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IN SCIENCES UNIDADE DE INVESTIGAÇÃO EM CIÊNCIAS DA SAÚDE



Systematic reviews impact on their own and students' skills João Apóstolo apostolo@esenfc.pt

http://www.esenfc.pt



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Overview

Presentation: 50 minutes; Discussion 30 minutes

- 1) Introduction to SR and the concept of aggregating data from qualitative and quantitative research
 - why we need it in the health care
 - How SR and synthesis of evidence can contribute to the education of health care staff

2) Introduction to systematic review as meta-analysis and meta-synthesis

- 3) How SR can be used to develop competencies of the staff
- how we use it in my institution
- experience that competencies have developed
- 4) PCEBP personal experience on developing SR

Evidence-Based Practice (EBP)

 Pearson et al (2005) state that evidence-based practice is clinical decision-making that considers the best available evidence; the context in which the care is delivered; client preference; and the professional judgment of the health professional (p 209).

Evidence-based Health Care



 Evidence based health care takes place when decisions that affect the care of patients are taken with <u>due</u> <u>weight accorded to all valid,</u> <u>relevant information</u> (Hicks, 1997)





Evidence is...

 '...the available facts, circumstances etc supporting or otherwise a belief, proposition etc or indicating whether a thing is true or valid...' (Pearsall and Trumble, 1995)

 "...any statement, record, testimony which tends to prove the existence of a fact in issue"

(Nygh and Butt 1997, p435)

FAME

The following elements should be taken into consideration when applying the evidence - recommendations should be graded accordingly.

F – Feasibility; specifically:

I What is the cost effectiveness of the practice?

Is the resource/practice available?

Is their sufficient experience/levels of competency available?

A – Appropriateness; specifically:

Is it culturally acceptable?

Is it transferable/applicable to the population of interest?

Is it easily adaptable to a variety of circumstances?

M – Meaningfulness; specifically:

Is it associated with positive experiences?

Is it not associated with negative experiences?

E – Effectiveness; specifically:

Was there a beneficial effect?

Is it safe? (i.e. is there a lack of harm associated with the practice?)

The JBI Model of Evidence-Informed Healthcare





Culture - Capacity - Context - Communication

Evidence-Based or Evidence-Informed?

Evidence-Based:

"cook book" approach - resistance of professionals

Evidence-Informed:

There is more to clinical-decision making than evidence alone. Evidence forms only one part of the process. Evidence based healthcare considers the best available evidence, patient preference, context and clinical judgement.

Evidence synthesis Why we need it in the health care?



Rituals have a place

Don't throw the baby out with the bathwater



THREE TRANSLATION GAPS (Alan Pearson, Zoe Jordan, and Zachary Munn, 2011)

From Discovery to Clinical Application



FIGURE 4: The relationship between the translation science cycle and evidence-based health



EIP – Barriers



Barriers to Evidence-Based Practice Implementation - Results of a Qualitative Study (Rapp et al., 2010)

Results - The most significant obstacles emanated from the behavior of supervisors and front-line staff.

• A lack of synergy profoundly impeded implementation.

It means - Organizations, Leadership and Line staff are crucial

ВМС Health Services Research



A systematic review of barriers to and facilitators of the use of evidence by policymakers (Oliver et al. 2014).

Thirteen systematic reviews were included.

Results - Most frequently reported barriers to evidence uptake:

- Poor access to good quality relevant research;
- Lack of timely research output.

It means - The best available evidence is not available

How SR and synthesis of evidence can contribute to the education of health care staff



BECAUSE we need students, nurses and professors develop skills:

Questions (clinical or research);

Search answers to inform practice and education.



Why do we need to train reviewers to develop systematic reviews (evidence synthesis)?



BECAUSE:

Source of knowledge



- PubMed comprises more than 21 million citations for biomedical literature from MEDLINE, life science journals, and online books.
- It was noticed that the only people reading research were other researchers

Making Evidence Accessible to Busy Clinicians

- Systematic reviews (don't have time)
- Summaries
- Abstracts
- Practice sheets
- Evidence-based clinical guidelines

Access to clinical decision support and tools/resources to facilitate evidence informed practice

Resources such as:
Databases
Guidelines
Agency for Healthcare Research and Quality
Advancing Excellence in Health Care

CDC Centers for Disease Control and Prevention



Comprehensive, bundled services (JBI COnNECT+ brought to you by OVID)





JBI Database of Systematic Reviews and Implementation Reports



JBI Database of Best Practice Information Sheets and Technical Reports

JBI's content database contains :



JBI Database of Systematic Reviews and Implementation Reports

- Evidence Summaries- Literature reviews that summarize existing international literature on common healthcare interventions and activities
- Evidence Based Recommended Practices- Database of procedures, based on the best available evidence, that describe and/or recommend practice on various clinical topics
- Best Practice Information Sheets- Series of information guideline sheets produced specifically for practicing health professionals
- Systematic Reviews- Collection of comprehensive systematic reviews of international research literature completed by trained JBI reviewers
- Consumer Information Sheets- Standardized summaries, designed just for consumers of healthcare (patient/client, relatives, care providers)
- Plus, Systematic Review Protocols and Technical Reports

Fornecida a melhor evidência disponível para que a prática possa ser informada.

Guideline Summary NGC-8722

Guideline Title

 Prevention of falls and fall injuries in the older adult. (2) Pr 2011 supplement.

Bibliographic Source(s)

Registered Nurses' Association of Ontario (RNAO). Prevention of for supplement. Toronto (ON): Registered Nurses' Association of Onta

Registered Nurses' Association of Ontario (RNAO). Prevention of fa

EVIDENCE-BASED

Fall Prevention in Hospitalized Patients

What We Know

- > Up to 12% of hospitalized patients fall at least once during their hospital stay; falls can lengthen hospital stays and result in poor quality of life, increased costs, admission to a long-term care facility, serious physical injuries, and death 0.3.5.5
- Falls are the most common adverse events reported in hospitals in the United States (9)
- " Inpatient falls lead to injury in up to 33% of cases and serious injury in up to 6% (3.5.7)
-) The causes of inpatient falls are multifactorial. Patients with multiple risk factors are at increased risk of falling (0.3.4.5.11.12)
- Risk factors for falling can be classified as intrinsic (e.g., older age, balance disorders, history of falk, decreased vision, altered cognitive status, or history of arthritis, heart attack, stroke, postural blood pressure changes, syncope, dizziness, or chronic lung disease), extrinsic (e.g., polypharmacy and use of certain medications known to increase fall risk [e.g., benzodiaze pines, sedatives, neuroleptics, antidepress ants, anticonvuk ants, class I antiarrhythmics, and diuretics]), and environmental (e.g., inadequate lighting, slippery floors, lack of handrails, and inadequate nurse/patient staffing ratios).^(1,3,4,5,6,7,10,11,13) (For more information, see *Esidma-Baud Care Shert ... Falls, Acidostal: Risk Ausensest*)
- In a study of 124 p atient units in 11 hospitals, investigators found that missed nursing care (e.g., failure to provide routine p atient care related to ambulation, toilet assistance, patient assessment, responding to a call both is presented with of acting the related to a long data of the related to a statement.



Evidence based information sheets for health professionals

Solutions, techniques and pressure in wound cleansing

Recommendations

hese recommendations are based on the best available clinical evidence t the time of the conduct of this review. However, there is an urgent need o support these findings with rigorous research as some of the conclusion re based on single studies with a limited sample size.

Information Source

This Best Practice information sheet, which updates and supersedes the JBI information sheet of the same title published in 2003, has been derived from a systematic review conducted in 2004.¹⁷ The primary references on which this information sheet is based are available in the systematic review report available from The Joanna Briggs institute! www.joannabriggs.edu.au

Solutions

Fourteen RCTs were eligible for inclusion of which four trials involved patients with lacerations, one trial each involved patients with traumatic wounds, open fractures or ulcers, and seven studies involved patients in the postoperative period. The studies evaluated patients in hospital emergency departments, wards and community settings. No trials were identified that used EUSoI, hydrogen peroxide or chlorhexidine solutions.

Tap water vs No cleansing

Infection (n=5 tria/s) Pooling the results

of the five trials

patients showed r

between wounds that were cleanse

with tap water compared with the

not cleansed (OR 0.80: 95% C

0.29-2.3)

undertaken on postoperative

statistically significant different in the infection rate

-		
	Grades of Recommendation These Grades of Recommendation have been based upon the JBI developed Grades	
~	of Effectiveness 1	
ce	Grade A	Effectiveness established to a degree that merits application
	Grade B	Effectiveness established to a degree that suggests application
•	Grade C	Effectiveness established to a
950		of applying the findings
	Grade D	Effectiveness established to a limited degree
_	Grade E	Effectiveness not established

es and pressure in wound cleansing Best Practice 10(2) 2006 | 1

Evidence synthesis Systematic Review





Evidence synthesis Systematic Review

- 1. The synthesis of evidence of effects
- 2. The synthesis of **<u>qualitative</u>** evidence
- 3. The synthesis of text and opinion
- 4. The synthesis of **economic** evidence
- 5. The synthesis of evidence related to **descriptive studies** without comparators
- 6. The synthesis of evidence related to prognosis
- 7. The synthesis of evidence related to diagnosis
- 8. The synthesis of the findings from surveys
- 9. Methodology for Mixed method reviews
- 10. Methodology for **<u>Umbrella/Overview reviews</u>**
- 11. <u>Scoping</u>reviews





The JOANNA BRIGGS INSTITUTE



The Joanna Briggs Institute Reviewers' Manual 2014 Evidence Synthesis

Methodology for JBI Mixed M Systematic Reviews

<Lippincott, Williams and Wilkins publication blurb>

Alan Pearson Heath White Fiona Bath-Hextall Susan <u>Salmond</u> Joao Apostolo Pamela Kirkpatrick Craig Lockwood

- Combines both quantitative and qualitative findings and addresses multiple forms of evidence
- Regarding feasibility, appropriateness, meaningfulness, and effectiveness.
- Separate analyses and synthesis are performed on the corresponding data.

Systematic Review

- Also called "Research Synthesis"
- Is an attempt to integrate empirical data for the purpose of:
 - uncovering the international evidence and
 - producing statements about that evidence to guide decision making
- Requires explicit and exhaustive reporting of the methods used in synthesis

Systematic Review

- The notion of and methods for establishing credibility in systematic reviews has been extensively developed and debated
- In terms of quantitative evidence:
 - Emphasis on reducing *bias* and increasing *validity*
 - Degree of credibility established through critique and by applying levels of evidence (quantitative design)
- In terms of qualitative evidence:
 - Emphasis on *rigour* of research design and *transferability*
- Degree of credibility established through critique and by applying levels of credibility (<u>Findings are: Unequivocal, Credible, Not Supported</u>)

Meta-analysis or narrative

- Quantitative evidence
 - Questions of **Effectiveness**, Feasibility and/or Appropriateness
- Use of statistical methods to combine the results of various independent, similar studies
- More precise calculation of one estimate of treatment effect than could be achieved by any of the individual, contributing studies
- Only forms a part of the systematic review in which it appears

Meta-synthesis

- Qualitative evidence
 - Questions of <u>Meaningfulness</u>, Feasibility and/or Appropriateness
- Qualitative analysis of a number of independent qualitative research studies and text
- Use of qualitative methods of combining the findings of individual studies
- Only forms a part of the systematic review in which it appears

Quantitative RESULTS

- Single studies rarely, if ever, provide definitive conclusions regarding the effectiveness of an intervention
 - Narrative systematic review
 - Meta-analysis

Each study being allocated a weighted percentage. This can depend on the number of participants, the number of events, and the level of variance



Heterogeneity

Three types of heterogeneity:

- Clinical heterogeneity
 - differences between studies in the characteristics of their populations, interventions and outcomes
- Methodological heterogeneity
 - differences between studies in their study designs and quality
- Statistical heterogeneity

variation of effects between studies

l² Index

Suggestion:

- consider as low I² values of 25%,
- moderate I² values of 50%, and
- high heterogeneity I² values of 75% (Higgins et al 2003)

$$|^2 = \left(\frac{Q - df}{Q}\right) \times 100\%$$

I² Index

- With a small number of studies (< 20) and/or average sample size (N <80) the statistical power for I² procedure is less than the recommended value of 80% (Huedo-Medina et al 2006).
- With a small number of studies (< 20), the interval around I² should be interpreted very cautiously (Huedo-Medinaretrale2006).

