Strengthening the knowledge base on quality of care – an overview of Hinari: Research for Health

This webinar is hosted in partnership with the WHO Library and Information Networks for Knowledge
2 May 2018

Global Learning Laboratory for Quality UHC

World Health Organization
## Agenda

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Learning Objectives

The webinar will allow participants to:

- Learn about the Hinari Access to Research for Health programme;
- Orient participants to the functionality of the Hinari portal;
- Explain how to retrieve information relating to evidence-based practice and quality of care to improve service delivery at the front line;
- Identify search strategies pertaining to quality of care using various scientific search engines.
WHO Hinari Access to Research for Health Programme

Kimberly Parker
Hinari Programme Manager
World Health Organization
An overview on the WHO Hinari Access to Research for Health Programme
Background

- Hinari Access to Research for Health programme provides free or very low cost online access to the major journals in biomedical and related social sciences to local, not-for-profit institutions in low- and middle-income countries (LMICs).

- Hinari was launched in January 2002 for “free access” countries, areas and territories (Group A).

- In 2003, it was launched to Group B countries, areas and territories with “low-cost access”.
Currently, more than 6,400 registered institutions

Up to 14,000 journals / 56,000 books / 120 other information resources / 160 publishers partners [January 2018]

http://www.who.int/hinari
Research4Life

http://www.research4life.org

Access to Research in the Developing World

ACCESS UP TO 69,000 SCIENTIFIC JOURNALS
BOOKS AND DATABASES

Research4Life is empowering universities, colleges, research institutes and government ministries as well as non-governmental agencies and hospitals, with access to scientific knowledge that was never before imagined.

FIND OUT MORE
Utilizing Hinari as a resource for frontline workers
Why is information important?

• Imagine you were an engineer trying to build a bridge and didn't have access to information about the breaking points for the materials you were using.

• Imagine you were trying to grow vegetables to sell in your market without knowing anything about the plants most resistant to pests in your neighborhood.
Now think about when

- medical students studied from teachers who taught from the lectures notes they took 30 years before
- university libraries had few books and all old
- government officials were setting policy without access to the latest public health or agricultural research

This scenario was common for every country at one point or another in their history.
Who is Eligible?

Institutions registered with HINARI

- Institutions registered:
  - 1–10
  - 11–50
  - 51–75
  - 76–100
  - >100
  - Country eligible but no registration
  - Country not eligible

Country group:
- A
- B

The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not be full agreement.

Data Sources: World Health Organization
Map Production: Information Evidence and Research (IER)
World Health Organization

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The registration guidelines are available in: English Español français

This document is a step-by-step guide to register online for the Research4Life programmes: Hinari, AGORA, OARE, ARDI and GOALI.

Following these simple guidelines will avoid problems in the registration process and ensure faster response to all registrations for the Research4Life programmes. Please review the following instructions in order to complete your registration:

Before registration:

- Before filling the online form, please make sure that you have all the needed information. The more information you provide on the form, the faster we can process your registration.
- If your institution is a UNIVERSITY or PROFESSIONAL SCHOOL, before filling the form, check the list of Registered Universities and Professional Schools. If your institution is already listed DO NOT REGISTER again. Ask at your library for the access first and then send an enquiry to the HelpDesk.
- If your account (UserID & password) has stopped working DO NOT REGISTER again, send an email to the HelpDesk explaining the problem. They will work with you to reactivate your access.
- Do NOT FILL MULTIPLE REGISTRATIONS while you wait to hear from Research4Life. This just slows down the processing of all registrations while we check and eliminate duplications. You may send an enquiry to the HelpDesk.
Partnership is a key ingredient

Research4Life partners include five United Nations entities, Yale and Cornell University Libraries, more than 200 publishers.
AGORA and OARE Portals

AGORA - Enabling the developing world to access agriculture research

Search inside AGORA full-text using Summon

Advanced search  Country specific search

OARE - Enabling the developing world to access environment research

Search inside OARE full-text using Summon

Advanced search  Country specific search

Journals collection
Question & Answer
Searching Hinari Resources for Evidence-based literature

Karin Saric, MLIS
Information Services Librarian
Norris Medical Library
University of Southern California
Outline

- Overview of Evidence-based Practice (EBP)
- Hinari Resources
  - Cochrane Library
  - Hinari PubMed (EBP and traditional filters)
  - Hinari Summon
- Free Online Health Information Resources
- Independent Search
What is EBP?

