HSE National Framework for developing PPPGs (2016)

Part 2 Finding and Appraising the Evidence for PPPGs

July 2019



HSE Quality Improvement Team in conjunction with the HSE National Health Library and Knowledge Service

Dr. Steevens' Hospital Dublin





Part 2: Learning Outcomes



- ✓ Define Evidence-Based Practice
- Use EBP framework to compose a question for a literature search
- Use EBP framework to locate the evidence via electronic resources
- ✓ Use EBP framework to appraise the evidence





Evidence-Based Practice



"Evidence-Based Practice requires that decisions about health care are based on the best available, current, valid and relevant evidence. These decisions should be made by those receiving care, informed by the tacit and explicit knowledge of those providing care, within the context of available resources. All health care professionals need to understand the principles of Evidence Based Practice (EBP), recognise it in action, implement evidence-based policies, and have a critical attitude to their own practice and to evidence. Without these skills professionals will find it difficult to provide best practice." (Sicily Statement on Evidence-Based Practice, 2005)





The 5 Steps of EBP:





Please see HSE's 'Evidence-Based Practice: A Practice Manual' (2014): http://www.lenus.ie/hse/bitstream/10147/317326/1/EBPManual.pdf





The 5 Steps of EBP:



- **1.** ASK patient-centred, focused question(s) construct well-built clinical questions
- **2.** ACQUIRE the best evidence relevant to your questions select the appropriate resource(s), conduct search(es)
- **3.** APPRAISE the evidence for validity (closeness to the truth) and applicability (usefulness in clinical practice)
- **4. APPLY** the evidence through collaborative decision-making, integration with clinical expertise, patient preferences
- 5. ASSESS outcomes and make changes to practice as necessary







Step 1: Ask a Focused Question

A focused, answerable question (usually) contains three parts, also known as **PICO**:

- Patient/Population/Problem
- Intervention/Exposure
- Comparison (this part can be left out if no comparisons are being made)
- Outcome
- Time (sometimes applicable)





Scenario 1



A patient is going on a long-haul flight. They have a tendency to get swollen ankles and have heard that wearing elastic compression stockings can prevent the occurrence of Deep Vein Thrombosis









In passengers on long-haul flights, does wearing elastic compression stockings, compared to no stockings, prevent DVT?

- Passengers on long-haul flights (P)
- Elastic Compression Stockings (I)
- No Stockings (C)
- Deep Vein Thrombosis (DVT) (O)



Scenario 2



A 64 year old post- menopausal woman with a mild history of heart disease wants advice about HRT, especially oestrogen replacement therapy, which she fears may affect her heart condition











What are the risks of exacerbating heart disease in a 64 year-old postmenopausal woman receiving oestrogen replacement therapy?

- Post-menopausal woman (P)
- Oestrogen-replacement therapy (I)
- None (C)
- Exacerbating Heart Disease (O)



Scenario 3



As records manager in an acute hospital, you have been asked to investigate upgrading to a digital dictation system as a means of improving efficiency and turnaround time in the production of reports and letters







Sample PICO 3



Does digital dictation, compared to traditional analogue tapes, lead to shorter turnaround time for the production of letters and reports in a medical records department?

- Medical Records Department (P)
- Digital dictation system (I)
- Analogue tapes (C)
- Faster turnaround time for letters and reports (O)

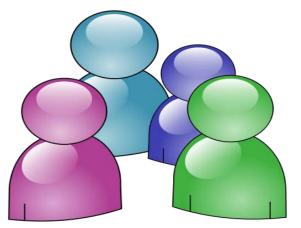




Exercise



- Working in pairs, think of a work-related query or scenario that you recently experienced
- PICO your chosen scenario/query
- Feedback to larger group





Scenario 4

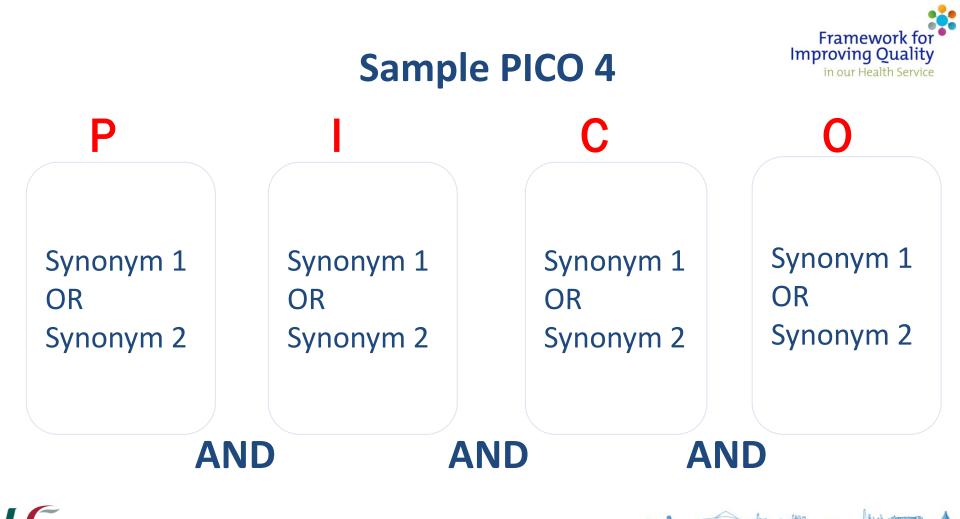


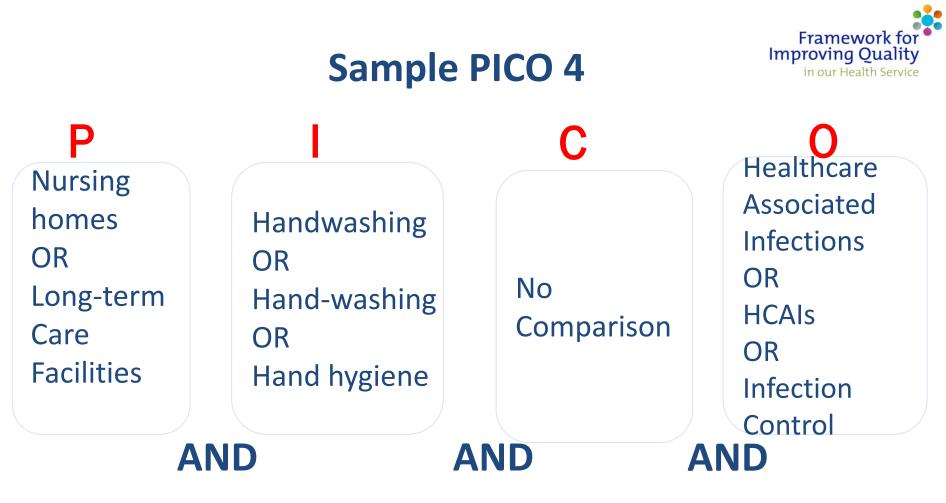
The nursing home where you work is drawing up a new infection control policy. You have heard that simple hand-washing is effective for preventing the spread of Healthcare Associated Infections. You have been tasked with searching the literature for formulating the new policy











