

Supplementary File

Protocol (Drafted in 13-April, 2023; Latesed updated in 16-May, 2024)

Impact of retracted randomized controlled trials on producing trustworthy healthcare evidence: a replicability study

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Abstract

Background: Evidence synthesis is a preferred method to summarize existing data of relevant studies for a certain topic to provide comprehensive evidence to support informed decision-making. However, the reliability of the synthesized evidence relies largely on the validity and quality of original studies. As an increasing number of published studies have been retracted due to insufficient validity, huge concerns around subsequent negative impacts have arisen. In this study, we aim to investigate the potential impact of retracted randomized controlled trials on the synthesized results and conclusions in healthcare practice.

Methods and analyses: Retracted randomized controlled trials will be searched via Web of Science and Retraction Watch databases up to May 1st, 2023. A data use agreement has been signed as required by Retraction Watch. Eligible retracted trials identified by two authors will be checked for their citations in Google Scholar, and any reviews with quantitative evidence syntheses that involved the retracted trials will be further identified. Re-analyses will be conducted by removing those studies that were retracted with the same statistical methods used by the review authors, and the direction of the effects as well as significance of *p*-values will be compared.

Discussion: This is the first study to investigate the potential impact of retracted trials on the results and conclusions of evidence synthesis research and their subsequent impact on healthcare practice guidelines. This study will have important implications for evidence synthesis practice, clinical practice guideline development, and healthcare decision-making.

Ethics and dissemination: No ethical approval is involved in this study. The findings of this study will be presented at an international scientific conference and published in a peer-reviewed academic journal.

Keywords: Evidence synthesis; Randomized controlled trial; Replicability; Research waste; Retracted publication.

Introduction

Evidence synthesis summarizes existing data of relevant studies for a certain topic in order to provide comprehensive and precise, evidence to support informed decision-making [1]. However, it has long been recognized that the reliability of the synthesized evidence largely relies on the quality of original studies [2]. The concerns regarding study methodological quality pushes the research synthesis community to formulate regulations and guidelines and develop post-hoc measurement tools in an effort to promote the production of trustworthy evidence [3, 4]. Whilst such actions have resulted in significant improvements in the past decades, numerous new threats have arisen, such as reproducibility and replicability [5]. The increasing incidence of retractions of published research points to these new threats and has raised serious concerns over their subsequent negative impact [6].

Randomized trials serve as the main source of unbiased data for evidence synthesis, and systematic reviews/meta-analyses have been hierarchized as the highest level in the evidence pyramid [7]. Randomized trials enable the minimization of potential biases arising from methodological weaknesses relating to participant allocation, intervention delivery, and outcome measurement [8]. On this basis, synthesized evidence from randomized trials is widely adopted in clinical practice guidelines []. Researchers should note that the basic assumption underpinning such a paradigm is that all the included trials are valid and present unbiased and honest information in the publications. However, this is not always the case, as an increasing number of retracted clinical trials have been documented due to the questionable nature of their data [9, 10].

The increasing number s of randomized trial retractions raises the possibility of a severe threat to evidence-based medicine; When a retracted trial is included as part of evidence synthesis, is the evidence synthesis still reliable? The incorporation of retracted evidence in clinical practice guidelines may spread incorrect conclusions, mislead healthcare practice, cause pain and harm to patients, and contribute to substantial research waste [11]. Therefore, it is an urgent priority in the science of evidence synthesis to clarify how many evidence syntheses included trials that were already retracted and examine the impact of such trials on the robustness of the evidence. In this study, we aim to address these questions via a large-scale replicability study.

Methods

Design and context

This study will be comprised of five consecutive steps as shown in Figure 1. First, we will search for retracted studies via two databases and identify those that are clinical trials. Characteristics of these trials and the reasons for retraction will be collected and summarized. Second, retracted trials that were identified in the first step will be checked for their citations in Google Scholar, and any

types of quantitative evidence syntheses that involved those retracted trials will be identified. In the third step, the syntheses that included data from retracted trials will be entirely replicated after removing the retracted trials using the same statistical methods used in the original evidence synthesis, and the results will then be compared. Finally, several methods, for example, the quality-effect model, and subgroup analysis will be employed to re-analyze the metadata to see if any methods may mitigate the impact of retracted trials on the pooled evidence.

Data sources

Identification of retracted clinical trials

We used the definition by Charlesworth that a retraction ‘*is the removal of an article from the scientific record after the article is published.*’, which differs from the concept of withdrawal, which refers to ‘*the removal of a manuscript from consideration by a journal upon request by the authors themselves before the article is published.*’ [12].

Retraction Watch database and Web of Science will be searched for related retracted publications up to May 1st, 2023. For the Retraction Watch database, we will retrieve records labeled as “Clinical Study” directly, without any limitation on the topics. For Web of Science, a search strategy has been developed by an information specialist (ZLS) after discussions with the lead authors (JHY, CX); the literature search will be run by the information specialist. Only articles with notification of ‘retraction’ and ‘expression of concern’ will be considered; those with ‘correction notice’ contributing to enhancing scientific trust will be excluded as these are not retractions. Two authors (ZLS, JHY) will review the titles of the retracted publications obtained from Web of Science, and those featured as randomized controlled trials will be identified and included in this study. The search strategy is presented in the Appendix.

Identification of evidence syntheses involving retracted trials

This study considers evidence synthesis as a method that combines information from multiple studies of the same topic, qualitatively or quantitatively, to obtain global knowledge for the given topic [13]. This includes all types of reviews (e.g., systematic reviews, rapid reviews, and umbrella reviews), meta-analyses, and pooled analyses. Current study will aim at quantitatively evidence synthesis (meta-analyses or pooled analyses, or reviews with meta-analyses or pooled analyses). To identify evidence syntheses researches that involved retracted trials, we will check the Google Scholar citations of the eligible retracted trials.

Data collection

Double independent data extraction will be done by 10 medical students. The following information will be collected: 1) information on retracted trials, including the DOI, total number of times it has

been cited, title, journal of publication, date of publication, date of retraction, reasons for retraction, number of authors, geographic region of the corresponding author, organizational affiliation of the corresponding author, interventions (e.g., medication, device, surgery), trial registration information, data sharing statement, source of funding, sample size, design information (e.g., parallel, cross-over, cluster), and risk of bias information; 2) information on evidence syntheses that involved retracted trials, including the total number of times the evidence synthesis was cited, journal of publication, year of publication, title, research type (e.g., systematic review, rapid review), methods of synthesis (quantitative or qualitative), type of meta-analysis (e.g., pairwise, multiple arms), location where retracted trial was cited (e.g., introduction, results, discussion), and data of each included studies used for the synthesis.

Main outcomes

The following outcomes will be of interest:

- 1) Characteristics of retracted trials and reasons for retraction;
- 2) Number and type of evidence syntheses that included retracted trials;
- 3) Proportion of retracted trials per pooled analysis and per synthesis;
- 4) Impact of retracted trials on the magnitude and direction of the pooled effects, impact of retracted trials on the significance of the P value;
- 5) Potential predictors for retracted trials.

Statistical analysis

For each evidence synthesis with quantitative data synthesis, we will replicate the analysis after removing retracted trials with the same synthesis method and the same effect estimates used in the original meta-analysis. If such information was not reported or insufficiently reported, we will refer to the forest plot and results for a subjective judgement by three senior methodologists (CX, LFL, LFK) separately. If consensus cannot be achieved, the replication will be done with the most appropriate method as determined by the three methodologists. The magnitude and direction of the effects and the significance of the p -value will be compared between the original synthesis and the replicated synthesis.

A generalized linear mixed model will be employed for potential predictors of retraction of clinical trials whenever feasible. In addition, a further re-analysis of the metadata by the quality-effects model [14] and different variants of the random-effects model (e.g., inverse variance random effects model, generalized linear mixed model) will be employed to see if any of these models could potentially mitigate the impact of retracted trials on the conclusions.

All analyses will be undertaken using the Stata SE/17 program and the R Studio program, with exact p values reported throughout

Results

None.

Contact details for further information

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Conflicts of interest

We declare no conflict of interest.

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Stage

Ongoing: A pilot searching has been employed, while a formal literature screening for the current study has not been done (as of 20 April 2023).

History

Protocol drafting: 13-April, 2023

Version 1: 20-April, 2023

Version 2: 18-July, 2023 (edits on wording and structure, no substantial change on the methods)

Version 3: 4-Aug, 2023 (add limits of clinical study by randomized controlled trials)

Version 4: 12-Aug, 2023 (revision based on the comments of all authors)

Version 5: 8-Nov, 2023 (addressed the numerical error of the search results)

Version 6: 7-May, 2024 (some included retractions were identified as non-RCTs, the literature search for retractions will be redone, and further data will be updated)

Version 7: 10-May, 2024 (revise of the inclusion criteria, see below the amemdments)

Version 8: 16-May, 2024 (re-set the databases for literature search)

Amendments of the protocol

- 1) 1-Nov to 8-Nov, 2023: The research team finished the identification of systematic reviews with meta-analyses that synthesized retracted randomized trials, with the number of 871 (will be further checked). Based on our previous experience, there would be a huge amounts of work to extract metadata from the 871 systematic reviews. After an online discussion by email, all team members approved a plan that to invite another team which would provide us more research assistants and funding support for the next steps. And the invited team leader will share authorship with us upon discussion.
- 2) We consider to further investigate the potential impact of “contaminated meta-analyses” on clinical practical guidelines.
- 3) 16-Nov, 2023: We noted that some retracted RCTs were still cited during the process of our project (April, 2023 to present), thus, we hypothesis that the new citations after the retraction may also involve systematic reviews with meta-analyses, and therefore, we plan to conduct a subgroup analysis of the impact of retracted RCTs on the results of meta-analyses by grouping all meta-analyses into two groups: one is meta-analyses published before the retraction of related retracted RCTs, and one is meta-analyses published after the retraction of those retracted RCTs.
- 4) 11-Dec, 2023: Change of the authorship. We have invited Professor Hui Liu from Shanghai Eastern Hepatobiliary Surgery Hospital of Navy Medical University to participant our projet, their team will participate for the following work: i) metadata extraction of the “contaminated meta-analyses”, ii) provide guidance on the section of potential impact of “contaminated meta-analyses” on clinical practical guidelines, iii) drafting the manuscript together, iv) provide further funding for current project (one institutional funding by Shanghai Eastern Hepatobiliary Surgery Hospital of Navy Medical University, and three National Natural Science Foundation of China (81970453, 82270634, 82302906). And Professor Hui Liu will be the corresponding author of current project and Professor Chang Xu will be the first author.
- 5) 31-Dec, 2023: After several rounds discussion about the potential impact of “contaminated meta-analyses” on clinical practical guidelines, we plan to focus on the proportion of clinical practical guidelines that were possibly “contaminated” by those meta-analyses that were substantially impacted by retracted RCTs (i.e., those meta-analyses changed the direction of the effects or the significance of the P value). This will be done by a forward searching of the topic of these meta-analyses to identify relavant clinical practical guidelines that were released or published after the publication of these meta-analyses, and then identify the proportion of clinical practical guidelines cited these meta-analyses. The searching will be based on the following databases: National Guideline Clearinghouse, Guidelines international network, Turning Research into Practice database, Guideline Central, Sumsearch, Google scholar, Google, and PubMed. And one information specialist will perform the guideline searching.

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- 6) 31-Dec, 2023: Considering the differential nature of efficacy/effectiveness against harm outcomes, we also plan to conduct subgroup analysis about the impact of retracted RCTs on conclusions of meta-analyses based on the outcome type: benefits and harms.
 - 7) 31-Dec, 2023: For the outcome of potential predictors of retracted RCTs, we will no longer treat this as an important outcome in this project, instead, we will compare the characteristics (e.g., sample size, design, risk of bias) of retracted RCTs and the remaining RCTs within a meta-analysis, based on a generalized linear mixed model, in a separate paper.
 - 8) 31-Dec, 2023: We plan to add an additional topic based on current project (where we refers to the “uncover the contamination” of retracted RCTs on clinical evidence). The additional topic will focus on “resolve the contamination” of retracted RCTs on clinical evidence. The topic will consist of three sections, with the plan of each section as follows.

Section 1: For systematic reviews with meta-analyses that synthesized evidence from retracted randomized controlled trials (here as ‘contaminated evidence’), searching for the following meta-analyses of the same topic based on PICO, and further checking: 1) whether these ‘follow-up meta-analyses’ corrected the contamination due to retracted randomized controlled trials; 2) when these ‘follow-up meta-analyses’ corrected the contamination; and 3) how these follow-up meta-analyses dealt with the retracted randomized controlled trials;

Section 2: The potential methods for minimizing the contamination due to ‘problematic’ randomized controlled trials when review authors don’t know which trials were or would be retracted, these include using conservative weighting scheme (e.g., random effect model, IVhet model), cooperating quality as part of the weighting scheme (Quality effect model), sensitivity/subgroup analysis based on quality, sensitivity analysis on the ‘leave-one-out’ basis, Grading evidence level of the meta-analysis.

Section 3: Practical guidelines for future meta-analyses.

- 9) 5-May, 2024: Since the reviewers found some included retractions were non-RCTs, and one reviewer raised concerns of the search strategy, after a discussion with the core author teams (Sunita Vohra, Yoon Look, Suhail Doi, Luis Furuya-Kanamori, Su Golder, Chang Xu, and Hui Liu,), we plan to check all of the included retractions, and re do the literature search and screen on Retraction Watch Database based on to authors independently in a double-screen matter (Chang Xu, and Tian Yuan).
- 10) 8-May, 2024: After a carefully discussion with two senior informationilists (Su Golder and Justin Clark) of the search strategy, we decided to only search the Retraction Watch database, this is because as described in the Retraction Watch website this database has already searched for PubMed, Web of Science, Scopus, Google Scholar, publishers, and academic journals.

Notes: The primary searching and screen of the retractions was conducted by Sun zhuanlan’s team, and after a carefully discussion, the re-work of these steps will be took over by Chang’ team.

The revision project was developed as below:

Revision project

Step 1: Check the 764 included retractions, and exclude non-RCTs.

(*Participants:* Chang Xu, Yuan Tian; *Senior methodologist for disagreements:* Luis)

Step 2: Re-screen the results of the Retraction Watch (N = 1,641), and compare the inclusions with the final inclusion based on step 1.

(*Participants:* Chang Xu, Yuan Tian; *Senior methodologist for disagreements:* Luis)

Step 3: Re searching the Retraction Watch under the filter of: “(HSC) Health Sciences” and limited the article type as “Research Article”, and limited the date of retraction as up to “April-26, 2023”, and limited the Nature of notice as “Retraction”.

(*Participants:* Chang Xu, Yuan Tian)

Step 4: Screen the records from step 3, by 6 to 8 team members, with each group 3-4 members, independently. First by titles and abstracts, and then by full-texts.

Step 5: Baseline information extraction for the final inclusion of the retractions in step 1, and new retracted RCTs in step 2 and 4. (Two groups of team members, independently)

Step 6: See below two sub-steps

- 1) For non-RCTs identified in step 1, re-check all of the relevant systematic reviews and meta-analyses involves these non-RCTs, exclude those SRs with retractions only contains these retracted non-RCTs, update the data, redo the replication (*Participants:* Chang Xu, Yuan Tian, Shiqi Fan).
- 2) For new retracted RCTs identified in step 2 and 4, forward citation searching via Google Scholar for these new retracted RCTs, identifying new systematic reviews and meta-analyses that synthesized these RCTs, check all the already included systematic reviews and meta-analyses to see if they also synthesis these RCTs, and update the data, do/redo the replication for these meta-analyses (*Participants:* Chang Xu, Yuan Tian, Shiqi Fan).

Step 7: Update all of the data analyses, figures, tables, supplementary file based on the requirement (including added any information of current study), and also update the third parts of the study — contamination of CPGs (*Participants:* Chang Xu, Suhail, Yuan Tian, Shiqi Fan).

- 11) 8-May, 2024: Changing of the inclusion criteria. After an online discussion of the core methodologists (Suhail Doi, Luis Furuya-Kanamori, and Chang Xu), we made two changes of the inclusion criteria. First, we excluded retractions without full-text due to the limited information for the judgement of whether it is an RCT; Second, we excluded retractions other than English, due to the fact that it is hard to accurately made a judgement of whether it is an RCT. Third, we excluded retractions of “Letter”, “Conference abstract”, “Oral communications”, “Brief reports”, even they were based on randomized controlled design,

because the information reported from these reports were also limited, and many such short reports would publish the full-length paper further. Fourth, we now only consider “retractions” and no longer consider “Expression of concerns”. Fifth, for some retractions of the data were taken from an randomized trial (which refers to secondary analysis), we used the inclusion criteria after our discussion that when the method for secondary analysis do not broken the randomization (for example, use the same data from original trial), we would include, otherwise exclude. The change of the inclusion criteria would lead to a slight underestimation of the impact of problematic trials on the evidence ecosystem.

- 12) 16-May, 2024: An addition search on Retraction Watch under the filter of: “(HSC) Health Sciences” and limited the article type as “Research Article”, and limited the date of retraction as up to “April-26, 2023”, and limited the Nature of notice as “Retraction”. (As planned above, see “Revision project” of the Step 3) .
- 13) 7-June, 2024: The individual (s) responsible for the section of retracted trial identification of the previous version chose to leave the the investigator team – they are no longer authors on the revised work.

Reference

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Supplementary Table S1. Search Strategy

Search strategy	Search date	Database	Number of records
Article Type(s) = “Clinical Study” AND ature of notice =”Retraction”, with the limits on Date of retraction as up to 2023/4/26.	2023/4/26, updated in 2024/11/5	Retreation Watch	2,233
Article Type(s) = “Research Artcile” AND Subjects = “(HSC) Health Sciences” AND Nature of notice =”Retraction”, with the limits on Date of retraction as up to 2023/4/26.	2024/5/16 updated in 2024/11/5	Retreation Watch	10,392

Filter for the automatic screen (abstracts and titles) for citations from Scopus

1. Meta-
2. Meta-analysis
3. Metaanalysis
4. Meta-review
5. Systematic review
6. Scoping review
7. Umbrella review
8. Integrated review
9. Integrative review
10. Quantitative review
11. Comprehensive review
12. Literature review
13. Overview
14. Literature search
15. systematic search
16. Data synthesis
17. evidence synthesis
18. Research synthesis
19. Quantitative synthesis
20. Qualitative synthesis
21. Cochrane

Test for the filter

We manually screened 2,846 citations (limited on 'Article' and 'Review') of the PREDIMED study [1] that exported from Scopus to test the sensitivity of the above filter. By viewing the titles and abstracts of the 2,846 records via Rayyan, 175 were judged as 'included' and 91 were judged as 'maybe'. A further full-text screen for the 266 records yield a final inclusion of 161 systematic reviews.

At the same time, the filter was used to automatically screen the 2,846 records, where 2499 records were 'filtered out', and 347 were identified. We then compared the 161 records by manually to the 347 records by filter, 159 of the 161 records were 'covered' in the 347 records, with a sensitivity of 98.76%, and the 2 were not covered were further checked and both did not had a quantitative synthesis of the data, see the following Table (Table S2).

Reference

[1] Estruch R, Ros E, Salas-Salvadó J, Covas MI, et al; PREDIMED Study Investigators. Primary prevention of cardiovascular disease with a Mediterranean diet. *N Engl J Med*. 2013 Apr 4;368(14):1279-90. doi: 10.1056/NEJMoa1200303.

Supplementary Table S2. Sensitivity test for the filter (159 of the 161 were covered in 347 records by filter).