New Guidance Effectiveness Reviews: MA Statistical Models

(Tufanaru et al 2015, International Journal of Evidence-Based Healthcare)



Qualitative RESULTS

Meta-synthesis –

- Assemble conclusions;
- Categorise these conclusions into groups on the basis of similarity in meaning;
- Aggregate these to generate a set of statements
- These statements are referred to as <u>synthesized findings</u> –
- Can be used as a basis for evidence based practice
METASYNTHESIS OF QUALITATIVE RESEARCH STUDIES



SYNTHESIS

CATEGORIES

FINDINGS

There should be a strategy to help clinicians assess and address the psychosocial needs of skin cancer patients: Patients given a diagnosis of skin cancer experience extreme emotional responses and develop specific coping responses to help the deal with their emotions On receiving a diagnosis of skin cancer individuals experience a strong emotional response such as anxiety, shock and panic result.

Individuals develop a range of mechanism to help them cope with a diagnosis of skin cancer Diagnosis When the diagnosis of cancer is confirmed it frequently induces significant emotional distress for the patient

Reaction to diagnosis

MM Reaction to the diagnosis

Trivialisation-attempts to rationalise the diagnosis with the good

Making sense of the disease

Adaptation to the disease - minimizing the experience

MM Coping - information seeking/religious faith

MM - Making sense of the disease - social comparison /causal

MM - Adaptation to the disease - changing behaviours

There is a need to address the lack of awareness regarding the symptoms of skin cancer and promote early detection through public education: Individuals delay seeking medical help but once a diagnosis is given and the intial emotional response subsides, patients express satisfaction with their care Once the initial emotional response to a diagnosis subsides individuals express satisfaction with their experience of care

Satisfaction with care-causal attributions

MM Treatment/satisfaction with care

Individuals delay seeking medical advice in relation to symptoms associated with skin cancer often trivialising their significance

Seeking medical help





3) How SR can be used to develop competencies of the staff

- how we use it in my institution
- experience that competencies have developed
- 4) PCEBP personal experience on developing SR



- Seminars
- SRTP Programs
- Published SRL and ongoing protocols (Effect; Scoping; Comprehensive/Mixed Methods; Umbrella)

SRTP Programs





- Seminars:
- professors/hospital staff
- improving teaching/quality of care; PhD program



Examples of titles

- Effectiveness of haloperidol prophylaxis in critically ill patients with a high risk for delirium: a systematic review of quantitative evidence.
- Effectiveness of the use of bedrails in preventing falls among hospitalized older adults: systematic review protocol
- Effectiveness of heparin versus 0.9% saline flushing to maintain patency of central venous catheters in adults: a systematic review protocol of quantitative evidence.
- The use of non-pharmacological nursing interventions on the comfort of cancer patients: A comprehensive systematic review
- The use of non-pharmacological nursing interventions on the comfort of cancer patients: A comprehensive systematic review

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Questions????

Economic Evidence Methods, measures, benefits

Types of studies	Costs or measures	Benefits or Consequence measures	Comments
Cost Minimization Analysis (CMA)	Costs measured in monetary units (e.g Dollars)	Not measured	CMA is not a form of full economic analysis, the assumption is that benefits or consequences are the same, therefore the preferred option is the cheapest
Cost Effectiveness Analysis (CEA)	Costs measured in monetary units (e.g Dollars)	Benefits measured in natural units (e.g mmHg, cholesterol levels, symptom free days, years of life saved)	Results are expressed as dollars per case or per injury averted. Different incremental summary economic measures are reported (e.g Incremental cost-effectiveness ratio)
Cost Utility Analysis (CUA)	Costs measured in monetary units (e.g Dollars)	Benefits expressed in summary measures as combined quantity and quality measures (e.g QALY, DALY etc)	Two dimensions of effects measured (quality and length of life); results are expressed for example as cost per QALY
Cost Benefit Analysis (CBA)	Costs measured in monetary units (e.g Dollars)	Benefits measured in monetary units (e.g Dollars)	Benefits are difficult to measure monetarily, values used are Net Present Value (NPV) and Benefit Cost Ratio (BCR)

Resultados de estudos económicos





Health Management & Assessment

Best Practice

Evidence-based information sheets for health professionals

The effectiveness of group visits for patients with heart failure on knowledge, quality of life, self-care, and bospitalizations

O que tem que ter uma recomendação

Recommendations'

• For patients with heart failure, clinicians could use group visits as a method of providing patient centered care that allows the clinician to see a large number of patients in a short time period while providing education and health management. (Grade B)

*For a definition of JBI's 'Grades of Recommendation' please see the last page of this sheet

A população (idade, sexo, condição clínica...)

Intervenção

International rule!

Acta joined the ICMJE and EQUATOR network initiatives to improve presentation of study results, not only to an increase in potential publication but also for international dissemination of articles. Therefore, the following international guides must be used: *Consolidated criteria for reporting qualitative research (COREQ): a 32-item checklist for interviews and focus groups (published in the Int. Journal for Quality in Health Care, 2007).

Studies or trials	Statements
Randomized clinical trial	<u>CONSORT</u>
Systematic reviews and meta-analyzes	PRISMA
Observational studies in epidemiology	<u>STROBE</u>
Qualitative studies	COREQ*

Revisão Sistemática segundo a abordagem JBI

- <u>Registar título</u>
- Protocolo e sua submissão
- Realização da revisão com recurso ao JBI-SUMARI
- <u>Submissão do relatório final da revisão.</u>
- <u>PDF</u>





JBI Critical Appraisal Checklist for Systematic Reviews and Research Syntheses

Rev Aut	iewer	Date Year	arRecord Number		
		Yes	No	Unclear	Not
1.	Is the review question clearly and explicitly stated?				
2.	Were the inclusion criteria appropriate for the review question?				
3.	Was the search strategy appropriate?				
4.	Were the sources and resources used to search for studies adequate?				
5.	Were the criteria for appraising studies appropriate?				
6.	Was critical appraisal conducted by two or more reviewers independently?				
7.	Were there methods to minimize errors in data extraction?				
8.	Were the methods used to combine studies appropriate?				
9-	Was the likelihood of publication bias assessed?				
10.	Were recommendations for policy and/or practice supported by the reported data?				
11.	Were the specific directives for new research appropriate?				
Ove	rall appraisal: Include Exclude			Seek furt	her info

Table 1. Checklist of Items to Include When Reporting a Systematic Review or Meta-Analysis

Section/Topic	Item #	Checklist Item	Reported on Page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., 1 ²) for each meta-analysis.	
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome-level assessment (see Item 12).	
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group and (b) effect estimates and confidence intervals, ideally with a forest plot.	
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., health care providers, users, and policy makers)	
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review level (e.g., incomplete retrieval of identified research, reporting bias).	
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	

Table 2. Substantive Specific Changes Between the QUOROM Checklist and the PRISMA Checklist*

Section/Topic	Item	QUOROM	PRISMA	Comment
Abstract		V	\checkmark	QUOROM and PRISMA ask authors to report an abstract. However, PRISMA is not specific about format.
Introduction	Objective		V	This new item (4) addresses the explicit question the review addresses using the PICO reporting system (which describes the participants, interventions, comparisons, and outcome[s] of the systematic review), together with the specification of the type of study design (PICOS); the item is linked to Items 6, 11, and 18 of the checklist.
Methods	Protocol		V	This new item (5) asks authors to report whether the review has a protocol and if so how it can be accessed.
Methods	Search	V	V	Although reporting the search is present in both QUOROM and PRISMA checklists, PRISMA asks authors to provide a full description of at least one electronic search strategy (Item 8). Without such information it is impossible to repeat the authors' search.
Methods	Assessment of risk of bias in included studies	\checkmark	V	Renamed from "quality assessment" in QUOROM. This item (12) is linked with reporting this information in the results (Item 19). The new concept of "outcome-level" assessment has been introduced.
Methods	Assessment of risk of bias across studies		V	This new item (15) asks authors to describe any assessments of risk of bias in the review, such as selective reporting within the included studies. This item is linked with reporting this information in the results (Item 22).
Discussion		V	V	Although both QUOROM and PRISMA checklists address the discussion section, PRISMA devotes three items (24–26) to the discussion. In PRISMA the main types of limitations are explicitly stated and their discussion required.
Funding			V	This new item (27) asks authors to provide information on any sources of funding for the systematic review.

* A tick indicates the presence of the topic in QUOROM or PRISMA.

Verificar se há revisões que tenham sintetizado a evidência

 Any entity considering doing a JBI review should first check there are no existing systematic reviews on the topic (e.g. check JBI, Cochrane, Medline and CRD as a minimum);

Centre for Reviews and Dissemination

- check that there are no <u>existing protocols</u> on the topic (e.g. check JBI, Cochrane and PROSPERO as a minimum);
- and check the <u>Title Registration Page</u> to ensure the title has not been registered by another entity in the preceding 6 months.



The JBI SRL





The JBI Software



System for the Unified Management, Assessment and Review of Information

JBI CReMS - JBI Comprehensive Review Management System JBI QARI - JBI Qualitative Assessment and Review Instrument JBI NOTARI - JBI Narrative, Opinion and Text Assessment and Review Instrument JBI MAStARI - JBI Meta Analysis of Statistics Assessment and Review Instrument JBI ACTUARI - JBI Analysis of Cost, Technology and Utilisation Assessment and Review Instrument.





Developing a Review question and inclusion criteria



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Question Development

- Aim is to inform readers of the nature and detail of the review, and to provide guidance to the development of review criteria
- A good question supports the review, a poor question risks confounding the review
- A good question responds to identified priorities and needs

Question Development

- Reviews of effects & economics:
 - Population
 - Intervention
 - Comparator
 - Outcome

- Reviews of qualitative & Textual data:
 - Population
 - Phenomena of Interest

- Context

Scoping: PCC (Population, Concept, Context)

Questions of the effects of interventions

• Population:

- The most important characteristics, including:
 - demographic factors of the population (e.g. age, gender, ethnicity)
 - socioeconomic factors
 - the setting (e.g. hospital, community etc)

Questions of the effects of interventions

- Intervention and Comparator
 - Primary intervention of interest (treatment group)
 - -Comparator (control group)
 - Passive (placebo, no treatment, standard care, or a waiting list control)
 - Active (variation of the intervention, a drug, or kind of therapy)

Questions of the effects of interventions

Outcomes

- Identify the primary outcome/s in order to reach a clinically relevant conclusion
- Secondary outcomes may be required
- Outcomes: (e.g. mortality; strokes or myocardial infarction; symptoms; quality of life; demands on caregivers; restrictions on lifestyle; cost and resource use...)
- Consider how outcomes may be measured: (e.g. blood pressure, number of strokes; disability scales...).

