

A Guide to Smart Literature Searches and Critical Appraisal for NHS Professionals

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Todays Session

- SWL Libraries
- OpenAthens account
- Why are you searching?
- Searching tips includes PICO and Boolean operators
- Additional Tips, including applying limits
- Healthcare Databases: Medline and EMBASE via OVID, TRIP via TRIP.
- Evaluate what you find





South West London NHS Libraries

- Croydon Health Services NHS Trust
- Epsom & St Helier University Hospitals NHS Trust
- Kingson and Richmond NHS Foundation Trust
- St George's University Hospitals NHS Foundation Trust





Croydon Health Services NHS Trust

- Staff and students
- Monday Friday 09:00-17:00. 24/7 access on application.
- Online membership form accessible from the library catalogue -https://croydonhealth.koha-ptfs.co.uk/cgi-bin/koha/opac-memberentry.pl
- Future NHS site https://future.nhs.uk/CroydonLibraryUG/grouphome
- https://croydonhealthlibrary.uk/







Croydon Health Services

- Physical Library
 - Books and journals from our or other libraries
 - Study spaces & IT facilities
 - The Pod, Silent Study Room and IT Suite
 - Library Staff:
 - Literature searches, , information skills training, article requests and support
- Future NHS https://future.nhs.uk/CroydonLibraryUG/grouphome
- https://croydonhealthlibrary.uk/



Croydon Health Services

- Virtual Library
 - Library website
 - Electronic Resources and Quick Links
 - Library Catalogue
 - BMJ Case Reports
 - KnowledgeShare
 - UpToDate
- Future NHS site https://future.nhs.uk/CroydonLibraryUG/grouphome
- https://croydonhealthlibrary.uk/



Epsom & St Helier University Hospitals NHS Trust

- Hirson Library St Helier Hospital, 8.30 to 5pm
- Sally Howel Library Epsom Hospital, 8.30 to 4.30pm (8.30am 9.30am unmanned)
- Online membership form accessible from the library catalogue https://esth.koha-ptfs.co.uk/cgi-bin/koha/opac-memberentry.pl

https://www.epsom-sthelier.nhs.uk/lis







Epsom & St Helier University Hospitals NHS Trust

- Physical Library
 - Books and journals from our or other libraries
 - PCs, Internet access and support
 - Library Staff:
 - Training, literature searches, article requests and support
 - Games

https://www.epsom-sthelier.nhs.uk/lis



Epsom & St Helier University Hospitals NHS Trust

- Virtual Library
 - Library website
 - Electronic Resources and Quick Links
 - Library Catalogue
 - eLearning
 - Point of care tools
 - KnowledgeShare
 - Audiobooks

https://www.epsom-sthelier.nhs.uk/lis



Kingson and Richmond NHS Foundation Trust

- Stenhouse Library
- Staffed hours: Monday-Friday 09:00-17:00
- Online membership form accessible from the library catalogue https://esth.koha-ptfs.co.uk/cgi-bin/koha/opac-memberentry.pl

 https://www.kingstonandrichmond.nhs.uk/services/healthcareprofessionals/education-centre/stenhouse-library







Kingson and Richmond NHS Foundation Trust

- Physical Library
 - Books and journals from our or other libraries
 - PCs, Internet access and support
 - Library Staff:
 - Training, literature searches, article requests and support

https://www.kingstonandrichmond.nhs.uk/services/healthcare-professionals/education-centre/stenhouse-library



Kingson and Richmond NHS Foundation Trust

- Virtual Library
 - Library website
 - Electronic Resources and Quick Links
 - Library Catalogue
 - Point of care tools
 - KnowledgeShare

https://www.kingstonandrichmond.nhs.uk/services/healthcare-professionals/education-centre/stenhouse-library



St George's University Hospitals NHS Foundation Trust

- St George's Library
- 8am to 6pm, Staffed Monday to Friday
- https://www.stgeorges.nhs.uk/gps-and-clinicians/library-services-fromst-georges-library/







St George's University Hospitals NHS Foundation Trust

- Physical Library
 - Books and journals from our or other libraries
 - PCs, Internet access and support
 - Library Staff:
 - Training, literature searches, article requests and support

https://www.stgeorges.nhs.uk/gps-and-clinicians/library-services-from-st-georges-library/



St George's University Hospitals NHS Foundation Trust

- Virtual Library
 - Library website
 - Electronic Resources and Quick Links
 - Library Catalogue
 - Point of care tools

https://www.stgeorges.nhs.uk/gps-and-clinicians/library-services-from-st-georges-library/





What is OpenAthens?