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Step 2: Locate the Evidence

Your choice of database or information resource will depend on:

- Time available
- What resources you have access to
- Type of information you require
- What you need the information for
- Your area of expertise



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Step 2: Some Health Information Resources



Databases

- PubMed
- MEDLINE (sub-set of PubMed)
- Cochrane Library
- CINAHL
- Embase

Controlled vocabularies

- MeSH (PubMed, MEDLINE)
- CINAHL Headings (CINAHL)
- EMTREE (Embase)
- MeSH can also be used within CINAHL, Cochrane Library and Embase

Grey Literature

- Clinicaltrials.gov
- World Health Organization ICTRP Search Portal
- CDC Stacks (Centres for Disease Control)
- OAlster database
- OpenDOAR
- OpenGrey
- Research theses
- Conference proceedings

NB: start creating user accounts in the databases you use (where possible) – options to save searches, save citations, save search history, share bibliographies, create alerts and Table of Contents (TOC) alerts

Search Strategies (1/6)



Boolean operators (AND, OR, NOT)

-Using AND between terms will narrow a search - each term <u>must</u> appear in your search results -Using OR between terms will broaden a search - <u>either</u> term must appear in your search results -Using NOT between terms is a way of excluding a term (or terms) but this can be tricky. It is **not** advisable to use this operator unless you are sure it won't exclude potentially relevant, related or useful material

Examples:

heart **AND** *lung* finds items that contain **both** *heart* and *lung heart* **OR** *lung* finds items that contain **either** *heart* **or** *lung heart* **NOT** *lung* finds items that contain *heart* **but do not contain** *lung*

Phrase searching (using quotation marks "") - when you want to search for an exact sentence or phrase rather than a set of keywords

Examples:

"multiple sclerosis" instead of 'multiple' AND 'sclerosis'

"nursing homes" instead of 'nursing' AND 'homes'



Search Strategies (2/6)



<u>**Truncation**</u> is represented by an asterisk (*) and used to search for variant endings of a term. To use truncation, enter the root or core letters (at least three letters required) of a search term and replace the ending with an * Example:

nurs* = will retrieve nurse, nurses, nursing, nursed etc.

Wildcards are represented by a question mark (?) or the hashtag symbol (#)

? – if you are unsure of the exact spelling of a term, you can use the question mark to search for *one* unknown letter. This is also useful for U.S. vs. British spelling variations (e.g. s/z)

Examples:

- ne?t = will retrieve results containing neat, nest or next etc.
- paraly?e = will retrieve results containing paralyse and paralyze
- # you can use the hashtag symbol to search for terms where an alternate spelling *may* contain an extra character and you wish to retrieve results containing both variations

Example:

tumo#r = will retrieve results containing tumor and tumour

NB: wildcards and truncation cannot be combined for a term in a search - a search for p#ediatric* would be the same as a search for p*. When using the # wildcard, plurals and possessives of that term are not searched - a search for colo#r will not retrieve "colors" or "colours"





Search Strategies (3/6)



Proximity Operators

Depending on the database, you can use a *proximity search* to search for two or more words that occur within a specified number of words (or fewer) of each other in e.g. the title, abstract, title & abstract. Usually, the proximity operators are composed of a letter (**N** or **W**) and a **number** (to specify the number of words). The proximity operator is placed between the words that are to be searched, and depending on the database, may be as follows:

Near Operator (**N**) or **W/n (within)** – where the words in the query must be within a specified number of words, regardless of the order in which they appear.

For example:

health N5 reform will find results that would match '*health reform*' as well as '*reform of health*' **PRE/n** - where the first term in the query must precede the second by a specified number of terms. E.g. '**behavioural PRE/3 disturbances**' would find articles in which '*behavioural*' precedes '*disturbances*' by three or fewer words

NEAR, NEXT, ADJ – depending on the database, these are other terms for proximity operators





Search Strategies (4/6)



Parentheses

Parentheses (brackets) allow you to execute a search in a logical, structured manner. They are particularly useful when you are using synonyms and the Boolean 'OR' operator. Most databases will allow you to use brackets and the 'OR' operator to search for references containing either word. For example: using the nursing home and hand hygiene scenario, where synonyms have been chosen etc., the search strategy may look as follows:

nursing homes OR long-term care facilities AND handwashing OR hand-washing OR hand hygiene AND healthcare associated infections OR HCAIs OR infection control

Using brackets will make the search more logical/structured, as follows:

(nursing homes OR long-term care facilities) AND (handwashing OR hand-washing OR hand hygiene) AND (healthcare associated infections OR HCAIs OR infection control)





Search Strategies (5/6)



Search filters/refining your search results

Once you have your search results, you may refine these by applying such filters as (where available) e.g. material type, date range/publication years, language, gender, age, geography – there are many to choose from in the various databases. How far back do you want to search? What language would you prefer the articles to be in? What type of articles would you like to retrieve? (e.g. Clinical Trial, Practice Guideline, Randomized Controlled Trial, Controlled Clinical Trial, Meta-analysis, EBM review, Systematic Review, Research...)

To note:

- Full-text this may seem like a good option, however, by selecting this filter/limit, you won't retrieve (what may be hundreds of) excellent, relevant evidence-based citations. The material may be available as full-text via another database – check!
- English language as there is some foreign language material in CINAHL and Medline, this filter can be a useful one. However, this can be interpreted as being compromised as there could be excellent evidence available in a foreign language
- Human/Animal/Gender/Age use these limits where appropriate. Depending on the topic at hand, you may only be interested in studies of humans of a particular gender **Or age**





Search Strategies (6/6)



Saving/managing your search results

- You will usually be able print, email or save references/citations, and/or add them to folders that you create in your personal account within a database
- To note: PubMed's version of folders is called 'Collections'. With PubMed, you also have the option to share folders/bibliographies with colleagues, so long as they too have PubMed accounts
- Check with each database you use how to a) save searches, b) view your search history (where available), c) save citations, d) save full-text articles (where these are available)
- You may also wish to set up alerts for particular keywords, authors or phrases and/or Table of Contents (TOC) alerts – alerts may be set daily, weekly, monthly etc. and will help keep you up-todate with recently published material

Always have a look at the 'Help' or 'Tutorials' pages within each database and don't forget to contact your local information specialist for assistance with any of these strategies or for further information and guidance





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Framework for Improving Quality