Example: Question of the effects

 Are antiseptic washes more effective than nonantiseptic washes at preventing nosocomial infections in patients undergoing surgery?



Example Qualitative

 What are caregivers experiences of providing home-based care to persons with HIV/AIDS in Africa?



 What are caregivers experiences of providing home-based care to persons with HIV/AIDS in Africa?



Example Scoping

 What non-pharmacological interventions have been implemented and evaluated to provide comfort in patients with incurable and advanced disease in paliative care?

PCC (Population, Concept, Context)

Example Scoping

Population

-Patients with 18 years of age or older, assisted by palliative care teams.

Concept

-Non-pharmacological interventions implemented and evaluated in palliative care, to provide comfort.

Context

-Palliative Care. This will include, exclusively, home care, hospices or palliative care units.

Make some stronger statements explaining the rationale for the scoping review in more concrete terms. This is one of the hardest things about scoping reviews

Scoping reviews don't have immediately obvious value unless it's clearly stated.

This is where topic expertise comes.

- State what the scoping review will achieve by mapping the evidence in a certain way What are the 'big questions' in field of non-pharmacological interventions for the care of patients in palliative care?

It appears that this review is intended as a basis for a future potential systematic review, so what evidence needs to be examined and mapped to provide directions for this review?

What is it about the state of the evidence that means that a review of effectiveness or experience cannot/should not be undertaken yet? Is the evidence disparate?

(e.g. includes a diverse and heterogeneous mix of interventions/populations/approaches/terminology etc) so moving straight to a systematic review would be hard.

Or are there important questions about the nature of the evidence that need to be answered before a precise question of effectiveness can be pitched?

– it's easy to say why a systematic review of effectiveness is useful and necessary – they tell us what the most effective intervention is.

Having this objective stated up front in the protocol will help your team immensely when it comes to selecting studies, extracting data, and mapping the evidence and explaining what it means

PICO / PICo / PCC

- Constructing a well-built clinical question is a fundamental skill
- Divide your question following the PICO/PICo/PCC model
- The question operationalizes the review by forming the basis for inclusion and exclusion criteria

Aim

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The effectiveness of cleansing solutions for wound treatment: a systematic review

Paulo Queirós, RN, PhD¹ Eduardo Santos, RN¹ João Apóstolo, RN, PhD¹ Daniela Cardoso, RN¹ Madalena Cunha, RN, PhD² Manuel Rodrigues, RN, PhD, Aggregation¹

EX: The objective of this review is to identify and synthesize the best available evidence on the effectiveness of cleansing solutions for wound treatment in clinical practice.
Review Questions

EX: More specifically, the review focuses on the following questions:

- Does the effectiveness of different cleansing solutions influence infection and wound healing rates?
- Which cleansing solution is more effective for reducing wound infection rates?
- Which cleansing solution is more effective for increasing wound healing rates?
- Is the effectiveness of cleansing solutions affected by wound aetiology?

Group Work 1

- Write a PICO question
- Reporting back

Protocol (RS)

- Background
- Objectivos
- Questão de Revisão
- Critérios para considerar estudos para a revisão
 - Tipo de participantes
 - Tipo de intervenções
 - Tipo de medidas de resultados
 - Tipo de estudos
- Estratégia de pesquisa
- Métodos da revisão
 - Avaliação da qualidade metodológica
 - Extracção de dados
 - Síntese dos dados
- Referências

Background (RS)

Questions to consider:

- Does the background cover all the population, phenomenon of interest and the context for the systematic review (PICO)?
- Are operational definitions provided?
- Are the inclusion criteria putted into context?
- Do systematic reviews already exist on the topic?
- Why is this review important?

Background (RS)

- Justify the conduct of the review
- Approximately 1000 words
- The background section should conclude with a statement that:
 - A preliminary search for existing systematic reviews on the topic have been conducted (state the databases searched e.g. JBI Library, Cochrane Library, CINAHL, PubMed, PROSPERO where relevant).
 - If there is an existing systematic review, it should be specified how the proposed review will differ.

Inclusion/Exclusion criteria

The protocol describes the criteria that will be used to select the literature. It is important to be precise in defining the inclusion criteria, as the reader of the review report needs to know the focus and limitations of the review. Inclusion criteria address:

- The types of studies to be included (for example, randomized controlled trials, pseudorandomized controlled trials; or interpretive studies);
- The intervention, activity or phenomenon of interest (and, in an effectiveness review, a comparator);
- The outcome(s) of interest;
- The specific study population(s);
- Language of publication (for example, English only; or English, German, Spanish and Japanese, etc);
- The time period (for example, study reports published or made available 2000–2011)

The exclusion criteria should either be explicitly stated or inherently apparent in the inclusion criteria.

Exemple - The effectiveness of cleansing solutions for wound treatment in clinical practice http://joannabriggslibrary.org/index.php/jbisr ir/article/view/527/1227

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CReMS Comprehensive Review Management System CReMS is a module of the SUMMARI software package

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CReMS

Impor	t Studies Chline	негр							
Add S	tudy	Review Summary	Protocol	Studies Repo	ort Builder	Report View			
of Citat	tions: 5								
System	IC Author(s) Year	Title Journal Volu	ume Iss	ue Page(s)	Qari	Notari Masta	ari Actuari	Reference	Delete
3323	Cooke, H. 2006	Organiz		166					
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	Norton, 2010	Predicto Aging M 14	3	303-9	Ā	ă ă	Ē	Ē	Ā
3328		FCC	2	159 63					

- Guardar referências no Endnote em formato "author-date" e em xml.
- Importar os estudos (REF.)



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Developing a Search Strategy: A guide to evidence based information retrieval Formulate PICO/PICo Question **Develop Search** Strategy Searching for the **Evidence Selecting Studies**

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Developing a search strategy is a real skill



Search Strategy

- Features of search strategy
 - Sensitivity ability to identify all the relevant studies
 - Specificity ability to exclude irrelevant studies, also known as precision
- Inverse relationship between sensitivity and specificity – means that a large number of articles retrieved may not be relevant to the review question
 - High sensitivity will tend to have low specificity



- Initial Search
 - initial search of MEDLINE, CINAHL, followed by analysis of text words in the title and abstract
- Second Search
 - all identified key words and index terms across all databases
- Third Search
 - references of identified studies, unpublished studies, grey literature, government and societal websites, experts etc

Search strategy

JBI Database of Systematic Reviews & Implementation Reports

2014;12(10) 121 - 151

The effectiveness of cleansing solutions for wound treatment: a systematic review

Paulo Queirós, RN, PhD¹

Eduardo Santos, RN¹

João Apóstolo, RN, PhD¹

Daniela Cardoso, RN¹

Madalena Cunha, RN, PhD²

Manuel Rodrigues, RN, PhD, Aggregation¹

 Studies published in English, Spanish and Portuguese published from January 1990 to January 2013 were considered for inclusion in this review

Included Databases

For published studies

- CINAHL Plus with Full Text, MedicLatina, Academic Search Complete, MEDLINE with Full Text, Cochrane Database of Systematic Reviews, Cochrane Central Register of Controlled Trials, Nursing & Allied Health Collection: Comprehensive (via EBSCO);
- LILACS;
- Elsevier Science Direct (via b-on Online Knowledge Library);
- Embase;
- Scopus;
- JBI Library;
- ACP online;
- BioMed Central;
- Health Technology Assessment database;
- Scielo Scientific Electronic Library Online.

For unpublished studies

- 'Grey Literature Report' from New York Academy of Medicine;
- Mednar;
- Scirus.com website;
- National Library of Australia's Trove service;
- ProQuest Nursing and Allied Health Source Dissertations;
- Banco de teses da CAPES (www.capes.gov.br);
- RCAAP Repositório Científico de Acesso Aberto de Portugal.

MEDLINE

Search Formula	Limiters	Results
(TI wound*) AND (AB infect* OR AB heal* OR AB clean*) AND (AB irrigat* OR AB bath* OR AB shower* OR AB water* OR AB "sodium chloride" OR AB detergent* OR AB povidone-iodine OR AB hydrotherapy OR AB chlorhexidine)	Published Date from: 19900101-20131231; Language: English, Portuguese, Spanish	789

Scopus

Search Formula	Results
(TITLE(wound*) AND TITLE-ABS-KEY(infect* OR heal* OR clean*) AND TITLE-ABS-KEY(irrigat* OR bath* OR shower* OR water* OR "sodium chloride" OR detergent* OR povidone-iodine OR hydrotherapy OR chlorhexidine OR polihexanide)) AND SUBJAREA(mult OR agri OR bioc OR immu OR neur OR phar OR mult OR medi OR nurs OR vete OR dent OR heal) AND PUBYEAR > 1989 AND (LIMIT-TO(LANGUAGE, "English") OR LIMIT-TO(LANGUAGE, "Spanish") OR	1840

'Grey Literature Report' from New York Academy of Medicine

Search Formula	Limiters	Results
Words in the Full text	Published Date from:	0
wound* AND (infect* OR heal* OR clean*)	1990-2013	

ACP Hospitalist

Search Formula	Results
with all of the words » "wound cleansing"	18

ACP Internist

Search Formula	Results
with all of the words » "wound cleansing"	10





Selecting Studies



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Selection Process

- Aims to select only those studies that address the review question and that match the inclusion criteria documented in your protocol
- Scan titles and abstracts
- If uncertain? Retrieve scan full text
- The selection should be:
 - Transparent
 - Reproducible

Example

- Is the article published in the stated years?
- Does the population studied meet the criteria?
 E.g. adults or children or both?
- Does the study look at the interventions or phenomena stated in the research question
 - E.g. oral or I.V. administration
- Is it the correct study design?
 - E.g. RCT or meta-analysis

Inclusion Criteria

Participants	Patients aged 18 years or more in any setting, excluding malnourished patients, and with chronic and acute wounds, excluding obstetric wounds
Interven-	Any cleansing or antiseptic solution or chemicals
tion	
Outcome	Primary outcome: infection rate
	Secondary outcome: healing rate
Types of studies	Any experimental study design, including randomized controlled trials, non-randomized controlled trials, or other quasi-experimental studies, including before and after studies.

The effectiveness of cleansing solutions for wound treatment: a systematic review



Figure 1: Flowchart for the search and study selection process





The Critical Appraisal of Studies



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Why Critically Appraise?

 Combining results of poor quality research may lead to biased or misleading estimates of effectiveness

The Aims of Critical Appraisal

- To establish validity
 - to establish the risk of bias

Evidence synthesis Systematic Review



CRITICAL APRAISAL To establish validity (Quality)

Sources of Bias

Bias, or systematic error, may impact on experimental research from a variety of avenues.

- Selection
- Performance
- Detection
- Attrition

Assessing the Risk of Bias

Type of bigs	Quality according to	Population Allocation			
Type of blas	Quanty assessment				
Selection	on Allocation concealment		Control		
Performance (Differences in the intervention)	Blinding (Avoided by blinding of investigators and/or participants to group)	Exposed to intervention	Not exposed		
Detection (Outcome/ measurement)	Blinding (Avoided by blinding of outcome assessor)	Population	Population		
Attrition (Withdrawals and exclusions between groups)	ITT follow up (Avoided by accurate reporting of losses and reasons for withdrawal) (Use of ITT analysis)	Follow up	Follow up		



CASP CHECKLISTS

http://www.casp-uk.net/#!casp-tools-checklists/c18f8

- CASP Checklists (click to download)
- <u>CASP Systematic Review Checklist</u>
- <u>CASP Qualitative Checklist</u>
- <u>CASP Randomised Controlled Trial Checklist</u>
- <u>CASP Case Control Checklist</u>
- <u>CASP Cohort Study Checklist</u>
- <u>CASP Clinical Prediction Rule Checklist</u>
- <u>CASP Diagnostic Checklist</u>
- <u>CASP Economic Evaluation Checklist</u>

Bias: Selection (allocation), Performance (intervention), Detection (outcome) and Attrition.

