

Enhancing Training of Clinical Officers and Appropriate Technologies for Mothers and Babies in Malawi

By

Francis Kamwendo

University of Malawi

College of Medicine

Background

Midlevel provider training and deployment: Brief history

- 1875 Dr. Robert Laws - Cape McClear
 - Medical Orderlies and Hospital Assistants
 - On the job training
- 1894 Formal pre-service training
 - Both male and female
- 1949: Midwifery
- 1961:
 - Medical/Laboratory Assistants & Midwives (Blantyre)
 - Medical Aides (Lilongwe)
 - Health Assistants & Nurses (Zomba)
- 1976 Malawi Government
 - Clinical Officers

Absolute numbers of different cadres (2 years ago)

- Doctors (Specialists) 36
- Doctors (Non-specialists) 143
- Clinical Officers/Medical Assistants 1519
- Nurses/Midwives:
(Registered/Enrolled/Technician) 4361

As a matter of interest

- First Malawian Doctor: Dr. Daniel Malikebu
 - Graduate of Meharry College, USA
 - Returned at Port Herald by Colonialists 1920
 - Deported to Liberia
- Second Malawian Doctor:
Dr. Hastings Kamuzu Banda 1937

Maternal Mortality Ration-Malawi

Demographic and Health Survey	No of maternal deaths per 100,000 live births
1992	620
2000	1120
2004	984
2012	675

Type of study

- Programmatic
- Randomised

Randomization of Central and Northern Districts into Intervention and Non-Intervention areas

No	Intervention Districts	No	Non-Intervention Districts
1	Chitipa	1	Dedza
2	Karonga	2	Dowa
3	Kasungu	3	Mchiji
4	Lilongwe North	4	Nkhatabay
5	Mzimba	5	Nkhotakota
6	Ntcheu	6	Ntchisi
7	Rumphi	7	Salima

Method

- Training programme is the intervention (elaborated below)
- Data collection:
 - Baseline at project's start
 - 12 and 24 months from project's start
 - Data analysis:
 - STATA for quantitative data
 - NVIVO for qualitative data

Training programme set up

- Cohort of 12-14 (total 50) from different districts
- At a facility away from normal working place
- Theory and demonstrations for one week
- Examination – baseline knowledge
- Sent to their facilities with a new skills-kit and a number of tasks
 - Auditing birth problems, deaths (maternal & neonatal)
 - Cascading the new skills to the EmONC team
- A report book – lack of drugs, equipment, etc and how they solved these problems

Module 1 (done May 2011)

- Most common killers of mothers:
 - Haemorrhage
 - Sepsis
 - Hypertensive disease in pregnancy
 - Abortion complications
 - Obstructed labour
- Most common causes of perinatal death
 - Prematurity
 - Sepsis
 - Birth asphyxia

Teaching Techniques



Module 2 (done Nov. 2011)

- Leadership and team work

Module 3 (to be done Nov. 2012)

- "Born too soon"

