15x15: A Global Surgery Initiative

Surgery in low-resource settings symposium
Netherlands Society for International Surgery/ Deutsche Gesellschaft
für Tropenchirurgie



Amsterdam, November 14th, 2014

Michael H. Cotton MA, FRCS, FACS, FCS(ECSA), FMH

MPH
Executive Director

Jaymie Ang Henry, MD,

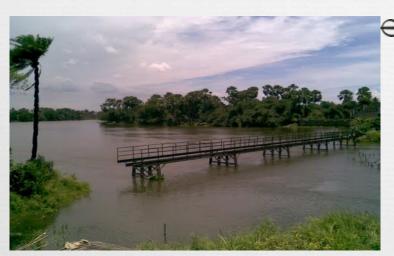


Need for surgery



- 11% of global burden of disease = surgical
- 80% of deaths from these surgical conditions occur in Low-Medium Income Countries.
- Including...500,000 maternal deaths/year.
- Mortality from injury in rural East Africa: 1/1000
- 10-20% of deaths in young adults
 could be prevented by very simple measures
- Estimated 2,000,000,000 have no access to surgical care

Access to Surgery

















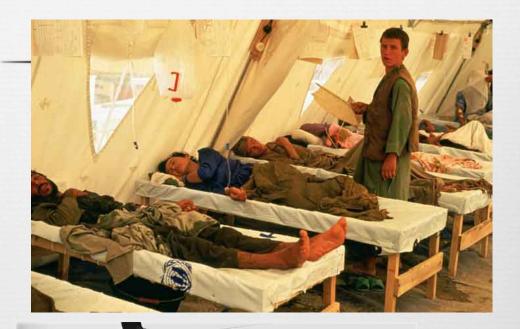
Basic resources



Anne Yzebe/MSF



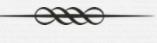
Massimo Mastrorillo/MSF



Bour

Low technology centres













www.adamkushnermd.com/sierra leone

High volume practice



Olivier Jopard/Sipa Press



Rio Kameyama/MSF



Anne Yzebe/MSF



Paco Arevalo/MSF

Global Surgery?





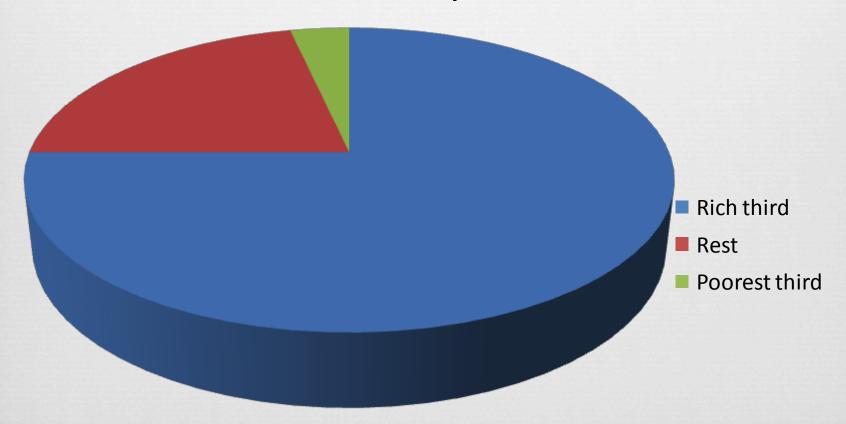
Definition?