MAStARI – Assessment RCT/Pseudo-randomised trial

THE JOANNA BRIGGS I	Briggs Institute and Wolters Kuwer Health - Ovid Meta Analycis of Statistics Assessment and Review Instrument					
MASUARI	Reviews Study		Logou			Abou
Select Detail Assessment Extraction	Assessment for : Wang, Jing-Jy, Hsu, Ya-Chuan, Cheng, Su-Fen - International Jour Type: Primary User: j.apostolo Design: Randomised Control Trial / Pseudo-randomised Trial	rnal of Nur	sing Stud	dies (2005	5)	
Results Mota-Analysis	Criteria	Yes	No	Unclear	Not Applicable	Comment
meta-Analysis	1) Was the assignment to treatment groups truly random?	\circ	۲	O	0	
	2) Were participants blinded to treatment allocation?	۲	0	O	0	
	3) Was allocation to treatment groups concealed from the allocator	0	0	۲	0	
	4) Were the outcomes of people who withdrew described and included in the analysis ?	\odot	۲	0	0	
	5) Were those assessing outcomes blind to the treatment allocation?	\odot	0	۲	0	
	6) Were the control and treatment groups comparable at entry?	۲	0	0	0	
	7) Were groups treated identically other than for the named interventions?	۲	0	0	0	
	8) Were outcomes measured in the same way for all groups?	۲	0	0	0	
	9) Were outcomes measured in a reliable way?	۲	0	O	0	
		-	-	-		

Assessing Study Quality as a Basis for Inclusion in a Review



You may decide 6/10 or 8/10. You may exclude any study which fails question 1 and you' re not convinced the randomization process was adequate

The effectiveness of cleansing solutions for wound treatment: a systematic review

Paulo Queirós, RN, PhD¹ Eduardo Santos, RN¹ João Apóstolo, RN, PhD¹ Daniela Cardoso, RN¹ Madalena Cunha, RN, PhD² Manuel Rodrigues, RN, PhD, Aggregation¹

Number of studies included	Number of studies excluded
3	5

Table 2: Randomized controlled trial/pseudo-randomized trial

Citation	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q 8	Q9	Q10
[8] Moscati et al., 2007	U	Ν	Y	N	U	Y	Y	Y	Y	Y
[17] Griffiths et al., 2001	U	Y	Y	Y	Y	U	Y	Y	Y	Y
[27] Walker and Smith, 2013	U	U	U	Ν	Y	Y	Y	Y	Y	Y
%	0.00	33.3 3	66.6 7	33.3 3	66.6 7	66.6 7	100. 00	100. 00	100. 00	100. 00

Y = yes; N = no; U = unclear

MAStARI – Assessment Cohort and Case-control studies

	Criteria	Yes	No	Unclear	Not Applicable
1)	Is sample representative of patients in the population as a whole?	Θ	Θ	Θ	Θ
2)	Are the patients at a similar point in the course of their condition/illness?	Θ	Θ	Θ	0
3)	Has bias been minimised in relation to selection of cases and of controls?	Θ	Θ	Θ	0
4)	Are confounding factors identified and strategies to deal with them stated?	Θ	Θ	Θ	0
5)	Are outcomes assessed using objective criteria?	Ο	Θ	Θ	Θ
6)	Was follow up carried out over a sufficient time period?	0	Θ	Θ	Θ
7)	Were the outcomes of people who withdrew described and included in the analysis?	Ο	0	0	Ο
8)	Were outcomes measured in a reliable way?	Θ	Θ	Θ	0
9)	Was appropriate statistical analysis used?	Θ	0	Θ	Θ

MAStARI – Assessment Descriptive/case series studies

	Criteria	Yes	No	Unclear	Not Applicable
1)	Was study based on a random or pseudo-random sample?	Θ	Θ	Θ	Θ
2)	Were the criteria for inclusion in the sample clearly defined?	Θ	Θ	Θ	0
3)	Were confounding factors identified and strategies to deal with them stated?	Θ	Θ	Ο	0
4)	Were outcomes assessed using objective criteria?	Θ	Ο	Ο	0
5)	If comparisons are being made, was there sufficient descriptions of the groups?	Θ	Θ	Θ	0
6)	Was follow up carried out over a sufficient time period?	Θ	Θ	Θ	Θ
7)	Were the outcomes of people who withdrew described and included in the analysis?	Θ	Θ	Θ	0
8)	Were outcomes measured in a reliable way?	Θ	Θ	Θ	Θ
9)	Was appropriate statistical analysis used?	Θ	0	0	0

As the word 'pseudo' suggests, pseudo-random numbers are not random in the way you might expect, at least not if you're used to dice rolls or lottery tickets. Essentially, PRNGs are algorithms that use mathematical formulae or simply precalculated tables to produce sequences of numbers that appear random
MAStARI Data Extraction Instrument

Author	Record Number
Journal	
Year	
Reviewer	
Method	
Setting	
Participants (male or female)	
Number of Partici	pants
Group A	Group B Group C
Interventions	
Intervention A	
Intervention B	

Outcome Measures		
Outcome Description	Scale/Measure	

Results

Dichotomous Data

Outcome	Treatment Group Number/total number	Control Group Number/total number

Continuous Data

Outcome	Treatment Group	Control Group
	Mean & SD (number)	Mean & SD (number)

Authors Conclusion

Reviewers Conclusion

When meta-analysis can be used

- Meta analysis can be used if studies:
 - have the same population
 - use the same intervention administered in the same way.
 - measure the same outcomes
- Homogeneity
 - studies are sufficiently similar to estimate an average effect.

Each study being allocated a weighted percentage. This can depend on the number of participants, the number of events, and the level of variance

Review: The effect of music on arousal

Comparison: 01 Music Vs No music

Outcome: 01 STAI - State Trait Anxiety Inventory

Pode-se ponderar retirar um estudo da meta-análise que tenha muito peso. Optar de seguida e justificar ou apresentar os dois gráficos. Discutir caso mantenha o estudo com muito peso

Study or sub-category	N	Music Mean (SD)	N	No music Mean (SD)		VMD (fixed) 95% Cl	Weight %	WMD (fixed) 95% Cl
Winter et al.	31	41.50(1.80)	19	44.30(2.80)		-	94.36	-2.80 [-4.21, -1.39]
Augustin & Hains	21	35.38(9.44)	21	33.42(9.62)			- 5.64	1.96 [-3.80, 7.72]
Total (95% Cl) Test for beterogeneity: Chi	52 2 - 2 / 7 / f - 1 /D	- 0 12) 12 - 50 5%	40			•	100.00	-2.53 [-3.90, -1.16]
Test for overall effect: Z =	3.62 (P = 0.0003)	-0.12),1 - 33.3 %				A wi	de CI, w	hich crosses
overall statis	tical sig	nificance.			-10 Favours	-5 0 5 treatment Favours.com	i 10 ttrol	

Tests of Heterogeneity

 Measure extent to which observed study outcomes differ from calculated study outcome

- Visually inspect Forest Plot. Size of Cl
- χ^2 Test for homogeneity
- We don't want this to be less than 0.05

Quantifying inconsistency $I^2 = \left(\frac{Q - df}{Q}\right) \times 100\%$

- 0% to 40%: might not be important;
- 30% to 60%: may represent moderate heterogeneity*;
- 50% to 90%: may represent substantial heterogeneity*;
- 75% to 100%: considerable heterogeneity*.

Q is the chi-squared statistic and df is its degrees of freedom (Higgins 2002, Higgins 2003). *The importance of the observed value of I² depends on (i) magnitude and direction of effects and (ii) strength of evidence for heterogeneity (e.g. P value from the chi-squared test, or a confidence interval for I²).

http://handbook.cochrane.org/chapter_9/9_5_2_identifying_and_measuring_heterogeneity.htm





MAStARI - Intervention





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MAStARI - Meta Analysis of Statistics A	ssessment and Review Instrument		
Reviews	Study	Logout	About

Select	Intervention A description for: Wang, Jing-Jy, Hsu, Ya-Chuan, Cheng, Su-Fen - International Journal of Nursing Studies (2005)						
Detail Assessment Extraction	Drop down menu will display existing Interventions for the currently selected review. Upon selecting an existing intervention, the abbreviation is automatically shown in the box on the right. New intervention and abbreviation can be inserted using the fields below.						
Results Meta-Analysis	Existing descriptions	Reminiscence Select new Intervention if you want to add a new Intervention					
	New description:	Reminiscence					
	New Abbreviation:	Re					
		< Back Save Details					

MAStARI – Continuous Results



DBL Data Entry

Delete Results

Table 2. Evolution of Experimental and Control Groups of Nursing Home Elders on Cognition and Depressive Symptoms

		Base	eline	Postinte	rv ention	Paired (baseline/p entio	<i>t-</i> test oostinterv on)	Mean dii (base /postinte	fference eline) rvention)	Repe mea	eated sures
Outcomes	Groups	М	SD	М	SD	t	pª	М	SD	F	р
Cognition (MoCA)	EG	17.22	5.04	19.00	5.82	-2.388	.013	1.78	3.58	8.581	.005
	CG	16.88	4.68	15.88	4.82	1.659	.055	-1.00	3.01		
Depressive	EG	6.17	4.36	5.61	3.70	1.084	.145	0.57	2.50	1.090	.302
symp- toms (GDS-15)	CG	6.88	3.88	7.08	3.59	-0.397	.348	-0.20	2.52		

Note EG = experimental group; CG = control group; MoCA = Montreal Cognitive Assessment; GDS-15 = Geriatric Depression Scale-15. ^aOne-tailed.

MAStARI – Dichotomous Results



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С

MAStARI -	Meta Analysis of Statist	ics Assessment and R	leview Instrument		
	Reviews		Study	Logout	About
Select Detail	Dichotomous Results for: V	Vang, Jing-Jy, Hsu, Ya-Ch	uan, Cheng, Su-Fen - Interna	itional Journal of Nursing Studies (2005)	
Assessment	Intervention	Result			
Extraction Results		n N			
Meta-Analysis	Re				
	v			N – the total num	her of
	Со			norticipante in th	
	< back DBL Data	Entry Delete Results		participants in th	egroup
n	- the numb	er of partic	cipants		

MAStARI

JBI SUMARI waliado, se foi incluído ou excluído.