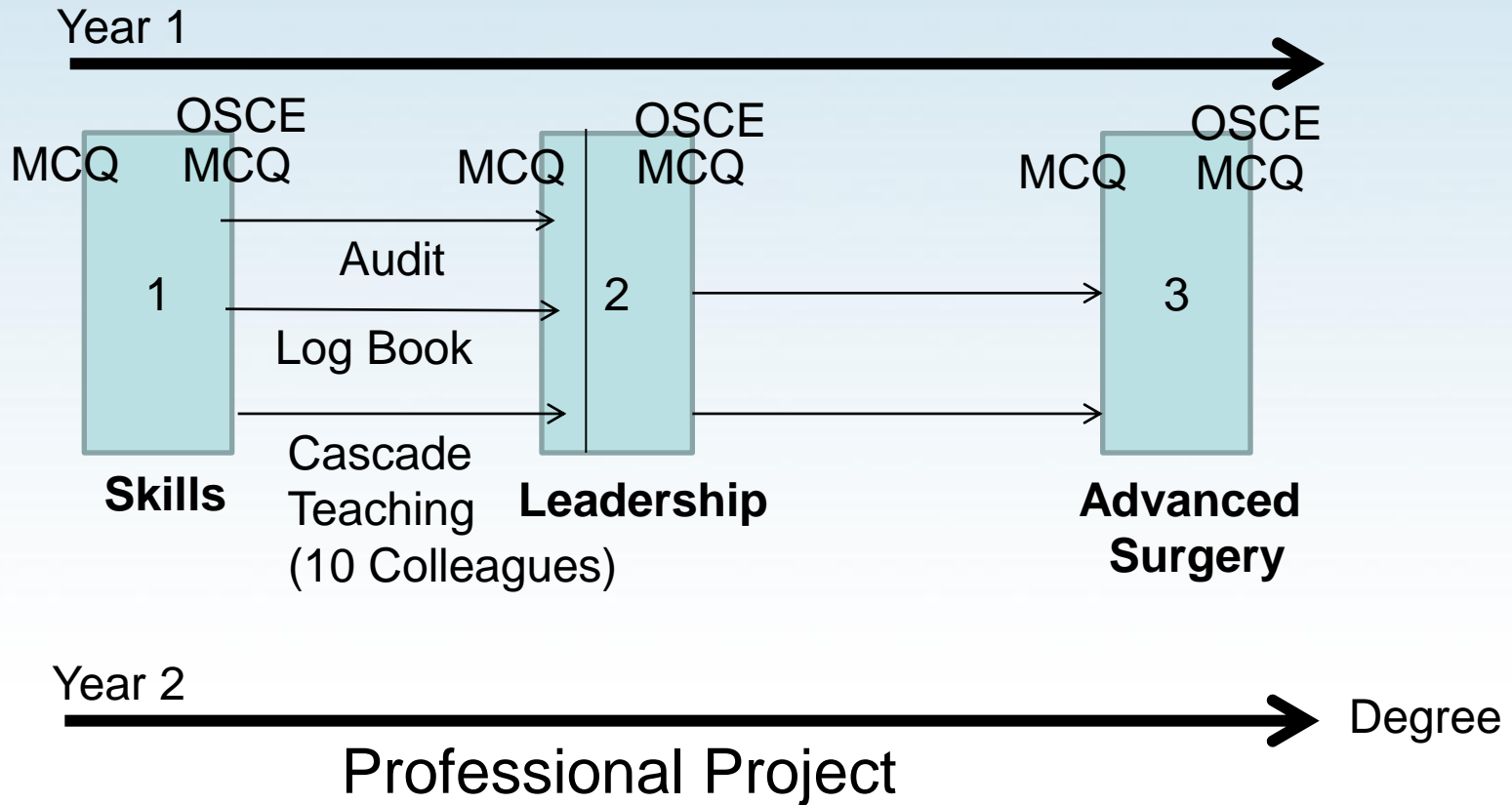
Data collection

- Baseline data at the start of project
- Impact data at 12 and 24 months from start of project

Type of data to be collected

- Perinatal mortality (defined as fresh stillbirths and neonatal deaths before discharge from the health care facility)
- Maternal death rates (case specific);
- Recorded data (e.g. still births, Post-Partum Haemorrhage, C Section, Eclampsia, Sepsis, Neonatal resuscitation);
- Availability of resources (e.g. are drugs/blood available);
- Use of available resources (e.g. drugs).
- Use of the partogram

Course Structure



Expectations

- Reduction of Maternal and Perinatal Mortality
- Establishment of BSc. Clinical Medicine in:
 - Anaesthesia
 - Internal Medicine
 - General Surgery
 - Obstetrics and Gynaecology
 - Paediatrics and Child Health
 - Trauma

Partners

1. Obstetrics and Gynaecology Dpt., College of Medicine,
University of Malawi, Blantyre, Malawi

2. The Reproductive Health Unit, Ministry of Health

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Thank you