**Searching for literature**

**NRSGH Systematic Review and meta-analysis course - NIPH September 2022**

**Exercise 1, 2 and 3**

**Exercise 1:** Use the **PRESS checklist** to peer review the following search strategy developed to find studies on **healthcare workers’ perceptions and experiences of communicating with older adults about vaccination**

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| **PRESS check list**  A simplified version of: McGowan J, Sampson M, Salzwedel DM, Cogo E, Foerster V, Lefebvre C. PRESS Peer Review of Electronic Search Strategies: 2015 Guideline Statement. *J Clin Epidemiol*. 2016;75:40-46 | | **Search strategy for:**  **Healthcare workers’ perceptions and experiences of communicating with older adults about vaccination** |
| Translation of the research question | * Does the search strategy match the research question | |  |  |  | | --- | --- | --- | | 1 | exp Vaccines/ | 241880 | | 2 | exp Immunization/ | 185116 | | 3 | 1 and 2 | 88344 | | 4 | Aged/ | 3228823 | | 5 | "Aged, 80 and over"/ | 969251 | | 6 | Middle Aged/ | 4543988 | | 7 | "Health Services for the Aged"/ | 18029 | | 8 | (adlts or aged or elderly).ti,ab,kf. | 1355127 | | 9 | 5 or 6 or 7 or 8 | 5568684 | | 10 | Communication/ | 88853 | | 11 | comunication\*.ti,ab,kf. | 281996 | | 12 | 10 or 11 | 326526 | | 13 | 3 and 9 and 12 | 310 | | 14 | Qualitative Research/ | 64994 | | 15 | "Quality of Health Care"/ | 75067 | | 16 | Quality Indicators, Health Care/ | 16500 | | 17 | Interviews as Topic/ | 65560 | | 18 | (qualitative studies or quality research or interview).ti,ab,kf. | 157792 | | 19 | 14 or 15 or 16 or 17 or 18 | 336024 | | 20 | 13 and 19 | 37 | |
| Boolean and proximity operators | * Are boolean or proximity operators used correctly? |
| Subject headings/Index terms | * Are the subject headings relevant? |
| Text word | * Does the search include all spelling variants? * Does the search include all synonyms? * Does the search capture relevant [and correct] truncation? |
| Spelling, syntax and line numbers | * Are there any spelling errors? * Are there any errors in system syntax? * Are there incorrect line combinations or orphan lines? |
| Limits and filters | * Are all limits and filters used appropriately and are they relevant given the research question? |

**Exercise 2**

Below is a search strategy for CENTRAL (Cochrane Library).

|  |  |  |
| --- | --- | --- |
| #1 | MeSH descriptor: [Parents] this term only | 3052 |
| #2 | MeSH descriptor: [Fathers] this term only | 174 |
| #3 | MeSH descriptor: [Mothers] this term only | 1770 |
| #4 | (parent\* or father\* or mother\*):ti,ab,kw | 57361 |
| #5 | **#1 or #2 or #3 or #4 [Parents]** | 57361 |
| #6 | MeSH descriptor: [Health Education] this term only | 3877 |
| #7 | MeSH descriptor: [Counseling] this term only | 4146 |
| #8 | (educat\* or inform\* or counseling or counselling):ti,ab,kw | 222487 |
| #9 | **#6 or #7 or #8 [Education]** | 222487 |
| #10 | MeSH descriptor: [Vaccines] this term only | 4215 |
| #11 | MeSH descriptor: [Vaccination] this term only | 2439 |
| #12 | vaccin\*:ti,ab,kw | 25101 |
| #13 | **#10 or #11 or #12 [vaccination]** | 25101 |
| #14 | MeSH descriptor: [Infant] this term only | 21318 |
| #15 | MeSH descriptor: [Child] explode all trees | 55220 |
| #16 | (child\* or infant\*):ti,ab,kw | 182440 |
| #17 | **#14 or #15 or #16 [Children]** | 182440 |
| #18 | **#9 and #13 and #17 [Education about child vaccination]** | 1728 |
| #19 | **#5 and #18 [Educating parents about child vaccination]** | 987 |
| #20 | #19 in Trials | **950** |

**2a: Why does the CENTRAL strategy identify this article?**

TI - Randomised cluster trial to support informed parental decision-making for the MMR vaccine

AU - Jackson C, Cheater FM, Harrison W, Peacock R, Bekker H, West R, Leese B.