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Add

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Q

MAStARI -	Meta Analysis of Sta	atistics Assessment and Review Instrument					
	Reviews	Study	Logout			Ab ut	
Select Detail Assessment Extraction Results Meta-Analysis	Studies in "The effective This page is used to man down box can be used to All filter # of Citations: 4	veness of nonpharmacological nursing interventions in e age the retrieved Studies. From this page, Studies can be sele filter studies as new, included, excluded, extracted or finished	Iderly with depressive disorders cted to perform assessment and ext	: a syst e	em tic rev and o deve	riew Iop F ndings.	The drop
	Author	Title	Journal	Year	Status	Assessment	Actions
	<u>Jing-Jy Wang</u>	The effects of reminiscence on depressive symptoms and mood status of older institutionalized adults in Taiwan	INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY	2005 E	Extraction	Complete	<u>Edit</u> Delete
	<u>Jing-Jy Wang, Ya-</u> <u>Chuan Hsu, Su-Fen</u> <u>Cheng</u>	The effects of reminiscence in promoting mental health of Taiwanese elderly	International Journal of Nursing Studies	2005 E	Extraction	Complete	<u>Edit</u> <u>Delete</u>
	ddd	ddd	ddd	2012	Included	Complete	<u>Edit</u> Delete
	rrrr	rrrrr	rrrr	2011	New	Awaiting Final	<u>Edit</u> <u>Delete</u>
		1 10 V records	per page				

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MAStARI - Extraction

MASUAIXI	MCta Analysis	of Stausues Assessin	CIICATIO INCVICIÓ INSU UNIC	anc		
	Reviews		Study	Logou	t	About
Select Detail Assessment	Extraction Det randomised Tr Study Informa	ails: Wang, Jing-Jy, Hsu, Y ial tion	'a-Chuan, Cheng, Su-Fen - Inte	ernational Journal of Nursing St	tudies (2005) - Randomised	Control Trial / Pseudo-
Extraction	* denotes field	which will appear in report ap	opendix			
Results Meta-Analysis	Method *	longitudinal quasi-experimental	l design			
	Setting	elderly people residing in comr	munity care facilities and at home.]	
	Participants *	94 institutionalized an verbal communication, a demonstrating no obviou	d home older adults aged 65 ble to speak either Mandarir s cognitive impairments.	years or older, capable of h or Taiwanese, and		
	# Participants	Group A: 46 Gi	roup B: 48			
	Interventions	Interventions A: * Reminiscence - weekly f months. Interventions B: * control - any intervent	or approximately 30 min to 2	2 h over a period of 4 .d		
	Authors Conclusion			h		
	Reviewers Comments *			'n		
	Complete	No				

MAStARI - Results



Select	Results For: Wang, Jing-Jy, Hsu, Ya-Chuan, Cheng, Su-Fen - International Journal of Nursing Studies (2005)
Detail	Randomised Control Trial / Pseudo-randomised Trial

Study

Extraction	Review Outcome	Intervention A	Intervention B	
Results	Depression	Re	Co	Results Delete Outcome
Meta-Analysis	depression Y/N	Re	Co	Results Delete Outcome
	Add Review Outcome			

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About

MAStARI - Outcome

Como criar um outcome?



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MAStARI -	Meta Analysis of	Statistics Assessment and Review Instrument			
	Reviews	Study	Logout		About
Select	Outcome title for:	Wang, Jing-Jy, Hsu, Ya-Chuan, Cheng, Su-Fen - International J	ournal of Nursing Studies	5 (2005)	
Detail Assessment Extraction	Drop down menu will display existing Titles from studies of the currently selected review. Select an existing title to maintain consistency. A new title can be inserted using the field below.				
Results Meta-Analysis	Existing titles	Depression - Select new title if you want to add a new outcom	me		
	New Title	Depression			
	Data Type	Dichotomous 💿 Continuous 💿			
	Description	Depressive symptoms were characterized as sadness, low m self-criticism and self-blame, retardation or agitation, concentration, and appetite and sleep disturbances.	lood, pessimism, slow thinking, poor		
	Measure/Scale	Geriatric Depression Scale short form Chinese version (G (1996). GDS-SF contains 15 items related to psychophysic of depression.	DS-SF) by Chan Dogical indicators		
	New Subgroup:				
	Existing Subgroup:	Delete			
		Save Details Cancel Delete Review Outcome			

MAStARI – Subgroup analysis



Síntese de estudos qualitativos JBI-QARI

Qualitative Methodologies

Action/Description	Subjectivity	Analytical	
	Structures of Consciousness		
Ethnography	Phenomenology	Conceptual/Analytical	
Grounded Theory	Ethnomethodology	Historical	
Action Research	Hermeneutic	Discourse Analysis	
Case Studies	Phenomenography	Biographical/textual/narrative	
Descriptive		Cultural/media analysis	
Programme Evaluation		Deconstructive analysis	

Congruity between Paradigm, Methodology and Methods

Quality - Qualitative studies

Analogous criteria for paradigmatic assumptions

Quantitative	Qualitative
Reliability	Dependability
Confiabilidade	Confiança/Segurança
(Reprodutividade das	(Consistência da Qualidade - <u>grelha</u>)
medidas)	Ontology; Epistemology; Methodology
Internal Validity	Credibility
	Findings: Unequivocal, credible,
	unsupported).
External Validity	Transferability

QARI – Assessment (final)

	Criteria	Primary	Secondary	Yes	No	Unclear	Not Applicable
1)	There is congruity between the stated philosophical perspective and the research methodology.	Yes	Yes	0	0	0	0
2)	There is congruity between the research methodology and the research question or objectives.	Yes	Yes	0	0	0	0
3)	There is congruity between the research methodology and the methods used to collect data.	Yes	Yes	۲	0	0	0
4)	There is congruity between the research methodology and the representation and analysis of data.	Yes	Yes	۲	0	0	0
5)	There is congruity between the research methodology and the interpretation of results.	Yes	Yes	۲	0	0	0
6)	There is a statement locating the researcher culturally or theoretically.	Yes	Yes	۲	0	0	0
7)	The influence of the researcher on the research, and vice-versa, is addressed.	Yes	Yes	۲	0	0	0
8)	Participants, and their voices, are adequately represented.	Yes	Yes	۲	0	0	0
9)	The research is ethical according to current criteria or, for recent studies, there is evidence of ethical approval by an appropriate body.	Yes	Yes	۲	0	0	0
10)	Conclusions drawn in the research report do appear to flow from the analysis, or interpretation, of the data.	Yes	Yes	0	0	0	0

METASYNTHESIS OF QUALITATIVE RESEARCH STUDIES



SYNTHESIS

CATEGORIES

FINDINGS

There should be a strategy to help clinicians assess and address the psychosocial needs of skin cancer patients: Patients given a diagnosis of skin cancer experience extreme emotional responses and develop specific coping responses to help the deal with their emotions On receiving a diagnosis of skin cancer individuals experience a strong emotional response such as anxiety, shock and panic result.

Individuals develop a range of mechanism to help them cope with a diagnosis of skin cancer Diagnosis When the diagnosis of cancer is confirmed it frequently induces significant emotional distress for the patient

Reaction to diagnosis

MM Reaction to the diagnosis

Trivialisation-attempts to rationalise the diagnosis with the good

Making sense of the disease

Adaptation to the disease - minimizing the experience

MM Coping - information seeking/religious faith

MM - Making sense of the disease - social comparison /causal

MM - Adaptation to the disease - changing behaviours

There is a need to address the lack of awareness regarding the symptoms of skin cancer and promote early detection through public education: Individuals delay seeking medical help but once a diagnosis is given and the intial emotional response subsides, patients express satisfaction with their care Once the initial emotional response to a diagnosis subsides individuals express satisfaction with their experience of care

Satisfaction with care-causal attributions

MM Treatment/satisfaction with care

Individuals delay seeking medical advice in relation to symptoms associated with skin cancer often trivialising their significance

Seeking medical help

Recommendations arising

- There is a real need to increase knowledge of skin cancer so that people do not delay in seeking medical help as early diagnosis can dramatically improve both prognosis and the patient experience since early lesions are treated more simply compared with larger or neglected lesions.
- Health professionals caring for these patients need to understand the psychosocial concerns of this patient group in order to design services appropriately and to provide patients with the support they need and information that they can easily understand.

Levels of Credibility- Qualitative

Unequivocal - relates to evidence beyond reasonable doubt

Credible - those that are, albeit interpretations, plausible in light of data and theoretical framework.

Not Supported - when 1 nor 2 apply and when most notably findings are not supported by the data

- Should not be included in synthesis to inform practice

Levels of Evidence and Grades of Recommendation

• Following the GRADE guidance JBI has developed its own unique Levels of Evidence and Grades of recommendation.

GRADE: (Grading of Recommendations Assessment, Development and Evaluation)

Grading quality

GRADE Working Group

Clinical guidelines are onl make it easier for users to

Summary

Users of clinical practice guid need to know how much recommendations. Systemati judgments can reduce errors have developed a system for the strength of recommenda wide range of interventions present a summary of our a guideline user. Judgments ab tion require consideration of harms, the quality of the evinto specific circumstances, a



It is also important to consider costs (resource utilisation) before making a recommendation. Inconsistencies among systems for

Levels of Evidence

- According to **study design** allows to assign a Pre-Ranking
 - Except the levels of evidence for costs They are not based purely on study design.
- Should not be used as a <u>definitive measure of the best</u> <u>available evidence.</u>
- Should not act as <u>a substitute for critical appraisal</u> and <u>clinical</u>
 <u>reasoning</u>

Levels of Evidence - Effectiv	veness
-------------------------------	--------

l evel 1 –	Level 1.a – Systematic review of Randomized Controlled Trials (RCTs)
	Level 1.b – Systematic review of RCTs and other study designs
Experimental Designs	Level 1.c – RCT
	Level 1.d – Pseudo-RCTs
	Level 2.a – Systematic review of quasi-experimental studies
Level 2 – Quasi-	Level 2.b – Systematic review of quasi-experimental and other lower study designs
experimental Designs	Level 2.c – Quasi-experimental prospectively controlled study
	Level 2.d – Pre-test – post-test or historic/retrospective control group study
	Level 3.a – Systematic review of comparable cohort studies
Level 3 –	Level 3.b – Systematic review of comparable cohort and other lower study designs
Observational –	Level 3.c – Cohort study with control group
Analytic Designs	Level 3.d – Case – controlled study
	Level 3.e – Observational study without a control group
Level 4 –	Level 4.a – Systematic review of descriptive studies
Observational	Level 4.b – Cross-sectional study
Observational –	Level 4.c – Case series
Descriptive Studies	Level 4.d – Case study
Level 5 – Expert Opinion and Bench	Level 5.a – Systematic review of expert opinion

Levels of Evidence	e - Diagnosis
Level 1 – Studies of Test Accuracy	Level 1.a – Systematic review of studies of test accuracy among consecutive patients
among consecutive patients	Level 1.b – Study of test accuracy among consecutive patients
Level 2 – Studies of Test Accuracy	Level 2.a – Systematic review of studies of test accuracy among non-consecutive patients
among non-consecutive patients	Level 2.b – Study of test accuracy among non- consecutive patients
Level 3 – Diagnostic Case control	Level 3.a – Systematic review of diagnostic case control studies
studies	Level 3.b – Diagnostic case-control study
Level 4 – Diagnostic yield studies	Level 4.a – Systematic review of diagnostic yield studies
on needed to <u>establish</u> a diagnosis	Level 4.b – Individual diagnostic yield study
	Level 5.a – Systematic review of expert opinion
Level 5 – Expert Opinion and Bench	Level 5.b – Expert consensus
Research	Level 5.c – Bench research/ single expert opinion
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Levels of Evidence	- Prognosis
Level 1 - Incention Cohort Studies	Level 1.a – Systematic review of inception cohort studies
	Level 1.b – Inception cohort study (initial diagnosis and followed)
Level 2 – Studies of All or none	Level 2.a – Systematic review of all or none studies
	Level 2.b – All or none studies
Level 3 - Cohort studies	Level 3.a – Systematic review of cohort studies (or control arm of RCT)
Level 5 – Conort Studies	Level 3.b – Cohort study (or control arm of RCT)
Level 4 – Case series/Case	Level 4.a – Systematic review of Case series/Case Controlled/ Historically Controlled studies
studies	Level 4.b – Individual Case series/Case Controlled/ Historically Controlled study
Level 5 – Expert Opinion and Bench	Level 5.a – Systematic review of expert opinion
	Level 5.b – Expert consensus
Research	Level 5.c – Bench research/ single expert opinion

Levels of Evidence - Meaningfulness

Level 1	Qualitative or mixed- methods systematic review
Level 2	Qualitative or mixed- methods synthesis
Level 3	Single qualitative study
Level 4	Systematic review of expert opinion
Level 5	Expert opinion

Levels of Evidence - Economic Evaluations

Level 1	Decision model with assumptions and variables informed by systematic review and tailored to fit the decision making context.
Level 2	Systematic review of economic evaluations conducted in a setting similar to the decision makers.
Level 3	Synthesis/review of economic evaluations undertaken in a setting similar to that in which the decision is to be made and which are of high quality (comprehensive and credible measurement of costs and health outcomes, sufficient time period covered, discounting, and sensitivity testing).
Level 4	Economic evaluation of high quality (comprehensive and credible measurement of costs and health outcomes, sufficient time period covered, discounting and sensitivity testing) and conducted in setting similar to the decision making context.
Level 5	Synthesis / review of economic evaluations of moderate and/or poor quality (insufficient coverage of costs and health effects, no discounting, no sensitivity testing, time period covered insufficient).
Level 6	Single economic evaluation of moderate or poor quality (see directly above level 5 description of studies).