ID	Screened by key words (filter)	Screened by humans	Covered
1	A comprehensive meta-analysis on evidence of Mediterranean diet and cardiovascular disease: Are individual components equal?	A comprehensive meta-analysis on evidence of Mediterranean diet and cardiovascular disease: Are individual components equal?	Yes
2	A greater flavonoid intake is associated with lower total and cause-specific mortality: A meta-analysis of cohort studies	A greater flavonoid intake is associated with lower total and cause-specific mortality: A meta-analysis of cohort studies	Yes
3	A journey into a Mediterranean diet and type 2 diabetes: A systematic review with meta-analyses	A journey into a Mediterranean diet and type 2 diabetes: A systematic review with meta-analyses	Yes
4	A Mediterranean diet improves HbA1c but not fasting blood glucose compared to alternative dietary strategies: A network meta-analysis	A Mediterranean diet improves HbA1c but not fasting blood glucose compared to alternative dietary strategies: A network meta-analysis	Yes
5	A systematic review and meta-analysis of nut consumption and incident risk of CVD and all-cause mortality	A systematic review and meta-analysis of nut consumption and incident risk of CVD and all-cause mortality	Yes
6	A systematic review of behavioural interventions promoting healthy eating among older people	A systematic review of behavioural interventions promoting healthy eating among older people	Yes
7	A systematic review of high-oleic vegetable oil substitutions for other fats and oils on cardiovascular disease risk factors: Implications for novel high-oleic soybean oils	A systematic review of high-oleic vegetable oil substitutions for other fats and oils on cardiovascular disease risk factors: Implications for novel high-oleic soybean oils	Yes
8	A systematic review of the effect of dietary saturated and polyunsaturated fat on heart disease	A systematic review of the effect of dietary saturated and polyunsaturated fat on heart disease	Yes
9	A Systematic Review of the Prevalence and Outcomes of Ideal Cardiovascular Health in US and Non-US Populations	A Systematic Review of the Prevalence and Outcomes of Ideal Cardiovascular Health in US and Non-US Populations	Yes
10	A systematic scoping review of how healthcare organizations are facilitating access to fruits and vegetables in their patient populations	A systematic scoping review of how healthcare organizations are facilitating access to fruits and vegetables in their patient populations	Yes
11	Adherence to a healthy diet according to the world health organization guidelines and all-cause mortality in elderly adults from Europe and the United States	Adherence to a healthy diet according to the world health organization guidelines and all-cause mortality in elderly adults from Europe and the United States	Yes
12	Adherence to Mediterranean diet and risk of cancer: A systematic review and meta-analysis of observational studies	Adherence to Mediterranean diet and risk of cancer: A systematic review and meta-analysis of observational studies	Yes
13	Adherence to mediterranean diet and risk of cancer: An updated systematic review and meta-analysis	Adherence to mediterranean diet and risk of cancer: An updated systematic review and meta-analysis	Yes
14	Adherence to Mediterranean diet and risk of developing cognitive disorders: An updated systematic review and meta-analysis of prospective cohort studies	Adherence to Mediterranean diet and risk of developing cognitive disorders: An updated systematic review and meta-analysis of prospective cohort studies	Yes

15	Adherence to the dietary approaches to stop hypertension diet and risk of stroke: A meta-analysis of prospective studies	Adherence to the dietary approaches to stop hypertension diet and risk of stroke: A meta-analysis of prospective studies	Yes
16	Adherence to the mediterranean diet during the covid-19 national lockdowns: A systematic review of observational studies	Adherence to the mediterranean diet during the covid-19 national lockdowns: A systematic review of observational studies	Yes
17	Adherence to the Mediterranean Diet in children and adolescents: A systematic review	Adherence to the Mediterranean Diet in children and adolescents: A systematic review	Yes
18	Adherence to the Mediterranean Diet in Pregnancy and Its Benefits on Maternal-Fetal Health: A Systematic Review of the Literature	Adherence to the Mediterranean Diet in Pregnancy and Its Benefits on Maternal-Fetal Health: A Systematic Review of the Literature	Yes
19	Anthocyanin Tissue Bioavailability in Animals: Possible Implications for Human Health. A Systematic Review	Anthocyanin Tissue Bioavailability in Animals: Possible Implications for Human Health. A Systematic Review	Yes
20	Anti-hyperlipidemia of garlic by reducing the level of total cholesterol and low-density lipoprotein	Anti-hyperlipidemia of garlic by reducing the level of total cholesterol and low-density lipoprotein	Yes
21	Antioxidant vitamin supplementation reduces arterial stiffness in adults: A systematic review and meta-analysis of randomized controlled trials	Antioxidant vitamin supplementation reduces arterial stiffness in adults: A systematic review and meta-analysis of randomized controlled trials	Yes
22	Association Between Work-Related Factors and Diet: A Review of the Literature	Association Between Work-Related Factors and Diet: A Review of the Literature	Yes
23	Association of behaviour change techniques with effectiveness of dietary interventions among adults of retirement age: A systematic review and meta-analysis of randomised controlled trials	Association of behaviour change techniques with effectiveness of dietary interventions among adults of retirement age: A systematic review and meta-analysis of randomised controlled trials	Yes
24	Association of Mediterranean diet with mild cognitive impairment and Alzheimer's disease: A systematic review and meta-analysis	Association of Mediterranean diet with mild cognitive impairment and Alzheimer's disease: A systematic review and meta-analysis	Yes
25	Association of metabolically healthy obesity and elevated risk of coronary artery calcification: A systematic review and meta-analysis	Association of metabolically healthy obesity and elevated risk of coronary artery calcification: A systematic review and meta-analysis	Yes
26	Associations between genotype–diet interactions and weight loss—a systematic review	Associations between genotype–diet interactions and weight loss—a systematic review	Yes
27	Baseline diabetes as a way to predict CV outcomes in a lipid-modifying trial: A meta-analysis of 330,376 patients from 47 landmark studies	Baseline diabetes as a way to predict CV outcomes in a lipid-modifying trial: A meta-analysis of 330,376 patients from 47 landmark studies	Yes
28	Behavioral Counseling to Promote a Healthy Diet and Physical Activity for Cardiovascular Disease Prevention in Adults with Cardiovascular Risk Factors: Updated Evidence Report and Systematic Review for the US Preventive Services Task Force	Behavioral Counseling to Promote a Healthy Diet and Physical Activity for Cardiovascular Disease Prevention in Adults with Cardiovascular Risk Factors: Updated Evidence Report and Systematic Review for the US Preventive Services Task Force	Yes
29	Caloric restriction in heart failure: A systematic review	Caloric restriction in heart failure: A systematic review	Yes

30	Cardiometabolic risk factors in vegans; A meta-analysis of observational studies	Cardiometabolic risk factors in vegans; A meta-analysis of observational studies	Yes
31	Carotid Intima-Media Thickness Progression as Surrogate Marker for Cardiovascular Risk: Meta-Analysis of 119 Clinical Trials Involving 100 667 Patients	Carotid Intima-Media Thickness Progression as Surrogate Marker for Cardiovascular Risk: Meta-Analysis of 119 Clinical Trials Involving 100 667 Patients	Yes
32	Central obesity and the Mediterranean diet: A systematic review of intervention trials	Central obesity and the Mediterranean diet: A systematic review of intervention trials	Yes
33	Consumption of nuts and legumes and risk of incident ischemic heart disease, stroke, and diabetes: A systematic review and meta-analysis	Consumption of nuts and legumes and risk of incident ischemic heart disease, stroke, and diabetes: A systematic review and meta-analysis	Yes
34	Consumption of nuts and legumes and risk of stroke: A meta-analysis of prospective cohort studies	Consumption of nuts and legumes and risk of stroke: A meta-analysis of prospective cohort studies	Yes
35	Consumption of yogurt and the incident risk of cardiovascular disease: A meta-analysis of nine cohort studies	Consumption of yogurt and the incident risk of cardiovascular disease: A meta-analysis of nine cohort studies	Yes
36	Dairy product consumption was associated with a lower likelihood of non-alcoholic fatty liver disease: A systematic review and meta-analysis	Dairy product consumption was associated with a lower likelihood of non-alcoholic fatty liver disease: A systematic review and meta-analysis	Yes
37	Dietary Change Interventions for Undergraduate Populations: Systematic Review and Recommendations	Dietary Change Interventions for Undergraduate Populations: Systematic Review and Recommendations	Yes
38	Dietary habits of adolescents living in North America, Europe or Oceania: A review on fruit, vegetable and legume consumption, sodium intake, and adherence to the Mediterranean Diet	Dietary habits of adolescents living in North America, Europe or Oceania: A review on fruit, vegetable and legume consumption, sodium intake, and adherence to the Mediterranean Diet	Yes
39	Dietary interventions for adults with chronic kidney disease	Dietary interventions for adults with chronic kidney disease	Yes
40	Dietary interventions for multiple sclerosis-related outcomes	Dietary interventions for multiple sclerosis-related outcomes	Yes
41	Dietary interventions in overweight and obese pregnant women: A systematic review of the content, delivery, and outcomes of randomized controlled trials	Dietary interventions in overweight and obese pregnant women: A systematic review of the content, delivery, and outcomes of randomized controlled trials	Yes
42	Dietary patterns and cognitive health in older adults: A systematic review	Dietary patterns and cognitive health in older adults: A systematic review	Yes
43	Dietary patterns and CVD: A systematic review and meta-analysis of observational studies	Dietary patterns and CVD: A systematic review and meta-analysis of observational studies	Yes
44	Dietary patterns and fatty liver disease	Dietary patterns and fatty liver disease	Yes
45	Dietary patterns and stroke: A systematic review and re-meta-analysis	Dietary patterns and stroke: A systematic review and re-meta-analysis	Yes
46	Dietary patterns, Mediterranean diet, and cardiovascular disease	Dietary patterns, Mediterranean diet, and cardiovascular disease	Yes

47	Dietary total fat, fatty acids intake, and risk of cardiovascular disease: A dose-response meta-analysis of cohort studies	Dietary total fat, fatty acids intake, and risk of cardiovascular disease: A dose-response meta-analysis of cohort studies	Yes
48	Do healthier foods and diet patterns cost more than less healthy options? A systematic review and meta-analysis	Do healthier foods and diet patterns cost more than less healthy options? A systematic review and meta-analysis	Yes
49	Does cooking with vegetable oils increase the risk of chronic diseases?: A systematic review	Does cooking with vegetable oils increase the risk of chronic diseases?: A systematic review	Yes
50	Does dietary fat affect inflammatory markers in overweight and obese individuals?—a review of randomized controlled trials from 2010 to 2016	Does dietary fat affect inflammatory markers in overweight and obese individuals?—a review of randomized controlled trials from 2010 to 2016	Yes
51	Effect of Breastfeeding in Early Life on Cardiorespiratory and Physical Fitness: A Systematic Review and Meta-Analysis	Effect of Breastfeeding in Early Life on Cardiorespiratory and Physical Fitness: A Systematic Review and Meta-Analysis	Yes
52	Effect of chronic consumption of pistachios (<i>Pistacia vera</i> L.) on glucose metabolism in pre-diabetics and type 2 diabetics: A systematic review	Effect of chronic consumption of pistachios (<i>Pistacia vera</i> L.) on glucose metabolism in pre-diabetics and type 2 diabetics: A systematic review	Yes
53	Effect of Dietary and Supplemental Lycopene on Cardiovascular Risk Factors: A Systematic Review and Meta-Analysis	Effect of Dietary and Supplemental Lycopene on Cardiovascular Risk Factors: A Systematic Review and Meta-Analysis	Yes
54	Effect of dietary patterns on cardiovascular risk factors in people with type 2 diabetes. A systematic review and network meta-analysis	Effect of dietary patterns on cardiovascular risk factors in people with type 2 diabetes. A systematic review and network meta-analysis	Yes
55	Effect of Palm Oil Consumption on Plasma Lipid Concentrations Related to Cardiovascular Disease: A Systematic Review and Meta-Analysis	Effect of Palm Oil Consumption on Plasma Lipid Concentrations Related to Cardiovascular Disease: A Systematic Review and Meta-Analysis	Yes
56	Effect of pasta in the context of low-glycaemic index dietary patterns on body weight and markers of adiposity: A systematic review and meta-analysis of randomised controlled trials in adults	Effect of pasta in the context of low-glycaemic index dietary patterns on body weight and markers of adiposity: A systematic review and meta-analysis of randomised controlled trials in adults	Yes
57	Effect of pistachio on brachial artery diameter and flow-mediated dilatation: A systematic review and meta-analysis of randomized, controlled-feeding clinical studies	Effect of pistachio on brachial artery diameter and flow-mediated dilatation: A systematic review and meta-analysis of randomized, controlled-feeding clinical studies	Yes
58	Effect of plant protein on blood lipids: A systematic review and meta-analysis of randomized controlled trials	Effect of plant protein on blood lipids: A systematic review and meta-analysis of randomized controlled trials	Yes
59	Effect of the Mediterranean diet on cognition and brain morphology and function: A systematic review of randomized controlled trials	Effect of the Mediterranean diet on cognition and brain morphology and function: A systematic review of randomized controlled trials	Yes
60	Effect of tree nuts on metabolic syndrome criteria: A systematic review and meta-analysis of randomised controlled trials	Effect of tree nuts on metabolic syndrome criteria: A systematic review and meta-analysis of randomised controlled trials	Yes

61	Effect of weight loss on blood pressure changes in overweight patients: A systematic review and meta-analysis	Effect of weight loss on blood pressure changes in overweight patients: A systematic review and meta-analysis	Yes
62	Effectiveness of dietary interventions among adults of retirement age: A systematic review and meta-analysis of randomized controlled trials	Effectiveness of dietary interventions among adults of retirement age: A systematic review and meta-analysis of randomized controlled trials	Yes
63	Effectiveness of interventions applicable to primary health care settings to promote Mediterranean diet or healthy eating adherence in adults: A systematic review	Effectiveness of interventions applicable to primary health care settings to promote Mediterranean diet or healthy eating adherence in adults: A systematic review	Yes
64	Effects of different dietary interventions on blood pressure: Systematic review and meta-analysis of randomized controlled trials	Effects of different dietary interventions on blood pressure: Systematic review and meta-analysis of randomized controlled trials	Yes
65	Effects of High and Low Fat Dairy Food on Cardio-Metabolic Risk Factors: A Meta-Analysis of Randomized Studies	Effects of High and Low Fat Dairy Food on Cardio-Metabolic Risk Factors: A Meta-Analysis of Randomized Studies	Yes
66	Effects of low-carbohydrate diet versus low-fat diet on non-alcoholic fatty liver disease: a meta-analysis of randomized controlled trials	Effects of low-carbohydrate diet versus low-fat diet on non-alcoholic fatty liver disease: a meta-analysis of randomized controlled trials	Yes
67	Effects of orange juice intake on cardiovascular risk factors: A systematic review and meta-analysis of randomized controlled clinical trials	Effects of orange juice intake on cardiovascular risk factors: A systematic review and meta-analysis of randomized controlled clinical trials	Yes
68	Effects of tart cherry juice consumption on cardio-metabolic risk factors: A systematic review and meta-analysis of randomized-controlled trials	Effects of tart cherry juice consumption on cardio-metabolic risk factors: A systematic review and meta-analysis of randomized-controlled trials	Yes
69	Effects of the dietary approach to stop hypertension (DASH) diet on cardiovascular risk factors: A systematic review and meta-analysis	Effects of the dietary approach to stop hypertension (DASH) diet on cardiovascular risk factors: A systematic review and meta-analysis	Yes
70	Effects of the mediterranean diet on cardiovascular outcomes-a systematic review and meta-analysis	Effects of the mediterranean diet on cardiovascular outcomes-a systematic review and meta-analysis	Yes
71	Effects of tree nuts on blood lipids, apolipoproteins, and blood pressure: Systematic review, meta-analysis, and dose-response of 61 controlled intervention trials	Effects of tree nuts on blood lipids, apolipoproteins, and blood pressure: Systematic review, meta-analysis, and dose-response of 61 controlled intervention trials	Yes
72	Effects of walnut consumption on blood lipids and other cardiovascular risk factors: An updated meta-analysis and systematic review of controlled trials	Effects of walnut consumption on blood lipids and other cardiovascular risk factors: An updated meta-analysis and systematic review of controlled trials	Yes
73	Effects on health outcomes of a mediterranean diet with no restriction on fat intake: A systematic review and meta-analysis	Effects on health outcomes of a mediterranean diet with no restriction on fat intake: A systematic review and meta-analysis	Yes
74	Evaluation of Dietary Patterns and All-Cause Mortality A Systematic Review	Evaluation of Dietary Patterns and All-Cause Mortality A Systematic Review	Yes

75	Evidence from randomised controlled trials does not support current dietary fat guidelines: A systematic review and meta-analysis	Evidence from randomised controlled trials does not support current dietary fat guidelines: A systematic review and meta-analysis	Yes
76	Evidence of the importance of dietary habits regarding depressive symptoms and depression	Evidence of the importance of dietary habits regarding depressive symptoms and depression	Yes
77	Food as medicine? Exploring the impact of providing healthy foods on adherence and clinical and economic outcomes	Food as medicine? Exploring the impact of providing healthy foods on adherence and clinical and economic outcomes	Yes
78	Food groups and intermediate disease markers: A systematic review and network meta-analysis of randomized trials	Food groups and intermediate disease markers: A systematic review and network meta-analysis of randomized trials	Yes
79	Food groups and risk of type 2 diabetes mellitus: a systematic review and meta-analysis of prospective studies	Food groups and risk of type 2 diabetes mellitus: a systematic review and meta-analysis of prospective studies	Yes
80	Food groups and the likelihood of non-alcoholic fatty liver disease: A systematic review and meta-analysis	Food groups and the likelihood of non-alcoholic fatty liver disease: A systematic review and meta-analysis	Yes
81	Fragility of cardiovascular outcome trials (CVOTs) examining nutrition interventions among patients with diabetes mellitus: a systematic review of randomized controlled trials	Fragility of cardiovascular outcome trials (CVOTs) examining nutrition interventions among patients with diabetes mellitus: a systematic review of randomized controlled trials	Yes
82	Health, not weight loss, focused programmes versus conventional weight loss programmes for cardiovascular risk factors: A systematic review and meta-analysis	Health, not weight loss, focused programmes versus conventional weight loss programmes for cardiovascular risk factors: A systematic review and meta-analysis	Yes
83	Healthy dietary patterns and risk of mortality and ESRD in CKD: A meta-analysis of cohort studies	Healthy dietary patterns and risk of mortality and ESRD in CKD: A meta-analysis of cohort studies	Yes
84	Impact of avocado-enriched diets on plasma lipoproteins: A meta-analysis	Impact of avocado-enriched diets on plasma lipoproteins: A meta-analysis	Yes
85	Impact of regulatory interventions to reduce intake of artificial trans-fatty acids: A systematic review	Impact of regulatory interventions to reduce intake of artificial trans-fatty acids: A systematic review	Yes
86	Interventions involving a major dietary component improve cognitive function in cognitively healthy adults: a systematic review and meta-analysis	Interventions involving a major dietary component improve cognitive function in cognitively healthy adults: a systematic review and meta-analysis	Yes
87	Japanese-Style Diet and Cardiovascular Disease Mortality: A Systematic Review and Meta-Analysis of Prospective Cohort Studies	Japanese-Style Diet and Cardiovascular Disease Mortality: A Systematic Review and Meta-Analysis of Prospective Cohort Studies	Yes
88	Legume consumption and CVD risk: A systematic review and meta-analysis	Legume consumption and CVD risk: A systematic review and meta-analysis	Yes