The integration of best evidence* from current research, patient preferences and values, and clinical expertise to answer clinical questions (Sackett, 2000) in a timely fashion.

*Best available evidence is: consistent research evidence with high quality and quantity
Hierarchy of Evidence - Medical Literature

Most clinically relevant (at the top) Least clinically relevant (at the bottom)

- Clinical Reference Texts
- Case Reports, Case Series, Practice Guidelines, etc.
- Other Reviews of the Literature
- Clinical Research Critiques
- RCTs Case Cohorts, Control Studies
- Evidence Summaries
- Evidence Guidelines
- Other SRs & Meta-Analyses
- Systematic Reviews
- Cochrane

Track Down

Filtered & Critically Appraised

Expert Opinion and Not Filtered

Background info.
Develop a search strategy

Identify your concepts

- population or problem
- intervention
- outcome

OR together a few keywords/synonyms

Concept 1
- inpatient OR hospital patient

Concept 2
- hospital-acquired infection OR nosocomial

Concept 3
- prevention and control OR hospital hygiene
Hinari Resources

- Hinari Resources
- Cochrane Library – filtered
- Hinari PubMed
  - Clinical Queries – EBP Filter
  - Traditional filters - Article type
- Hinari Summon
The Cochrane Library via Wiley

- high-quality, filtered, critically appraised SRs from all over the world
- minimum bias: evidence is included/excluded on the basis of explicit quality criteria
- panel of experts reviews the evidence, peer-reviewed, dynamic (updated regularly)
- abstracts searchable for free on the Internet; complete database is available via Hinari
Free online access to Cochrane

Who is eligible for free online access?

Regions with funded provision

Residents of the countries and regions listed in the table below have free online access through a 'provision' or a special scheme. For further details regarding funding sources, click here.

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One-click free access in low- and middle-income countries

Cochrane and Wiley provide one-click free access to the Cochrane Library in over 100 countries. Access is provided by IP recognition removing the requirement for individual login information. All eligible countries in Group A and B for the HINARI Access to Research in Health Programme (www.who.int/hinari/eligibility) are considered annually. The countries listed in the table below have access.

http://www.cochranelibrary.com/help/access-options-for-cochrane-library.html
From the Hinari Content page, open the Reference sources list to access Cochrane Library and other EBM resources.
From the Reference Sources menu, we now will click on the Cochrane Library link. The Cochrane Library contains high-quality, independent evidence including reliable evidence from Cochrane and other systematic reviews and clinical trials. It is published by John Wiley.
Search Options:
1) run a basic keyword search
2) use the Advanced Search tool to search with a more robust search strategy
Parentheses placement matters! $5(2+3)$ is not equal to $(5)(2)+3$.
Let the database “AND” your concepts for you.

Click the + sign to add additional search boxes.
Enter keywords/synonyms for each concept into individual search boxes.
Interventions to improve antibiotic prescribing practices for hospital inpatients
Peter Davey, Charis A Marwick, Claire L Scott, Esmina Cherani, Kirsty McNeil, Erwin Brown, Ian M Gould, Craig R Ramsay and Susan Michie
Online Publication Date: February 2017

Interventions to improve professional adherence to guidelines for prevention of device-related infections
Gerd Fliedgren, Lucieni O Contorno, Alain Mayhew, Omar Omar, Cresio Romeu Pereira and Sasha Shepperd
Online Publication Date: March 2013

Short-course versus prolonged-course antibiotic therapy for hospital-acquired pneumonia in critically ill adults
Richard Pugh, Chris Grant, Richard PD Cooke and Ged Dempsey
Online Publication Date: August 2015

Decontamination of environmental surfaces in hospitals to reduce hospital acquired infections
Jesús López-Alcalde, Stephanie Dancer, Arturo J Martí-Carvajal, Lucieni O Contorno, Marcela Guevara-Eslava, Marta Mateos-Mazón, Javier Graña and Ivan Solá
Online Publication Date: August 2010

Improving adherence to Standard Precautions for the control of health care-associated infections
Donna Morales, Rejina El Dib, Raquel A Prata, Pasquale Barretti and Ione Córce
Online Publication Date: February 2018

