

Health Internetwork Access to Research Initiative (HINARI)

*Report of a Bi-Regional Workshop
Bangkok, Thailand, 9-13 May 2005*



**World Health
Organization**

**South-East Asia Region
New Delhi**

**Western Pacific Region
Manila**

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1. INTRODUCTION

A Bi-Regional Workshop on Health InterNetwork Access to Research Initiative (HINARI) was convened by the South-East Asia Regional Office (SEARO) and the Western Pacific Regional Office (WPRO) at the Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, from 9-13 May 2005. The workshop focused on a training schedule designed to instruct participants in how to get the most out of the resources available via HINARI. It was attended by 14 participants from Bangladesh, Bhutan, Cambodia, Lao Peoples Democratic Republic, Maldives, Mongolia, Myanmar, Nepal, Papua New Guinea, and Viet Nam. There were two observers on day 3 and day 4 from Thailand. In addition, there were two special invitees from the United Kingdom of Great Britain and Northern Ireland (UK), and the United States of America (USA) who contributed as resource persons and presented lectures and practical sessions. (The List of Participants and the Programme are at Annex 1 and Annex 2, respectively).

2. OPENING OF THE WORKSHOP

The participants were welcomed by Ms Anchalee Chamchuklin, Librarian, WHO/SEARO, who opened the programme. Introductions and opening remarks were then given by Mr Charles Raby, Chief, Translation, Publications and Library Services, WHO/WPRO; Ms Barbara Aronson, HINARI Programme Director, WHO/HQ; Mr Steven Wayling, Manager – Research Training, Research Capability Strengthening, WHO/TDR; Mr Steven Glover, Librarian, Paterson Institute for Cancer Research, Christie Hospital, Manchester, UK; and Mr Chuong Huynh, National Institutes of Health, National Library of Medicine, Bethesda, Maryland, USA.

3. RATIONALE FOR THE ORGANIZATION OF TRAINING MODULES

The workshop was built upon the structure of a previous workshop held at New Delhi in November 2003. The modules used in Bangkok reflected the organization of the CD-ROM training resource developed by WHO/TDR

Research Capability Strengthening (RCS) training series
TDR/RCS/CD/HINARI/04.1. The List of Material Distributed is at Annex 3.

The modules are organized to build a logical skills progress. Module 1 covers Internet basics, and biomedical Internet resources. Participants learn how to operate the browser. These skills equip participants to move through modules 2 to 5 which cover the use of HINARI, finding articles via PubMed, and managing references.

All training modules are accessible from the WHO/TDR training CD. Each module exists as a presentation in PowerPoint, Adobe Acrobat PDF, or HTML. Workbooks for running training examples are available as Word or Adobe files.

4. TRAINING MODULES

4.1 Module 1 – Internet Concepts – Delivered by Mr Steven Glover

The first module is intended to bring all participants up to a basic standard to allow them to proceed through the remainder of the workshop. The module begins with a short history of the Internet and explains the various protocols such as TCP/IP, HTTP, HTML, Email, and FTP. Participants also undergo group exercises in searching using search engines and navigation from search results. Evaluation of health and medical information is a cornerstone of accessing peer-reviewed research and participants are trained in identifying validity of sources of information published on the Internet.

There is a vast quantity of peer-reviewed full text resources accessible without embargo. These resources are reviewed along with some of the more prominent Open Access Initiatives such as BioMed Central, PubMed Central, Public Library of Science (PLoS), and the Directory of Open Access Journals (DOAJ).

4.2 Module 2 – HINARI Website – Delivered by Ms Barbara Aronson and Mr Steven Glover

Module 2 covered how to use the HINARI website. The module began with a presentation giving an overview of the HINARI website and resources. Participants were guided through the registration process, logging into HINARI, and accessing online journals by title, subject and language. The module also included a section on other publisher partner resources and products.

Following the lecture, a practical session invited participants to practise logging into the HINARI website. Publishers resources were looked at next and participants learned the importance of authentication when accessing resources.

4.3 Module 3 – Publishers Resources – Delivered by Mr Steven Glover

Module three concentrated on the publisher partners' website resources. For the lecture and the practical session, Blackwell Science's *Synergy* product was used as a demonstration model. Participants were trained on how to search across the *Synergy* database to retrieve articles in full text. Participants were given the relative advantages and disadvantages in downloading information in HTML or Adobe Acrobat PDF format.

Other publisher enhancements like email alerting services and the facility to save searches were explored. Participants followed worked examples then completed the related workbook exercises.

4.4 Module 4 – How to use PubMed – Delivered by Mr Chuong Huynh and Mr Steven Glover

The largest module covering two days was the PubMed module. PubMed training was delivered over five lectures with associated practical examples. Effective searching technique on PubMed underpins access to HINARI resources. PubMed is a major route of access for most clinical and scientific users.

