

# The Role of Libraries in Global Health: Information Services that Support Global Health Research

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# Acknowledgements

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# Minds Eye of Global Health

**This...**



**Or this?**



# Reality of Global Health

## Botswana



## Guatemala



# UPenn Partnerships

## Botswana



## Guatemala



# Why the Library?

- Organize data
- Analyze data
- Make data accessible
- Technology experts/wizards

i.e. Find a needle in a haystack

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# Research Before You Go

- Global Health Portal

<http://library.utsouthwestern.edu/portals/globalHealth.cfm>

The screenshot displays the UT Southwestern Library website. The top navigation bar includes the library logo, links to Home, UTSW, UTSW Mail, and Moodle, and a search bar. Below this is a secondary navigation bar with links to Home, Quick Links, Portals, Services, About, and Ask Us. The 'Portals' link is active, and its dropdown menu is open, showing four main categories: Clinical, Research, Education, and Other. The 'Research' category is further expanded, listing various resources. The 'Global Health' link is circled in red, and a red arrow points to it from the 'Clinical' category. On the left side of the page, there is a 'Popular Links' section with links to Directions & Hours, Interlibrary Loan (ILLiad), Library Catalog, Ebooks A-Z, EndNote, USMLE Easy, Access Medicine, Ejournals A-Z, Henry Stewart Talks (Trial Access), MD Consult, Ovid MEDLINE, PubMed, Scopus, UpToDate, and SciVal Funding. The bottom of the page features a 'Library News' section.

UT Southwestern  
Library

Home UTSW my UTSW Mail Moodle

Search Library Website Search

Home Quick Links Portals Services About Ask Us

Today's South Library Hours: CLOSED  
South Library/North Library: 24/7 Badge Access

**Popular Links**

Directions & Hours  
Interlibrary Loan (ILLiad)  
Library Catalog

Ebooks A-Z  
EndNote  
USMLE Easy

Access Medicine  
Ejournals A-Z  
Henry Stewart Talks (Trial Access)  
MD Consult  
Ovid MEDLINE  
PubMed  
Scopus  
UpToDate  
SciVal Funding

**Find Art**  
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MESH | P  
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**Clinical**  
Behavioral Health  
Clinical Reference  
Clinical Evidence  
Consumer Health  
Databases  
Epidemiology  
Family Medicine  
Geriatrics/SAGE  
H1N1  
Maternal & Child Health  
Mobile Resources  
Nursing  
Orthopaedic Surgery  
Ovid  
Practice Guidelines  
Psychiatric Emergency  
Public Health  
Residents  
Texas Public Health

**Research**  
Basic Sciences  
Databases  
Data Sets  
Environmental Health  
Grants  
Global Health  
Health & Healthcare  
Disparities  
Management, Health Policy  
NIH Public Access  
Science Reference

**Education**  
Dissertation & Thesis  
Division of Basic Science  
(DBS) Student  
HPREP  
MS1 Orientation  
Southwestern School of  
Health Professions (SSH)  
Student  
UT Southwestern Austin  
Program Affiliates  
Writing

**Other**  
EndNote  
Library Handouts  
Media  
SAS  
SPSS  
Women in Science & Medicine  
View all subjects

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Library News

# Important Resources

- Databases
  - PubMed, Medline (Ovid), PAIS International, Scopus, TRIP Database
- Data Sets & Stats
  - Global Atlas of Infectious Diseases
  - Global Health Data Exchange
  - Global Health Observatory
  - Measure DHS
- Global Health Ejournals and Ebooks
  - Search the term Global Health  
in Ejournals & Ebooks A-Z

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# Assessment & Evaluation

- Measuring Impact and Sustainability
- Library staff has 10 years experience w/A&E
  - Outcomes evaluations related to educational, research, and patient care activities

# Evaluation of generic medical information accessed via mobile phones at the point of care in resource-limited settings

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► Additional material is published online only. To view please visit the journal online (<http://dx.doi.org/10.1136/amiapril-2012-001276>).

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## ABSTRACT

**Objective** Many mobile phone resources have been developed to increase access to health education in the developing world, yet few studies have compared these resources or quantified their performance in a resource-limited setting. This study aims to compare the performance of resident physicians in answering clinical scenarios using PubMed abstracts accessed via the PubMed for Handhelds (PubMed4Hh) website versus medical/drug reference applications (Medical Apps) accessed via software on the mobile phone.

**Methods** A two-arm comparative study with crossover design was conducted. Subjects, who were resident physicians at the University of Botswana, completed eight scenarios, each with multi-part questions. The primary outcome was a grade for each question. The primary independent variable was the intervention arm and other independent variables included residency and question.

**Results** Within each question type there were significant differences in 'percentage correct' between Medical Apps and PubMed4Hh for three of the six types of questions: drug-related, diagnosis/definitions, and treatment/management. Within each of these question types, Medical Apps had a higher percentage of fully correct responses than PubMed4Hh (63% vs 13%, 33% vs 12%, and 41% vs 13%, respectively). PubMed4Hh performed better for epidemiologic questions.