89	Long-term effects of increasing omega-3, omega-6 and total polyunsaturated fats on inflammatory bowel disease and markers of inflammation: a systematic review and meta-analysis of randomized controlled trials	Long-term effects of increasing omega-3, omega-6 and total polyunsaturated fats on inflammatory bowel disease and markers of inflammation: a systematic review and meta-analysis of randomized controlled trials	Yes
90	Long-term impact of mediterranean diet on cardiovascular disease prevention: A systematic review and meta-analysis of randomized controlled trials	Long-term impact of mediterranean diet on cardiovascular disease prevention: A systematic review and meta-analysis of randomized controlled trials	Yes
91	Lycopene and tomato and risk of cardiovascular diseases: A systematic review and meta-analysis of epidemiological evidence	Lycopene and tomato and risk of cardiovascular diseases: A systematic review and meta-analysis of epidemiological evidence	Yes
92	Medication therapy management challenges in patients with diabetes: A systematic review	Medication therapy management challenges in patients with diabetes: A systematic review	Yes
93	Mediterranean diet adherence, gut microbiota, and Alzheimer's or Parkinson's disease risk: A systematic review	Mediterranean diet adherence, gut microbiota, and Alzheimer's or Parkinson's disease risk: A systematic review	Yes
94	Mediterranean diet and cardiometabolic risk: A review	Mediterranean diet and cardiometabolic risk: A review	Yes
95	Mediterranean diet and cardiometabolic risk: A systematic review through evidence-based answers to key clinical questions	Mediterranean diet and cardiometabolic risk: A systematic review through evidence-based answers to key clinical questions	Yes
96	Mediterranean diet and cardiovascular disease: a systematic review and meta-analysis of observational studies	Mediterranean diet and cardiovascular disease: a systematic review and meta-analysis of observational studies	Yes
97	Mediterranean diet and health status: An updated meta-analysis and a proposal for a literature-based adherence score	Mediterranean diet and health status: An updated meta-analysis and a proposal for a literature-based adherence score	Yes
98	Mediterranean diet and its benefits on health and mental health: A literature review	Mediterranean diet and its benefits on health and mental health: A literature review	Yes
99	Mediterranean diet and mortality in people with cardiovascular disease: A meta-analysis of prospective cohort studies	Mediterranean diet and mortality in people with cardiovascular disease: A meta-analysis of prospective cohort studies	Yes
100	Mediterranean diet and mortality in the elderly: A prospective cohort study and a meta-analysis	Mediterranean diet and mortality in the elderly: A prospective cohort study and a meta-analysis	Yes
101	Mediterranean Diet and Musculoskeletal-Functional Outcomes in Community-Dwelling Older People: A Systematic Review and Meta-Analysis	Mediterranean Diet and Musculoskeletal-Functional Outcomes in Community-Dwelling Older People: A Systematic Review and Meta-Analysis	Yes
102	Mediterranean diet and structural neuroimaging biomarkers of Alzheimer's and cerebrovascular disease: A systematic review	Mediterranean diet and structural neuroimaging biomarkers of Alzheimer's and cerebrovascular disease: A systematic review	Yes
103	Mediterranean Diet for Primary and Secondary Prevention of Cardiovascular Disease and Mortality: An Updated Systematic Review	Mediterranean Diet for Primary and Secondary Prevention of Cardiovascular Disease and Mortality: An Updated Systematic Review	Yes

104	Mediterranean diet, cardiovascular disease and mortality in diabetes: A systematic review and meta-analysis of prospective cohort studies and randomized clinical trials	Mediterranean diet, cardiovascular disease and mortality in diabetes: A systematic review and meta-analysis of prospective cohort studies and randomized clinical trials	Yes
105	Mediterranean diet, cognitive function, and dementia: A systematic review of the evidence	Mediterranean diet, cognitive function, and dementia: A systematic review of the evidence	Yes
106	Mediterranean diet, stroke, cognitive impairment, and depression: A meta-analysis	Mediterranean diet, stroke, cognitive impairment, and depression: A meta-analysis	Yes
107	'Mediterranean' dietary pattern for the primary prevention of cardiovascular disease	'Mediterranean' dietary pattern for the primary prevention of cardiovascular disease	Yes
108	Mediterranean dietary pattern, inflammation and endothelial function: A systematic review and meta-analysis of intervention trials	Mediterranean dietary pattern, inflammation and endothelial function: A systematic review and meta-analysis of intervention trials	Yes
109	Mediterranean-style diet for the primary and secondary prevention of cardiovascular disease	Mediterranean-style diet for the primary and secondary prevention of cardiovascular disease	Yes
110	Meta-analysis and machine learning-augmented mixed effects cohort analysis of improved diets among 5847 medical trainees, providers and patients	Meta-analysis and machine learning-augmented mixed effects cohort analysis of improved diets among 5847 medical trainees, providers and patients	Yes
111	Meta-analysis of effect of vegetarian diet on ischemic heart disease and all-cause mortality	Meta-analysis of effect of vegetarian diet on ischemic heart disease and all-cause mortality	Yes
112	Metabolic effects of monounsaturated fatty acid-enriched diets compared with carbohydrate or polyunsaturated fatty acid-enriched diets in patients with type 2 diabetes: A systematic review and meta-analysis of randomized controlled trials	Metabolic effects of monounsaturated fatty acid-enriched diets compared with carbohydrate or polyunsaturated fatty acid-enriched diets in patients with type 2 diabetes: A systematic review and meta-analysis of randomized controlled trials	Yes
113	Monounsaturated fatty acids, olive oil and health status: A systematic review and meta-analysis of cohort studies	Monounsaturated fatty acids, olive oil and health status: A systematic review and meta-analysis of cohort studies	Yes
114	Natural history of venous thromboembolism in patients from the Mediterranean region. A systematic review	Natural history of venous thromboembolism in patients from the Mediterranean region. A systematic review	Yes
115	Nut consumption and risk of cardiovascular disease, total cancer, all-cause and cause-specific mortality: A systematic review and dose-response meta-analysis of prospective studies	Nut consumption and risk of cardiovascular disease, total cancer, all-cause and cause-specific mortality: A systematic review and dose-response meta-analysis of prospective studies	Yes
116	Nut consumption and risk of stroke	Nut consumption and risk of stroke	Yes
117	Nut consumption and risk of type 2 diabetes, cardiovascular disease, and all-cause mortality: A systematic review and meta-analysis	Nut consumption and risk of type 2 diabetes, cardiovascular disease, and all-cause mortality: A systematic review and meta-analysis	Yes
118	Nut consumption in relation to all-cause and cause-specific mortality: A meta-analysis 18 prospective studies	Nut consumption in relation to all-cause and cause-specific mortality: A meta-analysis 18 prospective studies	Yes

119	Nut consumption in relation to cardiovascular disease risk and type 2 diabetes: A systematic review and meta-analysis of prospective studies	Nut consumption in relation to cardiovascular disease risk and type 2 diabetes: A systematic review and meta-analysis of prospective studies	Yes
120	Nut intake and stroke risk: A dose-response meta-analysis of prospective cohort studies	Nut intake and stroke risk: A dose-response meta-analysis of prospective cohort studies	Yes
121	Nutritional Intake after Liver Transplant: Systematic Review and Meta-Analysis	Nutritional Intake after Liver Transplant: Systematic Review and Meta-Analysis	Yes
122	Oligella spp.: A systematic review on an uncommon urinary pathogen	Oligella spp.: A systematic review on an uncommon urinary pathogen	Yes
123	Olive oil consumption and risk of CHD and/or stroke: A meta-analysis of case-control, cohort and intervention studies	Olive oil consumption and risk of CHD and/or stroke: A meta-analysis of case-control, cohort and intervention studies	Yes
124	Omega-3 and polyunsaturated fat for prevention of depression and anxiety symptoms: Systematic review and meta-analysis of randomised trials	Omega-3 and polyunsaturated fat for prevention of depression and anxiety symptoms: Systematic review and meta-analysis of randomised trials	Yes
125	Physical activity, diet, and weight loss in patients recruited from primary care settings: An update on obesity management interventions	Physical activity, diet, and weight loss in patients recruited from primary care settings: An update on obesity management interventions	Yes
126	Polyunsaturated fatty acids for the primary and secondary prevention of cardiovascular disease	Polyunsaturated fatty acids for the primary and secondary prevention of cardiovascular disease	Yes
127	Portfolio Dietary Pattern and Cardiovascular Disease: A Systematic Review and Meta-analysis of Controlled Trials	Portfolio Dietary Pattern and Cardiovascular Disease: A Systematic Review and Meta-analysis of Controlled Trials	Yes
128	Randomised controlled trials addressing how the clinical application of information and communication technology impacts the quality of patient care—A systematic review and meta-analysis	Randomised controlled trials addressing how the clinical application of information and communication technology impacts the quality of patient care—A systematic review and meta-analysis	Yes
129	Reduction in saturated fat intake for cardiovascular disease	Reduction in saturated fat intake for cardiovascular disease	Yes
129	Reduction in saturated fat intake for cardiovascular disease	Reduction in saturated fat intake for cardiovascular disease	Yes
131	Relationship of tree nut, peanut and peanut butter intake with total and cause-specific mortality: A cohort study and meta-analysis	Relationship of tree nut, peanut and peanut butter intake with total and cause-specific mortality: A cohort study and meta-analysis	Yes
132	Research is still limited on nutrition and quality of life among older adults	Research is still limited on nutrition and quality of life among older adults	Yes
133	Resistance training and stroke: A critical analysis of different training programs	Resistance training and stroke: A critical analysis of different training programs	Yes
134	School and family-based interventions for promoting a healthy lifestyle among children and adolescents in Italy: A systematic review	School and family-based interventions for promoting a healthy lifestyle among children and adolescents in Italy: A systematic review	Yes
135	Social, economic, technological, and environmental factors affecting cardiovascular diseases: A systematic review and thematic analysis	Social, economic, technological, and environmental factors affecting cardiovascular diseases: A systematic review and thematic analysis	Yes

136	Systematic review of palm oil consumption and the risk of cardiovascular disease	Systematic review of palm oil consumption and the risk of cardiovascular disease	Yes
137	The Comparative Effects of Different Types of Oral Vitamin Supplements on Arterial Stiffness: A Network Meta-Analysis	The Comparative Effects of Different Types of Oral Vitamin Supplements on Arterial Stiffness: A Network Meta-Analysis	Yes
138	The Effect of Berry-Based Food Interventions on Markers of Cardiovascular and Metabolic Health: A Systematic Review of Randomized Controlled Trials	The Effect of Berry-Based Food Interventions on Markers of Cardiovascular and Metabolic Health: A Systematic Review of Randomized Controlled Trials	Yes
139	The Effect of Dietary Patterns on Reducing Falls and Falls Risk in Adults: A Systematic Review	The Effect of Dietary Patterns on Reducing Falls and Falls Risk in Adults: A Systematic Review	Yes
140	The effect of nut consumption on markers of inflammation and endothelial function: A systematic review and meta-analysis of randomised controlled trials	The effect of nut consumption on markers of inflammation and endothelial function: A systematic review and meta-analysis of randomised controlled trials	Yes
141	The Effect of the Mediterranean Diet on Hypertension: A Systematic Review and Meta-Analysis	The Effect of the Mediterranean Diet on Hypertension: A Systematic Review and Meta-Analysis	Yes
142	The effects of Anethum graveolens (dill) supplementation on lipid profile and glycemic control: a systematic review and meta-analysis of randomized controlled trials	The effects of Anethum graveolens (dill) supplementation on lipid profile and glycemic control: a systematic review and meta-analysis of randomized controlled trials	Yes
143	The effects of diet on weight and metabolic outcomes in patients with double diabetes: A systematic review	The effects of diet on weight and metabolic outcomes in patients with double diabetes: A systematic review	Yes
144	The effects of low-carbohydrate diets on cardiovascular risk factors: A meta-analysis	The effects of low-carbohydrate diets on cardiovascular risk factors: A meta-analysis	Yes
145	The impact of dietary factors on indices of chronic disease in older people: A systematic review	The impact of dietary factors on indices of chronic disease in older people: A systematic review	Yes
146	The impact of nutrition on the development and progression of peripheral artery disease: A systematic review	The impact of nutrition on the development and progression of peripheral artery disease: A systematic review	Yes
147	The impact of the mediterranean diet on the cognitive functioning of healthy older adults: A systematic review and meta-analysis	The impact of the mediterranean diet on the cognitive functioning of healthy older adults: A systematic review and meta-analysis	Yes
148	The prospective impact of food pricing on improving dietary consumption: A systematic review and meta-analysis	The prospective impact of food pricing on improving dietary consumption: A systematic review and meta-analysis	Yes
149	The Relationship Between Omega-3, Omega-6 and Total Polyunsaturated Fat and Musculoskeletal Health and Functional Status in Adults: A Systematic Review and Meta-analysis of RCTs	The Relationship Between Omega-3, Omega-6 and Total Polyunsaturated Fat and Musculoskeletal Health and Functional Status in Adults: A Systematic Review and Meta-analysis of RCTs	Yes

150	The short-and long-term effects of dietary patterns on cardiometabolic health in adults aged 65 years or older: A systematic review	The short-and long-term effects of dietary patterns on cardiometabolic health in adults aged 65 years or older: A systematic review	Yes
151	The Theory of Planned Behaviour and dietary patterns: A systematic review and meta-analysis	The Theory of Planned Behaviour and dietary patterns: A systematic review and meta-analysis	Yes
152	The use of psychological methodologies in cardiovascular disease interventions promoting a Mediterranean style diet: A systematic review	The use of psychological methodologies in cardiovascular disease interventions promoting a Mediterranean style diet: A systematic review	Yes
153	Total red meat intake of ≥ 0.5 servings/d does not negatively influence cardiovascular disease risk factors: A systemically searched meta-analysis of randomized controlled trials	Total red meat intake of ≥ 0.5 servings/d does not negatively influence cardiovascular disease risk factors: A systemically searched meta-analysis of randomized controlled trials	Yes
154	Transcriptomics and the mediterranean diet: A systematic review	Transcriptomics and the mediterranean diet: A systematic review	Yes
155	Transferability of the Mediterranean diet to non-Mediterranean countries. What is and what is not the Mediterranean diet	Transferability of the Mediterranean diet to non-Mediterranean countries. What is and what is not the Mediterranean diet	Yes
156	Transition from metabolically healthy to unhealthy overweight/obesity and risk of cardiovascular disease incidence: A systematic review and meta-analysis	Transition from metabolically healthy to unhealthy overweight/obesity and risk of cardiovascular disease incidence: A systematic review and meta-analysis	Yes
157	Tree Nut and Peanut Consumption and Risk of Cardiovascular Disease: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Tree Nut and Peanut Consumption and Risk of Cardiovascular Disease: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Yes
158	Vegan-vegetarian diets in pregnancy: Danger or panacea? A systematic narrative review	Vegan-vegetarian diets in pregnancy: Danger or panacea? A systematic narrative review	Yes
159	What's new in stroke? Phase III randomized clinical trials of 2012-2014	What's new in stroke? Phase III randomized clinical trials of 2012-2014	Yes
160	From Mediterranean diet to Mediterranean lifestyle: A narrative review	Diet and Healthy Patterns in the Elderly	No
161	Mediterranean diet and health outcomes: A systematic meta-review	Lifestyle changes for the treatment of nonalcoholic fatty liver disease-a 2015-19 update	No
162	Definition of the mediterranean diet: A literature review		NA
163	Biomarkers of food intake for nuts and vegetable oils: an extensive literature search		NA
164	Role of warburg effect in cardiovascular diseases: A potential treatment option		NA
165	Atherogenic dyslipidemia in Latin America: Prevalence, causes and treatment. Consensus		NA

166	Nuts as a Part of Dietary Strategy to Improve Metabolic Biomarkers: A Narrative Review	NA
167	Non-systematic review of diet and nutritional risk factors of cardiovascular disease in obesity	NA
168	Lifestyle changes for stroke prevention	NA
169	Reviewing the cardiovascular and other health effects of olive oil: Limitations and future directions of current supplement formulations	NA
170	Lifestyle advice and interventions for cardiovascular risk reduction: A systematic review of guidelines	NA
171	Non-pharmacological management of hypertension	NA
172	Coconut oil intake and its effects on the cardiometabolic profile – A structured literature review	NA
173	Sodium–Glucose Cotransporter-2 Inhibition in Type 2 Diabetes Mellitus A Review of Large-Scale Cardiovascular Outcome Studies and Possible Mechanisms of Benefit	NA
174	Practical dietary recommendations for the prevention and management of nonalcoholic fatty liver disease in adults	NA
175	Complementary and Integrative Medicine for Neurocognitive Disorders and Caregiver Health	NA
176	Oxidative stress, aging, antioxidant supplementation and their impact on human health: An overview	NA
177	Role of immune responses in the development of NAFLD-associated liver cancer and prospects for therapeutic modulation	NA
178	Olive Oil-related anti-inflammatory effects on atherosclerosis: Potential clinical implications	NA
179	A systematic review of precision nutrition and Mediterranean Diet: A personalized nutrition approaches for prevention and management of obesity related disorders	NA
180	The Influences of Macronutrients on Bone Mineral Density, Bone Turnover Markers, and Fracture Risk in Elderly People: A Review of Human Studies	NA
181	Greenhouse gases emissions from the diet and risk of death and chronic diseases in the EPIC-Spain cohort	NA
182	Diet and Men's Sexual Health	

183	Dietary Risk Factors and Eating Behaviors in Peripheral Arterial Disease (PAD)	NA
184	Health benefits of legumes and pulses with a focus on Australian sweet lupins	NA
185	Nuts and cardio-metabolic disease: A review of meta-analyses	NA
186	Clinical implications of oxidative stress and potential role of natural antioxidants in diabetic vascular complications	NA
187	Improving the scientific rigour of nutritional recommendations for adults with type 2 diabetes: A comprehensive review of the American Diabetes Association guideline-recommended eating patterns	NA
188	Psychosocial Factors in Diabetes and Cardiovascular Risk	NA
189	Healthy diet in primary and secondary prevention of stroke	NA
190	Cashew nut allergy; immune health challenge	NA
191	Cardiovascular risk in climacteric women: focus on diet	NA
192	Economic benefit of dietetic-nutritional treatment in the multidisciplinary primary care team	NA
193	Diet and prevention of type 2 diabetes mellitus: beyond weight loss and exercise	NA
194	Determination of the level of evidence for the association between different food groups/items and dietary fiber intake and the risk of cardiovascular diseases and hypertension: An umbrella review	NA
195	Can study of the ADRB3 gene help improve weight loss programs in obese individuals?	NA
196	Universal depression prevention: An umbrella review of meta-analyses	NA
197	Replacement of saturated and trans-fatty acids in the diet v. CVD risk in the light of the most recent studies	NA
198	Saturated Fat: Part of a Healthy Diet	NA
199	Mediterranean diet and cognitive health: An update of available knowledge	NA
200	Dietary interventions to contrast the onset and progression of diabetic nephropathy: A critical survey of new data	NA

201	The effect of on-shelf sugar labeling on beverage sales in the supermarket: a comparative interrupted time series analysis of a natural experiment	NA
202	The Role of Macronutrient Content in the Diet for Weight Management	NA
203	Impact of diet on cardiometabolic health in children and adolescents	NA
204	Development of a peer support intervention to encourage dietary behaviour change towards a Mediterranean diet in adults at high cardiovascular risk	NA
205	Dietary profiles and cardiovascular diseases	NA
206	Lipoprotein(a): Current Evidence for a Physiologic Role and the Effects of Nutraceutical Strategies	NA
207	Saturated fat: villain and bogeyman in the development of cardiovascular disease?	NA
208	Mediterranean-style diet for the primary and secondary prevention of cardiovascular disease: Summary of a Cochrane review	NA
209	Global Perspectives on the Medicinal Implications of Green Walnut and Its Benefits: A Comprehensive Review	NA
210	Influence of mediterranean diet on blood pressure	NA
211	Dietary patterns and components to prevent and treat heart failure: a comprehensive review of human studies	NA
212	Eating, diet, and nutrition for the treatment of non-alcoholic fatty liver disease	NA
213	The Mediterranean Diets' Effect on Gut Microbial Composition in Comparison with the Western Diet: A Literature Review	NA
214	Flavor chemistry of virgin olive oil: An overview	NA
215	Optimal cholesterol levels in patients in real-life. A systematic review	NA
216	The Mediterranean Diet and Cardiovascular Health: A Critical Review	NA
217	The Role of the Skin and Gut Microbiome in Psoriatic Disease	NA
218	Food for Thought or Feeding a Dogma? Diet and Coronary Artery Disease: a Clinician's Perspective	NA
219	Nitrate, the oral microbiome, and cardiovascular health: A systematic literature review of human and animal studies	NA