Gloves, gowns and masks for reducing the transmission of meticillin-resistant Staphylococcus aureus (MRSA) in the hospital setting
Jesús López-Alcalde, Marta Mateos-Mazón, Marcela Guevara, Lucieni O Contorno, Ivan Solá, Sheila Cabir Nunes and Xavier Bonfill Cosp
Online Publication Date: July 2015
Improving adherence to Standard Precautions for the control of health care-associated infections

Donna Moralejo M, Regina El Dib, Rafaela A Prata, Pasqual Barretti, Ione Corrêa

First published: 26 February 2018
Editorial Group: Cochrane Effective Practice and Organisation of Care Group
DOI: 10.1002/14651858.CD0010768.pub2
Cited by (CrossRef): 0 articles

Abstract

Background

'Standard Precautions' refers to a system of actions, such as using personal protective equipment or adhering to safe handling of needles, that healthcare workers take to reduce the spread of germs in healthcare settings such as hospitals and nursing homes.

Objectives

To assess the effectiveness of interventions that target healthcare workers to improve adherence to Standard Precautions in patient care.

Search methods

We searched CENTRAL, MEDLINE, Embase, CINAHL, LILACS, two other databases, and two trials registers. We applied no language restrictions. The date of the most recent search was 14 February 2017.

Selection criteria

We included randomised trials of individuals, cluster-randomised trials, non-randomised...
The final section of the Abstract is titled **Plain language summary**. This section is useful for disseminating the results to groups of health workers and patients.
From the Cochrane Reviews drop down menu open **Browse by Topic**.
From the extensive **Browse by Topic** list, you have another option for locating subject-specific material.
Question & Answer
Hinari PubMed

- PubMed/Clinical Queries
- PubMed/EBP publication filters
Now search for evidence-based articles using PubMed. From the Hinari Content page, go to PubMed by clicking on Databases for discovery list.

Remember you must login to Hinari to have access to the full-text articles.
Open PubMed which is at the top of the Browse databases list.
Click on the Clinical Queries link.
This is a pre-formulated filter that can be used to quickly locate articles on EBP literature such as Clinical Studies, Systematic Reviews and Medical Genetics.
Epidemiology of Surgical Site Infections With Staphylococcus aureus in Europe: Protocol for a Retrospective, Multicenter Study

Cross-Sectional HIV Incidence Surveillance: A Benchmarking Approach for Estimating the Mean Duration of Recent Infection

Disparities in detection of antibodies against hepatitis E virus in US blood donor samples using commercial assays.

Improving adherence to Standard Precautions for the control of health-care-associated infections.

The association between community-associated Staphylococcus aureus colonization and disease: A meta-analysis.

Investigation of the conditions affecting the joining of Hungarian hospitals to an accreditation programme: A cross-sectional study.

Ventilator-associated pneumonia and suction: A review of the literature.

Examining the online approaches used by hospitals in Sydney, Australia to inform patients about healthcare associated infections and infection prevention strategies.

See all (11882)

This column displays citations that are specific to a clinical study category and scope. These search filters were developed by Haynes RB et al. See more filter information.

Results: 5 of 1480

Improving adherence to Standard Precautions for the control of health-care-associated infections.
Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use PubMed directly.

hospital-acquired infection prevention and control

Clinical Study Categories
- Category: Therapy
- Scope: Narrow

Results: 5 of 1089
The effects of physical therapy with neuromuscular electrical stimulation in patients with septic shock: Study protocol for a randomized cross-over design.

Methicillin-Resistant Staphylococcus aureus in a Trauma Population: Does Decolonization Prevent Infection?

Comparison of the efficacy of three topical antiseptic solutions for the prevention of catheter colonization: a multicenter randomized controlled study.

Whole genome analysis of cefazolin-resistant Escherichia coli from bloodstream infections in Australia, New Zealand and Singapore: high prevalence of CMY-2 producers and ST131 carrying blaCTX-M-15 and blaoX.

Systematic Reviews
Results: 5 of 1480
Improving adherence to Standard Precautions for the control of healthcare-associated infections.

The association between community-associated Staphylococcus aureus colonization and disease: a meta-analysis.

Investigation of the conditions affecting the joining of Hungarian hospitals to an accreditation programme: a cross-sectional study.

