

**HINARI Training Courses Conducted at Tulane and Johns Hopkins Universities.**

In February and March 2015, one day HINARI workshops were conducted at two U.S. based Universities that have significant histories as public health institutions with numerous global health projects – Tulane University and Johns Hopkins University. These institutions are similar in breath to the London School of Hygiene and Tropical Medicine or Antwerp School of Tropical Medicine

The first workshop, titled HINARI Training: Access to Global Health Resources was hosted by the Tulane University School of Public Health and Tropical Medicine on February 6, 2015. The program planning and local arrangements were ably coordinated by Elaine Hicks, the public health librarian at this institution.

The goal of the training was to develop a group of HINARI users with 21st century information skills who will have a positive impact on evidence-based public health research, policy and clinical decision making. This enable learners to be advocates for information access in LMICs. The course was designed for Individuals from eligible countries who will be returning to their respective institutions and individuals who will have contact with those from eligible countries – either as students or visitors to their US based institutions or during visits to such organizations.

The six hour course covered overviews of all Research4Life programs, HINARI Basic Course, (Searching Skills, HINARI Portal, HINARI/PubMed, PubMed Filters/Search Options) and brief summaries of the HINARI Advanced Course (Evidence-based practice resources, e-books and other/grey literature resources), Authorship Skills, Reference Management Software material and how to conduct a HINARI training course. These sessions also included hands-on exercises and all the material was made available in a Dropbox folder. The participants were given MLA CE course certificates.

The number of participants averaged 35-40 students for the sessions. The participants were a mix of MPH students, several PHD students from eligible countries and four regionally based librarians who could conduct similar training at their institutions. Critical to the success of this workshop will be post-workshop follow-up especially with the librarians. One of the information professionals, a UNC-Chapel Hill library faculty member is planning to conduct some short courses during a trip to Cambodia.

The second workshop was hosted by the Johns Hopkins Bloomberg School of Public Health/Welsh Library on March 24, 2015. Peggy Gross coordinated the workshop, Donna Hesson assisted and both served as facilitators. Also Jean Sacks assisted as a facilitator.

The target audiences for this 2<sup>nd</sup> workshop was identical to the initial program - Johns Hopkins faculty, staff and students who have linkages with HINARI eligible institutions, will be visiting eligible institutions, or have contact with students from eligible institutions and particularly students who will be returning to eligible institutions after completing advanced degrees.

The program included three 90 minute sessions that focused on Basic HINARI (Background about R4L programs, HINARI portal, HINARI PubMed), Advanced HINARI (e-book resources, health information on the Internet, brief overview of evidence based practice resources), Zotero reference management software and HINARI and R4L training tools. Similarly to the 1<sup>st</sup> workshop, all the material was placed in a Dropbox folder and those that attended the 1<sup>st</sup> two sessions received a certificate.

45+ participants attended the 1st two sessions with 35 for the 3<sup>rd</sup> one. The composition of this group was predominantly Masters in Public Health students - many who will have projects/internships in R4L

eligible countries and several from R4L eligible countries including three Fogarty Fellowship scholars studying Medical Ethics for 3 1/2 months (from Uganda, Botswana and Zambia), four 'informationists' from Welsh Library and the librarian from the Wilmer Eye Institute.

All the material was well received by the various groups although most of the presentations were overviews with the limited training time. Some of the (expected) byproducts were participants discussing further collaborations or communication with a new colleague.

One outcome is the Welsh Library/JHU plans to conduct HINARI training every six months. This would be for new students and staff plus current faculty members who could not attend the initial workshop. Some of these individuals were on overseas assignments in R4L registered institutions.

Similarly to the Tulane workshop, there is a need for follow-up with the participants particularly to develop distance learning courses for JHPEIGO staff in eligible countries and a subset of a network of international ophthalmology librarians from eligible countries plus training assistance from two individuals who will be working in Haiti and Myanmar.

