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International Collaboration for Essential
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Essential Surgery – Surgery in low- resource settings

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Deutsche Gesellschaft für Tropenchirurgie
Symposium,
Amsterdam,
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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



Marlies van Bouwel/MSF

Low technology centres



High volume practice



Olivier Jopard/Sipa Press



Rio Kameyama/MSF



Anne Yzebe/MSF



Paco Arevalo/MSF

Global Surgery ?

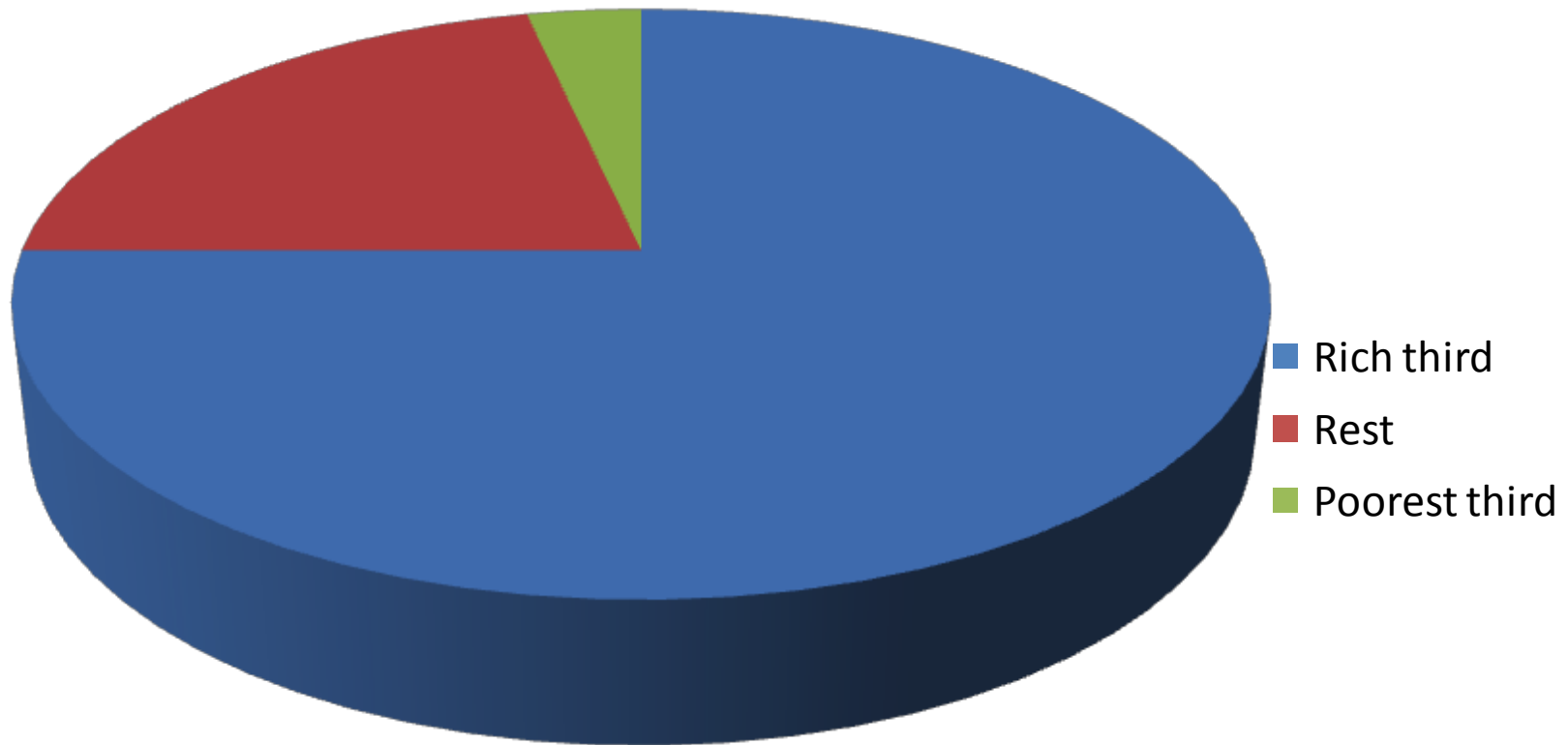


Definition?

