



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

Welcome and framing of the webinar

Nana A. Mensah Abrampah

Introduction to Hinari

Kimberly Parker

Question and answer

All

Deep dive into searching evidence-based practice Hinari resources

Karin Saric

Question and answer

All

Additional training

Kimberly Parker

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.



Kimberly Parker
Hinari Programme Manager
World Health Organization

WHO Hinari Access to Research for Health Programme

- **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”.

Hinari



- ❑ 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>

A screenshot of the Hinari website. The browser address bar shows "http://www.who.int/hinari/en/". The page has a yellow header with the Hinari logo and navigation links in Arabic, Chinese, English, French, Russian, and Spanish. A search bar and a "Log in" button are on the right. The main content area is divided into three columns. The left column contains a sidebar with links: "Hinari", "About Hinari", "Access the content", "Eligibility", "Partners", "Training materials", "Promoting Hinari", and "Contributions". The middle column is titled "Hinari Access to Research for Health programme" and contains a paragraph about the program's mission, followed by links for "Eligible Countries 2017" and a "Map of country breakdown 2017" (png, 209kb). The right column has a "Give to Hinari" section with the text "You can make a difference", a "Hinari em Português" section with links for "Treinamento em Hinari" and "Novo Procedimento de login para Hinari", and a section for "Other Sister Programmes with". At the bottom, there is a banner for "research 4 life" and a "Hinari new authentication system is now live (4 July 2017)" announcement.

Research4Life

<http://www.research4life.org>



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cours en ligne AGORA :
Principes fondamentaux
de l'alphabétisation
informationnelle et de

BLOG



Learn what is and how
you can access the new
Research4Life programme
- GOALI



HOW TO
REGISTER

- **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.

Research4Life pre-history

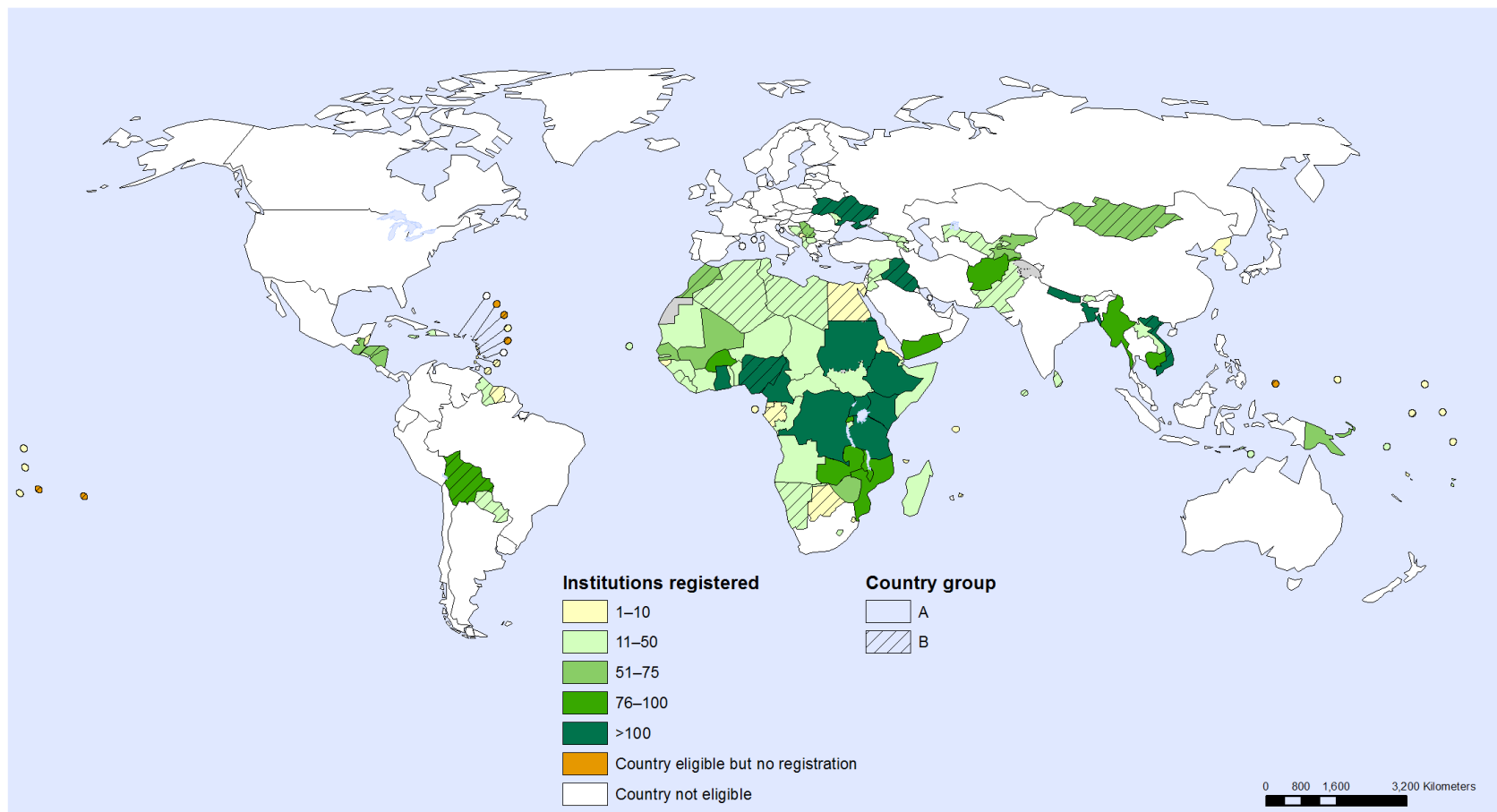
- Now think about when
 - medical students studied from teachers who taught from the lectures notes they took 30 years before
 - university libraries had few books and all old
 - government officials were setting policy without access to the latest public health or agricultural research
- This scenario was common for every country at one point or another in their history.