Ventilator-associated pneumonia and suction: a review of the literature.

Examining the online approaches used by hospitals in Sydney, Australia, to inform patients about healthcare associated infections and infection prevention strategies.

See all (1480)

Medical Genetics
Results: 5 of 2092
Varicella zoster virus transmission dynamics in Vojvodina, Serbia.

Genetic shifts in methicillin-resistant Staphylococcus aureus epidemic clones and toxin gene profiles in Japan: comparative analysis among pre-epidemic, epidemic and post-epidemic phases.

Predominance of community-associated sequence type 59 methicillin-resistant Staphylococcus aureus in a paediatric intensive care unit.

See all (2092)

This column displays citations pertaining to topics in medical genetics. See more filter information.
To run a more robust search click on the "Advanced" link.
Enter **keywords/synonyms** for each concept into **individual search boxes**.
Add "Article types" filters to filter for EBP literature.

Click "Customize"

Check boxes next to article types; i.e. meta-analysis, systematic reviews, randomized controlled trial, guidelines.

Click "Show".
1) First apply filters on the left by clicking on the links.

2) Then filter for “Hinari” or “Free Full Text”. There will be some overlap between these, but you should look at results within both options.
Risk factors for health care-associated infection in hospitalized adults: Systematic review and meta-analysis.

Rodríguez-Aceñas AL, de Abreu Almeida M, Engelman B, Cañón-Montaño W.

Abstract

BACKGROUND: Health care-associated infections (HAIs) are a public health problem that increase health care costs. This article aimed to systematically review the literature and meta-analyze studies investigating risk factors (RFs) independently associated with HAIs in hospitalized adults.

METHODS: Electronic databases (MEDLINE, Embase, and LILACS) were searched to identify studies from 2009-2016. Pooled risk ratios (RRs) or odds ratios (ORs) or mean differences (MDs) and 95% confidence intervals (CIs) were calculated and compared across the groups. This review followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses statement.

RESULTS: Of 867 studies, 65 met the criteria for review, and the data of 18 were summarized in the meta-analysis. The major RFs independently associated with HAIs were diabetes mellitus (RR, 1.76; 95% CI, 1.27-2.44), immunosuppression (RR, 1.24; 95% CI, 1.04-1.47), body temperature (MD, 0.62; 95% CI, 0.41-0.83), surgery time in minutes (MD, 34.53; 95% CI, 22.17-46.89), reoperation (RR, 7.94; 95% CI, 5.49-11.48), cephalosporin exposure (RR, 1.77; 95% CI, 1.30-2.42), days of exposure to central venous catheter (MD, 5.20; 95% CI, 4.91-5.48), intensive care unit (ICU) admission (RR, 3.76; 95% CI, 1.79-7.92), ICU stay in days (MD, 21.30; 95% CI, 19.81-22.79), and mechanical ventilation (OR, 12.95; 95% CI, 6.28-26.73).

CONCLUSIONS: Identifying RFs that contribute to develop HAIs may support the implementation of strategies for their prevention, therefore maximizing patient safety.
State of the Science Review

Risk factors for health care–associated infection in hospitalized adults: Systematic review and meta-analysis

Alba Luz Rodríguez-Acéval MSc, RN a, Miriam de Abreu Almeida PhD, RN a, Bruna Engelmann RN a, Wilson Caflón-Montañez PhD, RN b, c, x, y

https://doi.org/10.1016/j.ajic.2017.08.016

Highlights

- Health care–associated infections (HAIs) have become a global public health problem.
- Approximately 20%-30% of HAIs are preventable through hospital control programs.
- This review synthesizes and updates the evidence about risk factors for HAIs in adults.
- Identifying risk factors for HAIs may improve patient safety.
Clear filters before running a new search.
Click on the link for your country, or the “Research4Life Summon General Use” link if your country is not on the list.
You can run a basic keyword search in the search box, or you can click on the "Advanced" link to run a more robust search strategy.
Hinari-Summon Advanced Search Screen

Search Terms:
- inpatient OR hospital patient
- hospital-acquired infection OR nosocomial
- prevention and control OR hospital hygiene

Publication date range: 2013 to 2018

Show content type: Journal / eJournal, Journal Article

Show discipline: Any Type, agriculture, anatomy & physiology

Language: 

Show only: Items with full text online, Scholarly materials, including peer-reviewed

Exclude from results: Newspaper articles, Book Reviews, Dissertations

Expand your results: Include results from outside your library’s collection

Search
Question & Answer
Free Online

- Health Information Resources
Hinari Training

The Hinari training materials can be replicated and adapted for educational purposes.