- A single username and password for NHS staff to access e-resources
- A form of authentication recognises that you are eligible to access the resource





What resources can I access?

- All the resources authenticated via OpenAthens are paid for at either:
 - National level
 - Regional level
 - Local level
- Not all resources (e.g. point of care tools, full-text journal articles)
 are available





Why are you searching?

I need evidence to inform...

- the care of a specific patient
- changes to the delivery of a service
- a business case for a new role or service
- a policy/guideline update
- my role/best practice





Searching Tips

- Planning PICO
- Combining
- Applying Limits
- Additional Tips





Planning – PICO

Break the search into concepts PICO framework

- P Population (or Patient)
- I Intervention
- C Comparison (or Control)
- O Outcome



Planning – PICO

Patient, problem or population	Age, sex, race, condition or disease, care setting, etc
Intervention or exposure	Type of intervention or exposure e.g. test, therapy or clinical procedure, harmful substance, etc
Comparison	Alternative interventions, if applicable
Outcomes	Measurement, result, effect





A scenario - Interventions to support the mental health of health-care workers in relation to Covid-19

P - Population (or Patient)

14 responses

```
physiotherapists
hospital staff
healthcare professional
health staff mdt hcps
non clinical staff
consultants
nhs healthcare staff
occupation therapists
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A scenario - Interventions to support the mental health of health-care workers in relation to Covid-19

I - Intervention

14 responses







A scenario - Interventions to support the mental health of health-care workers in relation to Covid-19

C - Comparison (or Control)

3 responses

other settings no intervention other health issues





A scenario - Interventions to support the mental health of health-care workers in relation to Covid-19

O - Outcome

8 responses

improved concentration
positive change in mood

positive test result
stress sick leave taken
improved work capacity
feedback





Combining

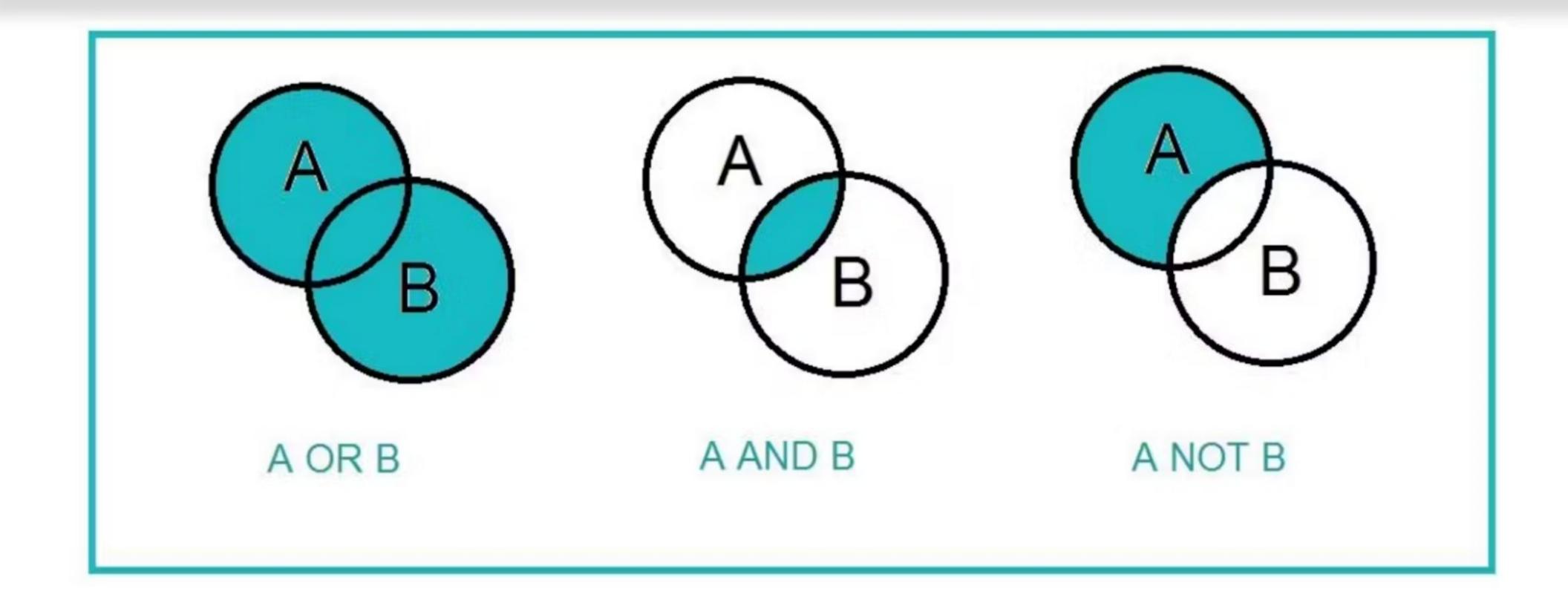