research4*life*



Who is Eligible?

Institutions registered with HINARI



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 yet be full agreement.

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

Registration Guide



<http://www.research4life.org/howtoregister2/>

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HOW TO REGISTER

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 duplicates. You may send an enquiry to the



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Africa's unsung scientists finally get their own journal to spread research

Partnership is a key ingredient



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

American Academy of Pediatrics (AAP); American Association for the Advancement of Science (AAAS); American Association for Cancer Research, The (AACR); American Society for Biochemistry and Molecular Biology (ASBMB); American Society of Hematology; American Society of Clinical Oncology (ASCO); BioMed Central; BioOne; BMJ Group; Botanical Society of America; CABI International; Canadian Medical Association Journal; Cochrane Collaboration, The; Company of Biologists, The; Duodecim EBM Guidelines (Finland); Elsevier Science; Landes Bioscience; Lippincott, Williams & Wilkins; Medical Journal of Australia, The; Morion (Ukraine); National Academy of Sciences, The; Nature Publishing Group; Oxford University Press; Portland Press Limited - publishing subsidiary of the Biochemical Society; Royal Society of Medicine Press, The; Society for the Study of Reproduction, The; Sage; Springer; Taylor & Francis; Thieme Verlag; University of Chicago Press; John Wiley & Sons; Yale University Library; Journal of Bone and Joint Surgery, Inc.; Royal College of Surgeons of England, The; Update Software; International Medical Press; American Dental Education Association; Facultad de Medicina, Universidad Autónoma de Bucaramanga; Ukrainian Medical Association of North America; American College of Chest Physicians; American College of Physicians; American Dental Association; American Diabetes Association; American Medical Association; American Physiological Society; American Psychiatric Publishing, Inc.; American Psychological Association; American Society for Investigative Pathology; American Society for Nutrition; American Society of Plant Biologists; American Society of Tropical Medicine and Hygiene; Annual Reviews; Association of Learned and Professional Society Publishers; American Society of Neuroradiology; Centre National de la Recherche Scientifique (CNRS); Association of Field Ornithologists; Deutschsprachige Mykologische Gesellschaft; Academy of Veterinary Technician Anaesthetists; Society for Mathematical Biology; Société française de Biochimie et Biologie Moléculaire (SFBBM); Society for Cryobiology Subject Matter; Silsoe Research Institute; Mitochondria Research Society; Japanese Photochemistry Association; International Society of Matrix Biology; International Federation for Cell Biology; Institut Pasteur; International Council for the Exploration of the Sea; French Society of Plant Physiology (SFPV); Federation of European Microbiological Societies; Federation of European Biochemical Societies; Microsoft Corporation; IOS Press; Royal Society of Tropical Medicine and Hygiene; Académie des Sciences de France; ACS Division of Chemical Health and Safety; Association for the Study of Animal Behavior; Australian Society for Parasitology; Société Française des Microscopies and the Société de Biologie Cellulaire de France; Thomson Reuters Scientific; Akadémiai Kiadó; United Nations Environment Programme; New Phytologist Trust; International Veterinary Academy of Pain Management; Japanese Society of Developmental Biologists; International Society for Animal Genetics; European Society for Evolutionary Biology (ESEB); European College of Veterinary Anaesthetists (ARKAT USA, Inc.); Australasian Medical Publishing Company; Australian Physiotherapy Association; Berkeley Electronic Press; Bioline International; British Editorial Society of Bone & Joint Surgery; Cambridge University Press; Canadian Psychological Association; EBSCO Publishing; Cold Spring Harbor Laboratory Press; Cornell University, Albert R. Mann