Submitted by Lenny Rhine, 26 April 2015

**National HINARI Train the Trainers; Tbilisi, Georgia; National Center for Disease Control and Public Health (NCDC); 21-23 April, 2015**

Sponsored by the World Health Organization EURO Regional Office and the Librarians Without Borders®/Medical Library Association (USA), a three day 'HINARI Train the Trainers' workshop was conducted. This course was in conjunction with a one day EVIPNet workshop that also was sponsored by WHO EURO.

Locally, the training was supported and organized by Drs. Rusudan Klimiashevili, Head of Country Office, Nino Mamulashvili, Program Coordinator and Ms. Irina Ninua. Ms. Ia Giorgadze, Senior Specialist at the NCDC coordinated all the details at the venue. David Zorikov, was the IT staff person responsible for the Internet access and wifi connection.

The workshop was held on the 2<sup>nd</sup> floor of the NCDC building in a modern conference room. All the logistics worked quite well except for 2 or 3 instances of slow Internet access which was resolved quickly. This included the excellent print manuals and also very nice and timely luncheons and breaks.

The trainers were Lenny Rhine, Librarians Without Borders®, for the HINARI workshop and Ryoko Takahashi, WHO Regional Office for Europe, for the EVIPNet program. Also Klaus Boisen, WHO Regional Office for Europe, presented an overview of the WHO EURO resources.

The 1<sup>st</sup> day of the program focused on Internet searching (Boolean searching, Google vs. Scholar, evaluation of health sites on the Internet), HINARI portal in depth and HINARI/PubMed (website/searching options, filters and history/advanced search tools) plus an overview of the HINARI and Research4Life training portals. The key material for the 2<sup>nd</sup> day included MY NCBI (all participants created accounts), E-book resources for HINARI users, Evidence-based practice resources for HINARI users (both discuss additional resources from the Internet) and a Marketing HINARI module that

included groups developing mini-implementation plans. The final day of this workshop began with a brief overview of the WHO EURO resources. It then focused on the Zotero bibliographic management software and authorship skills material (how to read and write a scientific paper, plagiarism, web-bibliography – Internet resources).

One issue that was discussed was the status (currently paid or not paid) of the various registered institutions. We plan to have follow-up activities to get more institutions in the 'currently paid' status. The 25 participants who completed the course were a mix of physicians/clinicians, researchers, librarians, IT staff and students from the NCDC, numerous Universities, the Ministry of Health and Social Welfare and several research centers or institutes.

This workshop had a rapid pace like few others. I would finish a PPT presentation and assign the exercises. 10-15 minutes later, everyone would have completed the assignments. This was true for all the participants - clinicians, researchers, IT personnel, librarians, everyone! At the end of each day, we consistently were 1 or 2 modules ahead of the program's schedule and this enabled us to have more time for authorship skills material and particularly Zotero. This was necessary as it took considerable time to download the Mozilla Firefox and Zotero software.

Throughout the workshop, there was very positive interaction between all the participants and the instructor. This was a cohesive, hard working group and several individuals formed clusters for collaborative work. We focused on skills development as this was a group with significant pre-workshop knowledge and ability to work rapidly at the same pace. Regarding Zotero, all the assignments were completed including the installation of the footnote Plugin for Word. This has been accomplished by only one other group.

The survey results were the most uniform and positive as any workshop. From the 25 responses, the 'agree' answer was chosen by all for most of the survey questions. For the 'appropriate length' question, 22 answered 'agree' and 3 noted 'somewhat agree' and this is the question that usually has a broad distribution range of responses. For the overall workshop ranking, 24 also ranked '5' – the highest score. This is a reflection on the ability of the participants and their focus on learning skills that were relevant to their positions and information needs, including the 7 or 8 that are enrolled in post-graduate degree programs. Also of note was the presence and support of Drs. Klimiashevili, Mamulashvil and Khonelidze throughout the workshop.

In six months, an 'output' survey will be sent to all the participants. This will indicate how much activity (use, training) has been completed by the participants and should be a more useful marker than the post-workshop evaluation survey.