220	Diet and primary prevention of stroke: Systematic review and dietary recommendations by the ad hoc Working Group of the Italian Society of Human Nutrition	NA
221	Intracellular lipid accumulation and shift during diabetes progression	NA
222	Metabolic syndrome in bipolar disorder: A review with a focus on bipolar depression	NA
223	Current meta-analysis: Omega-3 fatty acids and cardiovascular risk	NA
224	A review of the relative efficacy of dietary, nutritional supplements, lifestyle, and drug therapies in the management of hypertension	NA
225	Anti-inflammatory effects of omega 3 and omega 6 polyunsaturated fatty acids in cardiovascular disease and metabolic syndrome	NA
226	Obesity and cardiometabolic defects in heart failure pathology	NA
227	Healthy diet: Health impact, prevalence, correlates, and interventions	NA
228	Improvement of myocardial infarction risk prediction via inflammation-associated metabolite biomarkers	NA
229	Etiologic effects and optimal intakes of foods and nutrients for risk of cardiovascular diseases and diabetes: Systematic reviews and meta-analyses from the nutrition and chronic diseases expert group (NutriCoDE)	NA
230	Cardiovascular risk protection from the Mediterranean diet and olive oil. A transcriptomic update in humans	NA
231	Food groups and risk of chronic disease: A protocol for a systematic review and network meta-analysis of cohort studies	NA
232	Impact of nonoptimal intakes of saturated, polyunsaturated, and trans fat on global burdens of coronary heart disease	NA
233	Dietary factors associated with stroke: A literature review	NA
234	Doubly blind: A systematic review of gender in randomised controlled trials	NA
235	Dietary modifications for refractory chronic rhinosinusitis? Manipulating diet for the modulation of inflammation	NA
236	Effectiveness of psychological and/or educational interventions to prevent the onset of episodes of depression: A systematic review of systematic reviews and meta-analyses	NA

237	PON1 and mediterranean diet	NA
238	The diet-heart hypothesis, obesity and diabetes	NA
239	Protective effects of dietary PUFA against chronic disease: Evidence from epidemiological studies and intervention trials	NA
240	Positive effects of the mediterranean diet in the prevention and management of cardiovascular disease: A literature review	NA
241	New findings in primary and secondary stroke prevention	NA
242	Position statement on nutrition therapy for overweight and obesity: nutrition department of the Brazilian association for the study of obesity and metabolic syndrome (ABESO—2022)	NA
243	Effect of Nuts on Markers of Inflammation and Oxidative Stress: A Narrative Review	NA
244	The pivotal role of oleuropein in the anti-diabetic action of the mediterranean diet: A concise review	NA
245	Processed meat consumption and the risk of cancer: A critical evaluation of the constraints of current evidence from epidemiological studies	NA
246	Diet as a possible influencing factor in thyroid cancer incidence: the point of view of the nutritionist	NA
247	The Anti-Inflammatory Properties of Phytochemicals and Their Effects on Epigenetic Mechanisms Involved in TLR4/NF-κB-Mediated Inflammation	NA
248	Nutrition and physical activity: An Obesity Medicine Association (OMA) Clinical Practice Statement 2022	NA
249	Epigenetics: A New Link Between Nutrition and Health	NA
250	The attention on gender in studies on the treatment of hypertension: Was it enough?	NA
251	The role of short-chain fatty acids in the interplay between gut microbiota and diet in cardio-metabolic health	NA
252	Perspective: Design and Conduct of Human Nutrition Randomized Controlled Trials	NA
253	Dietary bioactive ingredients to modulate the gut microbiota-derived metabolite TMAO. New opportunities for functional food development	NA
254	Structure–biological activity relationships of extra-virgin olive oil phenolic compounds: Health properties and bioavailability	NA

255	Effects of olive oil on blood pressure: Epidemiological, clinical, and mechanistic evidence	NA
256	Social marketing-based interventions to promote healthy nutrition behaviors: a systematic review protocol	NA
257	Sustainability of food systems in the mediterranean region	NA
258	Influence of the mediterranean and ketogenic diets on cognitive status and decline: A narrative review	NA
259	Mediterranean diet and oxidative stress	NA
260	Nutrition and frailty: Current knowledge	NA
261	The Mediterranean Diet and Cardiovascular Disease: Gaps in the Evidence and Research Challenges	NA
262	Lifestyle interventions and nutraceuticals: Guideline-based approach to cardiovascular disease prevention	NA
263	A comprehensive policy for reducing sugar beverages for healthy life extension	NA
264	The mediterranean diet and cardioprotection: Historical overview and current research	NA
265	Emerging Complementary and Integrative Therapies for Geriatric Mental Health	NA
266	Individual Evidence-Based Medical Nutrition in Medical In-Patients: Where do we Stand Today?	NA
267	Dietary Approaches to Stop Hypertension (DASH) for the primary and secondary prevention of cardiovascular diseases	NA
268	Frailty of the elderly: An overview of the role of nutrition	NA
269	Weight reduction and cardiovascular benefits: Protocol for a systematic review and meta-analysis	NA
270	The Mediterranean Diet: Lost in Translation	NA
271	Tackling frailty and functional decline: Background of the action group A3 of the European innovation partnership for active and healthy ageing	NA
272	Advancing Nutrition Education, Training, and Research for Medical Students, Residents, Fellows, Attending Physicians, and Other Clinicians: Building Competencies and Interdisciplinary Coordination	NA

273	Dietary Patterns and Cardiovascular Disease Prevention among Patients with Diabetes	NA
274	A review of the relationship between pulse consumption and reduction of cardiovascular disease risk factors	NA
275	Mediterranean-style diet in pregnant women with metabolic risk factors (ESTEEM): A pragmatic multicentre randomised trial	NA
276	Reducing the global burden of cardiovascular disease, part 1: The epidemiology and risk factors	NA
277	Serum low-density lipoprotein as a dietary responsive biomarker of cardiovascular disease risk: Consensus and confusion	NA
278	Utilizing nutritional genomics to tailor diets for the prevention of cardiovascular disease: a guide for upcoming studies and implementations	NA
279	Dietary inflammatory index and all-cause mortality in large cohorts: The SUN and PREDIMED studies	NA
280	Are diabetes guidelines truly evidence based?	NA
281	Cardio-oncology Related to Heart Failure: Common Risk Factors Between Cancer and Cardiovascular Disease	NA
282	Estimating Longitudinal Risks and Benefits from Cardiovascular Preventive Therapies among Medicare Patients: The Million Hearts Longitudinal ASCVD Risk Assessment Tool: A Special Report from the American Heart Association and American College of Cardiology	NA
283	Cardiovascular disease risk reduction in diabetes through conventional and natural approaches	NA
284	Omega-3 fatty acids and cytochrome P450-derived eicosanoids in cardiovascular diseases: Which actions and interactions modulate hemodynamics?	NA
285	Effect of linoleic acid on ischemic heart disease and its risk factors: A Mendelian randomization study	NA
286	Marginal structural models and other analyses allow multiple estimates of treatment effects in randomized clinical trials: Meta-epidemiological analysis	NA
287	Principles of Healthful Eating	NA
288	The 2015 Dutch food-based dietary guidelines	NA

289	Cholesterol metabolism: A review of how ageing disrupts the biological mechanisms responsible for its regulation	NA
290	Methodologic quality of meta-analyses and systematic reviews on the Mediterranean diet and cardiovascular disease outcomes: A review	NA
291	Frailty of the elderly: An overview of the role of nutrition	NA
292	The Mediterranean Diet: its definition and evaluation of a priori dietary indexes in primary cardiovascular prevention	NA
293	Cardiovascular risks and benefits of moderate and heavy alcohol consumption	NA
294	Oily fish, coffee and walnuts: Dietary treatment for nonalcoholic fatty liver disease	NA
295	Dyslipidemia and Cardiovascular Disease in Women	NA
296	Diet heart controversies-Quality of fat matters	NA
297	Role of Physical Activity and Diet After Colorectal Cancer Diagnosis	NA
298	Diagnosis and management of cardiovascular risk in nonalcoholic fatty liver disease	NA
299	Polyunsaturated fatty acids and risk of melanoma: A Mendelian randomisation analysis	NA
300	Occurrence of variable levels of health-promoting fruit compounds in horn-shaped Italian sweet pepper varieties assessed by a comprehensive approach	NA
301	Mediterranean diet interventions to prevent cognitive decline-opportunities and challenges	NA
302	Hydrogen sulfide as a potent cardiovascular protective agent	NA
303	Ten years later, another view upon nutrition	NA
304	Health, not weight loss, focused programmes versus conventional weight loss programmes for cardiovascular risk factors	NA
305	Primary prevention of alzheimer's disease: Is it an attainable goal?	NA
306	Sexual Dysfunction Among Young Men: Overview of Dietary Components Associated With Erectile Dysfunction	NA
307	Nutraceuticals and dyslipidaemia: Beyond the common therapeutics	NA
308	Mediterranean Diet and Cardiovascular Risk - Are We There Yet?	NA

309	Approach to identifying and managing atherogenic dyslipidemia: A metabolic consequence of obesity and diabetes	NA
310	Nutritional management of insulin resistance in nonalcoholic fatty liver disease (NAFLD)	NA
311	Machine Learning-Augmented Propensity Score-Adjusted Multilevel Mixed Effects Panel Analysis of Hands-On Cooking and Nutrition Education versus Traditional Curriculum for Medical Students as Preventive Cardiology: Multisite Cohort Study of 3,248 Trainees over 5 Years	NA
312	Antiplatelet properties of natural products	NA
313	Mediterranean Diet and Prevention of Chronic Diseases	NA
314	Flavonols reduce aortic atherosclerosis lesion area in apolipoprotein E deficient mice: A systematic review and meta-analysis	NA
315	The PREDIMED trial, Mediterranean diet and health outcomes: How strong is the evidence?	NA
316	Virgin Olive Oil as Frying Oil	NA
317	Reducing US cardiovascular disease burden and disparities through national and targeted dietary policies: A modelling study	NA
318	Present food shopping habits in the Spanish adult population: A cross-sectional study	NA
319	Estimating Longitudinal Risks and Benefits From Cardiovascular Preventive Therapies Among Medicare Patients: The Million Hearts Longitudinal ASCVD Risk Assessment Tool: A Special Report From the American Heart Association and American College of Cardiology	NA
320	Association between dietary factors and mortality from heart disease, stroke, and type 2 diabetes in the United States	NA
321	An overview on the role of nutrition and food groups in the prevention of cardiovascular diseases	NA
322	Review on cell models to evaluate the potential antioxidant activity of polysaccharides	NA
323	Subclinical diabetes	NA
324	Nutrition and mental diseases: Focus depressive disorders	NA

325	Impact of dietary and metabolic risk factors on cardiovascular and diabetes mortality in South Asia: Analysis from the 2010 global burden of disease study	NA
326	Recommended Dietary Pattern to Achieve Adherence to the American Heart Association/American College of Cardiology (AHA/ACC) Guidelines: A Scientific Statement from the American Heart Association	NA
327	Associations of the MCM6-rs3754686 proxy for milk intake in Mediterranean and American populations with cardiovascular biomarkers, disease and mortality: Mendelian randomization	NA
328	Dietary guidelines for the Spanish population (SENC, December 2016); the new graphic icon of healthy nutrition	NA
329	Mediterranean Diet and cancer risk: an open issue	NA
330	Worldwide Exposures to Cardiovascular Risk Factors and Associated Health Effects: Current Knowledge and Data Gaps	NA
331	Health, not weight loss, focused programmes versus conventional weight loss programmes for cardiovascular risk factors	NA
332	Protective effects of the mediterranean diet on type 2 diabetes and metabolic syndrome	NA
333	Exclusive olive oil consumption has a protective effect on coronary artery disease; Overview of the THISEAS study	NA
334	Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: A systematic analysis for the Global Burden of Disease Study 2013	NA
335	Nutritional therapy of obesity and type 2 diabetes	NA
336	Aspirin for primary prevention of cardiovascular disease and cancer. A benefit and harm analysis	NA
337	Mediterranean Diet: From a Healthy Diet to a Sustainable Dietary Pattern	NA
338	Can the Mediterranean diet slow down age-related cognitive decline?	NA
339	Dietary flavonoid intakes and CVD incidence in the Framingham Offspring Cohort	NA
340	Noncommunicable diseases: Three decades of global data show a mixture of increases and decreases in mortality rates	NA

341	Understanding nutritional epidemiology and its role in policy	NA
342	Non-communicable diseases and adherence to mediterranean diet	NA
343	Nutrition and cardiovascular health	NA
344	MicroRNA-410 regulated lipoprotein lipase variant rs13702 is associated with stroke incidence and modulated by diet in the randomized controlled PREDIMED trial	NA
345	Overview of epidemiology and contribution of obesity to cardiovascular disease	NA
346	Dietary approaches to prevent hypertension	NA
347	The State of US health, 1990-2010: Burden of diseases, injuries, and risk factors	NA

Data extraction forms for meta-analyses

The following data types were considered when designing the data extraction forms: 1) binary outcomes composed of 2 by 2 table data; 2) binary outcomes composed of effect sizes and confidence intervals; 3) binary outcomes composed of effect sizes and standard errors; 4) continuous outcomes composed of 2 by 3 table data; 5) continuous outcomes composed of effect sizes and confidence intervals; and 6) continuous outcomes composed of effect sizes and standard errors. For Cochrane reviews, the data file was downloaded automatically via the .rm5 files.

Retracted clinical trails eligible for analysis (n = 1330)

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Supplementary Table S3. List of excluded retractions (with reasons)

Excluded retractions (N = 1,178)	Reasons for exclusion
1 Wang Y, Gao Y, Yuan L, et al. Psychological needs and associated factors among perioperative patients with oral cancer. <i>Oral Oncol.</i> 2021;123:105615.	Non randomized controlled trials
2 Moges K, Tadesse Y, Fentie F. The postoperative analgesia efficacy of dexamethasone added to bupivacaine versus bupivacaine alone in ultrasound-guided supraclavicular brachial plexus block for upper limb orthopedic surgeries, Ethiopia: An observational prospective cohort study. <i>SAGE Open Med.</i> 2022;10:20503121221126687.	Non randomized controlled trials
3 Chen M, Ran B, Gao X, et al. Evaluation of occupational stress management for improving performance and productivity at workplaces by monitoring the health, well-being of workers. 2021.	Non randomized controlled trials
4 Boldt J, Zickmann B, Benson M, et al. Does platelet size correlate with function in patients undergoing cardiac surgery?. <i>Intensive care medicine</i> , 1993, 19: 44-47.	Non randomized controlled trials
5 Liu Q, Cheng J, Li J, et al. Clinical Study of Virtual Reality Augmented Technology Combined with Contrast-Enhanced Ultrasound in the Assessment of Thyroid Cancer. <i>Journal of Healthcare Engineering</i> , 2021: 8042755.	Non randomized controlled trials
6 Gao C, Wu Y, Liu J, et al. Systematic Evaluation of the Effect of Rehabilitation of Lower Limb Function in Children with Cerebral Palsy Based on Virtual Reality Technology. <i>Journal of Healthcare Engineering</i> , 2021: 6625604.	Non randomized controlled trials
7 Li Y, Lv Z, Han H, et al. The Relationship between Meniere's Disease and Acute Low-Tone Sensorineural Hearing Loss. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 4217131.	Non randomized controlled trials
8 Shen X, Wei J, Zhang Y, et al. Analysis of Effect of Six Sigma Method Combined with CI Strategy on Improving of Nursing Quality in Outpatient Infusion Rooms. <i>BioMed Research International</i> , 2022: 8975435.	Non randomized controlled trials
9 Huang H, Gu J, Su H, et al. Solitaire™ Stent Thrombectomy System in the Treatment of Acute Lower-Limb Ischemia: Comparisons in Safety and Effectiveness with Conventional Catheter-Directed Thrombolysis Therapy. <i>BioMed Research International</i> , 2022: 6997221.	Non randomized controlled trials
10 Zhang Z. Clinical Observation of Botulinum Toxin Injection in the Treatment of Focal Dystonia and Muscle Spasm. <i>BioMed Research International</i> , 2022: 1495807.	Non randomized controlled trials
11 Liu L, Men X, Song X, et al. Application Analysis of Multiacupoint Stimulation in Multimodal Labor Analgesia during the Whole Stage of Labor in Primipara. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 5161562.	Non randomized controlled trials
12 Lv M, Yu S, Li Y, et al. Ultrasound Multiparametric Assessment of the Impact of Hypertensive Disorders of Pregnancy on Fetal Cardiac Function and Growth and Development. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 3419966.	Wrong study design
13 Ma C, Ma Y, Lu S, et al. Clinical Study on Effect of Solution Focused Approach on the Complications, Pain, Sleep, and Quality of Life in Patients with Hepatocellular Carcinoma Undergoing TACE. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2021: 5068228.	Non randomized controlled trials

14 Yang L, Zhao Z. Somatostatin plus Ulinastatin in the Treatment of Severe Acute Pancreatitis and Its Effect on Serum Cytokine Levels. Evidence-Based Complementary and Alternative Medicine, 2022: 7223632.	Non randomized controlled trials
15 Yu Y, Hu J, Xia Q, et al. Ultrasound Comparative Analysis of Coronary Arteries before and after Immune Blocking Therapy with Gamma Globulin in Children with Kawasaki Disease. Evidence-Based Complementary and Alternative Medicine, 2022: 2900378.	Non randomized controlled trials
16 Xu J, Yu X, Wang Z. The Risk and Clinical Treatment of Hypertensive Diseases in Pregnant Women. BioMed Research International, 2022: 8480106.	Non randomized controlled trials
17 Cai D H, Wang J, Zhong A, et al. Relationship between Acute Respiratory Tract Infection and the Serum 25 (OH) D3 Level in Chronic Kidney Disease Patients and Its Prevention and Treatment. BioMed Research International, 2022: 2550686.	Non randomized controlled trials
18 Ma L, Yu X, He R, et al. Experimental Analysis of the Effect of Rehabilitation Intervention on Tennis Players by Joint Injury Treatment. BioMed Research International, 2022: 4625719.	Non randomized controlled trials
19 He Y, He J, Hou X. Influence of Continuous Nursing Intervention on Treatment Compliance of Patients with Depression. Evidence-Based Complementary and Alternative Medicine, 2022: 7080678.	Non randomized controlled trials
20 Wu Z, Zhu Y. Comparison of the Effects of Epidural Anesthesia and General Anesthesia on Perioperative Cognitive Function and Deep Vein Thrombosis in Patients Undergoing Total Knee Arthroplasty. Evidence-Based Complementary and Alternative Medicine, 2021: 1565067.	Non randomized controlled trials
21 Yang L, Han F. A Rehabilitation Model Conducive to Postoperative Recovery of Endometrial Cancer Patients after Laparoscopy. BioMed Research International, 2022: 9910841.	Non randomized controlled trials
22 Liu N, Wang B. Comprehensive Rehabilitation Therapy Plus Glucosamine Hydrochloride for Exercise-Induced Knee Injuries and the Effect on Knee Function of Patients. Evidence-Based Complementary and Alternative Medicine, 2022: 8120458.	Non randomized controlled trials
23 Xia Y, Wang J, Wang P. Systematic Nursing Interventions Combined with Continuity of Care in Patients with a Spinal Fracture Complicated with a Spinal Cord Injury and Its Effect on Recovery and Satisfaction. Evidence-Based Complementary and Alternative Medicine, 2022: 3771144.	Non randomized controlled trials
24 Tan N, Xu L, Wu J. Analysis of the Causes and Preventive Strategies of Urogenic Sepsis after Flexible Ureteroscopic Lithotripsy. Evidence-Based Complementary and Alternative Medicine, 2022: 5332101.	Non randomized controlled trials
25 Tang Z, Tang Y, Liu T, et al. Clinical Study on the Efficacy of Laparoscopic Hepatectomy and Its Influence on the Expression of Serum VEGF, FGF, and Immune Function. Evidence-Based Complementary and Alternative Medicine, 2021: 4432022.	Wrong study design
26 Yue H, Fan K, Zhang Z, et al. Clinical Analysis of Video-Assisted Thoracoscopic Surgery for Resection of Solitary Pulmonary Nodules and Influencing Factors in the Diagnosis of Benign and Malignant Nodules. Evidence-Based Complementary and Alternative Medicine, 2021: 1490709.	Wrong study design