Quality (Cut-off point)

Levels of Evidence

GRADE quality of the evidence - Quantitative

	Initially	
High	RCT	
Moderate		 Example of Downgrading factores: Risk of bias Imprecision of results
		Ex: Imprecision of results (-1 if <u>wide</u> confidence interval; -2 if <u>very wide</u> confidence interval)
Low	Observational	
Very		 Example of Upgrading factores: Dose response Large magnitude of effect (etc)
LOW		Ex: Large magnitude of effect (+1 level large effect; +2 if a very large effect)

if a

GRADE quality of the evidence - Qualitative

	Initially	
High	Qualitative	
Moderate	Text Opinion	 Example of Downgrading factores: Dependability (consistência) (5 items - critical appraisal)
Very Low		 Credibility (Findings: Unequivocal, credible, unsupported).
Quality of Evidence (Qualitative) - Dependability (5 items - critical appraisal) Ontology; Epistemology; Methodology

	Criteria	Primary	Secondary	Yes	No	Unclear	Not Applicable
1)	There is congruity between the stated philosophical perspective and the research methodology.	Yes	Yes	۲	0	0	0
2)	There is congruity between the research methodology and the research question or objectives.	Yes	Yes	۲	0	0	0
3)	There is congruity between the research methodology and the methods used to collect data.	Yes	Yes	۲	0	0	0
4)	There is congruity between the research methodology and the representation and analysis of data.	Yes	Yes	۲	0	0	0
5)	There is congruity between the research methodology and the interpretation of results.	Yes	Yes	۲	0	0	0
6)	There is a statement locating the researcher culturally or theoretically.	Yes	Yes	۲	0	0	0
7)	The influence of the researcher on the research, and vice-versa, is addressed.	Yes	Yes	۲	0	0	0
8)	Participants, and their voices, are adequately represented.	Yes	Yes	۲	0	0	0
9)	The research is ethical according to current criteria or, for recent studies, there is evidence of ethical approval by an appropriate body.	Yes	Yes	۲	0	0	0
10)	Conclusions drawn in the research report do appear to flow from the analysis, or interpretation, of the data.	Yes	Yes	۲	0	0	0

Quality of Evidence (**Text opinion**) - Dependability - 5 items - critical appraisal

Assessment for : Pearson A - Journal (2012)

Type: Primary

User: alan

	Criteria	Yes	No	Unclear	Not applicable	Comment
1)	Is the source of the opinion clearly identified?	0	0	0	0	
2)	Does the source of the opinion have standing in the field of expertise?	0	0	0	0	
3)	Are the interests of patients/clients the central focus of the opinion?	0	0	0	0	
4)	Is the opinion's basis in logic/experience clearly argued?	0	0	0	0	
5)	Is the argument developed analytical?	0	0	0	0	
6)	Is there reference to the extant literature/evidence and any incongruency with it logically defended?	0	0	0	0	
7)	Is the opinion supported by peers?	0	0	0	0	

Include	Undefined	•	
Reason			
Update	Undo	Cancel	

Quality of the evidence (Dependability) Qualitative and text opinion

- If <u>4-5 of the questions are yes, the synthesized finding remains at the level it is currently.</u>
- If <u>2-3</u> of these responses are yes, it moves down one level
 (i.e. from High to Moderate).
- If <u>0-1</u> of these responses are yes, it moves down two levels
 - (from High to Low, or Moderate to Very Low).

Systematic reviews should be accompanied by a <u>Summary of Findings table</u>

Can be created using the software program GRADEPro http://tech.cochrane.org/revman/other-resources/gradepro/download

nt 🛛 🖽 Save ,	Undo all changes ^{عي} ر	📲 Add profile group 🗄	🗄 Add profile 📑 Add outcome	🕆 🗄 Import from RevMan 📰 Preview SoF t	table
	« 🖳 Edit				
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			New profile	grade.grd	
			Open existing profile		
			? Help		
			X E NORME		
			Exit GRADEpro	Do not show this dialog again	

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Table 1: Summary of Findings Template

The							
Bibliography: (review name))						
Outcomes	No of	Quality of the	Relative	Anticipated absolute effects			
	Participants (studies) Follow up	evidence (GRADE)	effect (95% CI)	Risk with Continuous aerobic exercise	Risk difference with High intensity interval training (95% Cl)		
Outcome 1 - Most	0 (0)	⊕⊕⊝⊖ LOW ^{2,4}		Study populati	on		
critical outcome (i.e.				See comment	-		
Mortality)				Moderate			
Measurement (i.e. all- cause mortality ¹					•		
Outcome 2	i.e. 247 (4 studies)	⊕⊕⊝⊝ L OW ^{2,4}					
Measurement	4-10 weeks						
Outcome 3		⊕⊕⊝⊝ LOW ^{3,4}					
Measurement		due to risk of bias, inconsistency					

*The basis for the **assumed risk** (e.g. the median control group risk across studies) is provided in footnotes. The **corresponding risk** (and its 95% confidence interval) is based on the assumed risk in the comparison group and the **relative effect** of the intervention (and its 95% CI).

CI: Confidence interval; RR: Risk ratio;

GRADE Working Group grades of evidence

High quality: Further research is very unlikely to change our confidence in the estimate of effect.

Moderate quality: Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.

Low quality: Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.

Very low quality: We are very uncertain about the estimate.

Example footnotes:

Title

No studies assessed mortality

- 2 Change score in the control (continuous) group
- ³ Methodological limitations across studies, particularly in terms of blinding.
- 4 Statistical heterogeneity

Table 1: ConQual Summary of Findings Example

Systematic review title: The patient experience of high technology medical imaging: a systematic review of the qualitative evidence

Population: Persons who had undergone high technology medical imaging

Phenomena of interest: The meaningfulness of a patients experience of undergoing diagnostic imaging using high technology

Context: Male and Female Adult Patients presenting to a medical imaging department

Synthesized	Type of	Dependability	Credibility	ConQual	Comments
Finding	research			Score	
People undergoing	Qualitative	Downgrade 1	Downgrade	Low	*Downgraded
imaging often		level*	1 level **	7	one level due to
expect a health					dependability of
issue to be found					primary studies
during their scan,	High	-1-modorato	-1-LOW		**Downgraded
which can then	riigii				one level due to
lead to anxiety and		(2 - 3 voc)	(Cradible)		equivocal findings
worry		(z=3 yes)			. 0

ConQual: Type of sudy+dependability+Credebility

(High; Moderate; Low; Very Low)

Grades of Recommendation

- Grades of Recommendation are used to assist healthcare professionals when implementing evidence into practice.
- The new JBI grades of recommendation has a binary system for recommendations, with only the two options:

'strong' (A)'weak' (B)

The New JBI Levels of Evidence and Grades of Recommendation are now being used for all JBI documents as of the 1st of March 2014.

JBI Grades of Recommendation

A recomendação "forte" (A) para uma determinada estratégia/intervenção, sempre que:

1. é evidente que os efeitos desejáveis <u>compensam</u> os efeitos indesejáveis da estratégia/intervenção;

Grade

- A
- 2. quando há <u>evidência de qualidade adequada</u> a apoiar a sua utilização;

3. há um benefício e <u>nenhum impacto sobre o uso dos recursos</u>, e

4. valores, preferências e a experiência do paciente foram tidas em conta.

A recomendação "fraco" (**B**) para uma estratégia/intervenção sempre que:

1. efeitos desejáveis <u>parecem compensar</u>os efeitos indesejáveis da estratégia/intervenção, embora não seja tão claro;

Grade

2. há <u>evidências</u> que suportam a sua utilização, embora <u>não sejam de</u> <u>alta qualidade;</u>

3 há um benefício, sem impacto ou impacto mínimo sobre o uso dos

JBI-NOTARI

Text, Expert Opinion and Discourse as Evidence for Policy and Practice

Narrative, opinion, expertise and discourse often represent the best available evidence in areas where research is limited, or where the knowledge that is needed is generally generated through policymaking or other processes rather than through formal research This kind of knowledge cannot be ignored as legitimate sources of evidence for policy and practice

he seven appraisal Criteria are:

1. Is the source of the opinion clearly identified?

The reviewer needs to be satisfied that the author(s) is named.

2. Does the source of the opinion have standing in the field of expertise?

The qualifications, current appointment and current affiliations with specific groups need to be stated in the publication and the reviewer needs to be satisfied that the author(s) has some standing within the field.

3. Are the interests of patients the central focus of the opinion?

Is the focus on achieving the best health outcomes or on advantaging a particular professional or other group? What is the author's purpose?

Who is the author's intended audience?

4. Is the opinion's basis in logic/experience clearly argued?

Questions to pose here include: What are the main points in the conclusions or recommendations? What arguments does the author use to support the main points? Is the argument logical? Have important terms been clearly defined? Do the arguments support the main points?

5. Is the Argument developed analytically

Is the opinion the result of an analytical process drawing on experience or theliterature?

6. Is there reference to the extant literature/evidence and any incongruency with it logically defended?

What extant literature does the author present to support the arguments? Are incongruence addressed and justified?

7. Is the opinion supported by peers?

Does the text present and refute opposing points of view?

Based on the standard approach promoted by the Cochrane Collaboration and adopted by the Joanna Briggs Institute, two reviewers are expected to independently critically appraise data, and to then confer.