Basic surgery
Humanitarian Surgery
Essential Surgery
General Surgery
Third World Surgery
Global Surgery
Tropical Surgery
Fundamental surgery

Basic data of surgery done

% World Population

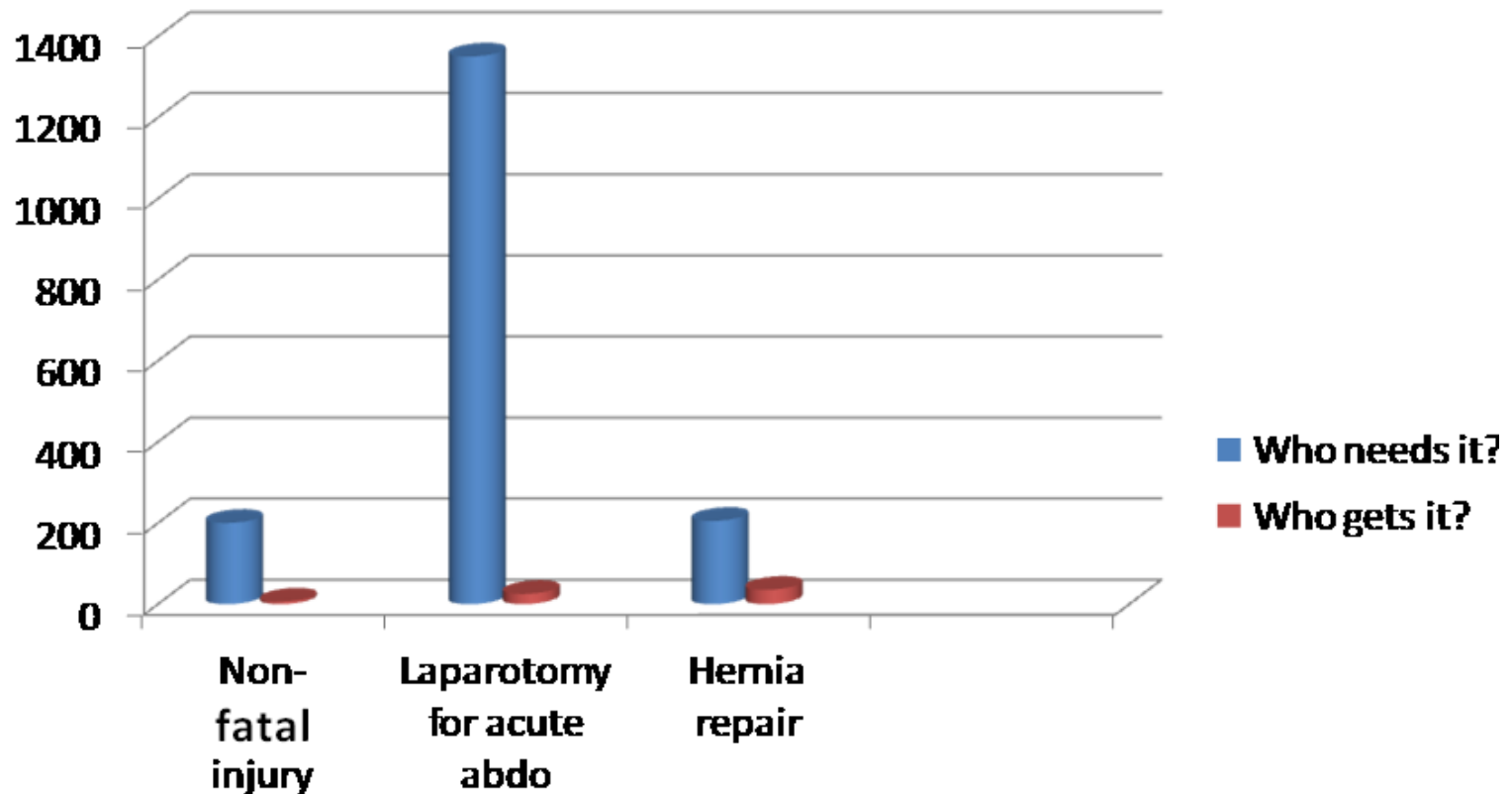


Obstetric care

- 1:26 women die in childbirth in sub-Saharan Africa.
- <1:200 get a Caesar when needed in some 15 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)