27 Li J, Zhang X, Xie S, et al. Analysis of the Influence of High-Dose rhGH Therapy on Serum Vitamin D and IGF-1 Levels in School-Age Children with Idiopathic Short Stature. Evidence-Based Complementary and Alternative Medicine, 2021: 5776487.	Wrong study design
28 Hao W, Zhu C, Chen Y, et al. Clinical Effect of Standardized Dietary Avoidance Therapy on Children with Milk Protein Allergy and Its Effect on Intestinal Flora. Evidence-Based Complementary and Alternative Medicine, 2022: 3362374.	Non randomized controlled trials
29 Huang X, Zheng X, Shen C. Antiviral Therapy with Entecavir following Antituberculosis Therapy Alleviates Liver Injury and Restores Innate Immunity in Tuberculosis Patients Coinfected with Hepatitis B Virus. Evidence-Based Complementary and Alternative Medicine, 2021: 2884151.	Non randomized controlled trials
30 Jin S, Wang L, Zhou S. Clinical Study on Different Methods of Internal Fixation for Treatment of Lisfranc Joint Injury. Evidence-Based Complementary and Alternative Medicine, 2021: 1300920.	Non randomized controlled trials
31 Li C, Song W, Lei Y, et al. Clinical Application of Artificial Dermis and Autologous Skin in Repairing Skin and Soft Tissue Defects of Hands and Feet with Bone Exposure Injuries. Evidence-Based Complementary and Alternative Medicine, 2021: 1202826.	Non randomized controlled trials
32 Wang X, Wu C. Study on the Effects of Optimized Emergency Nursing Combined with Mild Hypothermia Nursing on Neurological Prognosis, Hemodynamics, and Cytokines in Patients with Cardiac Arrest. Evid Based Complement Alternat Med. 2022:1787312.	Non randomized controlled trials
33 Liu Y, Meng R, Dong J. Effect of Chronic Heart Failure Complicated with Type 2 Diabetes Mellitus on Cognitive Function in the Elderly. Evidence-Based Complementary and Alternative Medicine, 2022: 4841205.	Wrong study design
34 Yun X Y, Chen S J, Zheng Q W. Targeted Perioperative Nursing Combined with Propofol and Fentanyl for Gynecological Laparoscopic Surgery. Evidence-Based Complementary and Alternative Medicine, 2022: 1257260.	Wrong study design
35 Zhang H, Yang Q, Liu T, et al. Curative Effect Observation and Prognosis Analysis of Video-Assisted Thoracic Surgery and Thoracotomy in Patients with Hemopneumothorax. Evidence-Based Complementary and Alternative Medicine, 2021: 3937420.	Wrong study design
36 Tang B, Wang X, Luo Y, et al. Efficacy and Safety of Intravitreal Injection of Triamcinolone Acetonide and Conbercept for Intraocular Lens after Cataract Surgery. Evidence-Based Complementary and Alternative Medicine, 2022: 5606343.	Wrong study design
37 Geng Y, Liu L. Impact of Allogeneic Leukocyte-Depleted Red Blood Cell Transfusion on Inflammatory Response and Blood Coagulation in Patients with Recurrence of Colon Cancer after Operation. Evidence-Based Complementary and Alternative Medicine, 2021: 6957569.	Non randomized controlled trials
38 Wang W, Yang Q, Xun Q, et al. Study on the Management of the Health Status of Patients with Stable Chronic Obstructive Pulmonary Disease Treated with Double Bronchodilator. Evid Based Complement Alternat Med. 2022:1183436.	Wrong study design
39 Tan J, Hu F, Ou J, et al. Analysis of the Curative Effect and Prognostic Factors of Anterior Cervical Surgery for Spinal Cord Injury without Radiographic Abnormalities. Evidence-Based Complementary and Alternative Medicine, 2022: 6836966.	Non randomized controlled trials

40 Xu H, Yang W, Liu Y, et al. Analysis of Nursing Effect and Impact of Narrative Nursing Model on Anxiety of Tumor Patients with PICC under Chemotherapy. Evidence-Based Complementary and Alternative Medicine, 2021: 3698845.	Non randomized controlled trials
41 Liu L, Guo Q, Shen W. Clinical Effectiveness of Laparoscopic Fiberoptic Choledochoscopy versus Conventional Open Surgery for Gallbladder Stones Complicated with Common Bile Duct Stones. Evid Based Complement Alternat Med. 2022:5668482.	Non randomized controlled trials
42 Yang J, Guo Y, Dai Y. Impact of Kangaroo Mother Care Intervention on Immunological and Pulmonary Functions of Preterm Infants during Breastfeeding. Evidence-Based Complementary and Alternative Medicine, 2022: 3180871.	Non randomized controlled trials
43 Xue L M, Yuan X, Zhang S, et al. Investigating the Effects of Dapagliflozin on Cardiac Function, Inflammatory Response, and Cardiovascular Outcome in Patients with STEMI Complicated with T2DM after PCI. Evidence-Based Complementary and Alternative Medicine, 2021: 9388562.	Wrong study design
44 Sun M, Zhou R, Wang X, et al. Influence of Different Antiepileptic Drugs on Blood Ammonia and Homocysteine Levels in Children with Epilepsy. Evidence-Based Complementary and Alternative Medicine, 2021: 5698765.	Wrong study design
45 Li C, Ma X, Yang Y, et al. Thoracoscopic Lobectomy versus Segmentectomy in the Treatment of Patients with Early-Stage Lung Cancer. Evid Based Complement Alternat Med. 2022:4376968.	Wrong study design
46 Huang W, Zhu W, Lu W. Comparison of Iliac Bone Transplantation with Bone Transport in the Treatment of Femur Fracture and Bone Defect. Evidence-Based Complementary and Alternative Medicine, 2022: 5358923.	Wrong study design
47 Xu H, Li J, Zhong G, et al. Characteristics of the Dynamic Electrocardiogram in the Elderly with Nonvalvular Atrial Fibrillation Combined with Long R-R Intervals. Evidence-Based Complementary and Alternative Medicine, 2021: 4485618.	Non randomized controlled trials
48 Yang W, Yang X, Zhang S, et al. Correlation of Serum Chemokine (C-C Motif) Ligand 21 and Heat Shock Protein 90 with Preeclampsia. Evid Based Complement Alternat Med. 2022:2156424.	Wrong study design
49 Zhou Y. Effects of High Flux Hemodialysis Combined with L-Carnitine on Microinflammation and Arteriovenous Fistula in Maintenance Hemodialysis Patients. Evidence-Based Complementary and Alternative Medicine, 2022: 6964127.	Non randomized controlled trials
50 Zhao L, Qi J, Luo F, et al. The Diagnostic Value of Combined Detection of Serum Lp-PLA2 and Hcy and Color Doppler in Elderly Patients with Acute Coronary Syndrome and Effect on Endothelial Function. Evidence-Based Complementary and Alternative Medicine, 2022: 3150670.	Wrong study design
51 Wan H, Tang D. Application Value of Nursing Intervention under the Guidance of Risk Prevention Management Concept in Preventing Vascular Access Infection in Patients Undergoing Maintenance Hemodialysis. Evidence-Based Complementary and Alternative Medicine, 2022: 9676074.	Non randomized controlled trials
52 Wang Y, Wang J, Chen X. Clinical Efficacy of Xueshuantong plus Urokinase in the Treatment of Sudden Deafness. Evidence-Based Complementary and Alternative Medicine, 2022: 7775556.	Non randomized controlled trials
53 Zheng L, Zhu Z. Growth and Development in Preterm Infants and Maternal Parenting Stress after WeChat-Based Extended Care. Evidence-Based Complementary and Alternative Medicine, 2022: 9987891.	Wrong study design

54 Huang B B, Niu S K. The Effectiveness and Safety of Ropivacaine and Medium-Dose Dexmedetomidine in Cesarean Section. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 4447484.	Non randomized controlled trials
55 Liu B, Shi T, Tian S, et al. Efficacy and Mechanism of Roxadustat plus Oral Iron in the Treatment of Elderly Chronic Kidney Disease with Anemia. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 9192655.	Non randomized controlled trials
56 Gu J, Liang Y. Clinical Nursing Paths Benefit Patient Outcomes Undergoing Transcatheter Arterial Chemoembolization for Hepatocellular Carcinoma. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2022: 4655293.	Wrong study design
57 Wu L, Sun Y, Ni G, et al. Edaravone Combined with Clopidogrel Is Beneficial to Improve Efficacy, Neurological Impairment, and Life Function in Acute Cerebral Infarction Patients. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2021: 8030521.	Non randomized controlled trials
58 Li G, Liu J. Analysis of Efficacy, Safety, and Prognostic Factors of mFOLFOX6 Regimen Combined with Cetuximab and Simvastatin in the Treatment of K-RAS Mutant Colorectal Cancer. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2021: 2280440.	Non randomized controlled trials
59 Xu W, Tang J, Chen J. Influence of Diagnostic Informing on Negative Emotions, Illness Perception, Self-Perceived Burden, and Posttraumatic Stress Disorder in Patients with Gastrointestinal Tumors. <i>Evidence-Based Complementary and Alternative Medicine</i> , 2021: 2568195.	Non randomized controlled trials
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1177 Qiu NC, Liu ME, Wang B, et al. Does the hepatic branch of vagus mediate the secretion of glucagon-like peptide-1 during the Roux-en-Y gastric bypass surgery?. <i>J Gastrointest Surg.</i> 2014;18(11):1957-1964.	Wrong population
1178 Briones TL, Darwish H. Decrease in age-related tau hyperphosphorylation and cognitive improvement following vitamin D supplementation are associated with modulation of brain energy metabolism and redox state. <i>Neuroscience.</i> 2014;262:143-155.	Wrong population

Supplementary Table S4. List of exclusion for the full-text screen for tracked reviews via Google Scholar and Scopus (with reasons).

1 Bolland MJ, Grey A, Reid IR. Differences in overlapping meta-analyses of vitamin D supplements and falls. <i>J Clin Endocrinol Metab.</i> 2014;99(11):4265-4272.	Umbrella review
2 Hafkamp FJ, Tio RA, Otterspoor LC, et al. Optimal effectiveness of heart failure management - an umbrella review of meta-analyses examining the effectiveness of interventions to reduce (re)hospitalizations in heart failure. <i>Heart Fail Rev.</i> 2022;27(5):1683-1748.	Umbrella review
3 Hill A, Garratt A, Levi J, et al. Meta-analysis of Randomized Trials of Ivermectin to Treat SARS-CoV-2 Infection. <i>Open Forum Infect Dis.</i> 2021;8(11):ofab358.	Retracted SR
4 Iwamoto J, Matsumoto H, Takeda T. Efficacy of menatetrenone (vitamin K2) against non-vertebral and hip fractures in patients with neurological diseases: meta-analysis of three randomized, controlled trials [retracted in: <i>Clin Drug Investig.</i> 2018;38(5):479.	Retracted SR
5 Iwamoto J, Takeda T, Matsumoto H. Efficacy of oral bisphosphonates for preventing hip fracture in disabled patients with neurological diseases: a meta-analysis of randomized controlled trials among the Japanese population [retracted in: <i>Curr Med Res Opin.</i> 2017;33(6):1181.	Retracted SR
6 Liang X, Zhou M, Feng JJ, et al. Efficacy of dexmedetomidine on postoperative nausea and vomiting: a meta-analysis of randomized controlled trials. <i>Int J Clin Exp Med.</i> 2015;8(6):8450-8471.	Retracted SR
7 Turner JM, Russo F, Deprest J, et al. Phosphodiesterase-5 inhibitors in pregnancy: Systematic review and meta-analysis of maternal and perinatal safety and clinical outcomes. <i>BJOG.</i> 2022;129(11):1817-1831.	Retracted SR
8 Zhang W, Zhu C, Sun M, et al. Efficacy of bisphosphonates against hip fracture in elderly patients with stroke and Parkinson diseases: meta-analysis of randomized controlled trials [retracted in: <i>J Stroke Cerebrovasc Dis.</i> 2021;30(4):105682.	Retracted SR
9 Gagyor I, Madhok VB, Daly F, et al. WITHDRAWN. Antiviral treatment for Bell's palsy (idiopathic facial paralysis). <i>Cochrane Database Syst Rev.</i> 2015;(5):CD001869.	Retracted SR
10 Bunn F, Trivedi D, Ashraf S. Colloid solutions for fluid resuscitation. <i>Cochrane Database Syst Rev.</i> 2008(1):CD001319.	Old version
11 Bunn F, Trivedi D, Ashraf S. Colloid solutions for fluid resuscitation. <i>Cochrane Database Syst Rev.</i> 2008(1):CD001319.	Old version
12 Bunn F, Trivedi D, Ashraf S. Colloid solutions for fluid resuscitation. <i>Cochrane Database Syst Rev.</i> 2008(1):CD001319.	Old version
13 De-Regil LM, Palacios C, Lombardo LK, et al. Vitamin D supplementation for women during pregnancy. <i>Cochrane Database Syst Rev.</i> 2016(1):CD008873.	Old version
14 Dodd JM, Grivell RM, OBrien CM, et al. Prenatal administration of progestogens for preventing spontaneous preterm birth in women with a multiple pregnancy. <i>Cochrane Database Syst Rev.</i> 2017(10):CD012024.	Old version
15 Franik S, Kremer JA, Nelen WL, et al. Aromatase inhibitors for subfertile women with polycystic ovary syndrome. <i>Cochrane Database Syst Rev.</i> 2014(2):CD010287.	Old version

16	Haas DM, Hathaway TJ, Ramsey PS. Progestogen for preventing miscarriage in women with recurrent miscarriage of unclear etiology. <i>Cochrane Database Syst Rev.</i> 2018(10):CD003511.	Old version
17	Henry DA, Carless PA, Moxey AJ, et al. Anti-fibrinolytic use for minimising perioperative allogeneic blood transfusion. <i>Cochrane Database Syst Rev.</i> 2007(4):CD001886.	Old version
18	Lensen SF, Manders M, Nastri CO, et al. Endometrial injury for pregnancy following sexual intercourse or intrauterine insemination. <i>Cochrane Database Syst Rev.</i> 2016(6):CD011424.	Old version
19	O'Meara S, Al-Kurdi D, Ologun Y, et al. Antibiotics and antiseptics for venous leg ulcers. <i>Cochrane Database Syst Rev.</i> 2013(12):CD003557.	Old version
20	Popp M, Stegemann M, Metzendorf MI, et al. Ivermectin for preventing and treating COVID-19. <i>Cochrane Database Syst Rev.</i> 2021(7):CD015017.	Old version
21	Zhu J, Chen N, Zhou M, et al. Calcium channel blockers versus other classes of drugs for hypertension. <i>Cochrane Database Syst Rev.</i> 2021(10):CD003654.	Old version
22	Abdullatif J, Certal V, Zaghi S, et al. Maxillary expansion and maxillomandibular expansion for adult OSA: A systematic review and meta-analysis. <i>J Craniomaxillofac Surg.</i> 2016;44(5):574-578.	Not included for SR
23	Abril-Coello R, Correyero-León M, Ceballos-Laita L, Jiménez-Barrio S. Benefits of physical therapy in improving quality of life and pain associated with endometriosis: A systematic review and meta-analysis. <i>Int J Gynaecol Obstet.</i> 2023;162(1):233-243.	Review author excluded this study in SR
24	Álvarez-Pérez Y, Rivero-Santana A, Perestelo-Pérez L, et al. Effectiveness of Mantra-Based Meditation on Mental Health: A Systematic Review and Meta-Analysis. <i>Int J Environ Res Public Health.</i> 2022;19(6):3380.	Included but not synthesized/presented
25	Amraei M, Mohamadpour S, Sayehmiri K, et al. Effects of Vitamin D Deficiency on Incidence Risk of Gestational Diabetes Mellitus: A Systematic Review and Meta-analysis. <i>Front Endocrinol (Lausanne).</i> 2018;9:7.	Not included for SR
26	Antoniou SA, Antoniou GA, Koch OO, et al. Laparoscopic versus open obesity surgery: a meta-analysis of pulmonary complications. <i>Dig Surg.</i> 2015;32(2):98-107.	Not included for SR
27	Arevalo-Rodriguez I, Ciapponi A, Roqué i Figuls M, Muñoz L, Bonfill Cosp X. Posture and fluids for preventing post-dural puncture headache. <i>Cochrane Database Syst Rev.</i> 2016(3):CD009199.	Not included for SR
28	Arulkumaran N, Corredor C, Hamilton MA, et al. Cardiac complications associated with goal-directed therapy in high-risk surgical patients: a meta-analysis. <i>Br J Anaesth.</i> 2014;112(4):648-659.	Not included for SR
29	Ashor AW, Siervo M, Lara J, et al. Antioxidant vitamin supplementation reduces arterial stiffness in adults: a systematic review and meta-analysis of randomized controlled trials. <i>J Nutr.</i> 2014;144(10):1594-1602.	Not included for SR
30	Aune D, Keum N, Giovannucci E, et al. Nut consumption and risk of cardiovascular disease, total cancer, all-cause and cause-specific mortality: a systematic review and dose-response meta-analysis of prospective studies. <i>BMC Med.</i> 2016;14(1):207.	Not included for SR