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Pubmed/MEDLINE



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Pubmed & MEDLINE



- PubMed has been available since 1996. Its
 >28 million references include the MEDLINE database and the following types of citations:
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- MEDLINE is the National Library of Medicine (NLM) journal citation database. Started in the 1960s, it now provides more than 24 million references to biomedical and life sciences journal articles back to 1946. MEDLINE includes citations from more than 5,200 scholarly journals published around the world
- The MEDLINE database is directly searchable from
 NLM as a subset of the PubMed database as well
 as through other numerous search services that
 obtain the data from NLM's Data Distribution
 program. In addition to the comprehensive
 journal selection process, what sets MEDLINE
 apart from the rest of PubMed is the added value
 of using the NLM controlled vocabulary, Medical
 Subject Headings (MeSH), to index citations



MeSH (Medical Subject Headings)



- MeSH is the NLM's controlled vocabulary thesaurus and used to describe the subject of each journal article in MEDLINE. It contains approximately 28,000 terms and is updated annually to reflect changes in medicine and medical terminology. The terms are arranged hierarchically (and alphabetically) by subject categories with more specific terms arranged beneath broader terms. PubMed allows you to view this hierarchy and select terms for searching in the MeSH Database. At the most general level of the hierarchical structure are very broad headings e.g. "Anatomy". More specific headings are found at narrower levels of the thirteen-level hierarchy, such as "Ankle"
- Entry terms over 90,000 relating to the 28,000 terms. They assist you in finding the most appropriate MeSH heading(s). For example, 'Vitamin C' is an entry term to "Ascorbic Acid" (MeSH heading)







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New and Noteworthy	Topic-Specific Queries	LinkOut
	Clinical C	Queries tool
Latest Literature	Trending Articles	
New articles from highly accessed journals	PubMed records with recent increases in activity	
Ann N Y Acad Sci (4)	Smiles as signals of lower status in football players and fashio	n
Blood (1)	models: evidence that smiles are associated with lower dominance and lower prestige.	
Cancer Res (2)	Evol Psychol. 2012.	
Circulation (1)	Fasting Activates Fatty Acid Oxidation to Enhance Intestinal Stem Cell Function during Homeostasis and Aging.	
Drugs (1)	Cell Stem Cell. 2018.	
J Biol Chem (17)	The first horse herders and the impact of early Bronze Age steppe expansions into Asia	

Have a look at the Quick Start Guide, Tutorials and MeSH database in addition to Clinical



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ubmed/20745258		Ann Clin Microbiol Antimicrob. 2018 May 4;17(Titles with your sear	ch terme

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Pubmed Search Details:

6.	Requiring Colon Resection. DeWane MP, Davis KA, Schuster KM, Erwin SP, Maung AA, Becher RD. J Trauma Acute Care Surg. 2018 Apr 16. doi: 10.1097/TA.000000000001939. [Epub ahead of print] PMID: 29664889 Similar articles	Find related data Database: Select Find items
	Long-term care facility National Healthcare Safety Network enrollment challenges, 2016.	
7.	Sutherland S, Meyer R.	Search details
	Am J Infect Control . 2018 Apr 13. pii: S0196-6553(18)30103-2. doi: 10.1016/j.ajic.2018.02.008. [Epub ahead of print] PMID: 29661624 <u>Similar articles</u>	<pre>("nursing homes"[MeSH Terms] OR ("nursing"[All Fields] AND "homes" [All Fields]) OR "nursing homes"[All Fields]) AND ("infection control"</pre>
	<u>The efficacy of a nested PCR in detecting cytochrome c oxidase subunit 1 gene of Sarcoptes</u>	[MeSH Terms] OR ("infection"[All
8.	scabiei var. Hominis for diagnosing scabies.	
	Hahm JE, Kim CW, Kim SS.	Search See more
	Br J Dermatol. 2018 Apr 6. doi: 10.1111/bjd.16657. [Epub ahead of print]	
	PMID: 29624634	
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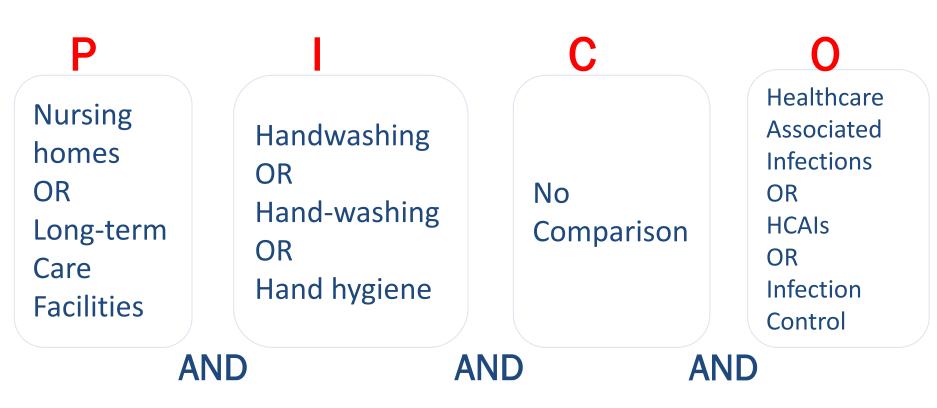
("nursing homes"[MeSH Terms] OR ("nursing"[All Fields] AND "homes"[All Fields]) OR "nursing homes"[All Fields]) AND ("infection control"[MeSH Terms] OR ("infection"[All Fields] AND "control"[All Fields]) OR "infection control"[All Fields])





Sample PICO 4











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(nursing homes OR long-term care facilities) AND (handwashing OR hand-washing OR hand hygiene) AND (healthcare associated infections OF Search