During the EVIPNet workshop, I presented a brief overview of HINARI as there were only seven individuals that attended both trainings. Prior to the workshop, a two hour training session was conducted for the staff of the WHO Country Office. It focused on PubMed searching skills and MY NCBI as these are tools that the staff can use to obtain relevant research material.

Submitted by: Lenny Rhine 05 May 2015

**National HINARI Training the Trainer Workshop Conducted/University of Medicine 1, Yangon/Yangon, Myanmar, 23 - 25 September 2015:**

This three day workshop was conducted at the University of Medicine 1, Yangon, Myanmar. It was supported by the World Health Organization, South-East Asia Regional Office and Librarians Without Borders®/Medical Library Association (LWB). The instructor was Lenny Rhine, LWB. Local arrangements were facilitated and coordinated Ohnmar Myint and Marla Win, SEARO. Without their assistance, the successful logistics of this workshop would not have been achieved. Also of critical note is the contribution of three facilitators: Khin Maw Maw Tun, Librarian, University of Medicine – 1, Yangon (who also assisted with local arrangements), Chomar oo, Head Librarian, Department of Medical Research and Khin Win Myint, Librarian, University of Medicine, Mandalay.

The workshop was ably hosted by the University of Medicine – 1, Yangon – regarding the venue, very reliable Internet access and nice refreshments and luncheons.

Twenty-three librarians from the country's health-related academic institutions attended the workshop. Additionally, twenty-four individuals from the University of Medicine -1, Yangon attended as 'observers'. In reality, this group of mostly lecturers and physicians participated fully in the workshop's activities including completing the exercises for each module. Staff from sixteen institutions attended the training. Only two institutions needed to register for HINARI and participants from another two needed to receive their institutions' passwords.

In the three day workshop, the objectives were to have the participants learn the critical skills of HINARI and related resources and be able to conduct training to the various target groups at their respective institutions. Institutions in Myanmar have access to all HINARI publishers except one so that there is a wealth of information currently available to the users.

The modules covered were searching skills, HINARI portal, HINARI/PubMed (website, filters, history and advanced search), , the alternate Summon search tool for HINARI, MY NCBI accounts, evidence-based medicine, e-book and Internet resources for Myanmar users, Zotero reference management software plus an overview of authorship skills material (How to read and write a scientific paper, plagiarism, Web-bibliography).

We also focused on the HINARI marketing module and, for the first time, used the Marketing checklist. This is a tool for developing a detailed marketing plan for each institution. After six months, the participants will receive a survey that 'evaluates' their outcomes and particularly the use of the marketing plan.

At the end of the workshop, the participants completed post-workshop surveys (attached). Almost all the participants 'agreed' that the workshop was well organized, had relevant material with useful 'hands-on' exercises, that the trainer was knowledgeable/organized, effective presenters and responsive to questions and that the workshop resulted in their obtaining useful knowledge and skills. According to the participants, major strengths of the workshop included Demos/Hands on, Information Gained and Networking.

There were a significantly broader reply to the 'length of the workshop' question. The responses were 60% replying 'agree' and the remaining 40% noting 'somewhat agree' and 'somewhat disagree'. This

disparity can be attributed to the significant number of participants and the differing levels of knowledge and skills.

In conclusion, this was a complex workshop because of the reasons noted in the previous sentence. Overall, a large number of individuals obtained the skills necessary to use and, regarding the librarians, conduct training about the HINARI and Internet resources that were discussed. Without the assistance of the three facilitators and two WHO Country Office staff members, this workshop would not have been as successful.

### **Workshops Conducted in Hanoi, Vietnam**

On September 28 & 29, 2015, additional workshops were conducted in Hanoi, Vietnam. The initial workshop was a one day training at the Bach Mai Hospital, a huge tertiary care institution. This workshop focused on two groups: Masters' degree nursing students and clinical staff mostly from the hospital's Cardiology Institute. Over 100 participants attended the training. The material covered included an overview of Boolean search terms, Google vs. Scholar vs PubMed, HINARI and PubMed searching, Evidence-based Medicine resources and How to Read a Scientific Paper. The material was distributed to the participants via access to a Dropbox folder.