AB - BACKGROUND: In the UK public concern about the safety of the combined measles, mumps and rubella [MMR] vaccine continues to impact on MMR coverage. This trial assessed the impact of a parent-centred, multi-component intervention (balanced information, group discussion, coaching exercise) on informed parental decision-making for MMR. METHODS: One hundred and forty two UK parents of children eligible for MMR vaccination were recruited. This was a two arm, cluster randomised trial. The intervention arm received an MMR information leaflet and participated in the intervention (parent meeting). The control arm received the leaflet only. The primary outcome was decisional conflict. RESULTS: Decisional conflict decreased for both arms … CONCLUSIONS: Whilst both the leaflet and the parent meeting reduced parents' decisional conflict, the parent meeting appeared to enable parents to act upon their decision leading to vaccination uptake.

MH - Decision Making

MH - Focus Groups

MH - Health Knowledge, Attitudes, Practice

MH - Humans

MH - Immunization Programs

MH - Interviews as Topic

MH - Measles-Mumps-Rubella Vaccine

MH - Parents

MH - Surveys and Questionnaires

PT - Randomized Controlled Trial

SO - BMC Public Health. 2011 Jun 16;11:475.

**2b: Why does the same search strategy miss this article?**

TI - Assessment of parent education methods for infant immunization

AU - Bjornson GL, Scheifele DW, Gold R.

AB - OBJECTIVE: To assess whether a video about infant immunization could inform parents as well as human counselling (oral presentation). METHODS: Volunteer prenatal classes were randomly assigned a video or oral presentation. RESULTS: 227 subjects participated … Groups were similar in terms of gender mix, parenting experience and recent reading about immuni**z**ation. Pre-test knowledge scores were similarly low between groups. Post-test scores were much higher … CONCLUSIONS: In a prenatal classroom setting, video and oral presentations were equally effective in conveying key information about infant immunization.

MH - British Columbia

MH - Health Education

MH - Humans

MH - Immunization

MH - Infant

MH - Prenatal Care

MH - Program Evaluation

MH - Video Recording

PT - Clinical Trial

PT - Journal Article

PT - Randomized Controlled Trial

SO - Can J Public Health. 1997 Nov-Dec;88(6):405-8.

**Exercise 3a - Epistemonikos**

To answer the following research question: **What is the effect of giving the papillomavirus vaccine to boys?**, search Epistemonikos using the suggested search terms below

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Population** | **Intervention** | **Comparison** | **Outcome** | **Studydesign** |
| **Text words** | boy  boys  man  men  male | "papillomavirus vaccine"  "papilloma virus vaccine"  "papillomavirus vaccines"  "papilloma virus vaccines"  "HPV vaccine"  "HPV vaccines" |  |  | Limit to Publication type: Systematic Review |

**OR, IF YOU RATHER PREFER:** Use your own research question and **1.** break it into review concepts, **2.** select which review concepts to use as search concepts, **3.** find search terms, **4.** do a search in Epistemonikos

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Concept 1** | **Concept 2** | **Concept 3** | **Concept 4** |
| **Review concepts** |  |  |  |  |
| **Search concepts** |  |  |  |  |
| **Search terms** |  |  |  |  |

**Exercise 3b - PubMed**

To answer the following research question: **What is the effect of giving the papillomavirus vaccine to boys?**, search PubMed using the suggested search terms below

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Population** | **Intervention** | **Comparison** | **Outcome** | **Studydesign** |
| **MeSH** | Men | papillomavirus vaccines |  |  | Limit to relevant publication type: RCTs |
| **Text words** | boy  boys  man  men  male | papillomavirus vaccine\*  papilloma virus vaccine\*  HPV vaccine\* |  |  |

**OR, IF YOU RATHER PREFER:** Use your own research question and **1.** break it into review concepts, **2.** select which review concepts to use as search concepts, **3.** find search terms, **4.** do a search in PubMed

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Concept 1** | **Concept 2** | **Concept 3** | **Concept 4** |
| **Review concepts** |  |  |  |  |
| **Search concepts** |  |  |  |  |
| **Search terms** |  |  |  |  |