Sierra Leone survey



www.adamkushnermd.com/missions

INTERNATIONAL COLLABORATION for ESSENTIAL SURGERY



ices

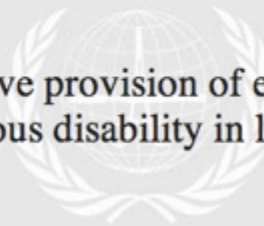
International Collaboration for Essential Surgery

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Essential Surgery *Definition: Noun*

1. Basic surgical procedures that prevent permanent disability and life threatening complications.
2. Simple, affordable surgery that saves lives.

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



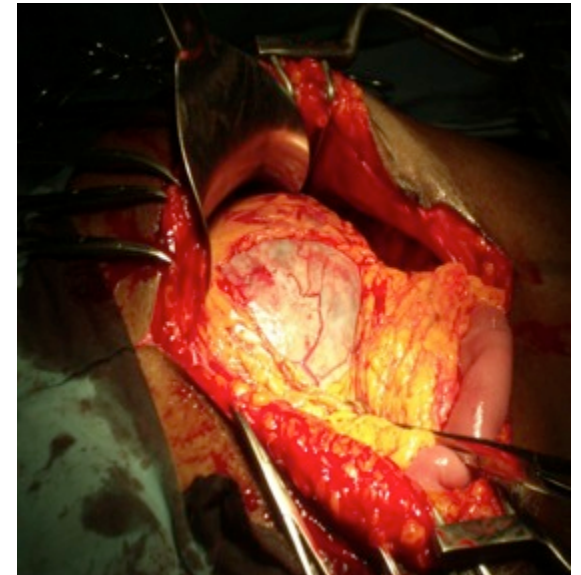
Essentials of essential Surgery

- **1. Obstetric care:**
Caesarean Section, Symphysiotomy, & Assisted or Manipulative Delivery.
- **2. Removing sepsis:**
Drainage of abscesses,
Fasciotomy, Tympanotomy, Dental extraction
Arthrotomy, Bone drilling.
- **3. Wound & Burns care:**
**Debridement , Suturing, Haemostasis,
Skin grafting, Escharotomy.**
- **4. Fractures & Dislocations:**
(inc. Club foot, Congenital hip dislocation);
Manipulation, Splinting, External Fixation.
- **5. Hernia repair**
- **6. Airway obstruction:**
Tracheo/Cricothyroido-tomy, Removal foreign body.
- **7. Compromised Breathing:**
Chest drainage