Library; CSIRO PUBLISHING; Department for International Development (DFID), UK; European Respiratory Society; Faculty of General Dental Practice (UK); Faculty of Medicine Siriraj Hospital, Mahidol University; Food and Agriculture Organization of the United Nations (FAO); Health Affairs; Histochemical Society; Hogrefe Publishing Group; Rockefeller Foundation; ICDDR,B (International Centre for Diarrhoeal Disease Research, Bangladesh); International Association of Scientific, Technical and Medical Publishers (STM); Johns Hopkins University Press; Maney Publishing; Massachusetts Medical Society; MedKnow Publishers; NRC Research Press; Pharmaceutical Press; Revista Cubana de Anestesiología y Reanimación; Rockefeller University Press; Schattauer Publishers; School of Nursing, Fluminense Federal University; SdELO; SLACK Incorporated; Society for Endocrinology; Society for General Microbiology; Society for Neuroscience; UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR); University of California Press; University of Toronto Press; US National Library of Medicine; WHO Eastern Mediterranean Regional Office; World Health Organization; Society for Personality Research; Freie Universität Berlin; International Academy, Institut für Qualitative Forschung; Guttman Institute; Policy Studies Organization; Population Council; Royal Entomological Society; Royal Swedish Academy of Sciences; Scandinavian Society for Plant Physiology; Society for Applied Microbiology; Society for Integrative and Comparative Biology; Veterinary Technician Anaesthesia Society; World Association of Veterinary Anatomists; Croatian Cardiac Society; Russian Academy of Sciences; American Society of Naturalists; Environmental Information Coalition (EIC); United Kingdom Serials Group; Johns Hopkins Bloomberg School of Public Health; Guilford Publications, Inc.; Deutscher Arco-Verlag; American Society of Nephrology; Multimed Inc.; SCN (United Nations System Standing Committee on Nutrition); Future Science Group; 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Florida Entomological Society; Harvard University Botany Libraries; Herpetologists' League; Humboldt Field Research Institute; International Association for Bear Research and Management; International Association of Vegetation Science; Kansas Academy of Science; Kansas Entomological Society; Kentucky Academy of Science; Mammalogical Society of Japan; UniBio Press; Micropaleontology Press; Museum of Comparative Zoology, Harvard University; National Association of Biology Teachers; National Shellfisheries Association; New York Botanical Garden; New York Entomological Society; North American Benthological Society; Ornithological Society of Japan; UniBio Press; Orthopterists' Society; Paleontological Society; Radiation Research Society; Society for In Vitro Biology; Society for Northwestern Vertebrate Biology; Society for Range Management; Society for Sedimentary Geology; Society for the Study of Amphibians and Reptiles; Society for the Study of Evolution; Society of Environmental Toxicology and Chemistry; Society of Ethnobiology; Society of Protozoologists; Society of Vertebrate Paleontology; Society of Wetland Scientists; Southern Appalachian Botanical Society; Southwestern Association of Naturalists; University of Hawaii Press; University of Notre Dame; Weed Science Society of America; Wilderness Medical Society; Wildlife Society; Wilson Ornithological Society; Zoological Society of Japan; Journal of Neurosurgery Publishing Group; American Speech-Language-Hearing Association; Royal College of General Practitioners; American Society of Animal Science (ASAS); Royal College of Physicians of London; Brill; Australian Society of Anaesthetists; Mary Ann Liebert, Inc.; American Academy of Orthopaedic Surgeons; Adis, a Wolters Kluwer business; Radcliffe Publishing; Conference Archives, Inc.; Core Medical Publishing; American Academy of Family Physicians; Dove Medical Press; British Library for Development Studies (BLDS); IWA Publishing; Academy of Dental Materials; American Academy of Allergy, Asthma and Immunology; 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American Entomological Society; American Feline Practitioners

