

Decision support: preliminary results from a phased implementation planned for the Map of Medicine in Africa



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Session Overview

- The SHIPD
 - Mission
 - Background
 - Partners
 - Products

- Map of Medicine
 - Pilots
 - **Pilot Results**

- Next steps

Mission

To provide free access to eHealth products and services, as appropriate, to developing country institutions

Background

Developments in information and communication offers potential for world-wide advancement in public health and clinical care.

However, some countries are unable to take advantage of these eHealth developments because they do not have access to proprietary products and services which are protected by intellectual property rights.

Fortunately, a number of organizations are willing to provide free access to selected eHealth products and services to developing countries through a partnership with the World Health Organization.

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Partners

- eHealth IP owners: Informa provides the Map of Medicine
- eHealth Unit of the WHO: administers SHIPD and convenes partners
- HINARI (*Health Internetnetwork Access to Research Initiative*) provides authentication
- Others

What is Map of Medicine?

- A web-based visual representation of evidence-based patient care journeys
- Covers 28 medical specialties
- Contains 393 pathways
- Used to support clinicians; not to replace the clinical judgement

Malaria Pathway

Malaria - suspected - The Map of Medicine - Africa - Microsoft Internet Explorer

Address <http://app.mapofmedicine.com/mom/57/page.html?department-id=4&specialty-id=1012&pathway-id=11190&page-id=11191&history=clear&history=clear>

mapofmedicine® Institute for Innovation and Improvement NHS

Ms P. Nicklin | Log out Current view Africa | NHS Wales | Other views

Malaria - suspected Print page Give feedback Referral Letters Return Home

Medicine / Infectious diseases / Malaria Search: (e.g. asthma or "chest pain") Search

Key

- Information
- Referral
- Local info
- Note
- Primary care
- Secondary care

Malaria - suspected

Risk factors and pathology

Clinical presentation

Consider risk of malaria infection

History Examination

Parasitological test

Further investigations

Malaria confirmed or not

Clinical presentation

Quick info Notes

In adults, the principal symptom of uncomplicated malaria is fever; this may be accompanied by general systemic symptoms of:

- chills or rigors
- headache
- muscle aches
- fatigue and weakness
- gastrointestinal disturbance:
 - nausea and vomiting
 - abdominal pain
 - diarrhoea
 - loss of appetite

Severe malaria presents with end organ dysfunction:

- impaired consciousness and coma

Search National Library for Health

Start WHO SHIPD Presentatio... AHT eHealth Conference... Inbox - Microsoft Outlook Malaria - suspected - ... 11:54

SHIPD Pilot Sites

- 11 Teaching Hospitals – users of clinical evidence
 - Cameroon
 - Kenya
 - Nigeria
 - Tanzania
 - Uganda
 - Zambia
- Members of HINARI – building on current digital access to medical information
- Focused on 3 Pathways: HIV/AIDS, TB and Malaria



November 2007 – March 2008

Cameroon: Central Hospital Yaoundé

Kenya: Aga Khan Hospital
AIC Kijabe Hospital

Nigeria: Lagos State University Teaching Hospital
Lagos University Teaching Hospital

Tanzania: Kilimanjaro Christian Medical Centre
St. Walburg's Hospital

Uganda: International Hospital Kampala
St. Francis' Hospital Nsambya

Zambia: University Teaching Hospital
Mtendere Mission Hospital

Preliminary Results – Localization issues

Adapt the pathways to the national needs:

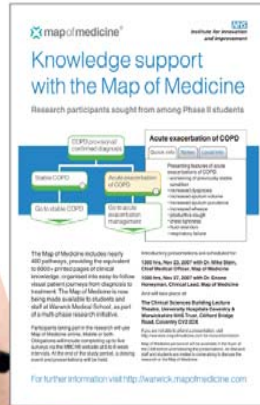
- Shorter versions of the malaria and tuberculosis pathways suggested (connectivity problems)
- Differing care journeys between the UK and African countries (specialist referral less prominent in Africa)
- Growing burden of chronic diseases in developing countries should be targeted e.g. diabetes
- Translations into French and Portuguese

Kijabe Hospital - Kenya

- Good Clinical Senior Management support
- Good and accessible IT support
- Enthusiastic pilot participants consisting of: Senior Doctors, Senior ITU Nurse and Head Librarian
- Could see the potential for clinical practice and education
- Keen to make colleagues aware and deliver presentations and training
- Constructive input to pathways



Mobile Map



A trial of the Mobile Map in 2007 had already proved very popular with Kijabe Hospital Kenya.