Basic data of surgery done



% World Population



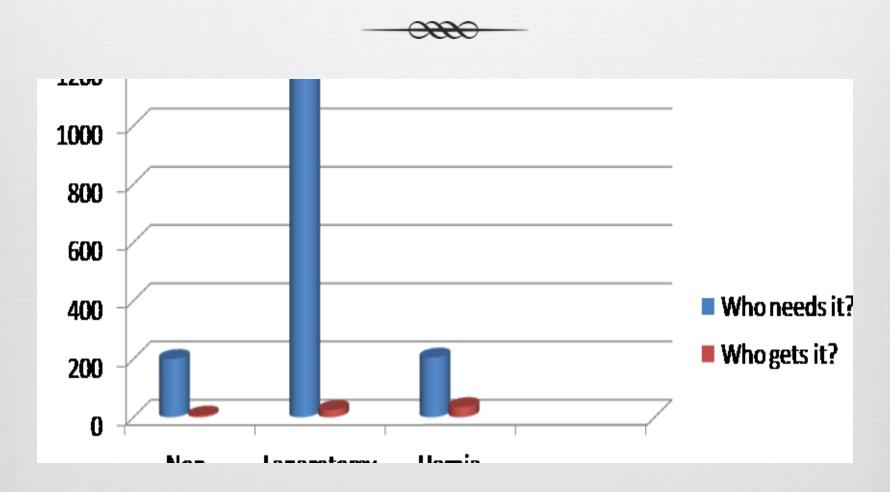
Obstetric care



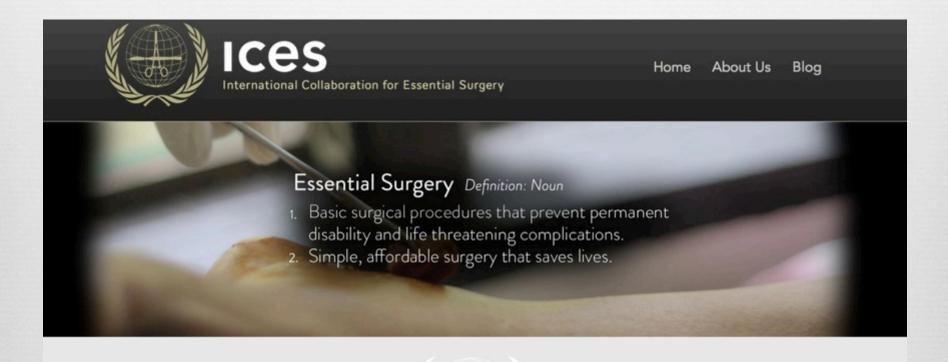
- 1:26 women die in childbirth in sub-Saharan Africa.
- <1:200 get a Caesar when needed in some15 countries of the world.
- 3,000,000 obstetric fistulas untreated in Africa.
- 10,000 new obstetric fistulas/yr in Ethiopia.

Estimated Need for surgery

(per 100,000 people)



INTERNATIONAL COLLABORATION for ESSENTIAL SURGERY



Our mission is to promote the effective provision of essential low-cost surgical care to save lives & prevent serious disability in low-resource settings.

Essentials of essential Surgery



1. Caesarean Section, Symphisiotomy & ERPC

2. Incision & Drainage of Abscesses

3. Debridement of Wounds & Fasciotomy

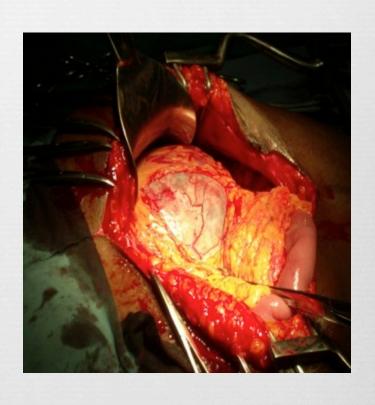
4. Skin grafting & burns management



5. Hernia repair

Essentials of Essential Surgery

- 8. Intercostal Drainage
- 9. Emergency Exploratory Laporotomy
- 10. Amputations
- 11. Cranial Burr Holes
- 12. Dental Extraction
- 13. External Fixation of Fractures
- 14. Suprapubic Catheterization
- 15. Cataract Extraction



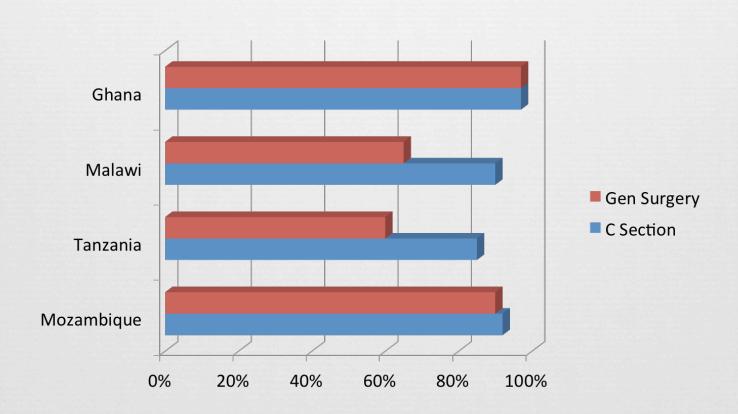
Common Operating Facilities





Surgery done by nonspecialists





Countries with Non-Physician Clinicians



Physician Assistant; Assistant Doctor; Health Extension Worker; Assistant Medical Officer; Medical Assistant; Surgical Technologist; Medical Licentiate; Clinical Associate; Rural Surgeon; Feldscher