NOTARI - Assessment





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NOTARI - I	Narrative Opinion and Text Assessment and Review Ins	trument					
Reviews	Publication Categ	ories	Synthesis	Synthesis		Logout	About
Select	Assessment for : ap - fvfmvc (2012)	issessment for : ap - fvfmvc (2012)					
Detail	Type: Primary						
Assessment	User: j.apostolo						
Extraction Conclusions	Criteria		Yes	No	Unclear	Not applicable	Comment
	1) Is the source of the opinion clearly identified?		۲	\odot	O	O	
	2) Does the source of the opinion have standing in the field of expertise	e?	۲	\odot	o	O	
	3) Are the interests of patients/clients the central focus of the opinior	?	۲	\odot	0	O	
	4) Is the opinion's basis in logic/experience clearly argued?		۲	\odot	0	O	
	5) Is the argument developed analytical?		۲	\odot	0	0	
	6) Is there reference to the extant literature/evidence and any incong	ruency with it logically defended?	۲	\odot	0	0	
	7) Is the opinion supported by peers?		۲	0	0	0	
	Include Yes Reason						

Update Undo Cancel

NOTARI – Assessment (final)



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Undo

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NOTARI - Narrative, Opinion and Text Assessment and Review Instrument									
Reviews	Publication C	ategories	Syn	thesis			ogout	About	
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Detail	Type: Final								
Assessment	User: j.apostolo								
Extraction	Critoria	Drimary	Socondary	Voc	No	Uncloar	Not	Commont	
Conclusions	Cittella	Prindry	Secondary	Tes	NO	Unclear	applicable	comment	
	1) Is the source of the opinion clearly identified?	Yes	Yes	۲	0	0	0		
	2) Does the source of the opinion have standing in the field of eve	vertice? Vec	Vos						

2) Does the source of the opinion have standing in the field of expertise?	Yes	Yes	۲	\odot	0	0	
3) Are the interests of patients/clients the central focus of the opinion?	Yes	Yes	۲	\odot	\odot	\odot	
4) Is the opinion's basis in logic/experience clearly argued?	Yes	Yes	۲	\odot	\odot	O	
5) Is the argument developed analytical?	Yes	Yes	۲	\odot	\odot	\bigcirc	
6) Is there reference to the extant literature/evidence and any incongruency with it logically defended?	Yes	Yes	۲	O	O	\odot	
7) Is the opinion supported by peers?	Yes	Yes	۲	\odot	0	\bigcirc	
Include Yes -							
Reason							

NOTARI - Extraction





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NOTARI - N	NOTARI - Narrative, Opinion and Text Assessment and Review Instrument										
Reviews	Publicat	ion	Categories	Synthesis	s Logou	ut About					
Select	Extraction Details: ddd -	xxxx (1222)									
Detail	* denotes field which will a	ppear in report appe	ndix								
Extraction	Type of Text:	guideline/expert opinio	on/news paper articar/best practive	inf sheet							
Conclusions	Those Represented: *	elders with urinary cath	heter (a quem o doc se refere/qual	a população em estudo							
	Stated Allegiance/Position:	catheter mus be silver	coated (ideia ou conclusão princip	al do texto)							
	Setting:	nursing home (LOCAL	. CONTEXTO ende está a pop em	estudo							
	Geographical:	portugal (localização d	lo autor - senting metropolitano; cio	dade, região, rural urbano							
	Cultural:	periodo de tempo, gru	pos socio económicos, emprego, e	estilo de vida							
	Logic of Argument: *	avaliação da clareza d	la apresentação e da lógica do arg	umento/nted/ and clearly pr							
	Data Analysis:	analytical and logical									
	Authors Conclusion: *	main findings									
	Reviewers Comments: *	pontos fortes e fracos	da publicação	×							
	Complete	Yes 🗸									
	Update Undo Cancel										

NOTARI - Extraction



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NOTARI - I	Narrative, Opinion and	Text Assessment and Revi	ew Instrument			
Reviews	Pub	lication	Categories	Synthesis	Logout	About
Select Detail Assessment	Extraction Details: ap - fv * denotes field which will ap	fmvc (2012) ppear in report appendix				
Extraction	Type of Text:	opinion				
Conclusions	Those Represented: *	HUC				
	Stated Allegiance/Position:	ideia principal				
	Setting:	hospital				
	Geographical:	cbr				
	Cultural:	elders in the hospital				
	Logic of Argument: *	argumento lógico. outra evidência supo	orta estas conclusões			
	Data Analysis:	analytical and logical				
	Authors Conclusion: *	main finding				
	Reviewers Comments: *	summary of the strengths and weakness	ses of the paper			
	Complete	Yes 🔻				
	Update Undo Can	cel				

NOTARI – Extraction (Conclusions)



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NOTARI - N	Narrative, Opinion and	Text Assessment and Revi	ew Instrument			
Reviews	Pul	blication	Categories	Synthesis	Logout	About
Select	Conclusionsfor: ap - fvfm	ıvc (2012)				
Detail						
Assessment	Conclusion	summary of the conclusion as o	letermined by the reviewer			
Extraction	Conclusion					
Conclusions	Illustration fromPublication (Include Page Reference)	short quotation or précis from conclusion. Include Page Refer	n the text that supports the rence (pag 3)			
	Evidence	Credible -				
Category		conclusion conclusions 5				
	Include	Yes 🔻				
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NOTARI – Extraction (Conclusions)



NOTARI – Category details

About



NOTARI – Categories page

THE JOANNA BRIGGS IN Brought to you by The Joanna Br	JBI SUMARI™ iggs Institute and Wolters Kluwer Health - Ovid				
NOTARI - N Reviews	larrative, Opinion and Text Assessment and Publication	d Review Instrument	Synthesis	Logout	About
Conclusions Categories	Categories for: fff This page allows categories to be managed.				
	Name	Summary			Actions
	Name to the category	the meaning of the category name			Edit Delete
	conclusions 5	buytgg			Edit Delete
	Add	1 10 ▼ records per pa	ge		

NOTARI – Synthesis details



NOTARI - Narrative, Opinion	and Text Assessment and Review	w Instrument			
Reviews	Publication	Categories	Synthesis	Logout	About

Synthesis Details

This page allows the addition of a synthesis.

name of the synthesized finding	
details	
Undo Cancel	
	name of the synthesized finding details Undo Cancel

NOTARI – Synthesis



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NOTARI - Narrativ	e, Opinion and Text Assessment	and Review Instrument			
Reviews	Publication	Categories	Synthesis	Logout	About

Synthesis

This is the NOTARI - view displaying the syntheses for the Review: " fff "

Note that only those syntheses that have had valid categories allocated to them are shown here.





Types of studies

Types of studies	Costs or measures	Benefits or Consequence measures	Comments
Cost Minimization Analysis (CMA)	Costs measured in monetary units (e.g Dollars)	Not measured	CMA is not a form of full economic analysis, the assumption is that benefits or consequences are the same, therefore the preferred option is the cheapest
Cost Effectiveness Analysis (CEA)	Costs measured in monetary units (e.g Dollars)	Benefits measured in natural units (e.g mmHg, cholesterol levels, symptom free days, years of life saved)	Results are expressed as dollars per case or per injury averted. Different incremental summary economic measures are reported (e.g Incremental cost-effectiveness ratio)
Cost Utility Analysis (CUA)	Costs measured in monetary units (e.g Dollars)	Benefits expressed in summary measures as combined quantity and quality measures (e.g QALY, DALY etc)	Two dimensions of effects measured (quality and length of life); results are expressed for example as cost per QALY
Cost Benefit Analysis (CBA)	Costs measured in monetary units (e.g Dollars)	Benefits measured in monetary units (e.g Dollars)	Benefits are difficult to measure monetarily, values used are Net Present Value (NPV) and Benefit Cost Ratio (BCR)

Types of Studies

This section should flow naturally from the criteria that have been established to this point, and particularly from the objective and questions the review seeks to address. For JBI reviews of health economic evaluation evidence, there are specific study designs of interest to specific economic questions. These include:

Cost-Minimisation studies: intended to identify the least costly intervention where multiple interventions have demonstrated similar benefit

Cost-Effectiveness studies: where interventions achieve similar outcomes but have unknown or potentially different resource implications

Cost-Utility studies: seek to establish benefit as measured by quantity and quality of life (QALY's)

Cost-Benefit studies: seek to identify a specific monetary ration (gain/loss or cost/benefit) for an intervention

Source of effectiveness data extraction field

There are four options for sources of effectiveness data available in JBI ACTUARI. They refer to the original location of the information from which the effectiveness of the intervention compared to the comparator was derived: Single Study (same participants); Single Study (different participants); Multiple Studies (meta-analysis); Multiple Studies (no meta-analysis). Selection of a particular type of source document determines which data extraction fields become available in JBI ACTUARI in the next phase of extraction.



ACTUARI - Assessment





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Update

Undo

ACTUARI -	- Analysis of Cost, Technol	ogy and Utilisation Assessment and Review	w Instru	ment			
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Select Details Assessment	Assessment for : ap - nhj (20 Type: Primary User: i anostolo	12)					
Extraction Results	Criteria		Yes	No	Unclear	Not applicable	Comment
	1) Is there a well defined ques	stion?	۲	\bigcirc	0	0 [
	2) Is there comprehensive des	scription of alternatives?	۲	0	0	0 [
	3) Are all important and releva	ant costs and outcomes for each alternative identified?	۲	0	0	0 [
	4) Has clinical effectiveness be	een established?	۲	\circ	0	0 [
	5) Are costs and outcomes me	asured accurately?	۲	0	0	0 [
	6) Are costs and outcomes va	ued credibly?	۲	\circ	0	0 [
	7) Are costs and outcomes ad	justed for differential timing?	۲	\bigcirc	0	0 [
	8) Is there an incremental and	lysis of costs and consequences?	۲	\circ	0	0 [
	9) Were sensitivity analyses concerning or consequences?	onducted to investigate uncertainty in estimates of cost	۲	0	0	0 [
	10) Do study results include all	issues of concern to users?	۲	\circ	0	0 [
	11) Are the results generalisable	e to the setting of interest in the review?	۲	0	0	0 [
	Include Yes						

ACTUARI – Assessment (final)



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ACTUARI - Analysis of Cost, Technology and Utilisation Assessment and Review Instrument									
	Reviews	Study			Logout				About
Select Details Assessment Extraction	Assessment for : ap - nhj Type: Final User: j.apostolo	(2012)	n :		Y			Not	
Results	Criteria		Primary	Secondary	Yes	NO	Unclear	applicable	Comment
	1) Is there a well defined	question?	Yes	Yes	۲	0	0	0	
	2) Is there comprehensive	e description of alternatives?	Yes	Yes	۲	0	0	0	
	3) Are all important and re alternative identified?	elevant costs and outcomes for each	Yes	Yes	۲	0	0	0 [
	4) Has clinical effectivenes	ss been established?	Yes	Yes	۲	0	\circ	0 [
	5) Are costs and outcomes	s measured accurately?	Yes	Yes	۲	0	0	0	
	6) Are costs and outcomes	s valued credibly?	Yes	Yes	۲	0	0	0	
	7) Are costs and outcomes	s adjusted for differential timing?	Yes	Yes	۲	0	\circ	0 [
	8) Is there an incremental consequences?	analysis of costs and	Yes	Yes	۲	0	0	0 [
	9) Were sensitivity analysi uncertainty in estimate	es conducted to investigate s of cost or consequences?	Yes	Yes	۲	0	0	0 [
	10) Do study results include	e all issues of concern to users?	Yes	Yes	۲	0	0	0	
	11) Are the results generali the review?	sable to the setting of interest in	Yes	Yes	۲	0	0	0 [
	Include Yes 🗸								

Reason

Update Undo Cancel



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ACTUARI - Analysis of Cost, Technology and Utilisation Assessment and Review Instrument						
	Reviews	Study	Logout	About		
Select	Extraction Details: ap - nhj (2012)				
Details Assessment	* denotes field which will appea	ar in report appendix Select one	> Método de a	artigo primário		
Extraction	Economic Evaluation Method: *	Cost Effectiveness				
Results	Interventions: *	Cost Utility				
	Comparator:	Cost Benefit				
	Setting:					
	Geographical:					
	Participants: *					
	Source of effectiveness data:	PLEASE SELECT V				
	Authors Conclusion: *					
	Reviewers Comments: *					
	Complete	Yes 🗸				
	Update Undo Cancel					



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ACTUARI -	ACTUARI - Analysis of Cost, Technology and Utilisation Assessment and Review Instrument						
	Reviews	Study		Logout	About		
Select	Extraction Details: ap - nhj (2012)					
Details Assessment Extraction	* denotes field which will appea Economic Evaluation Method: *	r in report appendix Cost Minimisation ∨					
Results	Comparator: Setting:	usual care Nursing homes					
	Geographical: Participants: *	coimbra elders					
	Source of effectiveness data: Authors Conclusion: *	Single study(same participa	ints) 🗸				
	Complete Update Undo Cancel	Yes V	\rightarrow	Se a extra está com	ção (nesta fase) pleta ou não		

Extraction Details: Jones - Chest (2008)

* denotes field which will appear in report appendix

Economic Evaluation Method: *	Cost Effectiveness 🛟			
Interventions: *	(TAD 🛟			
Comparator:	(Gauze 🛟			
Setting:	hospital			
Geographical:	USA			
Participants: *	adults in tertiary care facility			
Source of effectiveness data:	Single study(same participants)			
Authors Conclusion: *	TAD is clinically effective			
Reviewers Comments: *	TAD was as effective, but not more effective than gauze			
Complete	/es 🛟			
STREET, STREET, STREET, ST				

the next relates to any linkages between data collected on effectiveness and cost – for example, were the effectiveness data and costs data collected on the same or different participants?