31 Bainbridge D, Cheng DC, Martin JE, et al; Evidence-Based Perioperative Clinical Outcomes Research (EPiCOR) Group. NSAID-analgesia, pain control and morbidity in cardiothoracic surgery. <i>Can J Anaesth.</i> 2006;53(1):46-59.	Not included for SR
32 Bakre AT, Chen R, Khutan R, et al. Association between fish consumption and risk of dementia: a new study from China and a systematic literature review and meta-analysis. <i>Public Health Nutr.</i> 2018;21(10):1921-1932.	Not included for SR
33 Beck NN, Johannsen M, Støvning RK, et al. Do postoperative psychotherapeutic interventions and support groups influence weight loss following bariatric surgery? A systematic review and meta-analysis of randomized and nonrandomized trials. <i>Obes Surg.</i> 2012;22(11):1790-1797.	Not included for SR
34 Bédia-Tanoh AV, Kassi KF, Touré OA, et al. Meta-Analysis of Data from Four Clinical Trials in the Ivory Coast Assessing the Efficacy of Two Artemisinin-Based Combination Therapies (Artesunate-Amodiaquine and Artemether-Lumefantrine) between 2009 and 2016. <i>Trop Med Infect Dis.</i> 2023;9(1):10.	Not included for SR
35 Bellis JR, Pirmohamed M, Nunn AJ, et al. Dexamethasone and haemorrhage risk in paediatric tonsillectomy: a systematic review and meta-analysis. <i>Br J Anaesth.</i> 2014;113(1):23-42.	Not included for SR
36 Benatar JR, Sidhu K, Stewart RA. Effects of high and low fat dairy food on cardio-metabolic risk factors: a meta-analysis of randomized studies. <i>PLoS One.</i> 2013;8(10):e76480.	Not included for SR
37 Benatar JR, Stewart RAH. Cardiometabolic risk factors in vegans; A meta-analysis of observational studies. <i>PLoS One.</i> 2018;13(12):e0209086.	Not included for SR
38 Bernardes S, Eckert IDC, Burgel CF, et al. Increased energy and/or protein intake improves anthropometry and muscle strength in chronic obstructive pulmonary disease patients: a systematic review with meta-analysis on randomised controlled clinical trials. <i>Br J Nutr.</i> 2022.	Not included for SR
39 Bislev LS, Wamberg L, Rolighed L, et al. Effect of Daily Vitamin D3 Supplementation on Muscle Health: An Individual Participant Meta-analysis. <i>J Clin Endocrinol Metab.</i> 2022;107(5):1317-1327.	Not included for SR
40 Bjelakovic G, Nikolova D, Gluud LL, et al. Antioxidant supplements for prevention of mortality in healthy participants and patients with various diseases. <i>Cochrane Database Syst Rev.</i> 2012(3):CD007176.	Duplicate
41 Bloch M H, Panza K E, Landeros-Weisenberger A, et al. Meta-analysis: treatment of attention-deficit/hyperactivity disorder in children with comorbid tic disorders. <i>Journal of the American Academy of Child & Adolescent Psychiatry,</i> 2009, 48(9): 884-893.	Not included for SR
42 Bocskai T, Kovács M, Szakács Z, et al. Is the bispectral index monitoring protective against postoperative cognitive decline? A systematic review with meta-analysis. <i>PLoS One.</i> 2020;15(2):e0229018.	Not included for SR
43 Bonaccio M, Di Castelnuovo A, Costanzo S, et al. Mediterranean diet and mortality in the elderly: a prospective cohort study and a meta-analysis. <i>Br J Nutr.</i> 2018;120(8):841-854.	Not included for SR
44 Bonekamp NE, van Damme I, Geleijnse JM, et al. Effect of dietary patterns on cardiovascular risk factors in people with type 2 diabetes. A systematic review and network meta-analysis. <i>Diabetes Res Clin Pract.</i> 2023;195:110207.	Not included for SR

45	Bosteels J, Kasius J, Weyers S, et al. Hysteroscopy for treating subfertility associated with suspected major uterine cavity abnormalities. <i>Cochrane Database Syst Rev.</i> 2013(1):CD009461.	Not included for SR
46	Bosteels J, van Wessel S, Weyers S, et al. Hysteroscopy for treating subfertility associated with suspected major uterine cavity abnormalities. <i>Cochrane Database Syst Rev.</i> 2018(12):CD009461.	Not included for SR
47	Braam W, Smits MG, Didden R, et al. Exogenous melatonin for sleep problems in individuals with intellectual disability: a meta-analysis. <i>Dev Med Child Neurol.</i> 2009;51(5):340-349.	Not included for SR
48	Brown J, Farquhar C, Beck J, et al. Clomiphene and anti-oestrogens for ovulation induction in PCOS. <i>Cochrane Database Syst Rev.</i> 2009(4):CD002249.	Review author excluded this study in SR
49	Brown T, Moore TH, Hooper L, et al. Interventions for preventing obesity in children. <i>Cochrane Database Syst Rev.</i> 2019(7):CD001871.	Not included for SR
50	Bui BN, Lensen SF, Gibreel A, et al. Endometrial injury for pregnancy following sexual intercourse or intrauterine insemination. <i>Cochrane Database Syst Rev.</i> 2022(10):CD011424.	Not included for SR
51	Burns FA, Heywood EG, Challand CP, et al. Is there a role for prophylactic mesh in abdominal wall closure after emergency laparotomy? A systematic review and meta-analysis. <i>Hernia.</i> 2020;24(3):441-447.	Not included for SR
52	Cameron ID, Dyer SM, Panagoda CE, et al. Interventions for preventing falls in older people in care facilities and hospitals. <i>Cochrane Database Syst Rev.</i> 2018(9):CD005465.	Not included for SR
53	Cao H, Pan X, Li H, Liu J. Acupuncture for treatment of insomnia: a systematic review of randomized controlled trials. <i>J Altern Complement Med.</i> 2009;15(11):1171-1186.	Review author excluded this study in SR
54	Cappetta K, Beyer C, Johnson JA, et al. Meta-analysis: Risk of dry mouth with second generation antidepressants. <i>Prog Neuropsychopharmacol Biol Psychiatry.</i> 2018;84(Pt A):282-293.	Not included for SR
55	Carter P, Achana F, Troughton J, Gray LJ, Khunti K, Davies MJ. A Mediterranean diet improves HbA1c but not fasting blood glucose compared to alternative dietary strategies: a network meta-analysis. <i>J Hum Nutr Diet.</i> 2014;27(3):280-297.	Not included for SR
56	Catapano F, Chiodini P, De Nicola L, et al. Antiproteinuric response to dual blockade of the renin-angiotensin system in primary glomerulonephritis: meta-analysis and metaregression. <i>Am J Kidney Dis.</i> 2008;52(3):475-485.	Not included for SR
57	Chan KS, Ng STC, Tan CHB, et al. A systematic review and meta-analysis comparing postoperative outcomes of laparoscopic versus open omental patch repair of perforated peptic ulcer. <i>J Trauma Acute Care Surg.</i> 2023;94(1):e1-e13.	Not included for SR
58	Chatzakis C, Tsakmaki E, Psomiadou A, et al. Different pregnancy outcomes according to the polycystic ovary syndrome diagnostic criteria: a systematic review and meta-analysis of 79 studies. <i>Fertil Steril.</i> 2022;117(4):854-881.	Review author excluded this study in SR

59	Chen B, Guo M, Peker Y, et al. Effect of Continuous Positive Airway Pressure on Lipid Profiles in Obstructive Sleep Apnea: A Meta-Analysis. <i>J Clin Med.</i> 2022;11(3):596.	Not included for SR
60	Chen CC, Siddiqui FJ, Chen TL, et al. Dexamethasone for prevention of postoperative nausea and vomiting in patients undergoing thyroidectomy: meta-analysis of randomized controlled trials. <i>World J Surg.</i> 2012;36(1):61-68.	Not included for SR
61	Chen X, Qin Y, Li S, et al. Efficacy of 5-HT ₃ receptor antagonists (ondansetron) vs dopamine receptor antagonists (droperidol) for preventing postoperative nausea, vomiting and headache: a meta-analysis. <i>Pteridines</i> , 2019, 30(1): 146-152.	Not included for SR
62	Chen Y, Wang T, Liu X, et al. Low molecular weight heparin and pregnancy outcomes in women with inherited thrombophilia: A systematic review and meta-analysis. <i>J Obstet Gynaecol Res.</i> 2022;48(8):2134-2150.	Not included for SR
63	Cheng HM, Koutsidis G, Lodge JK, et al. Lycopene and tomato and risk of cardiovascular diseases: A systematic review and meta-analysis of epidemiological evidence. <i>Crit Rev Food Sci Nutr.</i> 2019;59(1):141-158.	Not included for SR
64	Cheng J, Zhang W, Zhang XH, et al. ACEI/ARB therapy for IgA nephropathy: a meta analysis of randomised controlled trials. <i>Int J Clin Pract.</i> 2009;63(6):880-888.	Not included for SR
65	Cheng J, Zhang X, Tian J, et al. Combination therapy an ACE inhibitor and an angiotensin receptor blocker for IgA nephropathy: a meta-analysis. <i>Int J Clin Pract.</i> 2012;66(10):917-923.	Not included for SR
66	Cheng SP, Liu TP, Yang PS, et al. Effect of perioperative dexamethasone on subjective voice quality after thyroidectomy: a meta-analysis and systematic review. <i>Langenbecks Arch Surg.</i> 2015;400(8):929-936.	Not included for SR
67	Chiavaroli L, Kendall CWC, Braunstein CR, et al. Effect of pasta in the context of low-glycaemic index dietary patterns on body weight and markers of adiposity: a systematic review and meta-analysis of randomised controlled trials in adults. <i>BMJ Open.</i> 2018;8(3):e019438.	Not included for SR
68	Cirocchi R, Soreide K, Di Saverio S, et al. Meta-analysis of perioperative outcomes of acute laparoscopic versus open repair of perforated gastroduodenal ulcers. <i>J Trauma Acute Care Surg.</i> 2018;85(2):417-425.	Not included for SR
69	Cooper TE, Teng C, Tunnicliffe DJ, et al. Angiotensin-converting enzyme inhibitors and angiotensin receptor blockers for adults with early (stage 1 to 3) non-diabetic chronic kidney disease. <i>Cochrane Database Syst Rev.</i> 2023(7):CD007751.	Review author excluded this study in SR
70	Dai W, Liu H, Zhang T, et al. Dairy product consumption was associated with a lower likelihood of non-alcoholic fatty liver disease: A systematic review and meta-analysis. <i>Front Nutr.</i> 2023;10:1119118.	Not included for SR
71	D'Andrea S, Spaggiari G, Barbonetti A, et al. Endogenous transient doping: physical exercise acutely increases testosterone levels-results from a meta-analysis. <i>J Endocrinol Invest.</i> 2020;43(10):1349-1371.	Not included for SR
72	Davis S, Simpson E, Hamilton J, et al. Denosumab, raloxifene, romosozumab and teriparatide to prevent osteoporotic fragility fractures: a systematic review and economic evaluation. <i>Health Technol Assess.</i> 2020;24(29):1-314.	Review author excluded this study in SR

73	de Cates AN, Farr MR, Wright N, et al. Fixed-dose combination therapy for the prevention of cardiovascular disease. <i>Cochrane Database Syst Rev.</i> 2014(4):CD009868.	Not included for SR
74	de Oliveira RDJ, de Oliveira RG, de Oliveira LC, et al. Effectiveness of whole-body vibration on bone mineral density in postmenopausal women: a systematic review and meta-analysis of randomized controlled trials. <i>Osteoporos Int.</i> 2023;34(1):29-52.	Not included for SR
75	De Vincentis A, Pedone C, Vespasiani-Gentilucci U, et al. Effect of Sibutramine on Plasma C-Reactive Protein, Leptin and Adiponectin Concentrations: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. <i>Curr Pharm Des.</i> 2017;23(6):870-878.	Not included for SR
76	Del Gobbo LC, Falk MC, Feldman R, et al. Effects of tree nuts on blood lipids, apolipoproteins, and blood pressure: systematic review, meta-analysis, and dose-response of 61 controlled intervention trials. <i>Am J Clin Nutr.</i> 2015;102(6):1347-1356.	Not included for SR
77	Desborough M, Sandu R, Brunskill SJ, et al. Fresh frozen plasma for cardiovascular surgery. <i>Cochrane Database Syst Rev.</i> 2015(7):CD007614.	Not included for SR
78	Di Stasi SM, De Carlo F, Pagliarulo V, et al. Hexaminolevulinate hydrochloride in the detection of nonmuscle invasive cancer of the bladder. <i>Ther Adv Urol.</i> 2015;7(6):339-350.	Not included for SR
79	Dong J, Li Z, Luo L, et al. Efficacy of pulmonary rehabilitation in improving the quality of life for patients with chronic obstructive pulmonary disease: Evidence based on nineteen randomized controlled trials. <i>Int J Surg.</i> 2020;73:78-86.	Not included for SR
80	Duffy ME, Hoey L, Hughes CF, et al. Biomarker responses to folic acid intervention in healthy adults: a meta-analysis of randomized controlled trials. <i>Am J Clin Nutr.</i> 2014;99(1):96-106.	Not included for SR
81	Duncan D, Sankar A, Beattie WS, et al. Alpha-2 adrenergic agonists for the prevention of cardiac complications among adults undergoing surgery. <i>Cochrane Database Syst Rev.</i> 2018(3):CD004126.	Review author excluded this study in SR
82	Duncan D, Sankar A, Beattie WS, et al. Alpha-2 adrenergic agonists for the prevention of cardiac complications among adults undergoing surgery. <i>Cochrane Database Syst Rev.</i> 2018(3):CD004126.	Review author excluded this study in SR
83	Duncan S, McAuley DF, Walshe M, et al. Interventions for oropharyngeal dysphagia in acute and critical care: a systematic review and meta-analysis. <i>Intensive Care Med.</i> 2020;46(7):1326-1338.	Not included for SR
84	Elshanbary AA, Zaazouee MS, Darwish YB, et al. Efficacy and Safety of Pectoral Nerve Block (Pecs) Compared With Control, Paravertebral Block, Erector Spinae Plane Block, and Local Anesthesia in Patients Undergoing Breast Cancer Surgeries: A Systematic Review and Meta-analysis. <i>Clin J Pain.</i> 2021;37(12):925-939.	Not included for SR
85	Emadzadeh M, Sahebi R, Khedmatgozar H, et al. A systematic review and meta-analysis of the effect of Vitamin D-fortified food on glycemic indices. <i>Biofactors.</i> 2020;46(4):502-513.	Not included for SR

86	Esposito K, Maiorino MI, Bellastella G, Chiodini P, Panagiotakos D, Giugliano D. A journey into a Mediterranean diet and type 2 diabetes: a systematic review with meta-analyses. <i>BMJ Open</i> . 2015;5(8):e008222.	Not included for SR
87	Evans JR, Henshaw K. Antioxidant vitamin and mineral supplements for preventing age-related macular degeneration. <i>Cochrane Database Syst Rev</i> . 2008(1):CD000253.	Review author excluded this study in SR
88	Evans JR, Lawrenson JG. Antioxidant vitamin and mineral supplements for preventing age-related macular degeneration. <i>Cochrane Database Syst Rev</i> . 2017(7):CD000253.	Review author excluded this study in SR
89	Fabia MJ, Abdilla N, Oltra R, et al. Antihypertensive activity of angiotensin II AT1 receptor antagonists: a systematic review of studies with 24 h ambulatory blood pressure monitoring. <i>J Hypertens</i> . 2007;25(7):1327-1336.	Review author excluded this study in SR
90	Farquhar C, Marjoribanks J, Bassier R, et al. High dose chemotherapy and autologous bone marrow or stem cell transplantation versus conventional chemotherapy for women with metastatic breast cancer. <i>Cochrane Database Syst Rev</i> . 2005(3):CD003142.	Not included for SR
91	Fekete ÁA, Givens DI, Lovegrove JA. Casein-derived lactotripeptides reduce systolic and diastolic blood pressure in a meta-analysis of randomised clinical trials. <i>Nutrients</i> . 2015;7(1):659-681.	Review author excluded this study in SR
92	Feng Q, Fan S, Wu Y, et al. Adherence to the dietary approaches to stop hypertension diet and risk of stroke: A meta-analysis of prospective studies. <i>Medicine (Baltimore)</i> . 2018;97(38):e12450.	Not included for SR
93	Fogacci F, Cicero AFG, Derosa G, et al. Effect of pistachio on brachial artery diameter and flow-mediated dilatation: A systematic review and meta-analysis of randomized, controlled-feeding clinical studies. <i>Crit Rev Food Sci Nutr</i> . 2019;59(2):328-335.	Not included for SR
94	Ford AH, Almeida OP. Effect of homocysteine lowering treatment on cognitive function: a systematic review and meta-analysis of randomized controlled trials. <i>J Alzheimers Dis</i> . 2012;29(1):133-149.	Review author excluded this study in SR
95	Fossati R, Confalonieri C, Torri V, et al. Cytotoxic and hormonal treatment for metastatic breast cancer: a systematic review of published randomized trials involving 31,510 women. <i>J Clin Oncol</i> . 1998;16(10):3439-3460.	Not included for SR
96	Freemantle N, Xu Y, Wilson FR, et al. Network meta-analysis of immune-oncology monotherapy as first-line treatment for advanced non-small-cell lung cancer in patients with PD-L1 expression ≥ 50 . <i>Ther Adv Med Oncol</i> . 2022;14:17588359221105024.	Not included for SR
97	Fremes SE, Wong BI, Lee E, et al. Metaanalysis of prophylactic drug treatment in the prevention of postoperative bleeding. <i>Ann Thorac Surg</i> . 1994;58(6):1580-1588.	Not included for SR

98	Fretheim A, Odgaard-Jensen J, Brørs O, et al. Comparative effectiveness of antihypertensive medication for primary prevention of cardiovascular disease: systematic review and multiple treatments meta-analysis. BMC Med. 2012;10:33.	Review author excluded this study in SR
99	Friedman DJ, Black-Maier EW, Barnett AS, et al. Left Atrial Appendage Electrical Isolation for Treatment of Recurrent Atrial Fibrillation: A Meta-Analysis. JACC Clin Electrophysiol. 2018;4(1):112-120.	Not report study-level data
100	Fujii T, Le Du F, Xiao L, et al. Effectiveness of an Adjuvant Chemotherapy Regimen for Early-Stage Breast Cancer: A Systematic Review and Network Meta-analysis. JAMA Oncol. 2015;1(9):1311-1318.	Not included for SR
101	Gagnaire J, Verhoeven PO, Grattard F, et al. Epidemiology and clinical relevance of Staphylococcus aureus intestinal carriage: a systematic review and meta-analysis. Expert Rev Anti Infect Ther. 2017;15(8):767-785.	Not included for SR
102	Garcia Lopez M, Baron JA, Omsland TK, et al. Homocysteine-Lowering Treatment and the Risk of Fracture: Secondary Analysis of a Randomized Controlled Trial and an Updated Meta-Analysis. JBMR Plus. 2018;2(5):295-303.	Not included for SR
103	Gay HC, Rao SG, Vaccarino V, et al. Effects of Different Dietary Interventions on Blood Pressure: Systematic Review and Meta-Analysis of Randomized Controlled Trials. Hypertension. 2016;67(4):733-739.	Not included for SR
104	Gethin G, Cowman S, Kolbach DN. Debridement for venous leg ulcers. Cochrane Database Syst Rev. 2015(9):CD008599.	Not included for SR
105	Gillespie LD, Robertson MC, Gillespie WJ, et al. Interventions for preventing falls in older people living in the community. Cochrane Database Syst Rev. 2012(9):CD007146.	Not included for SR
106	Giraudier M, Ventura-Bort C, Burger AM, et al. Evidence for a modulating effect of transcutaneous auricular vagus nerve stimulation (taVNS) on salivary alpha-amylase as indirect noradrenergic marker: A pooled mega-analysis. Brain Stimul. 2022;15(6):1378-1388.	Not included for SR
107	Gok Metin Z, Helvacı A, Gulbahar Eren M. Effects of Aloe vera in adults with mucocutaneous problems: A systematic review and meta-analysis. J Adv Nurs. 2021;77(3):1105-1126.	Not included for SR
108	Gómez-Sánchez E, Hernández-Gómez A, Guzmán-Flores JM, et al. Celecoxib Decreases the Need for Rescue Analgesics after Total Knee Arthroplasty: A Meta-Analysis. Clin Pract. 2024;14(2):461-472.	Not included for SR
109	Guasch-Ferré M, Li J, Hu FB, et al. Effects of walnut consumption on blood lipids and other cardiovascular risk factors: an updated meta-analysis and systematic review of controlled trials. Am J Clin Nutr. 2018 ;108(1):174-187.	Not included for SR
110	Guedes HG, Moura DTH, Duarte RB, et al. A comparison of the efficiency of 22G versus 25G needles in EUS-FNA for solid pancreatic mass assessment: A systematic review and meta-analysis. Clinics (Sao Paulo). 2018;73:e261.	Review author excluded this study in SR
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1112	Naseri K, Saadati S, Yari Z, et al. Beneficial effects of probiotic and synbiotic supplementation on some cardiovascular risk factors among individuals with prediabetes and type 2 diabetes mellitus: A grade-assessed systematic review, meta-analysis, and meta-regression of randomized clinical trials. <i>Pharmacological research</i> , 2022, 182: 106288.	Not included for SR
1113	Saadati S, Naseri K, Asbaghi O, et al. Beneficial effects of the probiotics and synbiotics supplementation on anthropometric indices and body composition in adults: A systematic review and meta-analysis. <i>Obesity Reviews</i> , 2024, 25(3): e13667.	Not included for SR
1114	Khalili L, Valdes-Ramos R, Harbige L S. Effect of n-3 (Omega-3) polyunsaturated fatty acid supplementation on metabolic and inflammatory biomarkers and body weight in patients with type 2 diabetes mellitus: A systematic review and meta-analysis of RCTs. <i>Metabolites</i> , 2021, 11(11): 742.	Not included for SR