The relationships between your concepts are created using the options 'AND' 'OR' 'NOT'

These are known as Boolean Operators

- OR To search for EITHER terms (increases) Mental Health OR Wellbeing
- AND To search for BOTH terms (reduces) Nurses AND Midwives
- NOT To search for 1 term NOT the other Nurses NOT Doctors



Visualise it







Applying Limits

- Publication Year Narrows your results to particular year/period
- Age neonates; children; adults; older people
- Language English Language
- Publication type systematic review; journal article; PDF file





Additional Tips

Exact phrase search

Use "inverted commas" to search an exact phrase or title

Wildcard search * \$

To include all forms of a word eg: clinic* will return clinician, clinical, clinic, clinics



Where to search

Looking for	Use
Journal articles on a topic	Use health & social care databases
Guidelines/summaries	Use NICE Guidance OR the BMJ Best Practice point of care tool
A specific report/article	Use the organisation's website or Google or the BrowZine E-Journals A-Z List
Examples of good practice	Use the FabNHS





Health & Social Care Databases

- AMED physiotherapy, OT, rehabilitation & complementary medicine
- British Nursing Index small database of popular British nursing journals
- CINAHL nursing and allied health, including recent US research
- EMBASE European database of biomedical and pharmacological literature
- EMCARE nursing and allied health



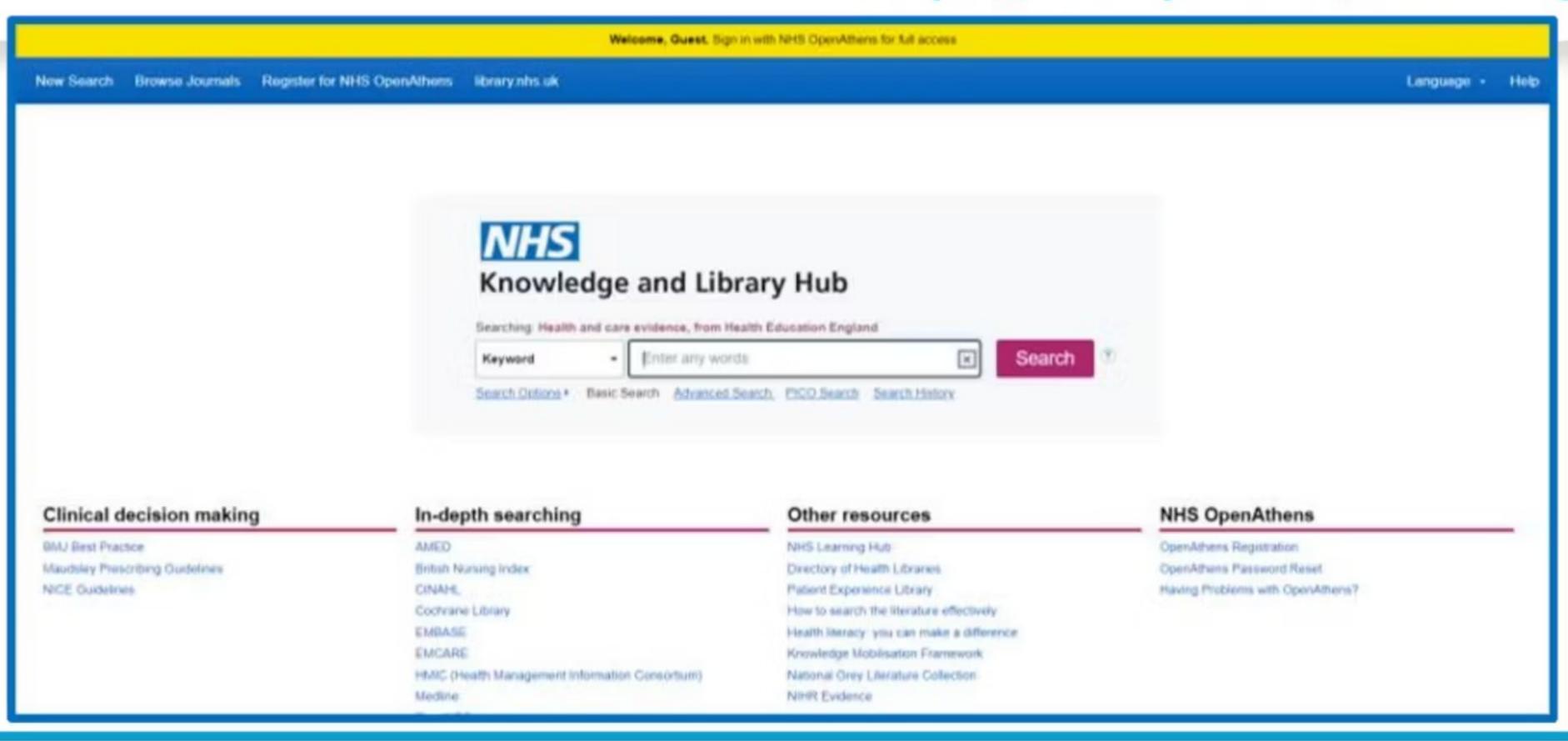


Health & Social Care Databases

- HMIC (Health management information consortium) a compilation of DH-Data (health administration & toxicology) and Kings Fund (health improvement & management)
- Medline the largest database, covers clinical, medical and nursing literature
- PsycINFO psychology, psychiatry and related disciplines)
- Social Policy & Practice behavioural and social sciences, social work and public health

NHS Knowledge and Library Hub

https://library.nhs.uk/knowledgehub/







Evaluate what you find (Critical Appraisal)

Critical appraisal is: "The process of assessing and interpreting evidence by systematically considering its validity, results and relevance." (Cochrane Glossary, c2020)

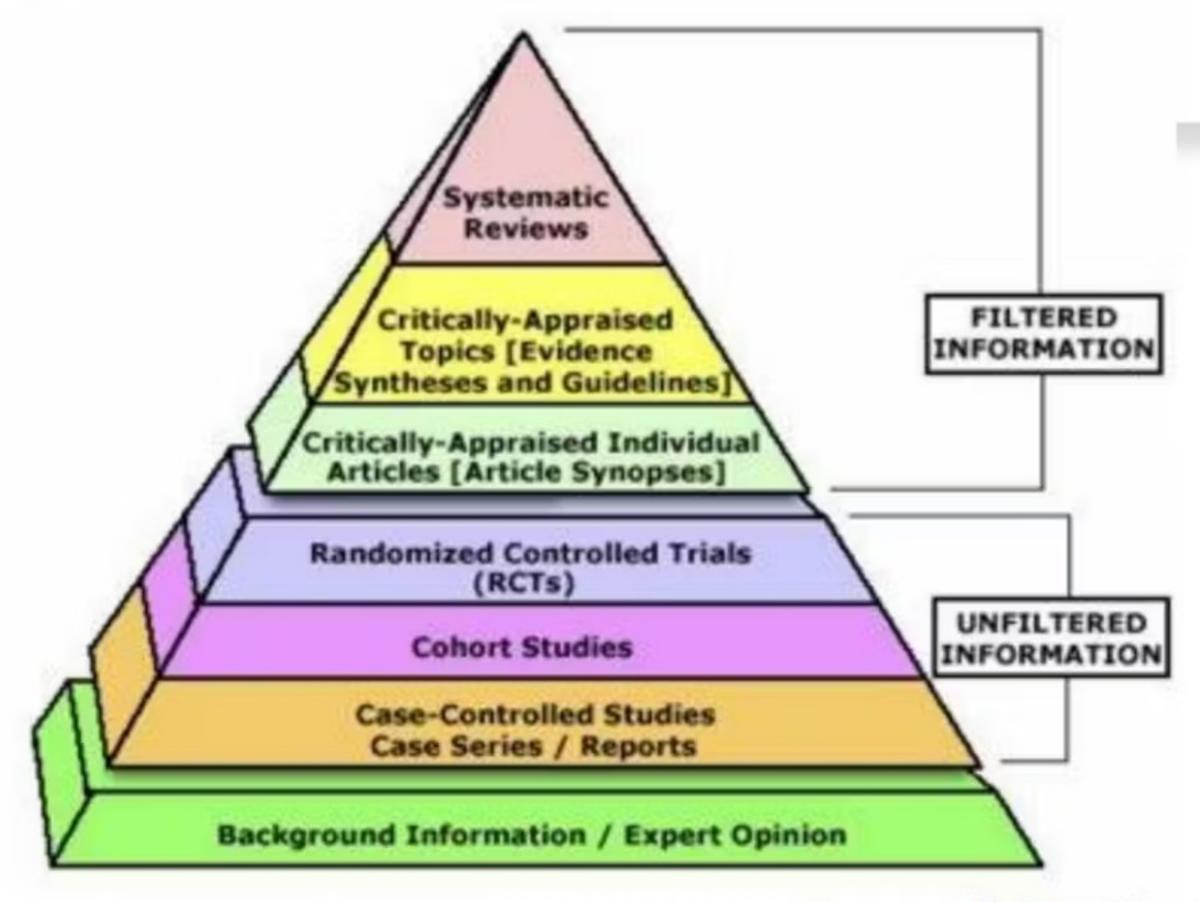