The lectures covered features of the PubMed interface and display options; using limits; medical subject headings (MeSH); restricting to full text articles; and MyNCBI. PubMed is a technical component of the HINARI training programme and participants worked through a number of practical exercises.

4.5 Module 5 – Managing References - Delivered by Mr Steven Glover

The final module covered how to manage reference using the Biblioscape Express software. Participants learned how to use a reference manager tool to build research bibliographies and insert references into documents.

5. ADDITIONAL PAPERS IN PROGRAMME

5.1 HINARI

Ms Barbara Aronson delivered a presentation giving background information on the HINARI programme and how the initiative was conceived. The paper covered the rationale behind the qualification parameters for Phase 1 and Phase 2 eligibility.

5.2 TDR and HINARI

Mr Steven Wayling gave an overview of the WHO/TDR programme and explained how HINARI falls into the Research Capacity Strengthening (RCS) agenda. The paper covered the WHO/TDR website and publications such as *TDR News*. The grant application process was explained so participants could get an understanding of the way in which TDR supports research and training in the 10 diseases the programme is involved with.

Development of agricultural information and knowledge resources in Asia-Pacific – FAO Regional Office for Asia and the Pacific

Mr Michael Riggs discussed the role of information and knowledge as tools for a basis in scientific decision-making. The Food and Agriculture Organization is seeking to reduce poverty, hunger, and social unrest by improving the health of the global population. Information and knowledge will play an important role.

Mr Riggs talked about HINARI's sister programme Access to Global Online Research in Agriculture (AGORA). Launched in October 2003, AGORA is working closely with HINARI to achieve a holistic approach to nutrition and health.

6. GROUP WORKING

On the afternoon of day 4, participants were assigned to four groups and given a series of tasks to teach to the rest of the class. Each group was given a set number of tasks which tied together the subject coverage of modules 1 to 4. Participants then gave a short 20-minute lecture to the rest of the class. Certificates of attendance and completion were handed out following the group lectures.

7. EVALUATION AND FEEDBACK

A workshop evaluation form was handed to participants on day 4. Participants evaluated the teaching/training materials and the general feedback on their quality was positive. They gave suggestions on how to conduct future workshops better, such as doing more group work and hands-on technical sessions, and they also indicated their plans on what to do when they return to their countries, such as conducting similar workshops to share with others the knowledge and skills they learned in the workshop. As a whole, the participants considered the workshop very useful as they learned how to access online health information through HINARI.

8. CLOSING OF THE WORKSHOP

Ms Anchalee Chamchuklin and Mr Charles Raby jointly closed the workshop. Participants were then taken on a visit to the Library, Faculty of Medicine, Chulalongkorn University, and the main Chulalongkorn University Library.

Annex 1

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Annex 2 PROGRAMME

Day 1, Monday 9 May 2005

- 08:45 – 09:00 Registration
- 09:00 – 09:15 Inaugural Session
- 09:15 – 10:15 Introductions
- 10:30 – 17:00 Module 1: Internet Concept
- History of the Internet
 - Structure of the Internet
 - Types of Information
 - Evaluation of Information
 - Search Tools and Techniques
 - Researching Health/Biomedical Information
 - Managing Internet Resource

Day 2, Tuesday 10 May 2005

- 09:00 – 10:00 TDR and HINARI
(TDR - Special Programme for Research and Training in
Tropical Diseases)
- 10:00 – 17:00 Module 2: HINARI Web Site
- HINARI overview
 - The HINARI website address
 - Option for selection languages
 - Registration
 - Logging in to HINARI
 - Scientific Publications
 - Accessing and finding e-Journals
 - Partner publisher services
 - Reference sources full-text
 - Web sites offer free access to biomedical journals
- Module 3: Publishers Resources

Day 3: Wednesday 11 May 2005

- 09:00 – 17:00 Module 4: PubMed
- 4.1 How to use PubMed
 - PubMed Interface
 - Display Options
 - Saving Search Results
 - Printing Select Search Result
 - PubMed Limits
 - 4.2 Using Limits in PubMed

Day 4, Thursday 12 May 2005

- 09:00 – 17:00 Module 4: PubMed (continued)
- 4.3 MeSH (Medical Subject Heading)
 - 4.4 Preview/Index History
 - 4.5 Using the MyNCBI
- Accessing full text articles and restricting results to the HINARI subset of journals

Day 5, Friday 13 May 2005

- 09:00 – 17:00 Module 5: Managing References
- Discussion
 - Next steps
 - Workshop evaluation
 - Conclusion

Annex 3

LIST OF MATERIAL DISTRIBUTED

- (1) Course Modules 1-5
- (2) TDR Training CD-ROM *Research Capability Strengthening (RCS) training series*. TDR/RCS/CD/HIN/04.1
- (3) Participants CD with Schedule and images of workshop