1115 Hong J, Fu T, Liu W, et al. Specific alterations of gut microbiota in diabetic microvascular complications: A systematic review and meta-analysis. <i>Frontiers in Endocrinology</i> , 2022, 13: 1053900.	Not included for SR
1116 Moravejolahkami A R, Hojjati Kermani M A, Balouch Zehi Z, et al. The effect of probiotics on lipid profile & anthropometric indices in diabetic nephropathy; a systematic review and meta-analysis of clinical trials. <i>Journal of Diabetes & Metabolic Disorders</i> , 2021, 20: 893-904.	Not included for SR
1117 Khalili L, Nammi S. The Effects of Curcumin Supplementation on Metabolic Biomarkers and Body Mass Index in Patients with Nonalcoholic Fatty Liver Disease: A Systematic Review and Meta-analysis of Randomized Controlled Trials. <i>Curr Pharm Des.</i> 2022;28(23):1911-1925.	Not included for SR
1118 Harsinay A, Patil A, Ali-Khan S, et al. Needles, Herbs, and Electricity: A Meta-Analysis of Traditional Eastern Medicine in the Management of Facial Paralysis. <i>Facial Plast Surg.</i> 2024;40(4):441-449.	Not report study-level data
1119 Wang D, Fang X. Meta-analysis of the efficacy of neoadjuvant chemotherapy for locally advanced cervical cancer. <i>Eur J Obstet Gynecol Reprod Biol.</i> 2024;297:202-208.	Not included for SR
1120 Nagels HE, Rishworth JR, Siristatidis CS, et al. Androgens (dehydroepiandrosterone or testosterone) for women undergoing assisted reproduction. <i>Cochrane Database Syst Rev.</i> 2015(11):CD009749.	Review author excluded this study in SR
1121 Purgato M, Prina E, Ceccarelli C, et al. Primary-level and community worker interventions for the prevention of mental disorders and the promotion of well-being in low- and middle-income countries. <i>Cochrane Database Syst Rev.</i> 2023(10):CD014722.	Not included for SR
1122 Palacios C, Kostiuik L K, Peña-Rosas J P. Vitamin D supplementation for women during pregnancy. <i>Cochrane Database of Systematic Reviews</i> , 2019 (7):CD00887.	Not included for SR
1123 Zhu R, Yang F, Li C, et al. Effect of enhanced recovery after surgery on the prognosis of patients with hip fractures: a systematic review and meta-analysis. <i>Journal of Trauma Nursing JTN</i> , 2023, 30(5): 271-281.	Not included for SR
1124 Huang Q, Li Y, Luo X, et al. Effect of peri operative whole high quality nursing care on psychological status, vital signs and anesthetic medication of patients undergoing painless gastrointestinal endoscopy: A systematic review and meta analysis. <i>Tropical Journal of Pharmaceutical Research</i> , 2023, 22(11): 2389-2397.	Not included for SR
1125 Poursalehian M, Tajvidi M, Ghaderpanah R, et al. Efficacy and Safety of Oral Tranexamic Acid vs. Other Routes in Total Joint Arthroplasty: A Systematic Review and Network Meta-Analysis. <i>JBJS reviews</i> , 2024, 12(6): e23.	Not report study-level data
1126 Zhu R, Yang F, Li C, et al. Effect of Enhanced Recovery After Surgery on the Prognosis of Patients With Hip Fractures: A Systematic Review and Meta-Analysis. <i>J Trauma Nurs.</i> 2023;30(5):271-281.	Not included for SR
1127 Zhao YK, Zhang C, Zhang YW, et al. Efficacy and safety of tranexamic acid in elderly patients with femoral neck fracture treated with hip arthroplasty: A systematic review and meta-analysis. <i>J Orthop Sci.</i> 2024;29(2):542-551.	Not included for SR

1128	Das S, Panda S, Nayak R, et al. Predictability and clinical stability of barrier membranes in treatment of periodontal intrabony defects: A systematic review and meta-analysis. <i>Applied Sciences</i> , 2022, 12(10): 4835.	Not included for SR
1129	Pessano S, Gloeck NR, Tancredi L, et al. Ibuprofen for acute postoperative pain in children. <i>Cochrane Database Syst Rev</i> . 2024(1):CD015432.	Review author excluded this study in SR
1130	Zhou Z, Li C, Yuan J, et al. Effectiveness of sports intervention: A meta-analysis of the effects of different interventions on adolescent internet addiction. <i>Journal of Affective Disorders</i> , 2024.	Not included for SR
1131	Shu J, Lu T, Tao B, et al. Effects of aerobic exercise on body self-esteem among Chinese college students: A meta-analysis. <i>Plos one</i> , 2023, 18(9): e0291045.	Not included for SR
1132	Zhu Y, Chen H, Li J, et al. Effects of different interventions on internet addiction: a systematic review and network meta-analysis. <i>BMC psychiatry</i> , 2023, 23(1): 921.	Not report study-level data
1133	Du Y, Zhang H, Ma Z, et al. High-Flow Nasal Oxygen versus Noninvasive Ventilation in Acute Exacerbation of Chronic Obstructive Pulmonary Disease Patients: A Meta-Analysis of Randomized Controlled Trials. <i>Canadian Respiratory Journal</i> , 2023, 2023(1): 7707010.	Not included for SR
1134	Wu J L, Zhang Q, Zhang L H, et al. Effect of comprehensive nursing intervention on wound pain and wound complications in patients with tonsillectomy: A meta-analysis. <i>International Wound Journal</i> , 2024, 21(4): e14619.	Not included for SR
1135	He Y, Chen L, Li X, et al. Clinical Evidence and Potential Mechanisms of Traditional Chinese Medicine for the Treatment of Chronic Gastritis: An Updated Systematic Review and Meta-analysis. <i>Journal of Herbal Medicine</i> , 2023, 42: 100761.	Not included for SR
1136	Alameddine S, Lucidi A, Jurkovic D, et al. Treatments for cesarean scar pregnancy: A systematic review and meta-analysis. <i>The Journal of Maternal-Fetal & Neonatal Medicine</i> , 2024, 37(1): 2327569.	Not report study-level data
1137	Ehrenzeller S, Klompas M. Association Between Daily Toothbrushing and Hospital-Acquired Pneumonia: A Systematic Review and Meta-Analysis. <i>JAMA Intern Med</i> . 2024;184(2):131-142.	Not included for SR
1138	Zhang J, Wu W, Ren Y, et al. Electroacupuncture for the treatment of cancer pain: a systematic review and meta-analysis of randomized clinical trials. <i>Frontiers in Pain Research</i> , 2023, 4: 1186506.	Not included for SR
1139	Parsaei M, Hasehmi S M, Seyedmirzaei H, et al. Perioperative esketamine administration for prevention of postpartum depression after the cesarean section: A systematic review and meta-analysis. <i>J Affect Disord</i> . 2024;361:564-580	Included but not synthesized/presented
1140	Zhao Y, Xiao X. Efficacy of ultrasound-guided stellate ganglion block in relieving acute postoperative pain: a systematic review and meta-analysis. <i>Journal of International Medical Research</i> , 2024, 52(5): 03000605241252237.	Not included for SR
1141	Luo M, Xiong L, Zhang L, et al. Efficacy and safety of Bifidobacterium quadruple viable tablets combined with mosapride citrate in the treatment of constipation in China: a systematic review and meta-analysis. <i>BMC gastroenterology</i> , 2023, 23(1): 245.	Not included for SR

1142 Gao L, Wang S, Zhang L, et al. Efficacy of Shenlingbaizhusan for antibiotic-associated diarrhea: A systematic review and meta-analysis. <i>Journal of Herbal Medicine</i> , 2023, 40: 100676.	Not included for SR
1143 Chen J, Liu L, Wang Y, et al. Effects of psychotherapy interventions on anxiety and depression in patients with gastrointestinal cancer: A systematic review and network meta-analysis. <i>Journal of Psychosomatic Research</i> , 2024: 111609.	Not included for SR
1144 Wang Y, Shen Q, Wang C. Efficacy of Rapid Rehabilitation Nursing in Postoperative Care in China: A Meta-Analysis. <i>Rehabilitation Nursing Journal</i> , 2023, 48(5): 170-179.	Not report study-level data
1145 Huang Q, Zhang Q, Li S. Efficacy and Safety of Integrated Maxing Shigan Decoction and Azithromycin for Mycoplasma Pneumoniae Pneumonia in Children: A Systematic Review and Meta-Analysis. <i>Journal of Clinical Pharmacy and Therapeutics</i> , 2023: 2596562.	Not included for SR
1146 Xiao Y, Nie M, Xu W, et al. The efficiency of human fat products in wound healing: A systematic review and meta-analysis. <i>International wound journal</i> , 2024, 21(9): e70016.	Included but not synthesized/presented
1147 Li C, Zhang M, Karthiyejan K, et al. How nurses contribute to the elimination of hepatitis B? A systematic review and meta-analysis. <i>International Journal of Nursing Studies</i> , 2024, 149: 104622.	Included but not synthesized/presented
1148 Yan X, Zhou L, He G, et al. Pregnancy rate and outcomes after uterine artery embolization for women: a systematic review and meta-analysis with trial sequential analysis. <i>Frontiers in Medicine</i> , 2023, 10: 1283279.	Not included for SR
1149 Luo J, Huang B, Zheng H, et al. Acupuncture combined with balloon dilation for post-stroke cricopharyngeal achalasia: A meta-analysis of randomized controlled trials. <i>Frontiers in Neuroscience</i> , 2023, 16: 1092443.	Not included for SR
1150 Lin J, Kong Y, Chen H, et al. Effects of acupuncture on sleep quality in patients with Parkinson's disease: A systematic review and meta-analysis. <i>Clinical Rehabilitation</i> , 2024, 38(4): 478-496.	Included but not synthesized/presented
1151 Lei S, Fan J, Liu X, et al. Qualitative and quantitative meta-analysis of acupuncture effects on the motor function of Parkinson's disease patients. <i>Frontiers in Neuroscience</i> , 2023, 17: 1125626.	Not included for SR
1152 Wang R, Miao C, Chen Y, et al. Antioxidant supplements relieve insulin resistance but do not improve lipid metabolism in women with polycystic ovary syndrome: a meta-analysis of randomized clinical trials. <i>Gynecological Endocrinology</i> , 2022, 38(12): 1047-1059.	Not included for SR
1153 Farsi F, Heshmati J, Keshtkar A, et al. Can coenzyme Q10 supplementation effectively reduce human tumor necrosis factor- α and interleukin-6 levels in chronic inflammatory diseases? A systematic review and meta-analysis of randomized controlled trials. <i>Pharmacological Research</i> , 2019, 148: 104290.	Not included for SR
1154 Alimohammadi M, Rahimi A, Faramarzi F, et al. Effects of coenzyme Q10 supplementation on inflammation, angiogenesis, and oxidative stress in breast cancer patients: a systematic review and meta-analysis of randomized controlled-trials. <i>Inflammopharmacology</i> , 2021, 29(3): 579-593.	Not included for SR

1155	Zhang J, Xing C, Zhao H, et al. The effectiveness of coenzyme Q10, vitamin E, inositols, and vitamin D in improving the endocrine and metabolic profiles in women with polycystic ovary syndrome: a network meta-analysis. <i>Gynecological Endocrinology</i> , 2021, 37(12): 1063-1071.	Not report study-level data
1156	Chen H, Xiao L, Li J, et al. Adjuvant gonadotropin-releasing hormone analogues for the prevention of chemotherapy-induced premature ovarian failure in premenopausal women. <i>Cochrane Database Syst Rev</i> . 2019 (3):CD008018.	old version
1157	Showell MG, Mackenzie-Proctor R, Jordan V, Hart RJ. Antioxidants for female subfertility. <i>Cochrane Database Syst Rev</i> . 2017(7):CD007807.	old version
1158	Showell MG, Brown J, Clarke J, et al. Antioxidants for female subfertility. <i>Cochrane Database Syst Rev</i> . 2013 (8):CD007807.	old version
1159	Showell MG, Mackenzie-Proctor R, Jordan V, Hart RJ. Antioxidants for female subfertility. <i>Cochrane Database Syst Rev</i> . 2017(7):CD007807.	old version
1160	Showell MG, Mackenzie-Proctor R, Jordan V, Hart RJ. Antioxidants for female subfertility. <i>Cochrane Database Syst Rev</i> . 2017(7):CD007807.	old version
1161	Duncan D, Sankar A, Beattie WS, et al. Alpha-2 adrenergic agonists for the prevention of cardiac complications among adults undergoing surgery. <i>Cochrane Database Syst Rev</i> . 2018(3):CD004126.	Included but not synthesized/presented
1162	Ho K M, Tan J A. Benefits and risks of maintaining normothermia during cardiopulmonary bypass in adult cardiac surgery: a systematic review. <i>Cardiovascular therapeutics</i> , 2011, 29(4): 260-279.	Included but not synthesized/presented
1163	Fidelix TS, Macedo CR, Maxwell LJ, et al. Diacerein for osteoarthritis. <i>Cochrane Database Syst Rev</i> . 2014(2):CD005117	Not report study-level data
1164	Recchia F, Leung CK, Yu AP, et al. Dose-response effects of exercise and caloric restriction on visceral adiposity in overweight and obese adults: a systematic review and meta-analysis of randomised controlled trials. <i>Br J Sports Med</i> . 2023(16):1035-1041.	Insufficient information for reproducing
1165	Di Girolamo R, Galliani C, Buca D, et al. Outcomes of second stage cesarean section following the use of a fetal head elevation device: A systematic review and meta-analysis. <i>Eur J Obstet Gynecol Reprod Biol</i> . 2021:262:1-6.	Included but not synthesized/presented
1166	Lepine S, Jo J, Metwally M, et al. Ovarian surgery for symptom relief in women with polycystic ovary syndrome. <i>Cochrane Database Syst Rev</i> . 2017(11):CD009526.	Included but not synthesized/presented
1167	Zamani M, Pahlavani N, Nikbaf-Shandiz M, et al. The effects of L-carnitine supplementation on glycemic markers in adults: A systematic review and dose-response meta-analysis. <i>Front Nutr</i> . 2023;9:1082097.	Not report study-level data
1168	Franik S, Eltrop SM, Kremer JA, et al. Aromatase inhibitors (letrozole) for subfertile women with polycystic ovary syndrome. <i>Cochrane Database Syst Rev</i> . 2018;5(5):CD010287.	Included but not synthesized/presented

1169	Sun J, Rahmati M, Xie W, et al. Efficacy and safety of zoledronic acid in the treatment of osteoporosis: A meta-analysis of randomized controlled trials. <i>Heliyon</i> , 2024, 10(13).	Not report study-level data
1170	Nastri CO, Gibreel A, Raine-Fenning N, et al. Endometrial injury in women undergoing assisted reproductive techniques. <i>Cochrane Database Syst Rev</i> . 2012;(7):CD009517.	old version
1171	Kamper SJ, Apeldoorn AT, Chiarotto A, et al. Multidisciplinary biopsychosocial rehabilitation for chronic low back pain. <i>Cochrane Database Syst Rev</i> . 2014(9):CD000963.	Duplicate
1172	Hudcova J, McNicol E, Quah C, et al. Patient controlled opioid analgesia versus conventional opioid analgesia for postoperative pain. <i>Cochrane Database Syst Rev</i> . 2006(4):CD003348.	old version
1173	Chen Z, Wang J, Carru C, et al. Treatment for mild hypertension in pregnancy with different strategies: A systematic review and meta-analysis. <i>Int J Gynaecol Obstet</i> . 2023;162(1):202-210.	Included but not synthesized/presented
1174	Zhang J, Tang L, Kong L, et al. Ultrasound-guided transvaginal ovarian needle drilling for clomiphene-resistant polycystic ovarian syndrome in subfertile women. <i>Cochrane Database Syst Rev</i> . 2019(7):CD008583.	Included but not synthesized/presented
1175	Bruno V, Chiofalo B, Logoteta A, et al. Urological Complications in Radical Surgery for Cervical Cancer: A Comparative Meta-Analysis before and after LACC Trial. <i>Journal of Clinical Medicine</i> , 2023, 12(17): 5677.	Incidence

Supplementary Table S5. Systematic reviews that incorporated retracted clinical trails eligible for analysis (n = 847)

- 1 Bwire GM, Njiro BJ, Ndumwa HP, et al. Impact of differentiated service delivery models on retention in HIV care and viral suppression among people living with HIV in sub-Saharan Africa: A systematic review and meta-analysis of randomised controlled trials. *Rev Med Virol.* 2023;33(6):e2479.
- 2 Zhang M, Zhu F, Jia F, et al. Efficacy of brain-computer interfaces on upper extremity motor function rehabilitation after stroke: A systematic review and meta-analysis. *NeuroRehabilitation.* 2024;54(2):199-212.
- 3 Guo Z, Gao Q, Jiang Y, et al. Therapeutic Effects of Brain-Computer Interface on Motor Recovery of Stroke Patients: A Meta-analysis. *medRxiv*, 2023: 2023.04. 11.23288439.
- 4 Chen CW, Lee MC, Wu SV. Effects of a collaborative health management model on people with congestive heart failure: A systematic review and meta-analysis. *J Adv Nurs.* 2024;80(6):2290-2307.
- 5 Farquhar C, Brown J, Marjoribanks J. Laparoscopic drilling by diathermy or laser for ovulation induction in anovulatory polycystic ovary syndrome. *Cochrane Database Syst Rev.* 2012;13(6):CD001122.
- 6 Abu Hashim H, Foda O, El Rakhawy M. Unilateral or bilateral laparoscopic ovarian drilling in polycystic ovary syndrome: a meta-analysis of randomized trials. *Arch Gynecol Obstet.* 2018;297(4):859-870.
- 7 Bosteels J, Weyers S, Mathieu C, et al. The effectiveness of reproductive surgery in the treatment of female infertility: facts, views and vision. *Facts Views Vis Obgyn.* 2010;2(4):232-52.
- 8 Jarde A, Lutsiv O, Beyene J, et al. Vaginal progesterone, oral progesterone, 17-OHPC, cerclage, and pessary for preventing preterm birth in at-risk singleton pregnancies: an updated systematic review and network meta-analysis. *BJOG.* 2019 Apr;126(5):556-567.
- 9 Li W, Gleeson J, Fraser MI, et al. The efficacy of personalized psychological interventions in adolescents: a scoping review and meta-analysis. *Front Psychol.* 2024 Sep 6;15:1470817.
- 10 Honvo G, Reginster JY, Rabenda V, et al. Safety of Symptomatic Slow-Acting Drugs for Osteoarthritis: Outcomes of a Systematic Review and Meta-Analysis. *Drugs Aging.* 2019;36(Suppl 1):65-99.
- 11 Kongtharvonskul J, Anothaisintawee T, McEvoy M, et al. Efficacy and safety of glucosamine, diacerein, and NSAIDs in osteoarthritis knee: a systematic review and network meta-analysis. *Eur J Med Res.* 2015;20(1):24.
- 12 Bartels EM, Bliddal H, Schøndorff PK, et al. Symptomatic efficacy and safety of diacerein in the treatment of osteoarthritis: a meta-analysis of randomized placebo-controlled trials. *Osteoarthritis Cartilage.* 2010;18(3):289-96.
- 13 Aghamohammadi D, Dolatkhah N, Bakhtiari F, et al. Nutraceutical supplements in management of pain and disability in osteoarthritis: a systematic review and meta-analysis of randomized clinical trials. *Sci Rep.* 2020;10(1):20892.
- 14 Yu L, Luo R, Qin G, et al. Efficacy and safety of anti-interleukin-1 therapeutics in the treatment of knee osteoarthritis: a systematic review and meta-analysis of randomized controlled trials. *J Orthop Surg Res.* 2023;18(1):100.
- 15 Li G, Zhang Z, Ye Y, et al. Efficacy, residual effectiveness and safety of diacerein in the treatment of knee osteoarthritis: A meta-analysis of randomized placebo-controlled trials. *Medicine (Baltimore).* 2022;101(46):e31700.

