From "On the Job" training in Surgery

towards a

Bachelor of Science degree course

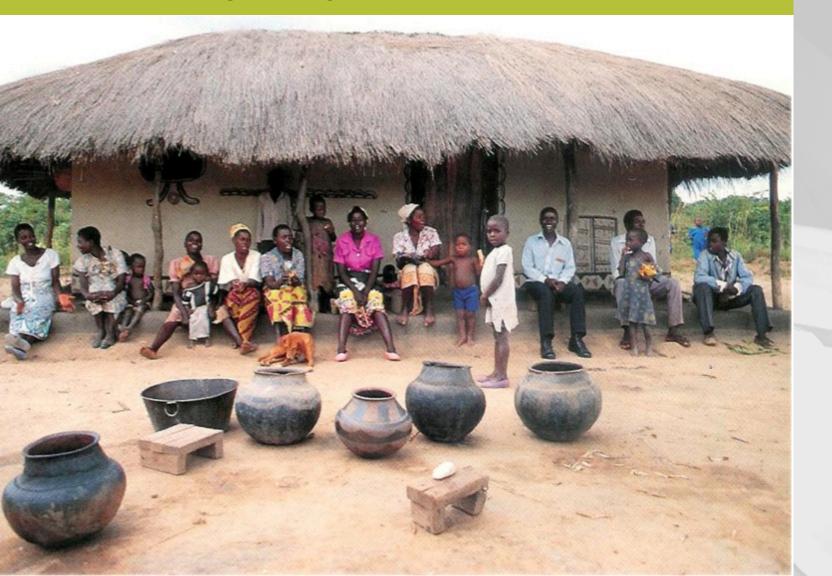
for

Clinical Officers in Malawi





16 m. 3% yearly increase, double in 15-20 yrs



More about Malawi

- The nr 9 poorest country world
- 11% HIV pos
- 1 Doctor for 50.000 inhabitants
- Few Malawian specialists

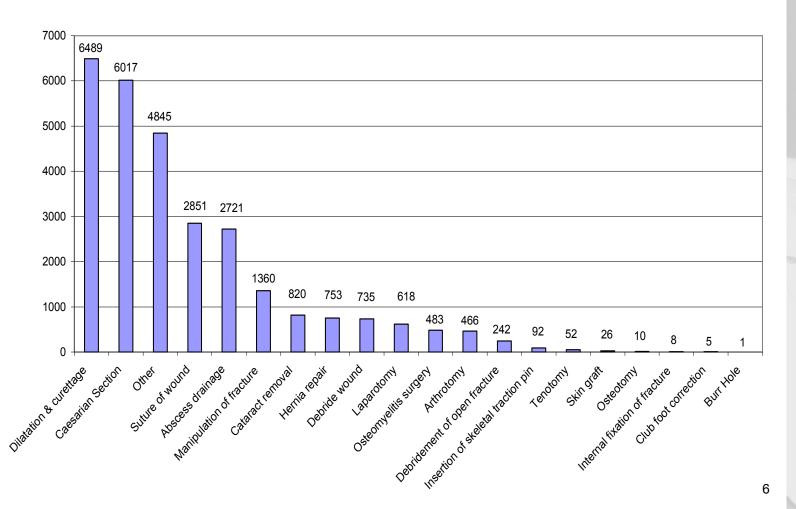
- Braindrain
 - **CNN** documentary:
 - "More Malawian Doctors in Manchester than in Malawi"

DOS: Please train COs in surgery



Why? Surgery by COs in the DHs: only 3%

Operations in District Hospitals in Malawi in 2003 (total = 28594)



COs and why to train in surgery?