The Map of Medicine on PDA was recommended by participants in the Kenya pilot

University Teaching Hospital – Lusaka - Zambia

- The Acting Hospital Director still sees patients
- Has a Consulting area in his office
- Really excited by the Map
- *“This is the best thing to come out of this world for developing countries”*



Kilimanjaro Christian Medical Centre - Tanzania

- Growing burden of chronic diseases in developing countries to be taken in account
 - Particularly Diabetes
- "diabetes is one of the biggest problems in Kilimanjaro as patients often present with very late symptoms" says the Director of the Hospital Services*
- The Map of Medicine Diabetes pathway is useful



Surveys

- Each pilot site training participant completed a *baseline survey*
- An *on-going survey* was also completed
- All the surveys were collated at the end of the project
- Surveys were available *on-line*
- The results will help determine what happens regarding roll out to other African and/or developing countries.

1. SHIPD Project Baseline information for the Map of Medicine

Please complete this survey about your access to clinical knowledge and guidelines

*** 1. Please tell us a little bit about yourself**

Name:

Organisation:

Address 1:

Address 2:

City/Town:

*** 2. How often do you seek access to clinical knowledge or guidelines?**

Daily Weekly Monthly Less than monthly

Access to clinical knowledge and guidelines: Daily Weekly Monthly Less than monthly

*** 3. Where do you access clinical information and guidelines?**

Books Journals Internet Other

Other (please specify):