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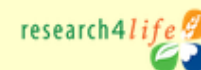
Hinari Portal



extranet.who.int/hinari/en/journals.php



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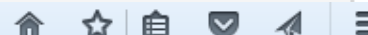
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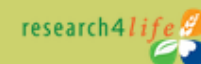
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Question & Answer



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

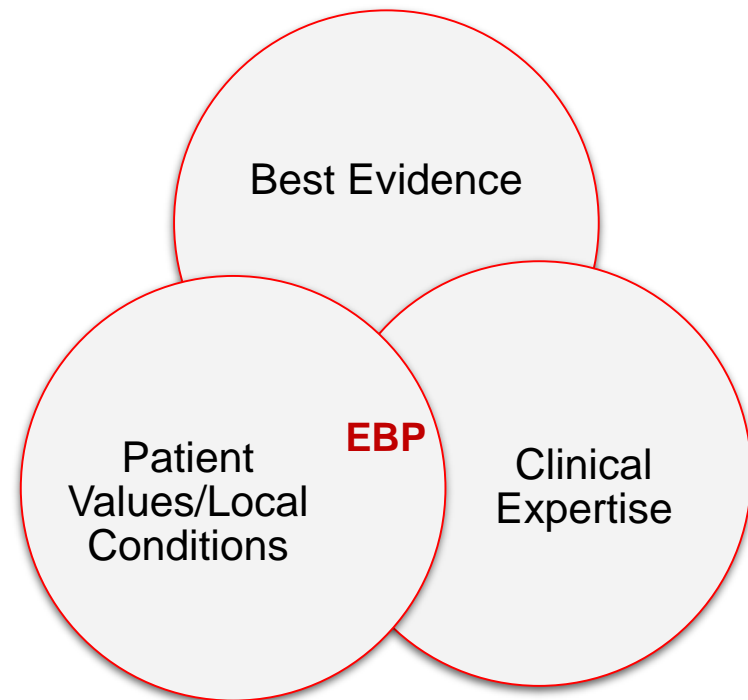
Searching Hinari Resources for Evidence-based literature

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.