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Clinical Study Categories	Systematic Reviews	Medical Genetics	
Category: Therapy		Topic: All	
Scope: Broad V			
Results: 5 of 52	Results: 5 of 15	Results: 5 of 6	
Impact of a multicomponent hand hygiene-related intervention on the infectious risk in nursing homes: A cluster randomized trial. Temime L, Cohen N, Ait-Bouziad K, Denormandie P, Dab W, Hocine MN. Am J Infect Control. 2018 Feb; 46(2):173-179. Epub 2017 Oct 5.	A systematic review of transmission dynamic studies of methicillin-resistant Staphylococcus aureus in non-hospital residential facilities. Kwok KO, Read JM, Tang A, Chen H, Riley S, Kam KM. BMC Infect Dis 2018 Apr 18: 18(1):188. Epub 2018 Apr 18	Outbreak of multidrug-resistant Acinetobacter baumannii in ar intensive care unit. Dettori M, Plana A, Derui MG, Lo Curto P, Cossu A, Musumeci R, Cocuz C, Astone V, Contu MA, Sotgiu G. New Microbiol. 2014 Apr; 37(2):185-91. Epub 2014 Apr 1.	
Interventions to improve hand hygiene compliance in patient care. Gould DJ, Moralejo D, Drey N, Chudleigh JH, Taljaard M. Cochrane Database Syst Rev. 2017 Sep 1; 9:CD005186. Epub 2017 Sep 1.	Interventions to improve hand hygiene compliance in patient care. Gould DJ, Moralejo D, Drey N, Chudleigh JH, Taljaard M. Cochrane Database Syst Rev. 2017 Sep 1; 9:CD005186. Epub 2017 Sep 1.	Extended-spectrum β-lactamase-producing Enterobacteriaceae in French nursing homes: an association between high carriage rate among residents, environmental contamination, poor conformity with good hygiene practice, ar putative resident-to-resident transmission.	
Behavioral Interventions to Reduce Infections in Pediatric Long-term Care Facilities: The Keep It Clean for Kids Trial.	Effect of antibiotic stewardship on the incidence of infection	Cochard H, Aubier B, Quentin R, van der Mee-Marquet N, Réseau des Hygiénistes du Centre Infect Control Hosp Epidemiol. 2014 Apr; 35(4):384-9.	
Larson EL, Murray MT, Cohen B, Simpser E, Pavia M, Jackson O, Jia H, Hutcheon RG, Mosielio L, Neu N, et al. Behav Med. 2018 Apr-Jun; 44(2):141-150. Epub 2017 Mar 3.	Clostridium difficile infection: a systematic review and meta- analysis. Baur D, Gladstone BP, Burkert F, Carrara E, Foschi F, Döbele S, Tacconelli	Acute hepatitis B outbreaks in 2 skilled nursing facilities and possible sources of transmission: North Carolina, 2009-2010.	
Effect of antibiotic stewardship on the incidence of infection and colonisation with antibiotic-resistant bacteria and	E. Lancet Infect Dis. 2017 Sep; 17(9):990-1001. Epub 2017 Jun 16.	Seña AC, Moorman A, Njord L, Williams RE, Colborn J, Khudyakov Y, Drobenuic J, Xia GL, Wood H, Moore Z. Infect Control Hosp Epidemiol, 2013 Jul; 34(7):709-16. Epub 2013 May 1	
Clostridium difficile infection: a systematic review and meta- analysis.	Systematic Review of Interventions to Reduce Urinary Tract Infection in Nursing Home Residents.	Norovirus outbreaks on three college campuses - California,	
Baur D, Gladstone BP, Burkert F, Carrara E, Foschi F, Döbele S, Tacconelli E. .ancet Infect Dis. 2017 Sep; 17(9):990-1001. Epub 2017 Jun 16.	Meddings J, Saint S, Krein SL, Gales E, Reichert H, Hickner A, McNamara S, Mann JD, Mody L. J Hosp Med. 2017 May; 12(5):356-368.	Michigan, and Wisconsin, 2008. Centers for Disease Control and Prevention (CDC) MMWR Morb Mortal Wkly Rep. 2009 Oct 9; 58(39);1095-100.	



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Cochrane Database Syst Rev. 2017 Sep 1;9:CD005186. doi: 10.1002/14651858.CD005186.pub4.	Full text links
Interventions to improve hand hygiene compliance in patient care.	Library
Gould DJ ¹ , Moralejo D, Drey N, Chudleigh JH, Taljaard M.	Save items
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Abstract BACKGROUND: Health care-associated infection is a major cause of morbidity and mortality. Hand hygiene is regarded as an effective preventive measure. This is an update of a previously published review.	Similar articles
OBJECTIVES: To assess the short- and long-term success of strategies to improve compliance to recommendations for hand hygiene, and to determine whether an increase in hand hygiene compliance can reduce rates of health care-associated infection.	Review Interventions to improve hand hygiene compliance [Cochrane Database Syst Rev. 2010]
SEARCH METHODS: We conducted electronic searches of the Cochrane Register of Controlled Trials, PubMed, Embase, and CINAHL. We conducted the searches from November 2009 to October 2016.	Review Improving adherence to Standard Precautions [Cochrane Database Syst Rev. 2018]
SELECTION CRITERIA: We included randomised trials, non-randomised trials, controlled before-after studies, and interrupted time series analyses (ITS) that evaluated any intervention to improve compliance with hand hygiene using soap and water or alcohol-based hand rub	Review Automated telephone communication systems for [Cochrane Database Syst Rev. 2016]
(ABHR), or both. DATA COLLECTION AND ANALYSIS: Two review authors independently screened citations for inclusion, extracted data, and assessed risks	Review Interventions to improve hand hygiene compliance [Cochrane Database Syst Rev. 2007]
of bias for each included study. Meta-analysis was not possible, as there was substantial heterogeneity across studies. We assessed the certainty of evidence using the GRADE approach and present the results narratively in a 'Summary of findings' table.	Review Interventions to improve antibiotic prescribing [Cochrane Database Syst Rev. 2017]
MAIN RESULTS: This review includes 26 studies: 14 randomised trials, two non-randomised trials and 10 ITS studies. Most studies were conducted in hospitals or long-term care facilities in different countries, and collected data from a variety of healthcare workers. Fourteen	See reviews
studies assessed the success of different combinations of strategies recommended by the World Health Organization (WHO) to improve hand hygiene compliance. Strategies consisted of the following: increasing the availability of ABHR, different types of education for staff,	See all
reminders (written and verbal), different types of performance feedback, administrative support, and staff involvement. Six studies assessed different types of performance feedback, two studies evaluated education, three studies evaluated cues such as signs or scent, and one study assessed placement of ABHR. Observed hand hygiene compliance was measured in all but three studies which reported product	Related information Articles frequently viewed together
usage. Eight studies also reported either infection or colonisation rates. All studies had two or more sources of high or unclear risks of bias,	Cited in systematic reviews
most often associated with blinding or independence of the intervention.Multimodal interventions that include some but not all strategies recommended in the WHO guidelines may slightly improve hand hygiene compliance (five studies; 56 centres) and may slightly reduce	MedGen
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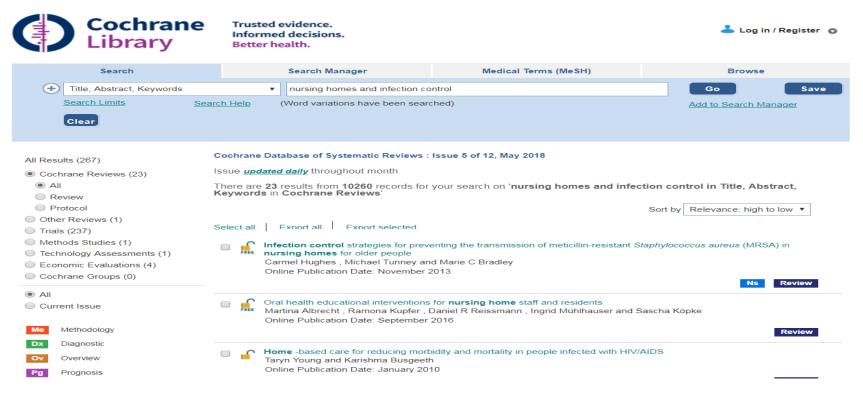
NB: CDSR is built throughout the month, with new and updated reviews and protocols being continuously published when ready. CENTRAL and the About The Cochrane Collaboration databases are published monthly. HTA is published quarterly according to a schedule







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Plain Language Summary-example





and control strategies in nursing homes. Rigorous studies should be conducted in nursing homes, involving residents and staff to test interventions that have been specifically designed for this unique environment.