Why is critical appraisal important?

- Identify strengths and weaknesses in research
- Is it biased?
- Is it applicable to your local setting/population?
- Focus on the highest quality evidence to guide clinical practice
- Enable evidence based, informed decision making

Evidence pyramid



Source: S4Be (Students for Best Evidence)



Critical Appraisal Skills Programme https://casp-uk.net/

Appraisal checklists for a variety of different study types:

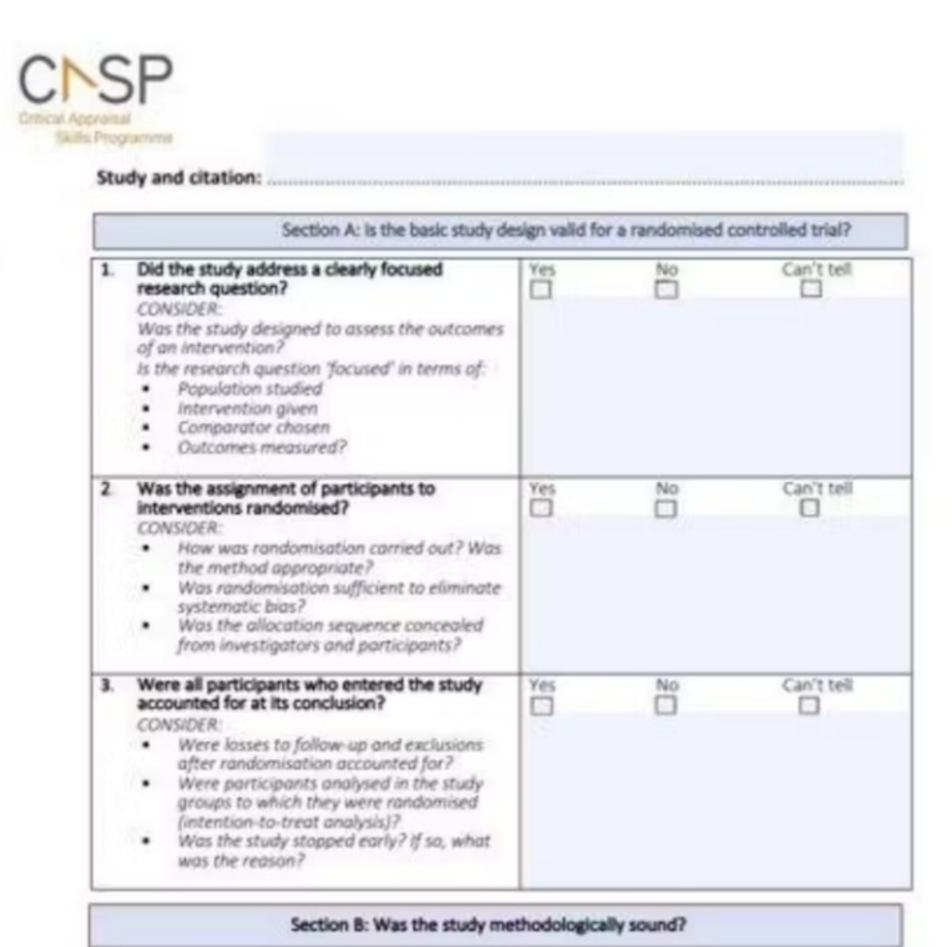
- Randomised Controlled Trials
- Cohort Studies
- Systematic Reviews
- Qualitative studies



Critical appraisal checklists

https://casp-uk.net/casp-tools-checklists/









Would you use it to change your practice or to recommend changes to care?

APPRAISAL SUMMARY: Record key points from your critical appraisal in this box. What is your conclusion about the paper? Would you use it to change your practice or to recommend changes to care/interventions used by your organisation? Could you judiciously implement this intervention without delay?





Bitesize videos



How to critically appraise a RCT following the CASP checklist