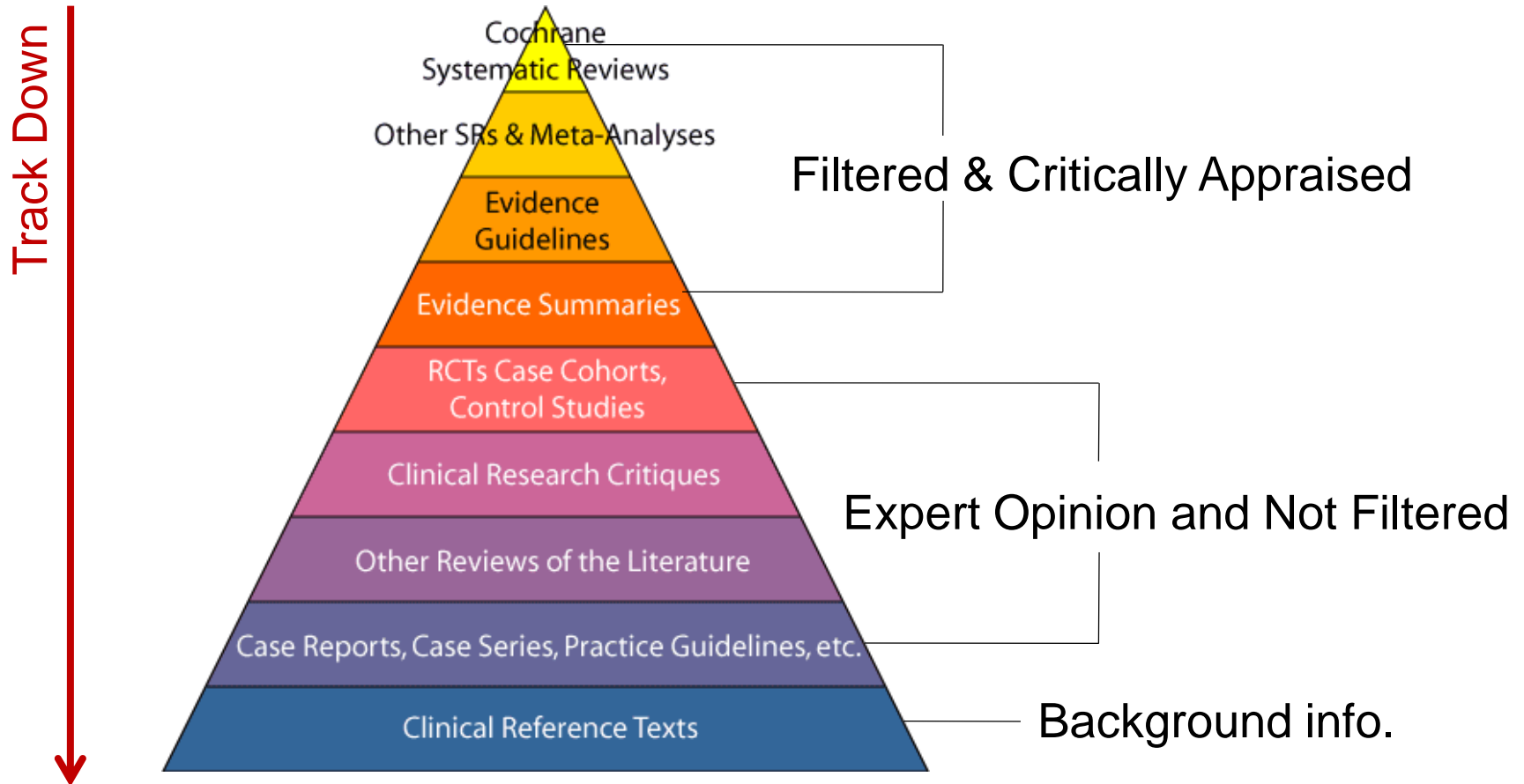


*Best available evidence is: consistent research evidence with high quality and quantity

Hierarchy of Evidence - Medical Literature



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



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

Cochrane Database of Systematic Reviews



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](#).

Africa	Asia	Europe	North America	South America	Oceania
Egypt South Africa	India	Denmark Finland Ireland Norway Spain Switzerland United Kingdom -England -N. Ireland -Scotland -Wales	Canada -New Brunswick -Nova Scotia	Brazil	Australia New Zealand

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>

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News

We are currently experiencing technical difficulties with the resources from the following publishers: Elsevier - Clinical Key. If you encounter a problem with other publishers, please report it using the "Contact us" link at the bottom of this webpage.

From the Hinari Content page, open the **Reference sources** list to access **Cochrane Library** and other EBM resources.

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- ☐ AAP Policy
- ☐ Access to Medicine Index 2016
- ☐ African American Studies Center
- ☐ American National Biography
- ☐ Anaesthesia Tutorial of the Week (ATOTW)
- ☐ Author Academy
- ☐ AuthorMapper
- ☐ Benezit Dictionary of Artists
- ☐ Biblioteca Cochrane Plus
- ☐ Bloodmed
- ☐ BNF for Children
- ☐ British National Formulary
- ☐ Clinical Key
- ☐ **Cochrane Library**
- ☐ Comprehensive Hard Materials
- ☐ Comprehensive Materials Processing
- ☐ Comprehensive Organic Synthesis II (Second Edition)
- ☐ Comprehensive Toxicology
- ☐ Crit-IQ

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.

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Cochrane Library

Trusted evidence.
Informed decisions.
Better health.