Plain language summary () English | French | Croatian | Spanish: Castilian | Russian

Infection control strategies for preventing the spread of meticillin-resistant *Staphylococcus aureus* (MRSA) in nursing homes for older people

MRSA is a bacterium that can cause infection in people, particularly those who are in hospital. MRSA is now becoming a problem for older people (residents) who live in nursing homes. Nursing homes are ideal places for MRSA to spread: the residents live close to each other, many have a number of medical conditions and may receive several prescriptions for antibiotics, and some may have pressure sores and medical devices such as catheters. All of these factors increase the risk of residents getting MRSA, and so increase their risk of dying.

Many different ways of preventing the spread of MRSA have been studied, particularly in hospitals; however, we found only one study that looked at whether an infection control education and training programme influenced the spread of MRSA in nursing homes for older people. This study showed there was no difference between the group that was involved in the programme and the comparison group which continued with their normal practice.

Although there is some evidence for techniques that work well to prevent the spread of MRSA in hospital, it is not clear if these approaches will work in nursing homes for older people. Further research is needed to establish what will work in nursing homes.

Background

Meticillin- (the International Non-proprietary Name, and British Approved Name) or methicillin- (the United States Approved Name) resistant *Staphylococcus aureus* (MRSA) has been recognised since the



References to studies excluded from this review



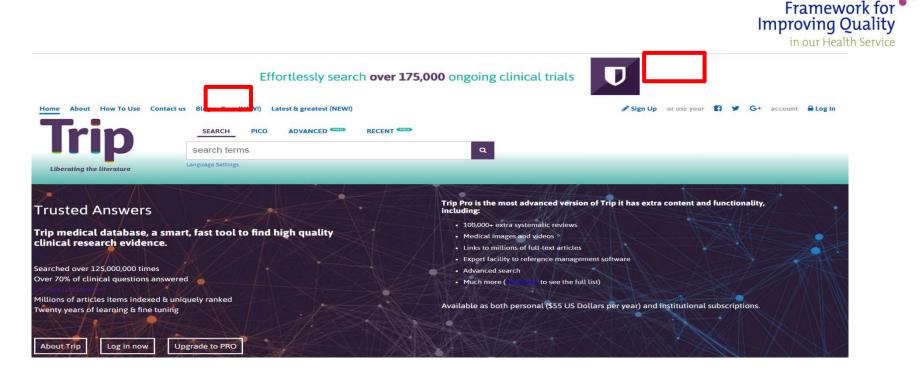
TRIP (Turning Research Into Practice)

- Clinical search engine
- Searchers multiple sources of evidence simultaneously Trip
- Breaks results down by study type and level of evidence
- Results are colour-coded
- Can also search for images, videos, patient information leaflets, educational courses and news
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Improving Oi



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- You can sort your results by quality, date, relevance or popularity
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Home





Clinical Area

Evidence type

1,937 results for

(nursing homes OR long-term care facilities) AND (handwashing OR hand-washing OR hand hygiene) AND (healthcare associated infections OR HCAIs OR infection control)

by quality → ■ 1. [Building planning and infection control: hand hygiene dispensers and individual bathroor Health Technology Assessment (HTA) Database. 2014 # Tweet this ☆ Star this ▲ Report broken link	Alerts Export - is in residential and long-term care centres] Alerts Systematic Reviews Systematic Reviews Get Trip Pro now >	
P SmartSearch available Trip's SmartSearch engine has discovered connected searches & results. Click to she	w All Secondary Evidence	
2. The role of hand hygiene in controlling norovirus spread in nursing homes.	Systematic Reviews Evidence-based Synopses	20 💽
BMC Infectious Diseases 2016 ■ Tweet this \$\$ Star this \$\$ Report broken link	Primary Research GuideLines Aus & NZ	
3. Role of Hand Hygiene Ambassador and Implementation of Directly Observed Hand Hygie for the Elderly in Hong Kong. Infection control and hospital epidemiology 2018	UK	
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4. What is the prevalence of multidrug resistant organisms (MDRO) on patient and healthcar nursing homes? A systematic review of the evidence PROSPERO 2017	e worker hands in acute care hospitals and Key Primary Research Clinical Q&A	
Tweet this ☆ Star this ▲ Report broken link S. The Impact of Isolation on Healthcare Worker Contact and Compliance With Infection Contact And Contact		
Infection control and hospital epidemiology 2018	Primary Research Ongoing clinical trials	

- Different colours represent e.g. 'Systematic Reviews' (green), 'Primary Research' (orange), 'Ongoing systematic reviews' (yellow), 'Key Primary Research' (blue) etc.
- You can refine by evidence type using the panel on the right-hand side
- 'Guidelines' section can be useful sort by geographic location (Aus. & NZ; Canada; UK; USA; Other)

CINAHL Complete



New Search	Publications	CINAHL Headings	Evidence-Based Care Sheets	More •	💄 Sign In 🗎 Folder 🌣 Preferences Langi		
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		AN Accession Number	in the full text of the
		CA Corporate Author	
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CINAHL Complete



(Cumulative Index of Nursing and Allied Health Literature)

- CINAHL is a collection of nursing & allied health journals. It is a core research tool for all areas of nursing and allied health literature and also covers biomedicine, health sciences librarianship, alternative/complementary medicine, consumer health and many allied health disciplines
- Full text for more than 1,300 journals indexed in CINAHL Database
- Indexing for nearly 5,500 journals
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- Research instruments