Task Sharing

Locally Based Teaching



COSECSA

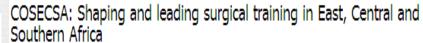
College of Surgeons of East Central and Southern Africa















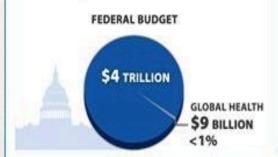


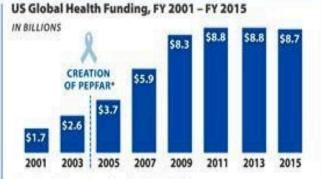
Hamilton Naki Mamitu Gashe



A SNAPSHOT OF US GLOBAL HEALTH FUNDING

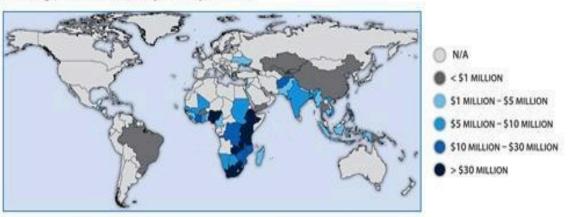
Global Health Funding as a Share of the US Federal Budget, FY 2015

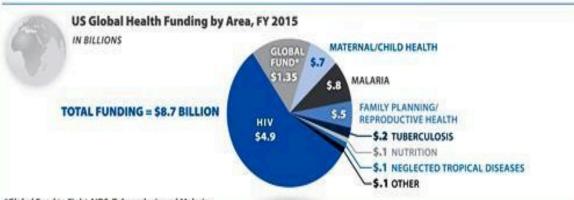




*President's Emergency Plan for AIDS Relief

US Funding for Global Health by Country, FY 2013





*Global Fund to Fight AIDS, Tuberculosis and Malaria



Contents lists available at SciVerse ScienceDirect

Health Policy





World Health Assembly Agendas and trends of international health issues for the last 43 years: Analysis of World Health Assembly Agendas between 1970 and 2012

Tomomi Kitamura^a, Hiromi Obara^a, Yoshihiro Takashima^b, Kenzo Takahashi^c, Kimiko Inaoka^a, Mari Nagai^a, Hiroyoshi Endo^d, Masamine Jimba^e, Yasuo Sugiura^{a,*}

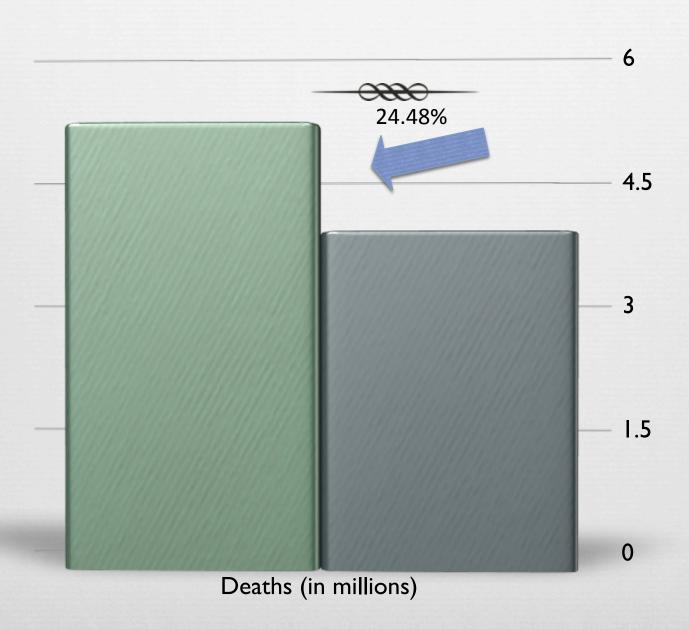
^a National Center for Global Health and Medicine, 1-21-1 Toyama, Shinjuku-ku, Tokyo 162-8655, Japan