*** 4. How much of this information do you consider to be up to date and based on evidence?**

All of it Most of it Some of it Hardly any of it None of it

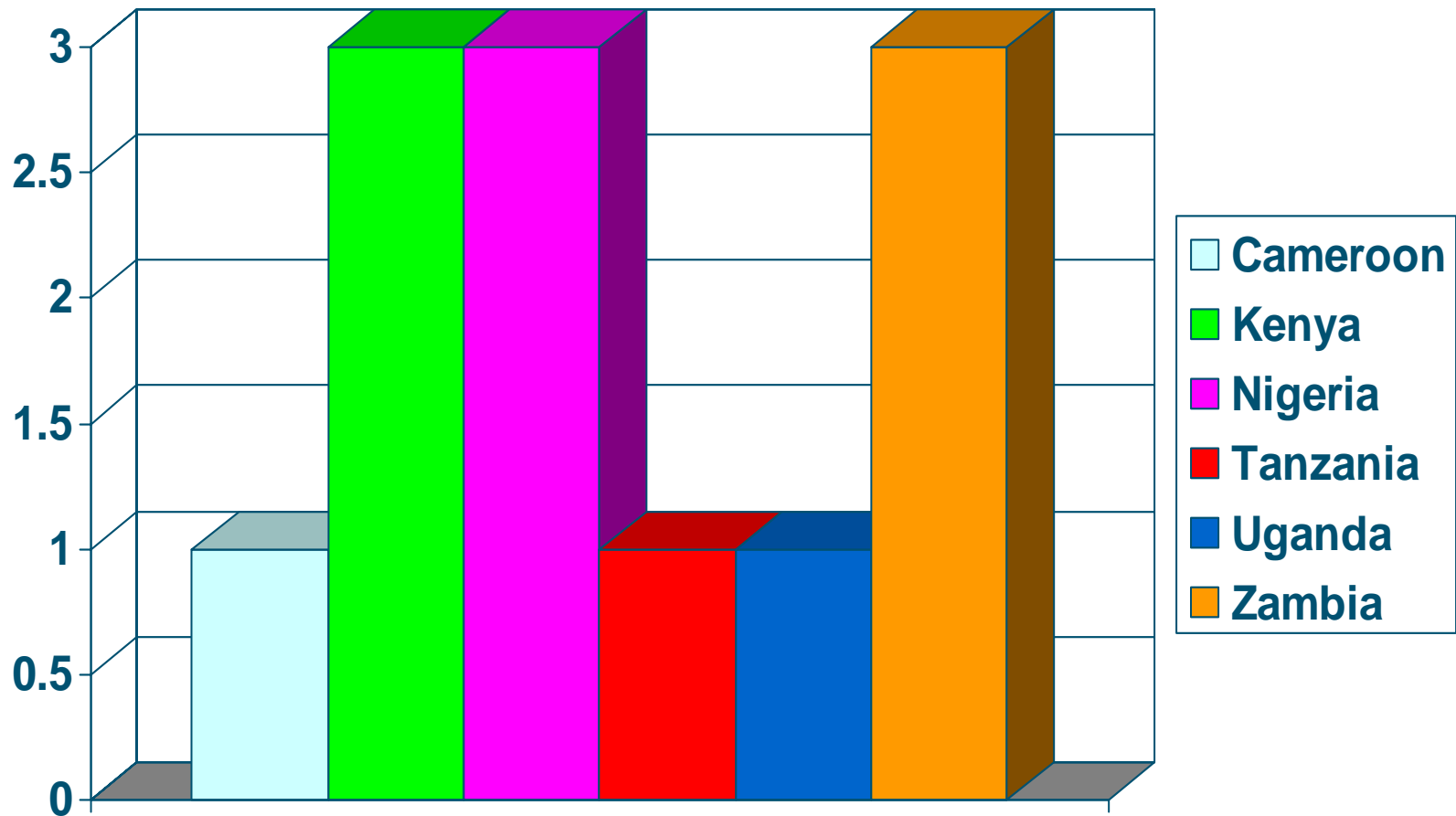
Information up to date and evidence based: All of it Most of it Some of it Hardly any of it None of it