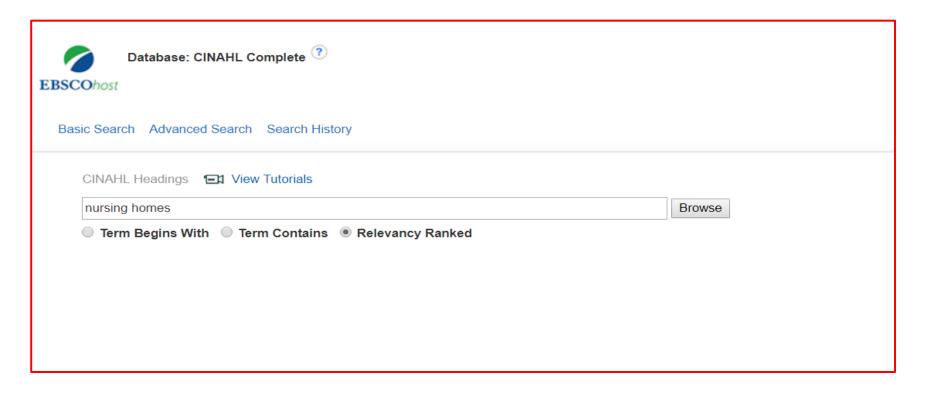




- The CINAHL Subject Headings authority file is a controlled vocabulary thesaurus that assists in more effectively searching the database. Each bibliographic reference in the database is associated with a set of subject terms that are assigned to describe the content of an article
- There are more than 15,000 main subject headings as well as thousands of crossreferences that assist in finding the most appropriate subject heading. It also works with/accepts Medical Subject Headings (MeSH) as the standard vocabulary for disease, drug, anatomical, and physiological concepts
- Based on the MeSH headings, with additional specific nursing and allied health headings added as appropriate. Each year, the headings are updated and revised relative to terminology needed in these fields. In addition, new terms from MeSH may be added. Total number of headings (May 2018) - 15,297











Framework for

Improving Quality



Results For: nursing homes				Search Database
Check box to Click linked term for tree view.	Explode (+)	Major Concept	Scope	Search Term Explode Major (+) Concept
				Check a box to select a subject
Nursing Homes			ļ	heading to begin building your search strategy.
Nursing Home Design and Construction			ļ	
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Nursing Homes Design Use: <u>Nursing Home Design and Construction</u>				
Design and Construction Nursing Homes Use: <u>Nursing Home Design and</u> <u>Construction</u>				
<u>Nursing Home Personnel</u>				
<u>Nursing Home Patients</u>				
Home Nursing, Professional				
Home Nursing				





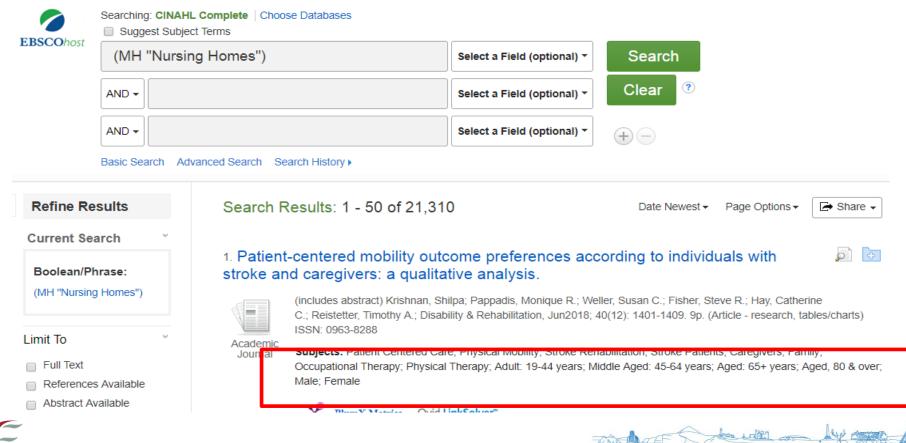


ma Later

ZAX

Results For: nursing homes	Subheadings for: Nursing Homes	Search Database
Check box to view subheadings. Click linked term for tree view. Explode Major Scope (+) Concept ?	Include All Subheadings Or select one or more subheadings to restrict your search	Search Term Explode Major (+) Concept
Nursing Homes	 Administration/AM Image Administration/CL Image Administration/CL	
Nursing Home Design and Construction Image: Construction	Economics/EC 🗐	
Nursing Homes Design and Construction Use: <u>Nursing Home</u> <u>Design and Construction</u>	 Ethical Issues/EI	
Nursing Homes Design Use: <u>Nursing</u> <u>Home Design and Construction</u>	Legislation And Jurisprudence/LJ	
Design and Construction Nursing Homes Use: <u>Nursing Home Design</u> and Construction	 Manpower/MA Methods/MT Organizations/OC 	
Nursing Home Personnel	 Organizations/OG (E) Psychosocial Factors/PF (E) 	





Major & Minor Headings



- Titles, abstracts and the full article are reviewed by indexers to determine what the article is about. Once the topic(s) are determined (either about a disease, procedure, concept, issue, etc.) a further determination is made as to what specific area of the topic is covered (specific type of therapy, diagnosis, etc.). The indexer will then decide which specific headings to use to cover the topic(s) and further qualify those headings with subheadings such as nursing, therapy, manpower, etc., to outline the specific area of the topic being discussed these are described as "major" headings
- If side topics or side issues outside of the main topic(s) are covered and headings are selected, they are "minor" headings. If the topic covers three or more specific areas of the main topic, then additional headings will become minor headings.
- For example: if an article on asthma covers diet therapy, surgery, and drug therapy, then the heading asthma-therapy will be assigned as a major heading and asthma-diet therapy, asthma-drug therapy and asthma-surgery will be assigned as minor headings
- In research studies, all research methodology terms indicating the type of research undertaken (e.g. qualitative study, cohort study, clinical trial, odds ratio etc.) are assigned as minor headings, as is the population, age group and geographic area (unless they are part of main topic(s)/discussion, in which case they will be assigned as major headings)







0	Searching: CINAHL Complete Choose Databases Suggest Subject Terms (MH "Nursing Homes+")			e Databases			
EBSCO host					Select a Field (optional) -	Search	
•	AND -			-	Select a Field (optional) -	Clear ?	
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Current Search Boolean/Phrase: (MH "Nursing Homes+")			d caregivers: a qualita (includes abstract) Krishnan, S	ative analysis. hilpa; Pappadis, Monique R.; We	ller, Susan C.; Fisher, Steve R.; Hay, Catherine 10(12): 1401-1409. 9p. (Article - research, tables/charts)		
Limit To Full Text References Available Abstract Available		Academic Journal			abilitation; Stroke Patients; Caregivers; Family; ddle Aged: 45-64 years; Aged: 65+ years; Aged, 80 & over;		
				PlumX Metrics Ovid	LinkSolver ^{**}		

Tint

'Explode' a Term



Explode

 When you 'Explode' a term, you create a search query that 'explodes' the subject heading. The headings are exploded to retrieve all references indexed to that term as well as all references indexed to any narrower (more specific) subject terms. In a database with a tree structure (e.g. MeSH or CINAHL), exploding retrieves all documents containing any of the subject terms below (narrower than) the term you selected. In other databases, exploding retrieves all documents containing the selected term, as well as any of its first level of narrower terms. If a plus sign (+) appears next to a narrower or related term, there are narrower terms below it

Combining Explode and Major Concept

• If you select both 'Explode' and 'Major Concept', you retrieve all references indexed to your term (and its narrower terms) and all articles for which the subject heading is a major point of the article





Sample PICO 4



We are interested in the effect of handwashing on the prevention of healthcare associated infection in nursing homes