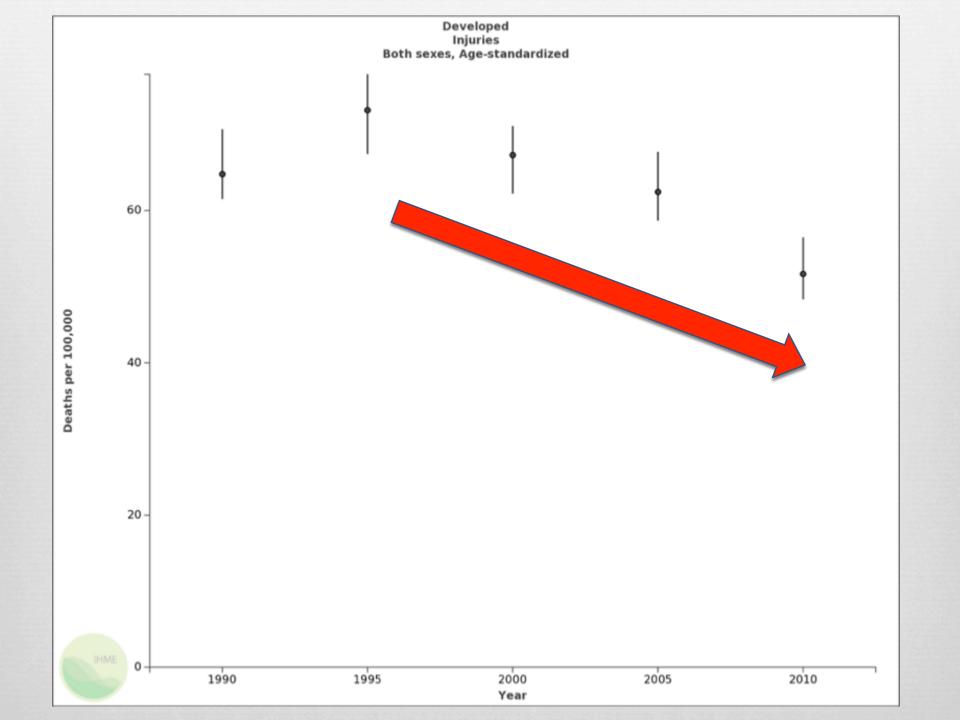
^b World Health Organization, Western Pacific Regional Office, 1000 Manila, Philippines

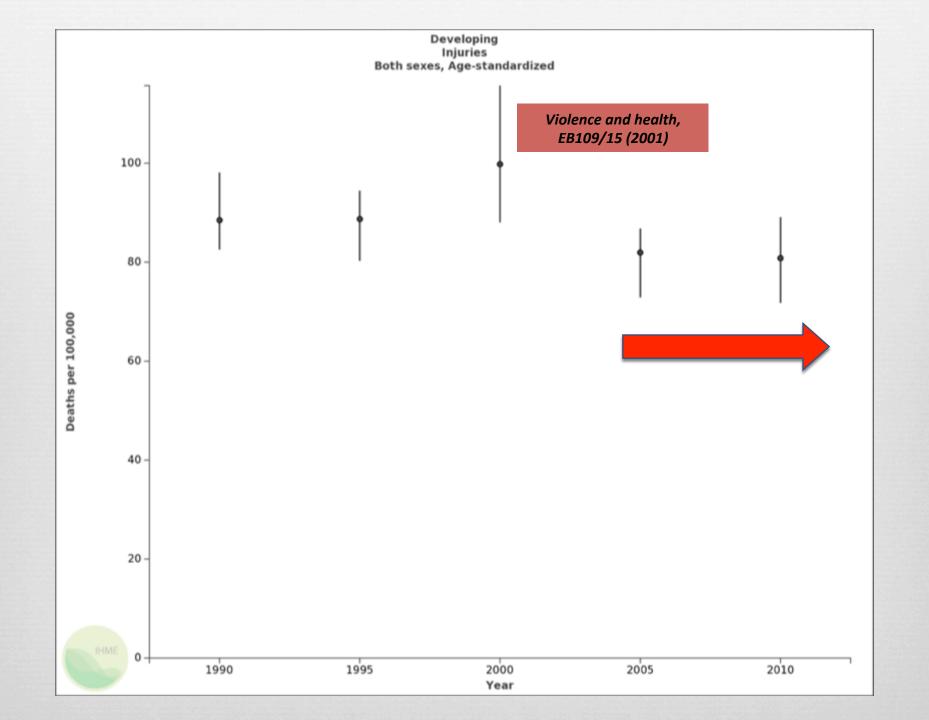
^c Department of Epidemiology and Public Health, Yokohama City University Graduate School of Medicine, 3-9 Fukuura, Kanagawa-ku, Yokohama, Kanagawa 236-0004, Japan

