Jibu - Increasing Access to Health Information for Nurses in Kenya

STTI Conference, Capetown

Friday, July 22, 2016
Amref is the largest African NGO with reach across 35 African countries and extensive local partnerships

Our programme footprint …

…with local presence and partnerships, crucial for creating lasting health change

Headquartered in

Nairobi, Kenya

Regional Offices in Africa

8 offices

Number of projects in Africa

>150 projects

People reached across Africa annually

>11m people

Annual budget

>$91m
We have been innovating in capacity building for nearly 60 years using the tools of our time.

1950s – 60s: AMREF is founded using the flying doctors service to deliver healthcare and training in remote areas in Africa.


2000 & beyond: Introduction of technology supported learning including telemedicine, eLearning and mLearning.

We Innovate. Replicate successes. and Advocate for change in policy and practice.
Together with the Kenya Nursing Council we developed an eLearning initiative to address a critical nursing shortage

- In 2005, Amref Health Africa teamed with partners and the Kenya Nursing Council to develop a revolutionary eLearning programme that would enable Kenya to train and certify thousands of nurses in just five years.

- This programme has since been rolled out to nurses in countries across Sub-Saharan Africa, including Tanzania, Uganda, Zambia, Senegal, Malawi and is continuing to grow.

We leverage technology to strengthen health systems
The eLearning programme has been evaluated using Kirkpatrick’s model of evaluation

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<th>Level 1: Reaction</th>
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<td>Eg – Positive response to training</td>
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<th>Level 2: Learning</th>
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<td>Eg – Improvements in competence (pre-test vs post-test, self-assessment)</td>
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<th>Level 3: Behaviour</th>
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<td>Eg – Improvements in health worker performance (self assessment, supervisor review, observation, patient exit interview)</td>
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<th>Level 4: Results</th>
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<td>Eg – Improvements in health outcomes, improved health service efficiency (Key Performance Indicators)</td>
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We saw some great outcomes from the eLearning programme …

• **Multi-fold increase** in national training capacity for health workers in programme e.g. 4,500 nurses graduated vs 500 if regular programme was used

• The **ability to impart knowledge, skills and competencies** using e/mLearning as evidenced by performance at *NCK licensure exam*.

• **Reduced cost of training**, data collection, and access to information through use of technology

• **Acceptance of the use of technology** in health by health workers, regulators, training institutions, governments, and the communities
The Kenya eLearning experience resulted in an eLearning model that has been used to replicate the programme. Amref Health Africa offers certificate, diploma and/or undergraduate courses via eLearning in the following countries:

- Angola
- Burundi
- Cameroon
- Congo
- Djibouti
- Ethiopia
- Ghana
- Ivory Coast
- Kenya
- Lesotho
- Malawi
- Namibia
- Nigeria
- Senegal
- South Sudan
- Sudan
- Tanzania
- Uganda
- Zambia
- Zanzibar

*Programmes implemented in partnership with MoHs in countries in red*
... as well as some challenges with the use of eLearning ...

- Lack of continued access to computers
- **Cost** of purchasing internet bundles
- Limited mobile provider networks in rural areas.

... which led to the development of the Jibu mLearning programme

Click [https://youtu.be/eUbW0cqi41E](https://youtu.be/eUbW0cqi41E) to view a short overview of the Jibu mLearning initiative
The main objective of the mLearning initiative is to increase access to learning materials for nurses.

- To **increase access** to the eLearning content for nurses and midwives.
- To provide nurses and midwives with access to additional reference materials to **support learning**.
- To provide nurses and midwives with access to additional reference materials to **support practice**.
- To increase opportunities for **peer learning** for geographically dispersed nurses and midwives.
The Jibu Application Workflow

1. Download and install
2. Login
3. Course page
4. Subject page
Set up of the initiative included a number of key activities …

- **Stakeholder engagement**
- **Baseline study** - determined as-is status of use of mobile devices among nurses, info gaps and needs
- **Application development** –
  - i. works across multiple operating systems
  - ii. works online and offline
  - iii. integrates quizzes,
  - iv. allows for collection and analysis of statistics
• Collaborative content development in the areas of need such as post abortion care, contraception, confidentiality, etc using trainers, regulators, MoH
• Usability testing
• Enrolment and follow up of users
Phase I of the initiative saw a high interest in the use of mLearning among nurses across the 3 countries:

- **Kenya: 5,393**
- **Uganda: 5,500**
- **Tanzania: 2,821**

Evaluation feedback indicated very high interest in use of mLearning as well as high demand for accredited, credible content.

- Regulator interest in providing continuing professional development (CPD) via mLearning
Phase II supported by Elsevier Foundation will focus on refining the application and approach

- Refining of the Jibu application to improve the learner experience
- Work with the Kenya nursing council to deploy the use of mLearning for CPD including content development and capacity building for CPD providers
- Conduct M&E
We want to collaborate!
Thank You!

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