- P (Nursing home)
- I (Handwashing)
- C (No comparison)
- O (Prevention of healthcare associated infection)

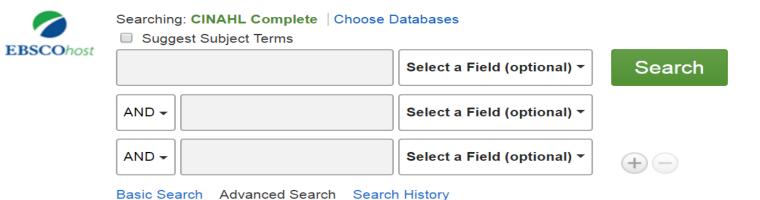
For every search that you do, first think of all the alternative words, phrases and spellings that describe your different search terms. Make a note of them and then open up Medline or CINAHL Advanced Search screens. For the purposes of this search, we will perform a search for articles containing the following search terms:

nursing homes, long-term care facilities, handwashing, handwashing, hand hygiene, healthcare associated infection, HCAI, infection control







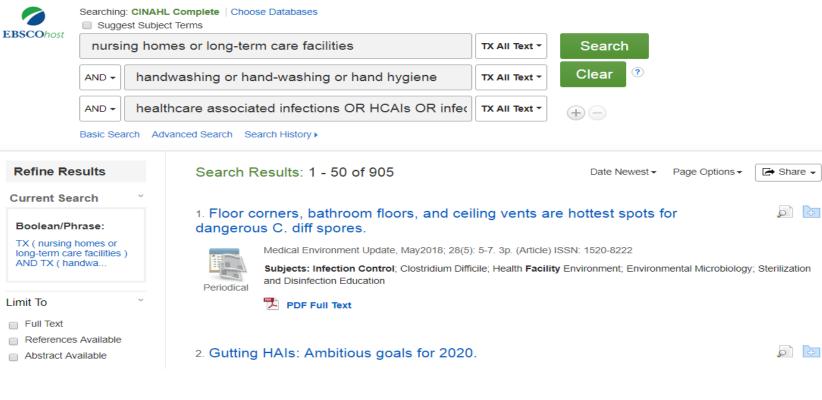


- 1) In the first search box, type in 'nursing homes or long-term care facilities'
- 2) In the next search box, type in the words 'handwashing or hand-washing or hand hygiene'
- 3) In the last search box, type in 'healthcare associated infections OR HCAIs OR infection control'















Refine Results

Current Search

Boolean/Phrase:

TX (nursing homes or long-term care facilities) AND TX (handwa...

Limiters

Published Date: 20080101-20181231

×

~

Source	Types
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Academic Journals	×
Language	
english	×
Geography	
uk & ireland	×
Limit To	

Source Types

All Results

Search Results: 1 - 50 of 116

Date Newest

Page Options

Share -

1. A systematic review of transmission dynamic studies of methicillin-resistant Staphylococcus aureus in non-hospital residential **facilities**.



Academic Journal

Academic

Journal

(includes abstract) Kwok, Kin On; Read, Jonathan M.; Tang, Arthur; Chen, Hong; Riley, Steven; Kam, Kai Man; BMC Infectious Diseases, 4/18/2018; 18(1): N.PAG-N.PAG. 1p. (journal article) ISSN: 1471-2334 PMID: 29669512

Show all 5 images



2. Effect of antibiotic stewardship on the incidence of **infection** and colonisation with antibiotic-resistant bacteria and Clostridium difficile **infection**: a systematic review and meta-analysis.

on: a systematic

(includes abstract) Baur, David; Gladstone, Beryl Primrose; Burkert, Francesco; Carrara, Elena; Foschi, Federico; Döbele, Stefanie; Tacconelli, Evelina; Lancet Infectious Diseases, Sep2017; 17(9): 990-1001. 12p. (journal article) ISSN: 1473-3099 PMID: 28629876

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Related Information

Find Similar Results using SmartText Searching.

A systematic review of transmission dynamic studies of methicillinresistant Staphylococcus aureus in non-hospital residential **facilities**.

Authors:	Kwok, Kin On; Read, Jonathan M.; Tang, Arthur; Chen, Hong; Riley, Steven; Kam, Kai Man	Images				
Affiliation:	The Jockey Club School of Public Health and Primary Care The Chinese University of Hong Kong Shatin Hong Kong, Special Administrative Region of China Stanley Ho Centre for Emerging Infectious Diseases The Chinese University of Hong Kong Shatin Hong Kong, Special Administrative Region of China Shenzhen Research Institute of the Chinese University of Hong Kong Shenzhen China					
	Shenzhen China Centre for Health Informatics Computing and Statistics, Lancaster Medical School, Faculty of Health and Medicine Lancaster University Lancaster UK Institute of Infection and Global Health, The Farr Institute@HeRC University of Liverpool Liverpool UK Department of Software Sungkyunkwan University Seoul South Korea Centre for Health Protection Hong Kong Hong Kong, Special Administrative Region of China MRC Centre for Outbreak Analysis and Modelling, Department for Infectious Disease Epidemiology Imperial College London London UK					
Source:	BMC Infectious Diseases (BMC INFECT DIS), 4/18/2018; 18(1): N.PAG-N.PAG. (1p))				







Basic Search Advanced Search Search History -

Search History/Alerts

Print Search History Retrieve Searches Retrieve Alerts Save Searches / Alerts

. 5	Select / des	select all Search with AND Search with OR Delete Search	hes	Refresh Search Results
	Search ID#	Search Terms	Search Options	Actions
	S4	X (nursing homes or long-term care facilities) AND TX (handwashing or hand-washing or hand hygiene) AND TX (healthcare associated infections OR HCAIs OR infection control)	Limiters - Published Date: 20080101-20181231 Narrow by SubjectGeographic: - uk & ireland Narrow by Language: - english Search modes - Boolean/Phrase	Q View Results (116) 🛿 View Details 🛛 🖉 Edit
	S3	X (nursing homes or long-term care facilities) AND TX (handwashing or hand-washing or hand hygiene) AND TX (healthcare associated infections OR HCAIs OR infection control)	Limiters - Published Date: 20080101-20181231 Narrow by Language: - english Search modes - Boolean/Phrase	Q View Results (318) 🛛 🖉 View Details 🛛 🖉 Edit
	S2	TX (nursing homes or long-term care facilities) AND TX (handwashing or hand-washing or hand hygiene) AND TX (healthcare associated infections OR HCAIs OR infection control)	Limiters - Published Date: 20080101-20181231 Search modes - Boolean/Phrase	Q View Results (630) 🚺 View Details 🧭 Edit
	S1	TX (nursing homes or long-term care facilities) AND TX (handwashing or hand-washing or hand hygiene) AND TX (healthcare associated infections OR HCAIs OR infection control)	Search modes - Boolean/Phrase	Q View Results (905) 🚺 View Details 🗹 Edit