d Department of International Affairs and Tropical Medicine, Tokyo Women's Medical University, 8-1 Kawada-cho, Shinjuku-ku, Tokyo 162-8666, Japan

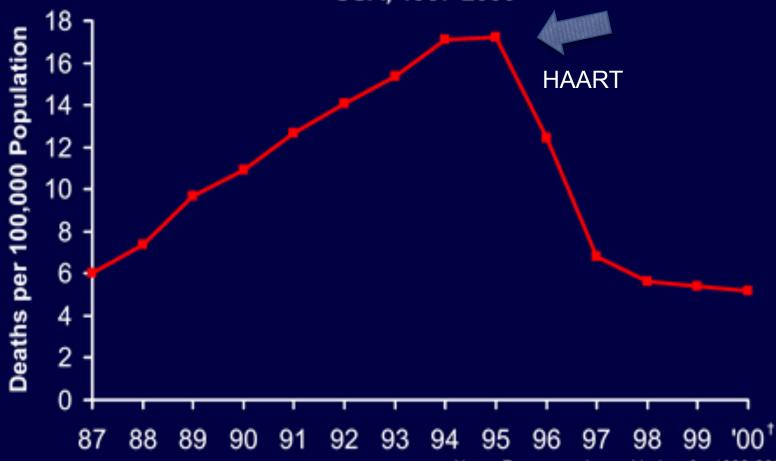
e Department of Community and Global Health, Graduate School of Medicine, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan







Trends in Age-Adjusted* Rate of Death due to HIV Infection, USA, 1987-2000



*Using the year 2000 US standard population. †Preliminary mortality data for 2000 Year

Note: For comparison with data for 1999-2000, data for 1987-1998 were modified to account for ICD-10 rules instead of ICD-9 rules.

Elements of Success



Predictable, adequate funding from international and local sources



- Political leadership and champions
- Technological innovation within an effective delivery system, at a sustainable price
- Technical consensus about the appropriate biomedical or public health approach
- Good management on the ground
- Effective use of information (ie, metrics)



The Value of Campaigns



Helping to reduce premature cardiovascular disease deaths by 25% by 2025









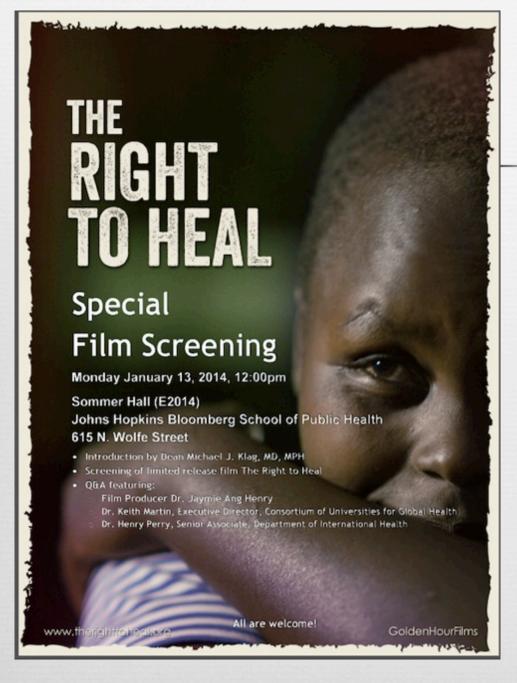
15/X15 THE YEAR OF SURGERY

3 focus areas:



- Advocacy
- □ Data
- R Policy

Partnerships and Engagement



- ~100 screenings
- 60 countries
- CR Lancet film review
- R Hosted at Lancet
- Advocacy tool
- ca 30/10/3

Screenings















JOHNS HOPKINS

BLOOMBERG SCHOOL of PUBLIC HEALTH



UK parliament



International Women's Day





Saturday, March 8th. Everywhere.

