The National Library of Medicine
NLM in Africa
Training Programs
Why Tanzania?

In 2013, Haruna Hussein asked NLM to help the Tanzanian Ministry of Health assess and address their countries health information needs.

- No academic programs in Health Information Sciences in Tanzania
- Over 5000 dispensaries, health centers, clinics and hospitals
- Very few have libraries, fewer have librarians
- No librarians with formal training in Medical Library Information Sciences
- Only one librarian with a PhD (now retired), and 6 librarians with Bachelors degrees
Assessing Tanzania’s Health Information Needs

Team: Ellen Deltlefsen (U Pitt), Shaaban Bane (Senior driver), Haruna Hussein (Head of Health Information Resource Centers), Mtoroki Majaliwa (Coordinator Pharmaceutical Logistics)

Morogoro Working Group
Focus Groups
- Arusha
- Dar es Salaam
- Njomba
- Mwanza

Working Groups
- Morogoro
- Moshi
Focus Groups

- Deans
- Chiefs of Staff
- Dept Heads
- Clinicians
- Researchers
- Nurses
- Health Workers
- Students
- Patients and families
- Hospital Administrators
- Medical Records managers
- IT staff
Tanzanian Health Information Specialist Training Program

• NLM worked with the Ministry of Health and diverse stakeholders to assess needs, develop curriculum, obtain accreditation, and implement.

• Three year Diploma program to develop a nation-wide workforce with medical information and electronic health records management skills

• Ministry is creating a “cadre” to employ graduates

• Matching funds from Office of AIDS Research Innovation Award

• We have enrolled 75 students at 3 sites and expect to enroll over 100 students at four sites next year
Training Centers:

- Training Centre for International Health (Ifakara)
- Centre of Educational Development in Health (Arusha)
- Lake Zone Health Training Institute (Mwanza)
- Mafinga Clinical Officer Training Center (Iringa)
One Physician per 33,000 people (2013)

Human capital distribution: education

IF tools, Paree Center, University of Denver: www.ifs.du.edu
### Health Care Worker Roles, Training Requirements, and Numbers in Tanzania, 2013

<table>
<thead>
<tr>
<th>Cadre</th>
<th>Level of Education/Training</th>
<th>Number in Tanzania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Doctor (MD)</td>
<td>Five years training + one-year internship</td>
<td>1,135</td>
</tr>
<tr>
<td>Assistant Medical Officer (AMO)</td>
<td>Clinical officer + two additional years of rotations/coursework</td>
<td>1,741</td>
</tr>
<tr>
<td>Clinical Officer (CO)</td>
<td>Secondary school + three years of medical training</td>
<td>5,950</td>
</tr>
<tr>
<td>Nurse/Nurse Midwife (NMW)</td>
<td>Secondary school + two years of nursing training</td>
<td>14,096</td>
</tr>
<tr>
<td>Clinical Assistant/Medical Assistant</td>
<td>+/- Secondary school + basic triage skills</td>
<td>1,096</td>
</tr>
<tr>
<td>Village Health Worker/Medical Attendants</td>
<td>Short courses on health education, often no formal schooling</td>
<td>19,666</td>
</tr>
</tbody>
</table>

Class is in Session
Tanzanian Ministry of Health to take complete ownership of the HIS training program by the end of 2020

Training Centre for International Health in Ifakara