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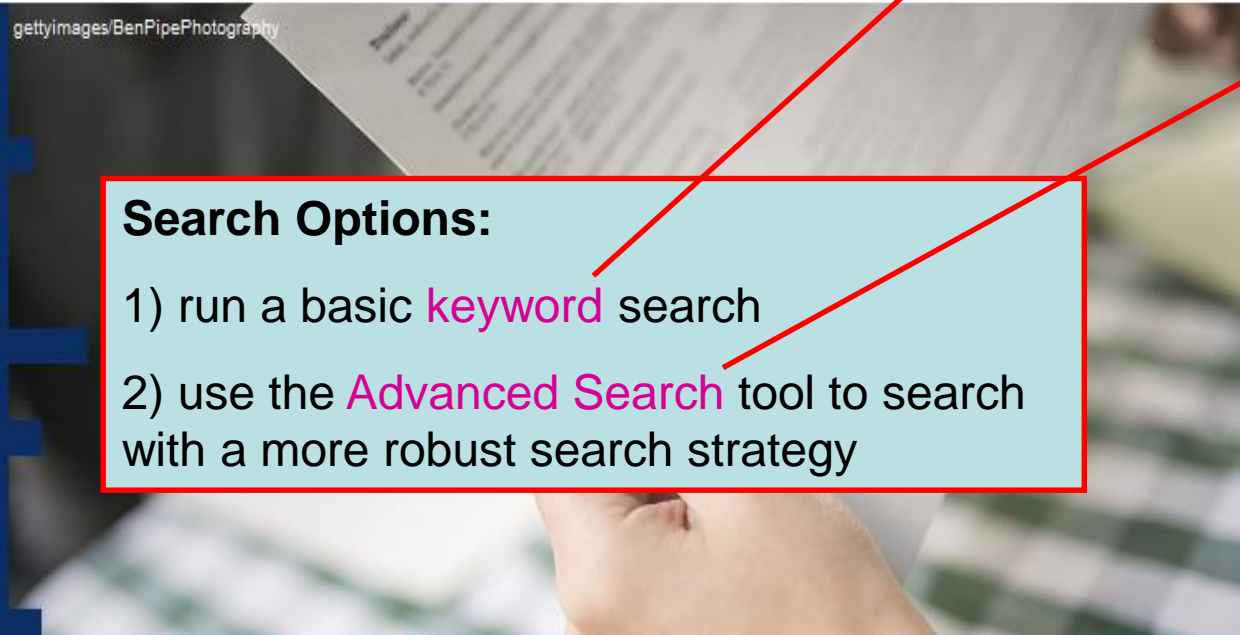
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Search Options:

- 1) run a basic **keyword** search
- 2) use the **Advanced Search** tool to search with a more robust search strategy




Nutritional labelling for healthier eating
Energy information for reducing calorie intake

Read the review →



Best of Cochrane Library: 2017

Read the Special Collection →



Yoga for health and well-being

Read the Special Collection →

Highlighted Reviews

Editorials

Special Collections

Parentheses placement matters! $5(2+3)$ is not equal to $(5)(2)+3$

Let the database “**AND**” your concepts for you.



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Search	Search Manager	Medical Terms (MeSH)	Browse
<div>Title, Abstract, Keywords ▾</div> <div>inpatient OR hospital patient</div>			<div>Go</div> <div>Save</div>
<div>− AND ▾ Search All Text ▾</div> <div>hospital-acquired infection OR nosocomial</div>			Add to Search Manager
<div>− + AND ▾ Search All Text ▾</div> <div>prevention and control OR hospital hygiene</div>			
Search Limits	Search Help	(Word variations have been searched)	
<div>Clear</div>			

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Click the **+** sign to add additional search boxes.

Enter **keywords/synonyms** for each concept into **individual search boxes**.

Title, Abstract, Keywords

inpatient OR hospital patient

Go

Save

AND

Search All Text

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AND

Search All Text

prevention and control OR hospital hygiene

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(Word variations have been searched)

Clear

All Results (389)

Cochrane Reviews (67)

- All
- Review
- Protocol
- Other Reviews (2)
- Trials (307)
- Methods Studies (0)
- Technology Assessments (2)
- Economic Evaluations (11)
- Cochrane Groups (0)

- All
- Current Issue

- Me Methodology
- Dx Diagnostic
- Ov Overview
- Pg Prognosis
- Qu Qualitative
- Cc Conclusions changed
- Ns New search
- Mc Major change
- Up Update
- Wd Withdrawn
- Cm Comment

Cochrane Database of Systematic Reviews : Issue 4 of 12, April 2018







Issue [updated daily](#) throughout month

There are 67 results from 10241 records for your search on 'inpatient OR hospital patient in Title, Abstract, Keywords and hospital-acquired infection OR nosocomial and prevention and control OR hospital hygiene in Cochrane Reviews'