CINAHL EB Care Sheets





Subjects	
Browsing	: CINAHL Complete Evidence-Based Care Sheets
	Browse
Alphab	petical O Relevancy Ranked
Page: Pr	revious Next >
Select o	one or more items and click Search
	Alopecia In Children And Adolescents
	Asthma: Management In Older Adults
	Avian Influenza
	Avian Influenza (H5N1) In Children
	Bites: Head Lice
	Botulism, Foodborne
	Breast Cancer In Older Women





CINAHL Comparison



Differences between versions of CINAHL® on EBSCOhost®

	CINAHL*	CINAHL [®] Plus	CINAHL [®] with Full Text	CINAHL [®] Plus with Full Text	CINAHL* Complete	Nursing Reference Center [™]	Nursing Reference Center [®] Plus
Journals Indexed	3,172	5,092	3,174	5,092	5,497	N/A	N/A
Begin Date of Indexing	1980	1937	1980	1937	1937	N/A	N/A
Comes with PreCINAHL	Yes	Yes	Yes	Yes	Yes	N/A	N/A
Journals with Searchable Cited References	1,320	1,440	1,325	1,445	1,529	N/A	N/A
Begin Date of Searchable Cited References	1993	1985	1993	1985	1985	N/A	N/A
Full-Text Journals	70	78	629	775	1,381	N/A	N/A
Begin Date of Full Text	1992	1991	1981	1937	1937	N/A	N/A
Full-Text Books/Monographs	N/A	N/A	N/A	11	11	11	11
Continuing Education Modules	N/A	170	N/A	170	170	1,601	2,664
Research Instruments Records	106	254	106	254	254	254	254
Full-Text Evidence-Based Care Sheets	N/A	133	N/A	133	133	1,037	1,612
Full-Text Quick Lessons	N/A	169	N/A	169	169	2,584	2,730
Full-Text Drug Guide Information	N/A	N/A	N/A	N/A	N/A	2,730	2,746
Full-Text Patient Education Handouts	N/A	N/A	N/A	N/A	N/A	3,358	8,062
Full-Text Legal Cases	N/A	N/A	N/A	N/A	N/A	791	791
Full-Text Nursing Skills & Procedures	N/A	N/A	N/A	N/A	N/A	1,203	1,478
Full-Text Care Plans	N/A	N/A	N/A	N/A	N/A	N/A	50
Images	N/A	N/A	N/A	N/A	N/A	357	1,501
Videos	N/A	N/A	N/A	N/A	N/A	N/A	685

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Framework for Improving Quality in our Health Service

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Sorting results:

• You can sort your results by Relevance, Title, Issue Date, Submit Date

Filtering results:

 You can filter your results by 'Collections' (All of Lenus, Health Care Professionals, Hospital Research, HSE, Library & Information Science, Other Irish Health Organisations, Research Articles, Special Collections)





Overall Search Tips



- PICO your clinical question
- What are your key concepts?
- Are there any synonyms/alternative terms for your key concepts & keywords?
- Become familiar with more than one resource; decide which resource(s) to use
- Create/decide on search strategy, apply & search
- Save citations/articles and assess results/material







Step 3: Appraise the Evidence

What is Critical Appraisal?

"The process of carefully and systematically examining research to judge its trustworthiness, and its value and relevance in a particular context" (Burls, 2009)





Critical Appraisal



Critical appraisal is the process of weighing up the evidence to determine its usefulness, reliability and applicability. The critical appraisal process helps healthcare professionals cope with the problem of "information overload" by focusing on only the highest-quality studies that will guide their practice.







Appraising the Evidence



Valid?

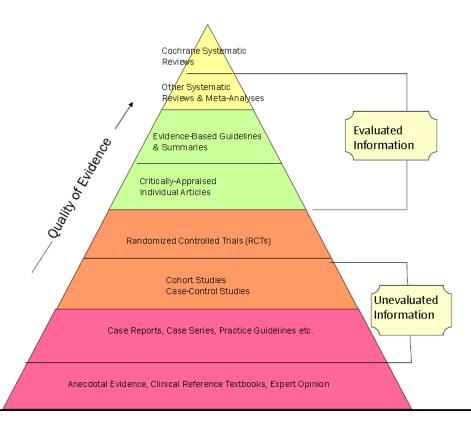
Not Valid?





Pyramid of Evidence









Questions to ask



- Is it close to the PICO of your clinical question?
- Is the study methodology valid? Is the quality of the study good enough to produce results that can be used to inform clinical decisions?
- What are the results of the study? Do they make sense?
- Will the results help locally?

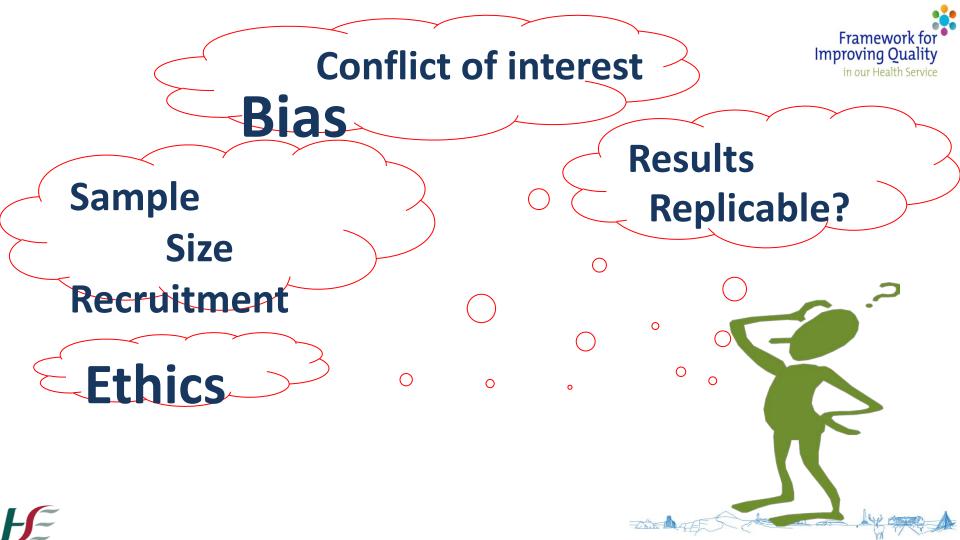


Framework for Improving Ouality

in our Health Service







Group Exercise



 In groups or pairs, go through the assigned article and answer the questions on pg. 11 of the Critical Appraisal handout





To Sum Up



ASK - construct a well built clinical question(s); develop your search strategy, decide on filters & limits
 ACQUIRE - collect the best evidence relevant to your questions; select the appropriate resource(s) and conduct search(es), apply filters & limits
 ASSESS - the material you have retrieved and critically appraise it

Contact your local information specialist!





Thank you!









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