We believe in a simple truth: All women deserve the 'right to heal'. We're asking supporters to take action throughout the month of March to make sure that women everywhere can safely give birth. This means making sure that every woman has access to essential surgeries like caesarean section.

Help us ensure women have the Right To Heal. This March, change starts with you.

Join us

Data/ publications

Cost-effectiveness of Surgery in Low- and Middle-income Countries: A Systematic Review

Caris E. Grimes, Jaymie Ang Henry, Jane Maraka, Nyengo C. Mkandawire & Michael Cotton

World Journal of Surgery

Official Journal of the International Society of Surgery/Société Internationale de Chirurgie

ISSN 0364-2313

World J Surg DOI 10.1007/s00268-013-2243-y



Health Policy and Planning Advance Access published September 26, 2014

This is an Open Access article distributed under the terms of the Creative Commons Attribution Non-Commercial License (http://creativecommons.org/licenses/by-nc/4.0/), which permits non-commercial re-use, distribution, and reproduction in any medium, provided the original work is properly cited. For commercial re-use, please contact journals.permissions@oup.com Published by Oxford University Press in association with The London School of Hygiene

Health Policy and Planning 2014;1–10 and Tropical Medicine © The Author 2014.

Surgical and anaesthetic capacity of hospitals in Malawi: key insights

Jaymie Ang Henry, 1,2* Erica Frenkel, Eric Borgstein, 1,4 Nyengo Mkandawire 1,4,5 and Cyril Goddia 6

¹International Collaboration for Essential Surgery (ICES), New York, NY, USA, ²University of California, Berkeley School of Public Health, Berkeley, CA, USA, ³Gradian Health Systems, New York, NY, USA, ⁴Department of Surgery, University of Malawi College of Medicine, Blantyre, Malawi, ⁵Faculty of Medicine, Flinders University, Adelaide, Australia and ⁶School of Anaesthesia, Queen Elizabeth Central Hospital, Blantyre, Malawi

*Corresponding author. International Collaboration for Essential Surgery (ICES), 101 Avenue of the Americas NY NY 10013, USA. E-mail: jaymie.henry@gmail.com



Cotton et al. Globalization and Health 2014, 10:1 http://www.globalizationandhealth.com/content/10/1/1



COMMENTARY Open Access

Value innovation: an important aspect of global surgical care

Michael Cotton^{1,2*}, Jaymie Ang Henry^{1,3} and Lauren Hasek⁴

Policy



Advocacy thus far



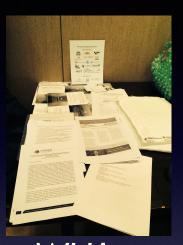
ICS, FIGO WFSA, ICM GIEESC

Trinidad



UN side event UNFPA Tanzania

New York



WHA reception

Geneva

October

February

May

2013

2014







Public statement at UN post-2015 Open Working Group, New York

Public statement at UN post-2015 DPI NGO New York Clinton Global Initiative New York

June

August

September

2014



Permanent Mission of the United Republic of Tanzania to the United Nations

CHECK AGAINST DELIVERY

PRESENTATION BY

MS. ELLEN MADUHU, REPRESENTATIVE OF THE UNITED REPUBLIC OF TANZANIA, DURING THE UNITED NATIONS SIDE EVENT ON THE IMPORTANCE OF ESSENTIAL SURGICAL CARE IN EMPOWERING WOMEN AND CHILDREN

THURSDAY, FEBRUARY 6 | 2014

Metrics



"You can't manage what you can't measure" -W. Edwards Deming

THE LANCET

The Lancet, <u>Volume 384. Issue 9956</u>, Page 1748, 15 November 2014 doi:10.1016/50140-6736(14)62012-2