*** 5. In general, how quickly can you find the information and guidelines you are looking for?**

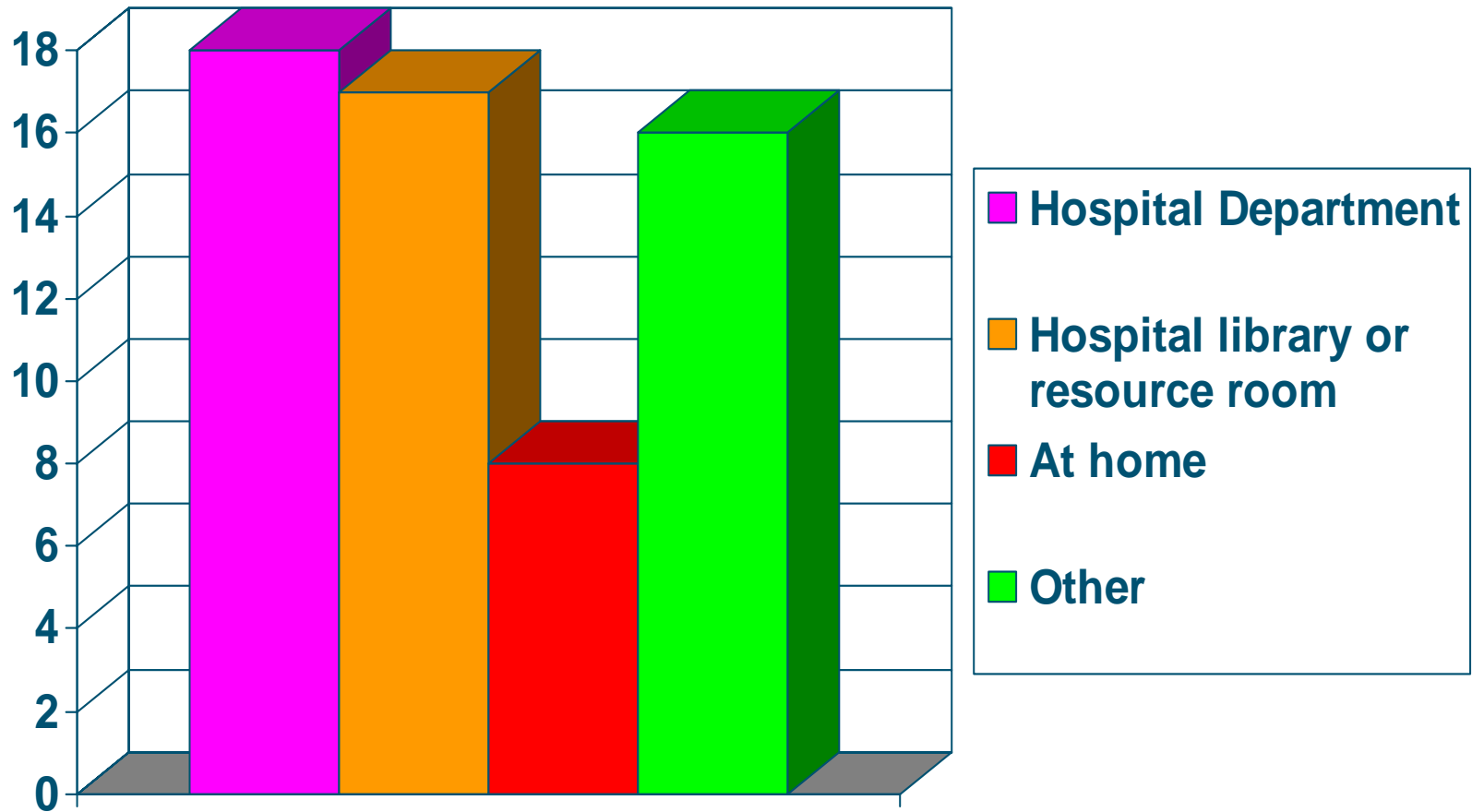
Very quickly Quickly Fairly quickly Slowly

Speed of access to information and guidelines: Very quickly Quickly Fairly quickly Slowly

How often have you accessed the Map of Medicine this week?



Where did you access the Map of Medicine?



How useful was the pathway?

- 76% of participants found the pathways useful for management of their patients
- 60% of participants found the pathway useful for continuing professional development
- 89% of participants found the condition or pathway that they were looking for
- 82% of participants would refer to the pathway again

Positive feedback

- *The Map of Medicine is a comprehensive, concise and user friendly synthesis of best research evidence and evidence based clinical guidelines. It is a one stop clinical resource for clinical decision making and continuing professional development'*
- *Very useful even in the context of a developing country set up as where I practice and teach interns and students*
- *Has been a useful teaching aid*
- *I can find my information very quickly*



Challenges identified

- Some information could not be used due to *lack of appropriate tools*
- Some participants were unable to complete the questionnaire every week due to the *unavailability of ICT tools*
- Erratic *electricity supply* and erratic ***internet connectivity*** have been the most challenging aspects of using this huge and rich clinical resource
- Unavailability of the internet was a problem in some health institutions
- Problems with *internet speed*
- Issues with the limited local *bandwidth*

Next Steps – 2008

Leverage the work of existing initiatives

- Africa Health Infoway: will help connect Africa
- Other projects: EvipNet (Evidence Informed Policy Network), ePortuguese, RAFT

Leverage the work of ITOCA

Information Training and Outreach Centre for Africa
in organizing and providing large scale training to end users

In-country expansion in 6 pilot countries

Kenya, Tanzania, Zambia, Uganda, Cameroon and Nigeria

Target new Countries

Swaziland and Rwanda

Develop the Community of Practice

Publish website

www.who.int/shipd

THANK YOU

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