**Conclusions** While mobile access to primary literature remains important and serves an information niche, mobile applications with condensed content may be more appropriate for point-of-care information needs. Further research is required to examine the specific

Swift access to relevant updated information is a critical part of healthcare delivery.<sup>1-4</sup> What types of information do clinicians need and how can they be addressed by mobile technology? Lancaster and Warner identified three general types of information needs: (1) background information on a topic; (2) information to 'keep up' with new advances in a given subject area; and (3) to help [solve] a certain problem or [make] a decision.<sup>5</sup> Prior to the internet age, this information could be found using condensed pocket texts, accessing books and journals at libraries, or consultation with colleagues. However, in resource-limited settings, these avenues are often not available<sup>6</sup> as libraries are not well-stocked and specialist access is very limited. Theoretically, the advent of the internet should have democratized this information but, in reality, the internet has failed to close this information gap<sup>7</sup> and has exacerbated the disparity, creating what has been referred to as the international digital divide.<sup>8</sup> The creation of this digital divide has been multifactorial in nature. Infrastructure is perhaps the most striking barrier as the price of computers and internet service remains prohibitively high in developing countries.<sup>9</sup> Reliable incoming bandwidth is also an issue, and speeds can vary within the same region. For example, Botswana's incoming bandwidth is 14 megabits/s,<sup>10</sup> but only a few African countries have a better bandwidth than this.<sup>11</sup> Its neighbor, South Africa, is reported to have about 80 times more bandwidth for data communications than Botswana.<sup>12</sup> Lack of familiarity with computer technology and lack of

# Portals – View All Subject Headings

## Assessment Resources

[View All Subject Headings](#)

Chat requires JavaScript

### How Do I...

Connect from off-campus  
Connect to wireless network  
Find an article  
Find a book or an ebook  
Get a literature search  
Get a study room/Clinical workstation  
Get help from a Librarian  
Recommend a journal or book  
Register for a class  
Request Individualized Training  
Request an article or a book (Interlibrary Loan)

► More

### Found 35 resources

- ② [AAMC Publications](#)
- ② [AEAWeb Evaluation: RSS Feeds](#)
- ② [American Evaluation Association \(AEA\)](#)
- ② [Assessing Student Competence in Accredited Disciplines: Pioneering Approaches to Assessment in Higher Education, 2001 \(eBooks on EBSCOhost\) \[Electronic Book\]](#) 
- ② [Baylor University SACS Review: Assessment & Planning Templates](#)
- ② [Building a Scholarship of Assessment, 2002 \(eBooks on EBSCOhost\) \[Electronic Book\]](#) 
- ② [Computer-assisted Assessment in Higher Education, 1999 \(eBooks on EBSCOhost\) \[Electronic Book\]](#) 
- ② [Continuing Education and Performance Improvement \(AAMC\)](#)
- ② [Effective Learning & Teaching in Medical, Dental, & Veterinary Education, 2003 \(eBooks on EBSCOhost\) \[Electronic Book\]](#) 
- ② [Ensuring the Fairness of Licensing Tests \(ETS Policy and Research Reports\)](#)

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# Funding

- Grants Portal on Library website
- SciVal Funding Database
  - Supports researchers and research administrators in the pre-award stage of the funding process.
  - Mary Ann Huslig
- Elsevier Foundation
  - Medical Library Association Librarians Without Borders
    - Train the Trainers
    - Grants and Scholarships
    - Bilateral Agreements



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# Research Support in the Field

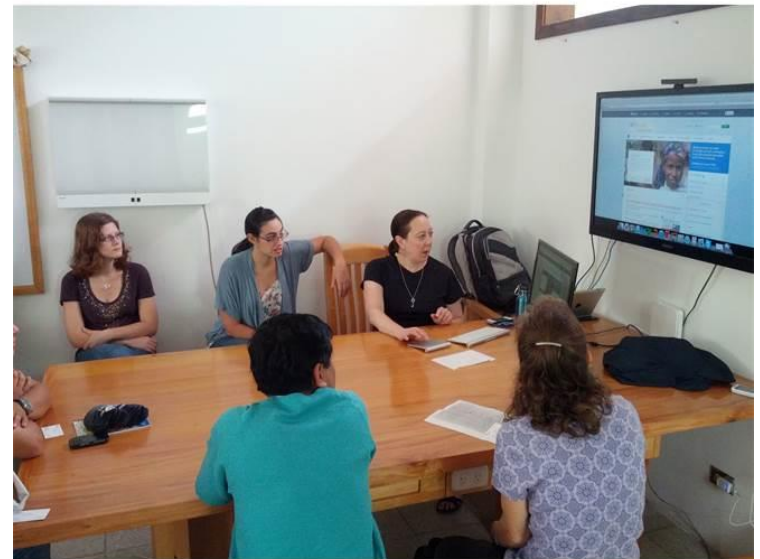
- Full access to UTSW Library via EZProxy
- Full access to UTSW Librarians via
  - Live Chat (instant messenger)
  - Ask Us (email)
- As a Team Member
  - Organize data
  - Analyze data
  - Make data accessible
  - Utilize, Teach, Demonstrate on various technologies

# Librarians in Action

## Botswana



## Guatemala



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