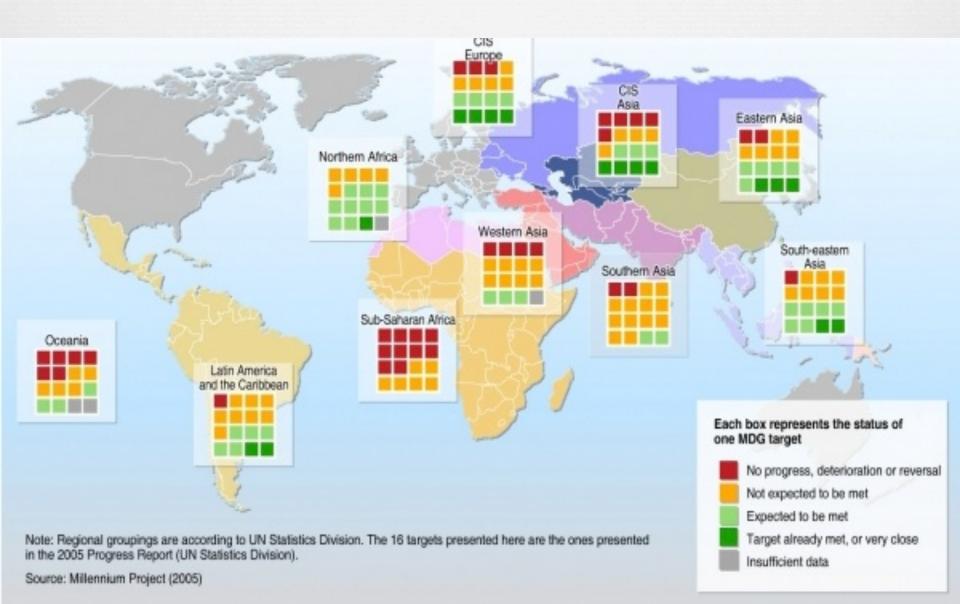
Published Online: 05 November 2014

Copyright © 2014 Elsevier Ltd All rights reserved.

Letter to global health agency leaders on the importance of surgical indicators

Emmanuel Malabo Makasa 2 , on behalf of 100 signatories and supporting organisations listed in the appendix

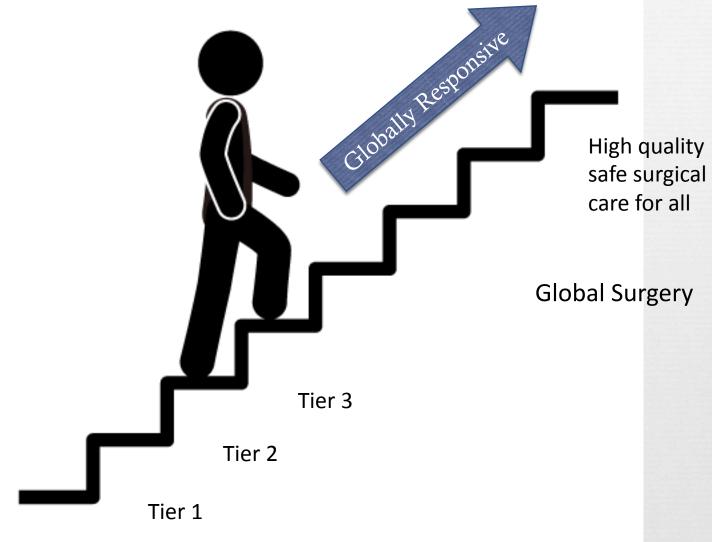
Keeping score



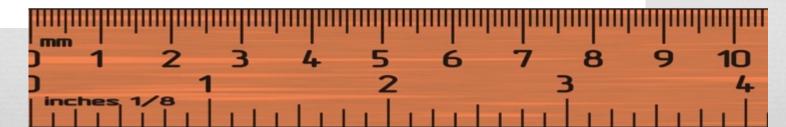
What's next?