- Due to lack of Doctors, COs are the BACK BONE of health care
- Training COs is basic:3 + 1 yr intern ship
- COs lack surgical skills and gain little surgical experience in hospitals
- Consequently surg. patients referred to Central Hospitals
 - The 4 CHs: overloaded



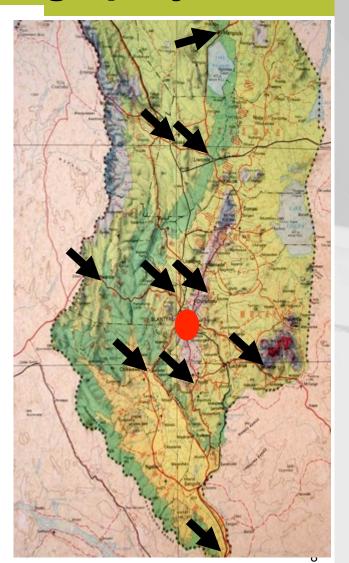
2005 Start COs trainings project

ON THE JOB.

Why?Dr Lungu will tell (some handouts)

PROGRAM

- 2 years training for
- 2 selected COs per hospital
- First in the SR, later NR
- Trained 45 COs
- In (17/11) 28 Hospitals



Goal CO training

- Upgrade surgical/ obstetrica/ gynaecological knowledge and skills
- Care for Trauma patients
- Safe practice of common surgical and obstetrical procedures in DH/MHs
- To standardize and implement similar surgical protocols (suture mat, antibiotics, preop pat.care, aseptic techniques in theatre et
- Less referrals to CHs

Teaching Program in 2 years

HOSPITAL VISITS

Every 3-4 weeks, lasting 1-2 days by (expatriate) surgeons / 1 gynecologist

ATTACHMENT WEEKS

for Extra Theory and Skills in

- General Surgery
- Obstetrics and Gynecology
- Trauma and Orthopaedics
- Resuscitation
- Surgical ENT, Dermatology. Ophthalmology
- Pathology (technique FNA, biopsies)
- Basic Ultrasound course

Teachers Att. wks from CoM

Program training is structured

First day

- Morning: Out Patient Department (OPD)
- Afternoon: Ward rounds

Second day

- 7.30: Attending "Hand over" staff meeting and Presentation surgical topic
- Theatre
- Discuss outcome visit with Hospital Director

Day 1: OPD, selected cases only, plan



OPD: which hernia to operate?



OPD: dd Breast tumours. Cancer?



Ward Rounds: All surgical patients



To be presented by COs, bed side teaching







Diagnose? Safe surg.proced. at DHs. Advice?



Snake bite. Danger? Treatment?



Ward rounds: also Trauma patients



DAY 2:Teaching hospital staff



THEATRE: the whole day







DHO: the outcome of hospital visit



6 ATTACHMENT WEEKS

Theory
and
Skills
practicing



Bowel anastomosis, ileo/colostomies



Inserting Thorax drains, Skin grafting



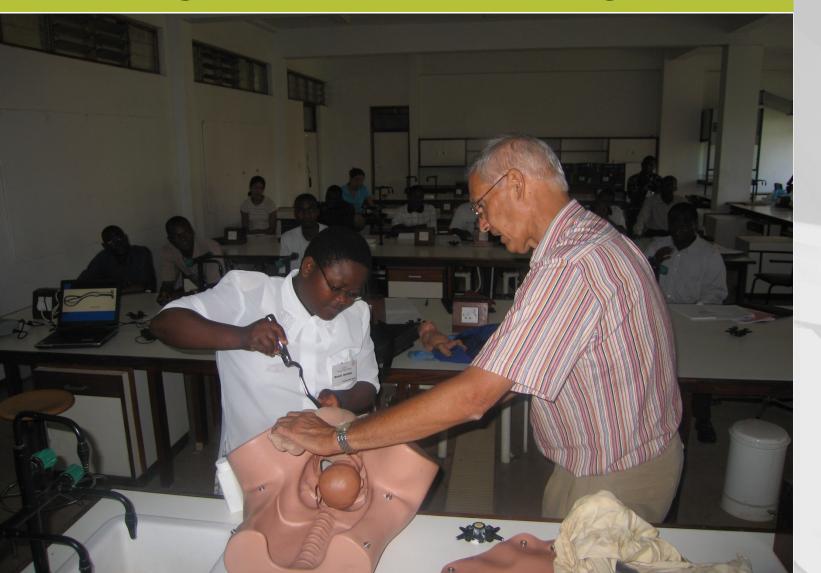
Pin traction in fracture treatment



Primary Trauma Course



Training in Obstetrical emergencies



After 2 years: program Review by CoM

Prof Bowie, England

Outcome

Quote:

- CO skills have improved
- Patients and Hospital benefitted
- Overwhelming support in and outside Malawi

Was it useful ?..... Prove it!