Essentials of essential Surgery

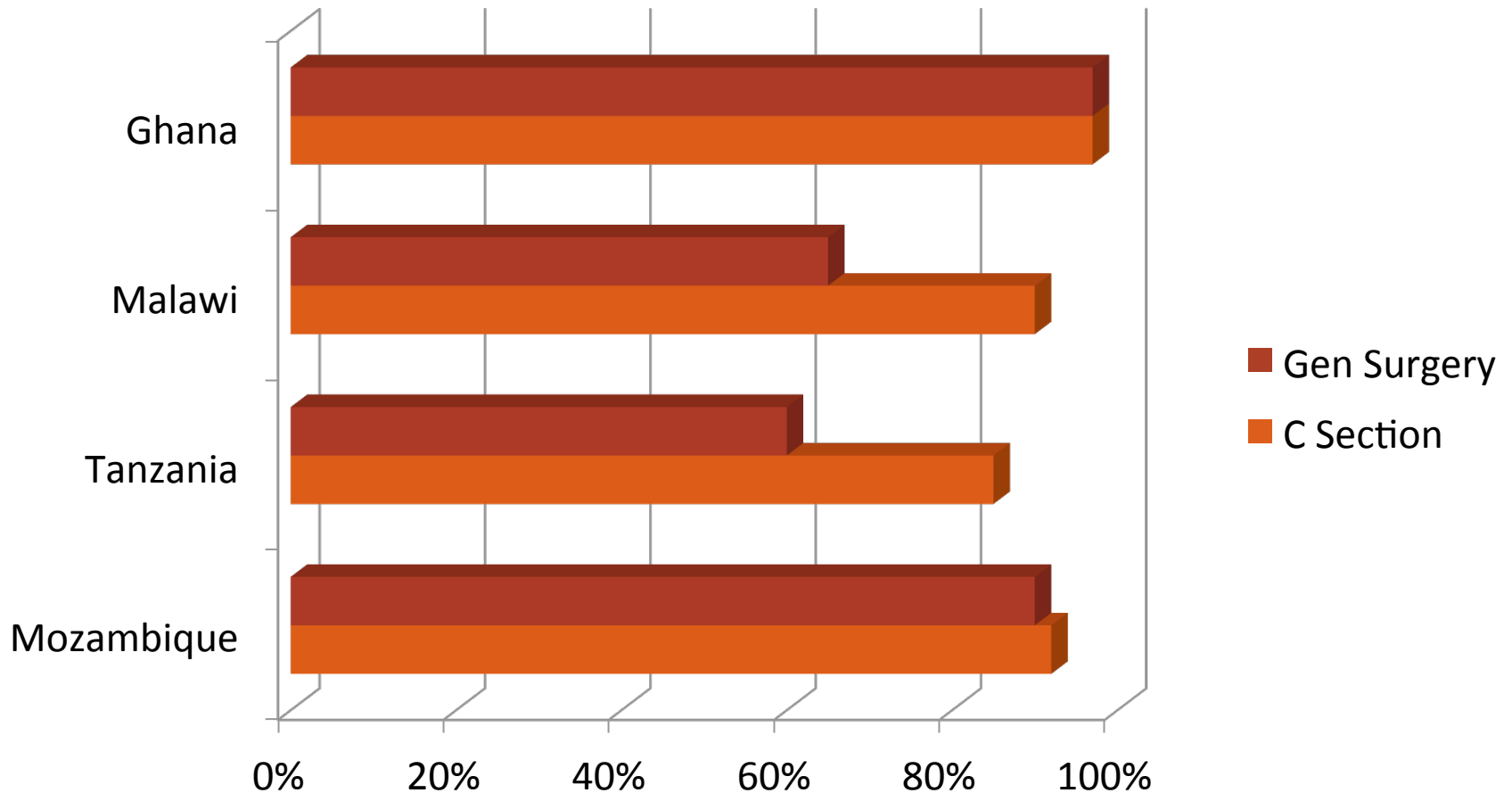
- **8. Acute Abdomen:**
(inc. appendicitis); Emergency exploratory laparotomy
- **9. Uterine bleeding:**
ERPC, B-Lynch suture, Repair perforation, D&C.
- **10. Severe Head Injury:**
Cranial burr holes, Elevation depressed skull fracture.
- **11. Severe limb ischaemia, sepsis & injury:**
Amputations.
- **12. Urinary Outflow Obstruction:**
Suprapubic catheterization.
- **13. Testicular Torsion**
Orchidopexy, orchidectomy.
- **14. Visual Impairment:**
Cataract extraction & IOL implant.
- **15. Facial Derangement:**
Cleft lip repair.



Common Operating Facilities



Surgery done by non-specialists



Countries with Clinical Officers



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

Local Training



Task Sharing



Locally Based Teaching



COSECSA

College of Surgeons
of East, Central and
Southern Africa



COSECSA: Shaping and leading surgical training in East, Central and Southern Africa





Training surgical
technicians



or



Training surgical
specialists

Hamilton Naki Mamitu Gashe