- G4 Alliance
- Call your MOH to support the WHO resolution on Surgery
- Keep posted on the ICES/R2H/15x15 website
- Become an ICES member



Essential Surgery





Thank you



www.therighttoheal.org

www.essentialsurgery.com

15 SURGICAL TREATMENTS

	TREATMENT	INTERVENTIONS	PREVENTS	TRAINING REO'D
	Fractures & Dislocations	Reduction of frectures and dislocations (including enternal finations)		6-9 Months of training
	Reduction is a medical procedure to each, - a hadron or discipation to the cornect alignment. Open reduction refers to the method wherein the function fragments are exclused, the reduction in malatimed by application of casts, factors or held by implicates which may in the the external or internal. Out floor Present method includes gonthe manipulation and casting of the first at weeks; or life, most clubbent can be accessfully considered without the read for major variant times exagen;			
	Anesthesia: Local, Regional, Estamine	Equipment: 🍑 L/TC*	Facility: 11 HEALTH	
Ce	Cataract Extraction	Reduction of fractures and dislocations, including external finations)	Disability Selomity	6-9 Months of baining
Cs	Cesarean Section	Reduction of fractures and dislocations (including external finations)		
	Severe Uterine Bleeding	Reduction of fractures and dislocations (including external finations)	Disability Neferrity	6-9 Months of training
Cr	Cleft Lip Repair	Reduction of fractures and dislocations (including external feations)	Disability Deformity	
100	Hernia Repair	Reduction of fractures and dislocations (including enternal finations)	Disability Deformity	
	Surgical Infections	Reduction of fractures and dislocations (including external finations)	Disability Selomity	
Sw	Severe Wounds	Reduction of fractures and dislocations (including external floations)	Disability Selomity	6.9 Months of training
Sh	Severe Head Injury	Reduction of fractures and dislocations (including enternal floations)		
Ao	Airway Obstruction	Reduction of fractures and dislocations (including external fluctions)	Disability Deformity	6-9 Months of training
Uo	Urinary Obstruction	Reduction of fractures and dislocations (including enternal fractions)		
Ci	Chest Injury	Reduction of fractures and dislocations (including external finations)	Disability Deformity	6-9 Months of training
Sa	Septic Arthritis	Reduction of fractures and dislocations (including enterrul finations)		
SI	Severe Limb	Reduction of fractures and dislocations (including enternal finations)	Disability Delomity	6-9 Months of training
Aa	Acute Abdomen	Reduction of fractures and dislocations (including external fluations)		

EQUIPMENT TYPE

BASIC EQUIPMENT: Rescuscitators, foot sucker, oxygen concentrator; IV equipment; suction tubes;

FACILITY TYPE

★ Small Hospital/Health Center with small number of bed and sparsely equipped OR

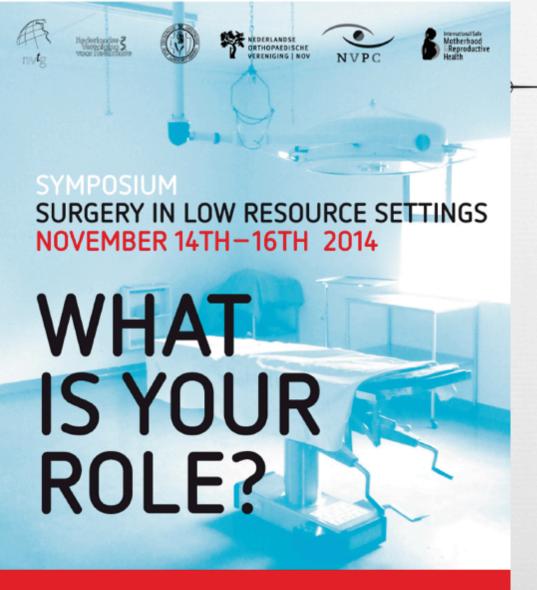


ADVANCED EQUIPMENT: Complete anontherus, resuscitation and sineary management system; judica sciences; laryagensiape maximtash blodes; anggen carcentristen; salahlyada resuscitation sets; reagilis ferraps; intulation subjet anolito happing; in vertacion subjet anolito happing in vertacion subjet anolito happing; in vertacion subjet anolito happing in vertacion subjet su















communication by design





LAB111 Amsterdam - www.surgicalneed.nl