2 studies published: both retrospective

Study 1: after already 1 year training

- Reduction Post Op. inf. inguinal hernia patients 21% - 8,7%!!

Study 2: 1 year AFTER the 2 yrs training

- More MAJOR surgical operations: 8,4 17,8%
- Less REFERRALS to CHs, but not statistically sign.

Any Problems?

YES..... some DROP OUTS of COs!

- Why ?? Not interested......
- Why? NO CAREER PERSPECTIVE OFFERED (no increase in salary)
- Why? MoH did NOT allow a "course" Certificate of attendance only!
- Why? MoH: no money paying higher salaries to COs.
- Considered training Doctors (in those days) more important.

Meeting with MoH, Teaching Inst, Med Council

Dec 2010: "THE DECISIVE MOMENT"

Presented:

- Complete Plan BSc course in Surgery
- Plus Curriculum, and a Budget

Duration Program: 3 years

- 18 m "On the Job" training
- 18 m in Central Hs

TOLD MoH what is known in lit. about COs

Studies from MOZAMBIQUE (hand outs)

- No difference in surgical outcome Drs and TC(COs):
- For 1/4th of the training costs for Doctors
- For LESS hospital costs per Patient
- For LESS costs per Patient
- For A salary 1/10th of the Doctor
- While TC STAY in the rural hospitals and are NOT leaving the country
- While ALL Doctors have left DHs... within 7 yrs!
- Gen. opinion: Drs not trained/skilled for work in rural hospitals!

Studies from TANZANIA: Assistant Medical Officer (AMO) Able to work in all wards. But perform minor surgery only.

Response MoH.....

"We should have started this program 5 - 10 years ago"

6 months later: June 2011

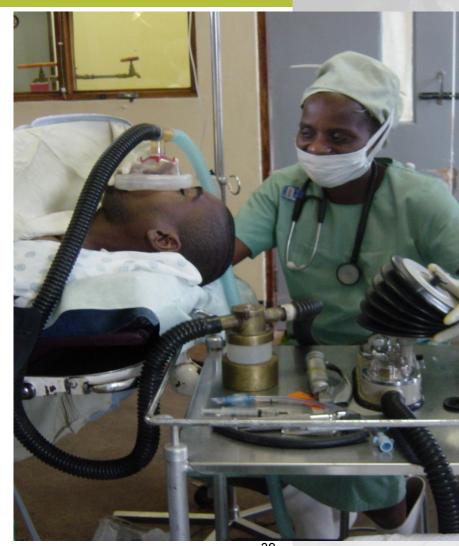
Malawi Government requested CoM to create "SPECIALIST CO clinicians" by offering BSc courses in: 1. Surgery 2. Obst/gyne 3. Medicine 4. Paediatrics 5. Orthopaedics and 6. Anaesthesia

Comments Dr Lungu



Surgery in Malawi

- 1995 District Medical Officer - Kasungu
- IMF Structural Adjustment
- Major constraint to District hospital
- Needed to know how to do emergency surgery
- More than just a scapel blade



EHP in Malawi

- HIV/AIDS/STI ARIs
- Malaria Diarrhoeal Diseases
- Maternal Health NCDs and Trauma
- TB Malnutrition
- Cancers Vaccinations
- NTDs
 Eyes and Ears Inf

Why "On the Job" Training?