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— Creative Commons Attribution 4.0 International License

Basic Course

Developing the necessary skills to access and effectively use of Hinari resources, including basic searching, PubMed and Hinari portal features.

Advanced Course

The Advanced Course concentrates on more sophisticated PubMed options, health sources on the Internet, evidence-based medicine and e-book resources from Hinari and the Internet.
Module 4 - Health Information Resources on the Internet

Definitions - grey literature/open access journals, sampling of resources – agencies, databases, free e-journal access & grey literature search tools

Click on the links to download PPT files containing links to many free online resources.

1. Eldis – policy search / health systems  
   https://www.eldis.org/
2. DOAJ – journal articles  
   https://doaj.org/
3. Intech – books  
   https://www.intechopen.com/books
4. Medline Plus – consumer health  
   https://medlineplus.gov/
Criteria for Evaluation

Accuracy
- purpose, references, author, contact information

Authority
- reliability, .edu/.gov/.org/.net, author credentials

Currency
- date written, frequency updated

Coverage
- type of information, amount of detail

Objectivity
- information resource or advertisement

Design/Navigation
- fee based site, registration, broken links
Evaluating Web Information

Evaluating Web Pages resources

- guides.library.cornell.edu/evaluating_Web_pages
- usm.maine.edu/library/checklist-evaluating-web-resources
- www.sc.edu/beaufort/library/pages/bones/lesson5.shtml
Question & Answer
Hinari: additional training
Displayed is the new Research4Life Training portal. All the inter-program training material plus information about courses and workshops information is located on this page – in six sections.
The other four sections of the Research4Life Training resources are displayed in this slide.

**Reference Management Tools**
Training modules to learn how to use Mendeley, Zotero and EndNote to reference bibliographical data.

**Programme Specific Training**
General information and links to each of the specific training modules for HINARI, AGORA, OARE and ARDI.

**Courses and Workshops**
Find more information about Research4Life distance learning courses and the workshops available in different countries.

**Other Resources**
Additional training material about marketing and managing change strategies for Research4Life as well as resources on information literacy.
This section contains the links to the specific programmes’ training material for Hinari, AGORA, OARE and ARDI.

Each of the four Research4Life programmes offers advance training through their portals. Click on each programme to go to the training site and find more training material, resources and videos.
Hinari Training

The Hinari training materials can be replicated and adapted for educational purposes.

All the documents are licensed under a Creative Commons Attribution 4.0 International License.

Basic Course

Developing the necessary skills to access and effectively use of Hinari resources, including basic searching, PubMed and Hinari portal features.

Advanced Course

The Advanced Course concentrates on more sophisticated PubMed options, health sources on the Internet, evidence-based medicine and e-book resources from Hinari and the Internet.

Research4Life training portal

Showcasing material for all the programmes (Hinari, AGORA, OARE and APDL) including marketing.

Distance learning courses

Highlighting Hinari Video Series, Moodle self-paced distance courses. These courses are self-paced, take 4-6 hours.
LIVE! Demonstration of Hinari PORTAL

Source: http://login.research4life.org/tacsgr0extranet_who_int/hinari/en/journals.php
Question & Answer
Global Learning Laboratory for Quality UHC:

To register and learn more:

Thank you…
Your turn!

Search for information on **quality of care for maternal health**, or on a topic of your own choice.

Consider searching:

1. **Hinari PubMed / Clinical Queries**
   - Run a simple keyword search: quality of care maternal health

2. **Hinari PubMed / Advanced Screen**
   - **Concept 1**: maternal health OR postnatal care OR postpartum care
   - **Concept 2**: quality of care OR quality-improvement OR health care quality
   - Apply **Article Type filters**: meta-analysis; systematic reviews; randomized controlled trial, guideline

3. **Hinari Summon / Advanced Screen**
   - **Concept 1**: maternal health OR postnatal care OR postpartum care
   - **Concept 2**: quality of care OR quality-improvement OR health care quality
   - Apply **filters** for journals & scholarly materials