The workshop's environment was not ideal – a large conference room with only a few of the participants having laptops and access to the Internet plus the large number of attendees. Most of the hands-on activities were done as demonstrations with the computer attached to the LCD screen. Also, much of the material was summarized in Vietnamese – by Nguyen, Hai Ha, the Librarian at the Hanoi School of Public Health. Essentially, she was a co-instructor for several modules as she is very knowledgeable about HINARI and PubMed searching.

This workshop started slowly as we had to deal with the venue and incorporate the translation plus make some decisions on what material to focus on. With the evidence-based medicine module, the intensity and speed of the workshop picked up. This material was new to the participants and clearly of interest to most. We focused on using relevant examples such as aspirin AND acute myocardial infarction. The 'How to Read a Scientific Paper' presentation was the final module and also was well received.

A second half-day workshop was at the Hanoi University of Medicine. This briefer workshop focused on information needs for researchers particularly those working in parasitology and related subjects. Almost all the 20+ participants brought laptops to the University's conference room that had sufficient wifi access. We focused on two areas – HINARI and PubMed searching and Zotero reference management software. The participants were able to complete several hands-on exercises and also download the Zotero software and finish most of the Zotero exercises. One drawback was that some of the participants downloaded the Chrome stand-alone version which the instructor is not as familiar with as the Mozilla/cloud version of Zotero.

In both cases, Ms. Nguyen made contact with the institutions and organized the training activities with the key staff members. We conclude that the training was useful but could be more beneficial with a lengthier period of instruction. We are making plans to have a series of two day workshops in 2016, for these two different constituencies – clinicians and researchers.

Submitted by: Lenny Rhine, October 20, 2015.

**Regional HINARI Training the Trainer Workshop Conducted/Hosted by the Division of Pacific Technical Support (DPS) of the Regional Office of the Western Pacific (WPRO) , Suva, Fiji; 16 - 20 November 2015:**

**Background:**

This five day workshop was unique as the participants were from eight countries in the WHO/Western Pacific Region (WPRO) and this is the first regional HINARI training activity conducted in this region. It was supported by the Division of Pacific Technical Support (DPS) of the Regional Office of the Western Pacific and Librarians Without Borders®/Medical Library Association (LWB). The instructors were Lenny Rhine, LWB and Karin Saric, University of Southern California. Also present was Marie Villemin Partow, Publications Officer, Information Products and Services, WHO Western Pacific Regional Office (WPRO). Due to Internet access issues, it was conducted at two venues – the Computer Lab of Pacific Open Learning Health Net (POLHN) and the conference room of DPS.

The twelve participants for the workshop were from four Group A countries (Kiribati, Samoa, Solomon Islands and Tokelau) and four from Group B countries (Cook Islands, Fiji, Nauru and Tonga) plus four additional participants from the Fiji Ministry of Health and one from the Fiji National University/Medical Library. The majority of the participants were Ministry of Health personnel involved in health training in their respective countries plus several librarians and one physician. The primary participants were selected to become national trainers/coordinators for HINARI use in their respective countries.

During the five day workshop, the goal was to have the participants learn the critical skills of HINARI and be able to conduct training to the various target groups in their respective countries. A key component of this workshop was the development of a viable marketing plan for these countries.

**Training Material:**

The HINARI/Research4Life (R4L) modules covered were searching skills, evaluation of health information on the Internet, Access to WHO information resources (WHO digital library portal, Regional Index Medicus), HINARI portal, HINARI/PubMed (website, filters, history and advanced search, Medical Subject Headings), MY NCBI accounts, evidence based practice and e-books resources from HINARI and the Internet and an overview of health information resources on the Internet, Zotero reference management software, authorship skills (How to read and write a scientific paper, Copyright and Plagiarism, Web-bibliography including AuthorAID website), the alternate Summon search tool and marketing of HINARI resources. Also summarized was the R4L and HINARI training portals and a discussion of HINARI do's and don'ts and access problems and solutions. Additionally, Marie Villemin-Partow taught a very useful WHO/WPRO resources module and we included a brief overview of SCOPUS and its analytical features and CINAHL – two underutilized R4L resources.