- Not to further reduce COs in the Hosp
- Improve quality of care CPD
- Supervision provided by teachers
- Cost Effective
- Encourages innovation use of what is available
- Effective use of short timers





On the Job training

- TELL ME AND I FORGOT
- TEACH ME AND I REMEMBER
- INVOLVE ME AND I LEARN

Benjamin Franklin, 1706-1790

Friday 31rst Oct 2014

A historical moment for Malawi, as the very first (46) COs

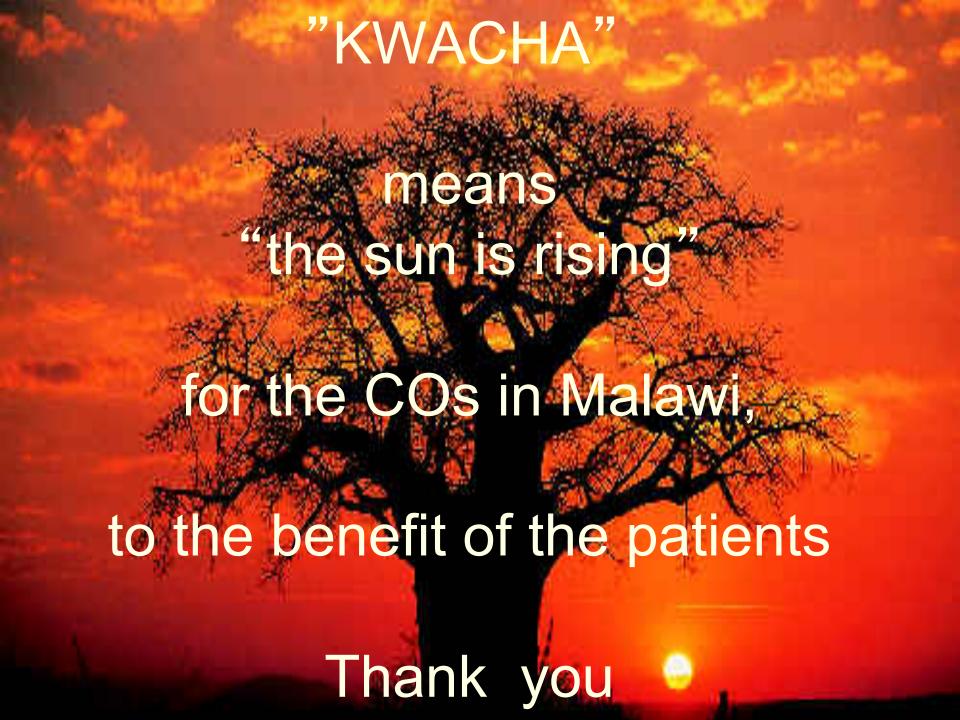
received a Clinical Officers Specialist BSc degree in

Acute Obstetrical and Neonatal care.

Trained "On the Job"

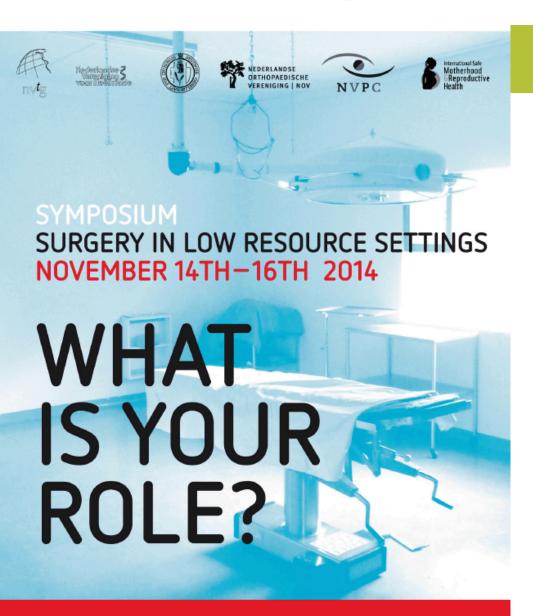
by Warwick University

















communication by design