Pages 1 - 25 | 26 - 50 | 51 - 67

Sort by Relevance: high to low

Select all | Export all | Export selected

- ☐  [Interventions to improve antibiotic prescribing practices for hospital inpatients](#)
Peter Davey , Charis A Marwick , Claire L Scott , Esmita Charani , Kirsty McNeil , Erwin Brown , Ian M Gould , Craig R Ramsay and Susan Michie
Online Publication Date: February 2017
[Review](#)
- ☐  [Interventions to improve professional adherence to guidelines for prevention of device-related infections](#)
Gerd Flodgren , Lucieni O Conterno , Alain Mayhew , Omar Omar , Cresio Romeu Pereira and Sasha Shepperd
Online Publication Date: March 2013
[Review](#)
- ☐  [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
[Ns](#) [Review](#)
- ☐  [Decontamination of environmental surfaces in hospitals to reduce hospital acquired infections](#)
Jesús López-Alcalde , Stephanie Dancer , Arturo J Martí-Carvajal , Lucieni O Conterno , Marcela Guevara-Eslava , Marta Mateos-Mazón , Javier Gracia and Ivan Solà
Online Publication Date: August 2010
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- ☐  [Improving adherence to Standard Precautions for the control of health care-associated infections](#)
Donna Moralejo , Regina El Dib , Rafaela A Prata , Pasqual Barretti and Ione Corrêa
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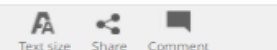


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Improving adherence to Standard Precautions for the control of health care-associated infections

[Review](#)[Intervention](#)Donna Moralejo , Regina El Dib, Rafaela A Prata, Pasqual Barretti, Ione Corrêa

First published: 26 February 2018

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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



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Plain language summary



English | Russian

Improving healthcare workers' use of Standard Precautions to decrease infection in healthcare settings

What is the aim of this review?

To find out what strategies can be used to improve how well healthcare workers follow a system of actions known as 'Standard Precautions' to decrease infection in healthcare settings.

Key messages

Review authors identified a variety of strategies that healthcare workers alone or with a combination of strategies is most effective in improving Standard Precautions or their knowledge of Standard Precautions (potential infection) and the inconsistency of results, reduced our confidence or certainty about the evidence found.

What was studied in the review?

It is estimated that over four million patients in Europe and 1.7 million in the USA develop an infection each year, and that prevalence is higher in developing countries. Infection is associated with increased length of hospital stay, excess mortality, and billions of dollars in associated hospital costs. Adhering to Standard Precautions, such as using personal protective equipment or following practices for safe handling of needles, can reduce the spread of germs in healthcare settings. The aim of this review was to find out which methods are effective in improving healthcare workers' adherence to Standard Precautions.

What are the main results of the review?

Review authors found eight relevant studies with a total of 673 participants. Three studies were reported from Asia, two from Europe, two from North America, and one from Australia. Intervention strategies consisted of education for healthcare workers, given alone or with other types of education, such as showing how respiratory droplets are spread, or with additional infection control supports. Other intervention strategies were peer evaluation and use of a checklist and coloured cues. All studies used different measures to assess how well healthcare workers followed or adhered to Standard Precautions. Two studies also assessed whether there was any improvement in healthcare workers' knowledge (of Standard Precautions), and one measured rates of colonisation of MRSA (carriage of MRSA with increased potential for infection) among residents and staff of long-term care facilities

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.



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

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BMC Infect Dis. 2018 Feb 21; 18(1):86. Epub 2018 Feb 21.

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

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

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

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

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

Rodríguez-Acelas AL¹, de Abreu Almeida M¹, Engelman B¹, Cañon-Montañez W².

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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.

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Table S1



American Journal of Infection Control

Volume 45, Issue 12, 1 December 2017, Pages e149-e156



State of the Science Review

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

Alba Luz Rodríguez-Acelas MSc, RN ^a, Miriam de Abreu Almeida PhD, RN ^a, Bruna Engelman RN ^a, Wilson Cañon-Montañez PhD, RN ^b,   Show more<https://doi.org/10.1016/j.ajic.2017.08.016> Get rights and contentRecommended articles [Risk factors for health care–associated infection in hospitalized adults: Systematic review and meta-analysis](#)
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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.

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AJIC: American Journal of Infection Control, 2015, Volume 43, Issue 6
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Antimicrobial Resistance and Infection Control, 11/2016, Volume 5, Issue 1
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