**Outcomes/conclusions:**

Due to the previously mentioned Internet access issues, this was the 1<sup>st</sup> workshop that was conducted at two venues. Fortunately, the WIFI/Internet access at the WHO Office and use of laptops enabled us to effectively complete the more Internet intensive modules. We did significantly revamp the program as the less Internet intensive material was covered on the 1<sup>st</sup> and 2<sup>nd</sup> days. This did result in the material not being taught in the logical sequence.

As noted, this workshop was unique being a regional one and had an additional focus on conducting country-wide training. Initially, the participants had a wide range of knowledge about HINARI and Internet searching. Fortunately, there were two trainers and, when completing the hands-on exercises, we could devote time to working with the three or four less knowledgeable participants. After the second day, this group was much more self-sufficient when completing the exercises.

The workshop covered an extensive amount of information over five days. Having this length of time enabled us to complete all the training material and have sufficient time for the exercises. Also, we were able to add additional group exercises (training program scenarios) and complete the individual country marketing plans.

As noted, the marketing module was essential and the participants began to develop plans for the follow-up training in their countries. Each individual completed a country-wide marketing plan using a newly developed spreadsheet. The trainers will continue to communicate with the participants about the 'outcomes' from the workshop – 3, 6 and 12 months after this workshop.

Participants also developed 'training programs' from scenarios that were supplied. The outcomes from the three groups were excellent and demonstrated that the participants understood how to transfer what they had learned into the training environment.<sup>1</sup>

From the trainers' perspective, we were quite impressed by the group and everyone's ability to learn the material even with different initial knowledge levels. The participants became a very cohesive group with considerable interaction. This resulted in many collaborative learning activities. Perhaps this is due to the individuals coming from eight different locations in the South Pacific. Note: Both trainers already have received communication from participants about presentations (including marketing plans) they will make to staff and supervisors and also interest from colleagues/users about the resources.

During the workshop, some of the participants did 'ice breakers' which were simple exercises for the whole group. Also of interest were comments made by the participants on how this or that module would be useful in their work environment. This was particularly true of the Fiji MOH participants. The participants also demonstrated patience and flexibility with the move from one venue to the second.

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<sup>1</sup> **Group 1 – 2 Day workshop for library users** - Basic Module: 2, 3, 4, 5, 6 (HINARI / PubMed), Advanced Module: 2, 5, 6 MyNCBI, CINAHL, EBP

**Group 2 –Train MOH Management (these individuals do not have a lot of free time for training)** Part 1: 2 mornings or a full day - Basic: 1, 3, 4, 5, 6 – R4L, HINARI, PubMed – to raise awareness of HINARI & online resources; make them self sufficient and able to quickly find online information. Part 2: Advanced: 1, 2, 6, 7- follow up with one day shorter courses

**Group 3: 2 day workshop for physicians and researchers** Day 1: R4L Background/ Internet Searching / Searching Techniques / WHO WPRO/ HINARI Portal / Intellectual Property & Ethics; Day 2: Recap and only focus on 2 things PubMed / MeSH and EBP.

The overall success of the workshop is noted in the survey results. A vast majority (12 of 12 or 11 of 12) of the participants 'agreed' that the instructional materials were relevant, sessions met expectations, the hands on sessions were useful, trainers were knowledgeable, effective presenters and responsive to questions and that they acquired knowledge and skills that they could use. There is more of a mix (8 'agreed', 1 'somewhat agreed', 1 'somewhat disagreed', 1 'disagreed') in the response the length being appropriate for course content and instructional materials. This is to be expected with the broad spread of participants' initial knowledge.

Submitted by: Lenny Rhine, Karin Saric 07 December 2015