10 bitesize videos which address each question in the CASP checklist

Barts Health Knowledge and Library Services, YouTube, 2021



BMJ Best Practice

BMJ Best Practice

Critical appraisal checklists

Evidenced based toolkit

https://bestpractice.bmj.com/info/toolkit/ebm-toolbox/critical-appraisal-checklists/

Variety of appraisal checklists

Framework for assessing systematic reviews

General systematic review (SR) quality criteria			
	Yes	No	Can't
Does the SR explicitly report and perform a comprehensive and reproducible literature search?			
Does the SR formulate a clearly focused question?			
Does the SR's methods section explicitly state the basis for inclusion or exclusion of primary RCTs?			
Does the SR report data from primary RCTs (e.g., size, interventions used, results from individual RCTs)			
Does the SR assess the methodological quality of primary studies, and take these into account where necessary?			
Meta-analysis: does the SR combine primary studies appropriately?		···	
Meta-analysis: does the SR state how results are combined statistically?			
Meta-analysis: does the SR report absolute numbers as well as appropriate summary statistics?			
Does the SR discuss the reasons for any variations/heterogeneity between individual RCTs/overall results?			
Does the SR report on the clinical relevance/importance of the results?			

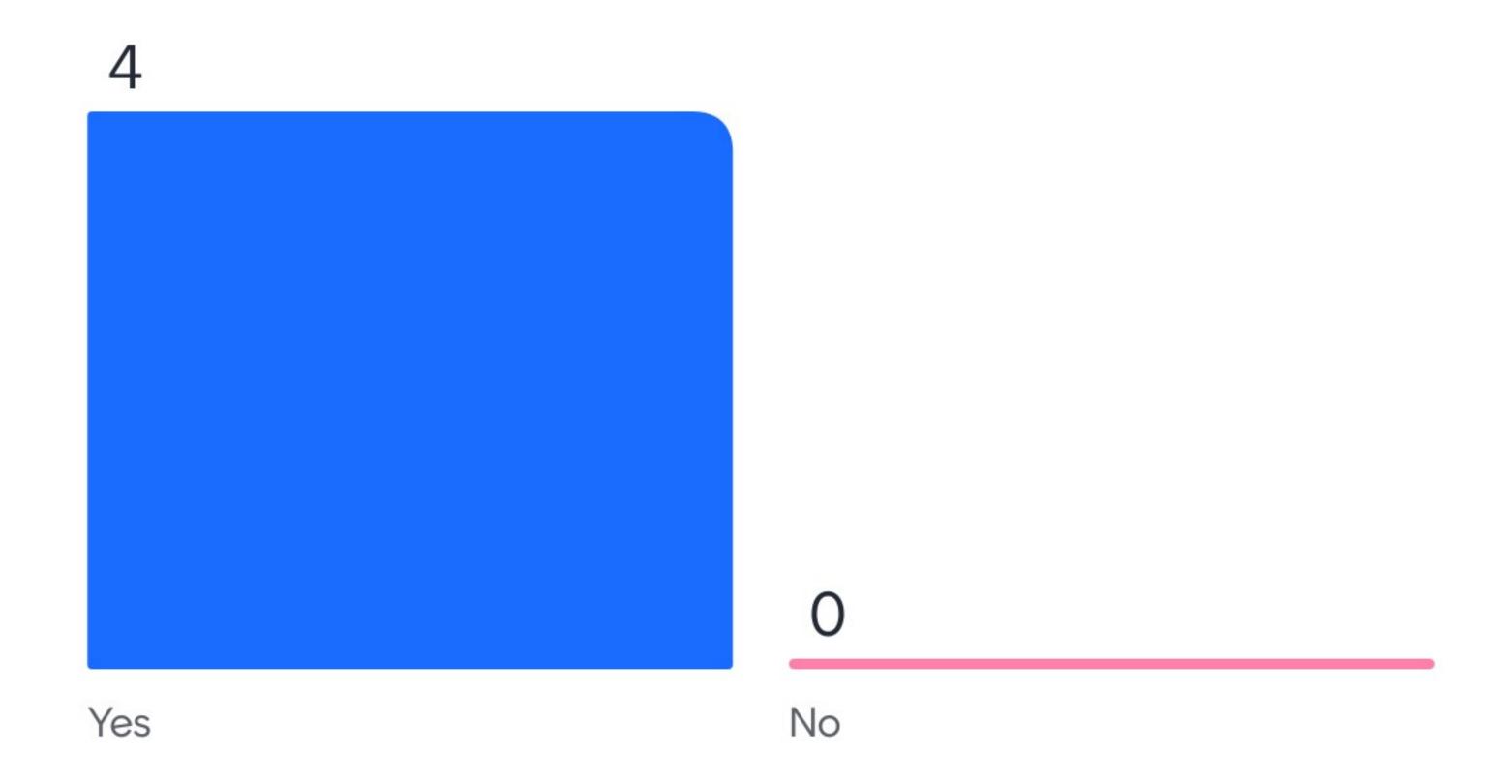
Research Objective and Relevance

What is the primary objective of the study?

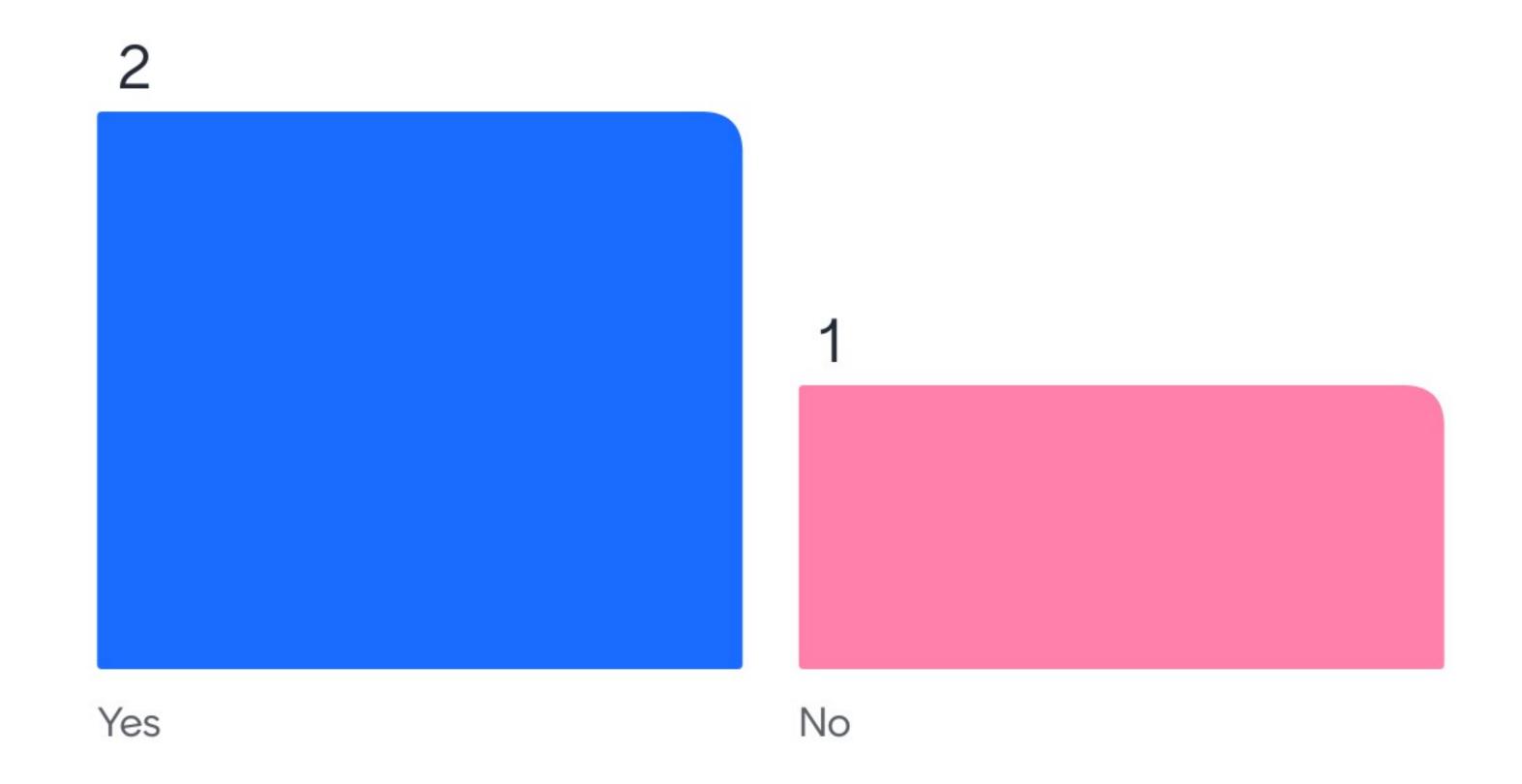
1 response

link tv and death rates

Are the methods clearly described?

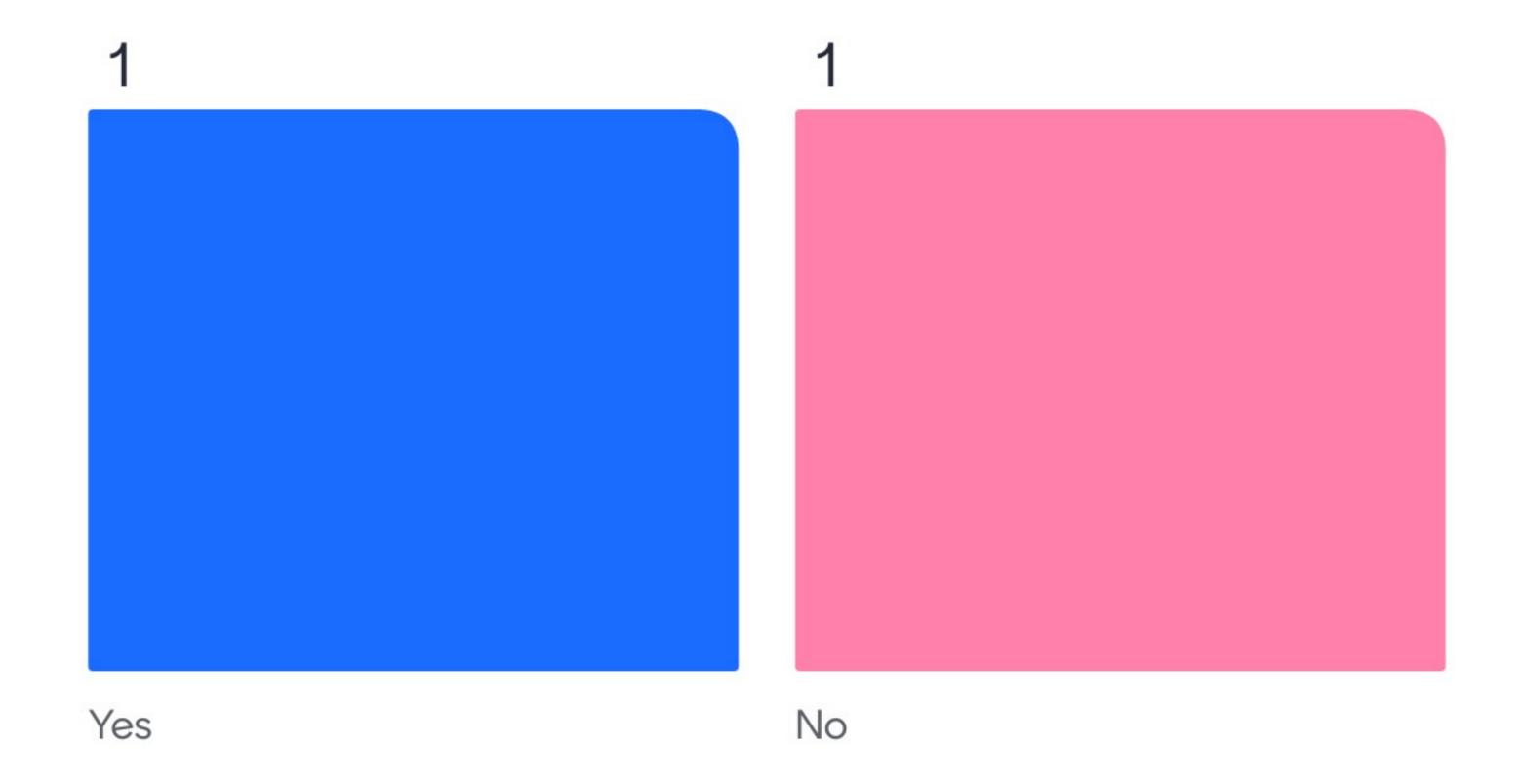


Is the sample size adequate?





Are the findings relevant and consistent with the data?







Support with statistics

BMJ Best Practice

Statistic calculators https://bestpractice.bmj.com/calculators/

BMJ Learning

Online course: Understanding statistics https://new-learning.bmj.com/





Thank you

Thank you for attending today

Questions after today email Liz:

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Providing course feedback

We value your feedback

https://forms.office.com/e/MNJUAWDF7y

Share Your Experience and Help Us

Make Our Events Even More

Awesome!

