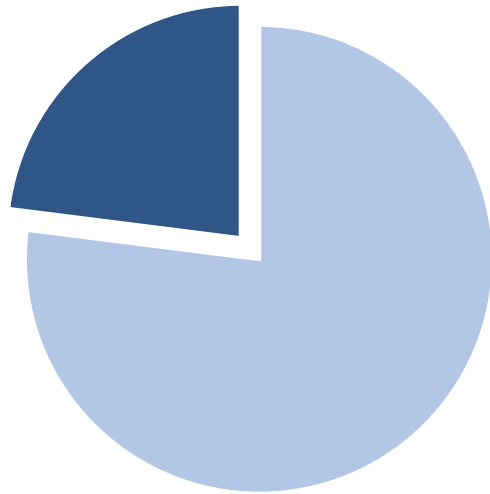
Survey of medical students at one high-income country medical school. Of 102 respondents:



But only 12% felt like legitimate members of the global health community

The needs of students in HICs

Following a global surgery conference at the same institution:



77% expressed increased interest in participating in global health activities

How do we go *Forward*?

Meeting the needs of students



Program in Global Surgery and Social Change Experience



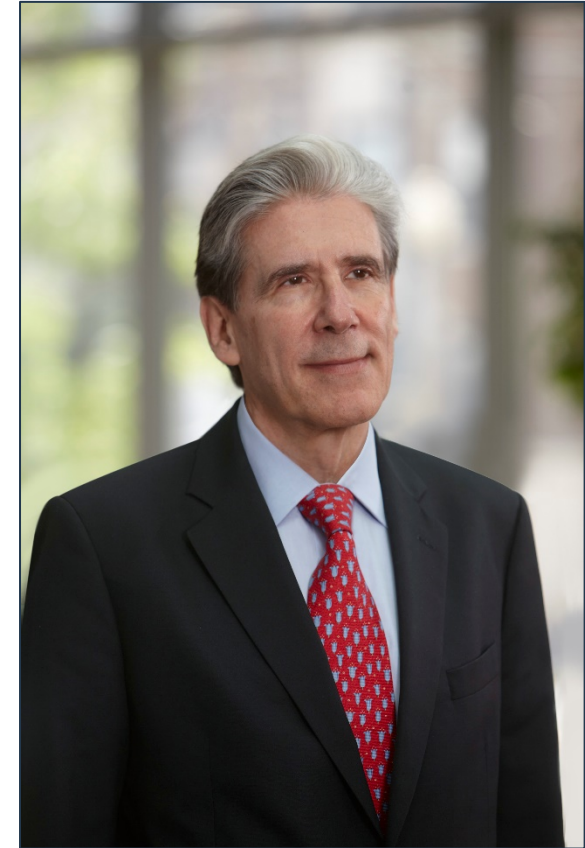
Moderator- Paul Farmer

- Founding Director of Partners In Health
- Kolokotronis University Professor at Harvard University
- Chief of the Division of Global Health Equity at the Brigham and Women's Hospital
- Holds an MD and PhD in Anthropology from Harvard University
- Prolific author of such titles as Pathologies of Power, Haiti After the Earthquake, and To Repair The World
- Received a MacArthur Fellowship in 1993
- Constant advocate for global health equity and excellence in health care for the poor
- Longstanding global surgery supporter and honorary surgeon



Panelist - Julio Frenk

- Dean of the Faculty, Harvard T.H. Chan School of Public Health, T & G Angelopoulos Professor of Public Health and International Development
- Minister of Health of Mexico from 2000 to 2006, implementing a national health insurance scheme known as Seguro Popular
- Founding Director-General of the National Institute of Public Health of Mexico
- Held leadership positions at the Mexican Health Foundation, WHO, the Bill and Melinda Gates Foundation, the Carso Health Institute, and the Institute for Health Metrics and Evaluation at the University of Washington
- Holds a medical degree from the National University of Mexico, a Masters of Public Health and a joint doctorate in Medical Care Organization and in Sociology from the University of Michigan.



 @julio_frenk @HarvardChanSPH

Panelist - Robert Taylor

- Clinical Professor, Department of Surgery, University of British Columbia, Vancouver, Canada
- Director of its Branch for International Surgical Care
- Senior Instructor for the Canadian Network for International Surgery
- International Delegate of the Canadian Red Cross
- Member of WHO –GIEESC
- 40+ year history of engagement in both war surgery and health systems strengthening through surgical workforce and infrastructure development around the world



 @UBC @SurgicalCare

Panelist - Mack Cheney

- Facial Plastic and Reconstructive Surgeon
- Professor of Otolaryngology-Head and Neck Surgery at the Massachusetts Eye and Ear Infirmary (MEEI)
- Director of the MEEI Office of Global Surgery and Health
- First incumbent Kletjian Chair of Global Surgery at MEEI
- Has worked in both the direct delivery of surgical services in rural South America as well as the development of academic surgical programs in LMICs



@MackCheney @OGSHMassEyeEar

Sarnai Erdene

- Originally from Arkhangai, Mongolia
- Medical student at the Mongolian National University of Medical Sciences
- Research interests include health systems strengthening, surgical education, and barriers to surgical care in Mongolia




 #MNUMS #SarnaiErdene

Panelist - Lars Hagander

- Consultant Surgeon in Pediatric surgery and Urology
- Holds a PhD in International Child Health and a Master's of Public Health from the Harvard TH Chan School of Public Health
- Director of Global Pediatrics at the Faculty of Medicine at Lund University, Sweden
- Former Paul Farmer Global Surgery research fellow at Harvard Medical School
- Member of the WHO-GIEESC
- Co-chair of The Lancet Commission on Global Surgery



 @LarsHagander @LundUniversity

