

Task Analysis: Adaptation and Application in Africa, Asia and the Caribbean for Health Workforce Strengthening

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Presenters and Country/Region of Focus

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Definition

- A descriptive research methodology
- Wide application in the health professions
- Particularly useful in assessment and definition of the knowledge, skills and behaviors that define the scope of practice of a health profession or occupation.



The Task Analysis Process

- Feedback is solicited from a cohort of interest, e.g.
 - recent graduates
 - health care staff members
- A task list is developed from
 - relevant and available national/international documents—
 - national treatment guidelines
 - curricula
 - job descriptions
 - scope of practice statements
 - regional and international clinical practice guidelines.



Response Variables

- Frequency [how often the task is performed]
- Criticality/impact [what effect there would be on patient or community health if the practitioner was not able to perform the task]
- Ability to perform [self-rated competency]
- Where educated/trained to perform the skill



Approaches to Data Analysis

- A combination of frequencies and cross-tabulations are applied to the data
- Results can be aggregated by groups of interest, for example,
 - by health center
 - educational institution
 - geographic region
 - educational level of health care providers



Approaches to Data Analysis

- The nature of the quantitative data lends itself to higher analytical approaches, as relevant to the study interest.
- A qualitative inquiry can be used to obtain additional task information, e.g., Is there any task that you are required to perform for which you feel you have not been adequately prepared?



Exploring the Data

- The most informative results of the task analysis study came from analyzing combinations of variables
 - frequency and criticality
 - criticality and performance.





Use of Task Analysis to Transform Education of Medical Licentiates in Zambia

Presented by Lastina Lwatula Zambia

Presentation outline

Introduction

Background

Country profile

Human resource for health (HRH) situation

Who are the Medical Licentiates

Task Analysis

Objectives of task analysis

Results

Government response to task analysis results

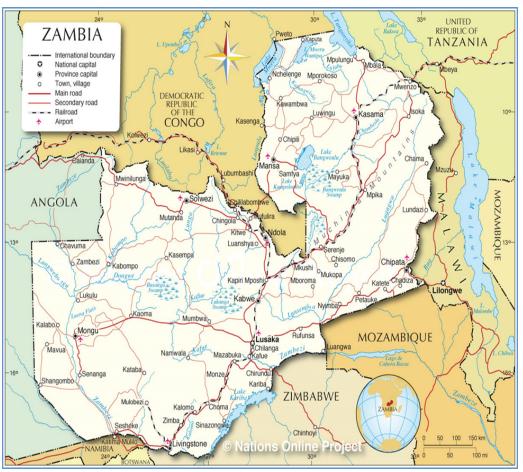
Immediate

Long term



Background and country profile





Population – 14.638,505

Maternal Mortality 398/100,000

IMR - 45/1,000

HRH – 47% (53% deficit in 2010)

Doctors - 911

Nurses – 7,669

Midwives -2,671

Clinical Officers – 1,535

Medical Licentiates – 116



Who are the Medical Licentiates (ML)

- Critical HRH shortage
 - especially doctors,
 - prompted the government to formulate potential solutions
 - especially peri-urban and rural areas
- Introduced training of Medical Licentiates in 2002
 - globally known as Associate Clinicians
 - intended as a stop gap measure



Medical Licentiates Scope of Practice

- Primarily clinical officers educated at diploma level
 - Additional training in surgical skills and internal medicine
 - Provide primary to critical surgical health services at district level facilities where there are no doctors
 - Positioned to serve in low-resourced settings via task sharing and task shifting
- Regulated by the Health Professions Council of Zambia



Rationale for Task Analysis

- National Training Guidelines (NTG) stipulated curriculum revision every 5 years
- ML curriculum had not been revised since 2002
- Trends in disease and treatment were not covered
- Many tasks had been shifted to ML without due training to prepare them for changed roles
- Task Analysis enabled review of
 - gaps in pre-service curriculum
 - opportunities for role expansion
 - need for upgrade of qualification



Results – Educated but not Practiced

- Midwifery specific tasks maternal and child health services
- Patient nutrition
- Care of equipment
- Data entry



Results - Practiced but not Educated

- Administration and management
 - ML assigned to some district hospitals were managing the facilities in addition to other duties
- Basic sciences
 - Depth of content did not adequately prepare ML to take on some of the tasks they were undertaking especially surgical procedures



Results - Practiced but not Educated

- Surgery
 - hysterectomy, repair of fistula, rectocele, other surgical emergencies
- Emergency medicine
 - tracheostomy, intubation
- Anaesthesia
 - local, spinal and (rarely) general anaesthesia



Government response

- Government and stakeholders incentivized to make decisions towards closing the identified gaps:
- Immediate revision of ML curriculum:
 - 2-year bridge course to upgrade practicing ML
 - New 5-year direct entry curriculum
 - Strengthening basic sciences and surgery courses
 - Elective courses in radiology & ultrasonography, mental health, ophthalmology, otorhinolaryngology, community health, urology, dental hygiene
 - Mandatory anaesthesia course within the ML training
 - ML qualification upgraded to Bachelors degree



Lessons and Conclusions

- College was given tool for advocacy use with stakeholders and policy makers
- ML services ranged from primary to advanced for rural population
- ML identified as appropriate cadre for task shifting for advanced care
- ML committed to serving their patients despite not being fully prepared for the roles they undertook
- Led to upgrade of qualification in recognition of level of practice