Source of effectiveness data

 There are four options available to select from the scroll down menu in this field. They refer to the original location of the information from which the effectiveness of the intervention compared to the comparator was derived:

Single Study (same participants);
 Single Study (different participants);
 Single Study (different participants);
 Multiple Studies (meta-analysis);
 Multiple Studies (no meta-analysis).

4 tipologias de
 → extração diferentes na fase seguinte

 Selection of a particular type of source document determines which data extraction fields become available in the next phase of extraction.

ACTUARI – Extraction Second level extraction

New Outcome for: Weeks - Chest (2009) - Edit Extraction Details

Clinical Effectiveness results					
Study design:	RCT				
Study date:					
Sample size:	255				
Analysis used:	intention to treat / logistic regression etc				
Clinical outcome results:	favours TAD				
Economic Effectiveness results					
Date/s of economic data:	2006				
Link between effectiveness and cost data:	data collected on the same participants as the experimental trial				
Measure of benefits used in economic evaluation:	dollar costs				
Direct costs:	all direct costs included				
Indirect costs:	all indirect costs included				
Currency:	\$USD				
Sensitivity analysis:	not conducted any sensitivity analysis conducted as part of the primary study				
Estimated benefits used in EE:	costs compared with outcomes for the treatment and control				
Cost results:	this is a summary of the economic findings of the paper				
Synthesis of costs and results:	summary statement of economics and clinical impact				

Outcome category

Update outcome

	Clinical effectiveness				
	+	0	-		
+	\odot A	ОВ	\odot C		
Cost 0	\bigcirc D	$^{\circ}$ E	$^{\circ}$ F		
-	\bigcirc G	$^{\circ}$ H	\odot I		

Key	
Effectiveness	Cost
+ Better	Higher
0 Equal	Equal
- Poorer	Lower

A sensitivity analysis would be conducted to determine whether the economic model and its conclusions are robust to changes in the underlying assumptions of the model. Details of sensitivity analysis should be reported.

Clinical effectiveness results data extraction fields

This section relates to evidence on the clinical effectiveness of the intervention versus the comparator, or control group. The five fields in this section are designed for numbers and free text relating to the study design, for instance: randomised controlled study, cohort study; the study date (in years); sample size (in numbers, combining both treatment and comparator groups if relevant); type of analysis used (eg. intention to treat analysis); and the clinical outcome results (survival, survival at 1 year, survival at 5 years, stroke avoided, fracture avoided, pain intensity, frequency of vomiting, frequency of pain etc).

Economic effectiveness results data extraction field

There are ten fields in the economic effectiveness results section. The first relates to the date (year) when the economic data were collected; the next relates to any linkages between data collected on effectiveness and cost – for example, were the effectiveness data and costs data collected on the same or different participants?

For the modelling data extraction field state the economic model used in the economic evaluation study. The 'Modelling' field can be used to describe any economic evaluation models that were part of the economic evaluation.

The third field requires a list of the measurements of benefits that were used in the economic evaluation.

The fourth, fifth and sixth data extraction fields relate to costs examined in the study: direct costs of the intervention/program being evaluated, indirect costs and the currency used to measure the costs.

For currency data extraction field quote the currency as reported in the original study, for example AUD \$, US \$, EUR. State whether any conversions were undertaken.

For statistical analysis of costs data extraction field report descriptive statistics methods used and results, statistical parametric tests used and results including levels of significance, statistical nonparametrical tests used, data transformation methods used.

The seventh field relates to the results of any sensitivity analysis conducted as part of the study. A sensitivity analysis would be conducted to determine whether the economic model and its conclusions are robust to changes in the underlying assumptions of the model. Details of sensitivity analysis should be reported.

The eighth field relates to listing the estimated benefits to using the intervention instead of the comparator, for example the incremental lives saved, or the incremental life-years gained, or the the incremental quality-adjusted life years gained.

The ninth field requires a summary of the cost results findings, and the tenth is a summary of the synthesis of the costs and results.

For a summary of costs report the following: total intervention cost, total comparator cost, average costs and incremental costs, results of statistical analysis of costs, results of sensitivity analysis of costs, discounted and not discounted values for costs.

For a summary of synthesis of costs and benefits report how the costs and benefits were combined, for example as cost per life saved, or cost per QALY.

Once these fields have been completed, the final step in data extraction is also the foundational step in data synthesis.

ACTUARI – Extraction Second level extraction – Single study

	Reviews S	Study	Logout	About
Select	New Outcome for: ap - nhj (2012) - <u>Edit Extr</u>			
Details	Single study(same participants)			
Assessment	Clinical Effectiveness results			
Extraction	Study design:	RCT		
Results	Study date:	2003-03-20		
	Sample size:	200		
	Analysis used:	repeated measures anova		
	Clinical outcome results:	depression	×	
	Economic Effectiveness results			
	Date/s of economic data:			
	Link between effectiveness and cost data:			
	Measure of benefits used in economic evaluation:			
	Direct costs:			
	Indirect costs:			
	Currency:			
	Sensitivity analysis:			
	Estimated benefits used in EE:			
	Cost results:			
	Synthesis of costs and results:			
	Outcome category			

Clinical effectiveness			
	+	0	-
+	\odot A	О В	О с
Cost 0	\bigcirc D	$^{\circ}$ E	○ F
-	\bigcirc G	$^{\circ}$ H	\odot I

Update outcome

Кеу			
Cost			
Higher			
Equal			
Lower			

ACTUARI – Extraction Second level extraction – Multiple studies

The second second	Reviews	Study	Logout	About
Select	New Outcome for: bkk - jhv (2011) - Edit E	ctraction Details		
Details	Clinical Effectiveness results			
Extenction	Study designs	RCTs		
Results	Year range of primary studies	: 2008-2012		
Add an Print Print	Analysis used	: WMD		
	Clinical outcome results	а п		
	Economic Effectiveness results			
	Date/s of economic data	: 3		
	Modelling used	1: 3		
	Measure of benefits used in economic evaluation	: 3		
	Direct costs	: 3		
	Indirect costs	: 3		
	Currency	z usd		
	Statistical analysis of costs	: 3		
	Sensitivity analysis	: m		
	Estimated benefits used in EE	с. п		
	Cost results	а. п		
	Synthesis of costs and results			
	Outcome category			
	Clinical effectiveness + 0 - + 9 A 0 B 0 C + Cost 0 0 D 0 E 0 F 0 - 0 G 0 H 0 1	Key Effectiveness Cost Better Lower Equal Equal Poorer Higher		

Update outcom
ACTUARI – Extraction Second level extraction – Outcome category

The outcome category is included in the detailed extraction, but is not actually an extraction of data. This is where you as a reviewer will, on the basis of your knowledge of a paper give an indication of where it sits in terms of costs and clinical effectiveness. You can come back to this screen and edit/update your decision at a later date.

Outcome category

In comparing the clinical effectiveness of two alternatives there are three possibilities:

- (i) the intervention of interest is better or more effective (ie a '+') than the comparator,
- (ii) the intervention is equally effective (ie a '0') or
- (iii) the intervention is less effective (ie a '-').

Similarly, in terms of cost, there are three possibilities:

- (i) the intervention is more expensive (ie a '+'),
- (ii) the intervention and comparator's costs are the same (ie a '0'), or
- (iii) the intervention is less expensive (ie a '-').

Note that each of the comparisons between intervention and comparator can only be classed as one of nine options (A - I). For example, an intervention that was shown to be more effective and less expensive would be scored as 'G', whereas an intervention that was less effective and of equal cost would be scored as 'F'.

	Clir	nica	l effec	tiveness	Кеу	
		+	0	-	Effectiveness	Cost
+	0	Α	◎в	© c	+ Better	Highe
Cost 0	0	D	©Е	© F	0 Equal	Equal
-	0	G	⊙н	ΟI	- Poorer	Lower

ACTUARI decision matrix summary of economic evidence



FAME

- Evidence of feasibility "the extent to which an activity is practical and practicable. Clinical feasibility is about whether or not an activity or intervention is <u>physically, culturally or financially</u> practical or possible within a given context". (Praticável /possível num contexto)
- Evidence of appropriateness "the extent to which an intervention or activity fits with or is apt in a situation. Clinical appropriateness is about how an activity or intervention relates to the <u>context</u> in which care is given." (Apropriada ao contexto de cuidados)
- Evidence of meaningfulness "the extent to which an intervention or activity is positively experienced by the patent. Meaningfulness relates to the personal experience, opinions, values, thoughts, beliefs and interpretations of patients or clients." (se faz sentido e positivamente experienciada por aqueles doentes)
- Evidence of effectiveness "is the extent to which an intervention, when used appropriately, achieves the intended effect. Clinical effectiveness is about the relationship between an intervention and clinical or health outcomes." (Pearson et al 2005:210)

link http://joannabriggs.org/jbi-approach.html#tabbed-nav=Grades-of-Recommendation

Grades of Recommendation are used to assist healthcare professionals when implementing evidence into practice. The Joanna Briggs Institute and collaborating entities currently assign a Grade of Recommendation to all recommendations made in its resources, including Evidence Summaries, Systematic Reviews and Best Practice Information Sheets. These Grades are intended to be used alongside the supporting document outlining their use.

JBI Grades of Recommendation					
Grade A	 A 'strong' recommendation for a certain health management strategy where: 1. it is clear that desirable effects outweigh undesirable effects of the strategy; 2. where there is evidence of adequate quality supporting its use; 3. there is a benefit or no impact on resource use, and 4. values, preferences and the patient experience have been taken into account. 				
Grade B	 A 'weak' recommendation for a certain health management strategy where: 1. desirable effects appear to outweigh undesirable effects of the strategy, although this is not as clear; 2. where there is evidence supporting its use, although this may not be of high quality; 3. there is a benefit, no impact or minimal impact on resource use, and 4. values, preferences and the patient experience may or may not have been taken into account. 				