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- 16 Ahmed S H, Hasan S U, Samad S, et al. A network meta-analysis comparing the efficacy and safety of thoracic endovascular aortic repair with open surgical repair and optimal medical therapy for type B aortic dissection. *JVS-Vascular Insights*, 2024: 100068.
 - 17 Chen X, Wen Q, Kou L, et al. Incidence and risk of hypertension associated with PARP inhibitors in cancer patients: a systematic review and meta-analysis. *BMC Cancer*. 2023;23(1):107.
 - 18 Qi W, Hu G, Zou T, et al. Effects of self-management education integrated nursing on cancer patients with PICC placement: a systematic review and meta-analysis. *J Res Nurs*. 2024:17449871241268513.
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 - 20 Shukri M F M, Norhayati M N, Badrin S, et al. Effects of L-carnitine supplementation for women with polycystic ovary syndrome: a systematic review and meta-analysis. *PeerJ*, 2022, 10: e13992.
 - 21 Zhang S, Li N, Mao X, et al. Effect of comprehensive nursing care for the liver cancer patients undergoing interventional therapy in China: A systematic review and meta-analysis. *International Journal of Nursing Practice*, 2024, 30(2): e13243.
 - 22 Asl Z S, Parastouei K, Eskandari E. The effects of N-acetylcysteine on ovulation and sex hormones profile in women with polycystic ovary syndrome: a systematic review and meta-analysis. *British Journal of Nutrition*, 2023, 130(2): 202-210.
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 - 27 Bedaiwy M A, Abou-Setta A M, Desai N, et al. Gonadotropin-releasing hormone analog cotreatment for preservation of ovarian function during gonadotoxic chemotherapy: a systematic review and meta-analysis. *Fertility and sterility*, 2011, 95(3): 906-914. e4.
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 - 29 Zheng F, Zhu B, Feng Q, et al. Protective effect of gonadotropin-releasing hormone agonist against chemotherapy-induced ovarian dysfunction: A meta-analysis. *Oncology Letters*, 2019, 17(6): 5319-5326.
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- 32 Silva C, Caramelo O, Almeida-Santos T, et al. Factors associated with ovarian function recovery after chemotherapy for breast cancer: a systematic review and meta-analysis. *Human reproduction*, 2016, 31(12): 2737-2749.
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- 820 Zhang Y, Huang L, Su Y, et al. The Effects of Traditional Chinese Exercise in Treating Knee Osteoarthritis: A Systematic Review and Meta-Analysis. *PLoS One*. 2017;12(1):e0170237.
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- 829 Zhao M, Wang R, Yu Y, et al. Efficacy and Safety of Angiotensin-Converting Enzyme Inhibitor in Combination with Angiotensin-Receptor Blocker in Chronic Kidney Disease Based on Dose: A Systematic Review and Meta-Analysis. *Front Pharmacol*. 2021;12:638611.
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- 841 Zhu H, Xu X, Zhang K, et al. The effect of intravenous vitamin C on clinical outcomes in patients with sepsis or septic shock: A meta-analysis of randomized controlled trials. *Front Nutr*. 2022;9:964484.

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- 844 Zhu M, Zhou C, Huang B, et al. Granisetron plus dexamethasone for prevention of postoperative nausea and vomiting in patients undergoing laparoscopic surgery: A meta-analysis. *J Int Med Res*. 2017;45(3):904-911.
- 845 Zhuo Y, Yu R, Wu C, et al. The role of perioperative intravenous low-dose dexamethasone in rapid recovery after total knee arthroplasty: a meta-analysis. *J Int Med Res*. 2021;49(3):300060521998220.
- 846 Zou Y, Guo B, Yu S, et al. Effect of vitamin D supplementation on glyucose homeostasis and islet function in vitamin D deficient or insufficient diabetes and prediabetes: a systematic review and meta-analysis. *J Clin Biochem Nutr*. 2021;69(3):229-237.
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Methods to identify retracted trials within each systematic review

One important step in this research is the method to identify retracted trials within each systematic review. The task of identifying how many retracted trials were involved in a systematic review would only be able to use forward citation searching to identify one retracted trial for a systematic review.

There were two potential methods to solve the problem. First, matching all the references of each systematic review to the included retracted trials. We have tested the Web of Science and Scopus to trying to get the references of each systematic review while finally we observed that there were two problems of this method — 1) the references of the systematic reviews were not always correct that recorded in Web of Science and Scopus; 2) Some of the references could not be exported due to some restrictions. To this end, this method is not the best choice to accurately identify all retracted trials within each systematic review.

We then took the second method, improvised by checking the duplicates — if a systematic review was tracked by several trials via forward citation searching, it will appear the same number of times in our data collection sheet and a checking of the duplicates could find out all of the retracted trials that were included in the systematic review. This is a valid method to avoid the above two problems faced by the first method.

Supplementary Table S6. Details of guideline searching for the 68 SRs of the related clinical practice guidelines.

SR_ID	Title	Citations Google (Title)	Scopus (Title)	GIN (Topic)	Search (Filter: English)	TRIP (Topic)	Search (Filter: guidelines)
10_9	Lin LJ, Liu J, Xu LZ, Chen H. The impact of endometrial mechanical stimulation in women with normal hysteroscopic findings undergoing IVF/ICSI: a meta-analysis. Clinical and Experimental Obstetrics & Gynecology. 2022 Jan 19;49(1):27.	2	2	5	1. Infertility (5)	45	1. Endometrial scratching (1) 2. Infertile & in vitro fertilization (0) 3. Infertile & Intracytoplasmic sperm injection (0) 4. Infertility & In vitro fertilization (0) 5. Infertility & In vitro fertilization (0) 6. Infertile (44) 7. Infertility (44)
120_12	Jia D, Tan H, Faramand A, Fang F. One Anastomosis Gastric Bypass Versus Roux-en-Y Gastric Bypass for Obesity: a Systematic Review and Meta-Analysis of Randomized Clinical Trials. Obes Surg. 2020 Apr;30(4):1211-1218. doi: 10.1007/s11695-019-04288-3.	51	37	27	1. Obesity (27)	21	1. Obesity & surgery (6) 1. Obesity & treatment (15)
133_20	Shi XY, Zou Z, He XY, Xu HT, Yuan HB, Liu H. Hydroxyethyl starch for cardiovascular surgery: a systematic review of randomized controlled trials. European journal of clinical pharmacology. 2011 Aug;67:767-82.	21	9	0	1. Hydroxyethyl starch (0)	0	1. Hydroxyethyl starch (0)
13_3	Tassi A, Parisi N, Londero AP. Misoprostol administration prior to intrauterine contraceptive device insertion: a systematic review and meta-analysis of randomised controlled trials. The European Journal of Contraception & Reproductive Health Care. 2020 Jan 2;25(1):76-86.	13	7	0	1. Contraceptive device (0) 2. Intrauterine device (0)	11	1. Contraceptive device (4) 2. Intrauterine device (7)
144_13	Liu A, Zheng C, Lang J, Chen W. Letrozole versus clomiphene citrate for unexplained infertility: a systematic review and meta-analysis. J Obstet Gynaecol Res. 2014 May;40(5):1205-16. doi: 10.1111/jog.12393.	33	21	5	1. Infertility (5)	44	1. Infertility & Letrozole (0) 2. Infertility & Clomiphene citrate (0) 3. Infertile (44) 4. Infertility (44)

18_2	de Jong PG, Kaandorp S, Di Nisio M, Goddijn M, Middeldorp S. Aspirin and/or heparin for women with unexplained recurrent miscarriage with or without inherited thrombophilia. Cochrane Database Syst Rev. 2014 Jul 4;2014(7):CD004734. doi: 10.1002/14651858.CD004734.pub4.	286	159	1	1. Miscarriage (1)	4	1. Recurrent miscarriage (4)
1_13	Jacob M, Chappell D, Conzen P, Wilkes MM, Becker BF, Rehm M. Small-volume resuscitation with hyperoncotic albumin: a systematic review of randomized clinical trials. Crit Care. 2008;12(2):R34. doi: 10.1186/cc6812.	115	67	5	1. Critically ill (5)	9	1. Critically ill patients & Hyperoncotic albumin solutions (2) 2. Critically ill patients & albumin solutions (2) 3. Critically ill patients & colloid volume therapy (3) 4. Critically ill patients & fluid (2)
201_6	Bjelakovic G, Gluud LL, Nikolova D, Whitfield K, Wetterslev J, Simonetti RG, Bjelakovic M, Gluud C. Vitamin D supplementation for prevention of mortality in adults. Cochrane Database Syst Rev. 2014 Jan 10;(1):CD007470. doi: 10.1002/14651858.CD007470.pub3	1108	223	5	1. Vitamin D (5)	14	1. Vitamin D & mortality (0) 2. Vitamin D & prevention (14)
239_2	Zhang L, Zhu J, Xu L, Zhang X, Wang H, Luo Z, Zhao Y, Yu Y, Zhang Y, Shi H, Bao H. Efficacy and safety of flurbiprofen axetil in the prevention of pain on propofol injection: a systematic review and meta-analysis. Medical Science Monitor: International Medical Journal of Experimental and Clinical Research. 2014;20:995.	49	27	60	1. Propofol injection (0) 2. Pain (60)	7	1. Pain & propofol injection (0) 2. Pain & flurbiprofen axetil (0) 3. Propofol injection & flurbiprofen axetil (0) 4. Pain & injection (7)
258_2	Mohamed HHB, Serag Eldien AM, Zahran A. Augmentation versus No Augmentation for Immediate Postextraction Implants. Int J Dent. 2018 Oct 16;2018:5209108. doi: 10.1155/2018/5209108.	14	4	0	1. Tooth implants (0)	0	1. Immediate Postextraction Implants (0) 2. Postextraction Implants (0) 3. Tooth implants (0)

268_1	Gillespie LD, Robertson MC, Gillespie WJ, Lamb SE, Gates S, Cumming RG, Rowe BH. Interventions for preventing falls in older people living in the community. Cochrane Database of Systematic Reviews 2009, Issue 2. Art. No.: CD007146. DOI: 10.1002/14651858.CD007146.pub2		1368	28	1. Falls (28)	25	1. Falls (25)
281_1	Plantinga NL, de Smet AM, Oostdijk EA, de Jonge E, Camus C, Krueger WA, Bergmans D, Reitsma JB, Bonten MJ. Selective digestive and oropharyngeal decontamination in medical and surgical ICU patients: individual patient data meta-analysis. Clinical Microbiology and Infection. 2018 May 1;24(5):505-13.	105	69	2	1. Antibiotic resistance (2)	0	1. Antibiotic resistance (0)
28_28	Hernandez AV, Phan MT, Rocco J, Pasupuleti V, Barboza JJ, Piscoya A, Roman YM, White CM. Efficacy and safety of hydroxychloroquine for hospitalized COVID-19 patients: a systematic review and meta-analysis. Journal of Clinical Medicine. 2021 Jun 5;10(11):2503.	13	9	13	1. COVID-19 (13)	44	1. COVID-19 & Hydroxychloroquine (4) 2. COVID-19 & treatment (40)
28_6	Juul S, Nielsen EE, Feinberg J, Siddiqui F, Jørgensen CK, Barot E, Holgersson J, Nielsen N, Bentzer P, Veroniki AA, Thabane L. Interventions for treatment of COVID-19: of a living systematic review with meta-analyses and trial sequential analyses (The LIVING Project). PLoS One. 2021 Mar 11;16(3):e0248132.	57	38	13	1. COVID-19 (13)	44	1. COVID-19 & Hydroxychloroquine (4) 2. COVID-19 & treatment (40)
2_11	Lepine S, Jo J, Metwally M, Cheong YC. Ovarian surgery for symptom relief in women with polycystic ovary syndrome. Cochrane Database Syst Rev. 2017 Nov 10;11(11):CD009526.	36	23	1	1. Polycystic ovary syndrome (1) 2. PCOS (0)	34	1. Polycystic ovary syndrome (22) 2. PCOS (12)

2_4	Franik S, Eltrop SM, Kremer JA, Kiesel L, Farquhar C. Aromatase inhibitors (letrozole) for subfertile women with polycystic ovary syndrome. Cochrane Database Syst Rev. 2018 May 24;5(5):CD010287. doi: 10.1002/14651858.CD010287.pub3.	256	89	1	1. Polycystic ovary syndrome (1) 2. PCOS (0)	34	1. Polycystic ovary syndrome (22) 2. PCOS (12)
310_3	Li H, Cao Y, Ma P, Ma Z, Li C, Yang W, Zhou L. Novel visualization methods assisted transurethral resection for bladder cancer: an updated survival-based systematic review and meta-analysis. Frontiers in Oncology. 2021 Jul 13;11:644341.	9	9	7	1. Bladder cancer (7)	38	1. Bladder cancer (38)
332_1	Shahin Y, Barnes R, Barakat H, Chetter IC. Meta-analysis of angiotensin converting enzyme inhibitors effect on walking ability and ankle brachial pressure index in patients with intermittent claudication. Atherosclerosis. 2013 Dec 1;231(2):283-90.	63	44	0	1. Intermittent claudication (0)	2	1. Intermittent claudication (2)
332_2	Barrons RW, Woods JA. The roles of ACE inhibitors in lower extremity peripheral artery disease. American Journal of Therapeutics. 2016 Jan 1;23(1):e7-15.	5	4	4	1. Lower extremity peripheral artery disease (0) 2. Peripheral artery disease (4)	45	1. Lower extremity peripheral artery disease (6) 2. Peripheral artery disease (39)
371_1	O'Meara S, Al-Kurdi D, Ologun Y, Ovington LG, Martyn-St James M, Richardson R. Antibiotics and antiseptics for venous leg ulcers. Cochrane Database of Systematic Reviews. 2014(1).Doi: 10.1002/14651858.CD003557.pub5.	692	124	2	1. Venous leg ulcers (2)	20	1. Venous leg ulcers (20)
391_22	Turrini G, Purgato M, Acarturk C, Anttila M, Au T, Ballette F, Bird M, Carswell K, Churchill R, Cuijpers P, Hall J. Efficacy and acceptability of psychosocial interventions in asylum seekers and refugees: systematic review and meta-analysis. Epidemiology and psychiatric sciences. 2019 Aug;28(4):376-88.	225	150	0	1. Asylum seeker (0) 2. Refugee (0)	13	1. Asylum seeker (4) 2. Refugee (9)

43_3	Bala MM, Paszek E, Lesniak W, Wloch-Kopec D, Jasinska K, Undas A. Antiplatelet and anticoagulant agents for primary prevention of thrombosis in individuals with antiphospholipid antibodies. Cochrane Database Syst Rev. 2018 Jul 13;7(7):CD012534. doi: 10.1002/14651858.CD012534.pub2.	55	4	42	1. Thrombosis (42) 2. Antiphospholipid antibodies (0)	73	1. Thrombosis (73)
459_1	Carlisle JB, Stevenson CA. Drugs for preventing postoperative nausea and vomiting. Cochrane Database Syst Rev. 2006 Jul 19;2006(3):CD004125. doi: 10.1002/14651858.CD004125.pub2.	491	184	0	1. Postoperative nausea and vomiting (0) 2. PONV (0)	3	1. Postoperative nausea and vomiting (3)
46_16	Izcovich A, Peiris S, Ragusa M, Tortosa F, Rada G, Aldighieri S, Reveiz L. Bias as a source of inconsistency in ivermectin trials for COVID-19: A systematic review. Ivermectin's suggested benefits are mainly based on potentially biased results. Journal of Clinical Epidemiology. 2022 Apr 1;144:43-55.	31	20	13	1. COVID-19 (13)	40	1. COVID-19 & Ivermectin (0) 2. COVID-19 & treatment (40)
515_17	Yu C, Hequn C, Jinbo C, Feng Z, Xiongbing Z, Jian D. Gemcitabine/cisplatin versus methotrexate/vinblastine/doxorubicin/cisplatin for muscle-invasive bladder cancer: A systematic review and meta-analysis. J Cancer Res Ther. 2018 Oct-Dec;14(6):1260-1265. doi: 10.4103/0973-1482.188434.	22	11	7	1. Bladder cancer (7)	38	1. Bladder cancer (38)
58_2	Sathianathen NJ, Hwang EC, Mian R, Bodie JA, Soubra A, Lyon JA, Sultan S, Dahm P. Selective serotonin re-uptake inhibitors for premature ejaculation in adult men. Cochrane Database Syst Rev. 2021 Mar 21;3(3):CD012799. doi: 10.1002/14651858.CD012799.pub2.	21	12	0	1. Premature ejaculation (0)	2	1. Premature ejaculation (2)

58_3	Cooper K, James MS, Kaltenthaler E, Dickinson K, Cantrell A. Interventions to treat premature ejaculation: a systematic review short report. Health Technology Assessment. 2015 Mar 1;19(21).	60	33	0	1. Premature ejaculation (0)	2	1. Premature ejaculation (2)
59_19	Wu T, Yue X, Duan X, Luo D, Cheng Y, Tian Y, Wang K. Efficacy and safety of tramadol for premature ejaculation: a systematic review and meta-analysis. Urology. 2012 Sep;80(3):618-24. doi: 10.1016/j.urology.2012.05.035.	63	33	0	1. Premature ejaculation (0)	2	1. Premature ejaculation (2)
5_21	Zhao LQ, Yu DY, Cheng JW. Intravenous glucocorticoids therapy in the treatment of Graves' ophthalmopathy: a systematic review and Meta-analysis. International Journal of Ophthalmology. 2019;12(7):1177.	22	15	0	1. Graves ophthalmopathy (0)	0	1. Graves' ophthalmopathy (0)
641_2	Shi C, Dumville JC, Cullum N, Connaughton E, Norman G. Compression bandages or stockings versus no compression for treating venous leg ulcers. Cochrane Database Syst Rev. 2021 Jul 26;7(7):CD013397. doi: 10.1002/14651858.CD013397.pub2.	128	47	2	1. Venous leg ulcers (2)	20	1. Venous leg ulcers (20)
64_1	Kongnyuy EJ, Wiysonge CS. Interventions to reduce haemorrhage during myomectomy for fibroids. Cochrane Database Syst Rev. 2014 Aug 15;2014(8):CD005355. doi: 10.1002/14651858.CD005355.pub5.	434	95	0	1. Fibroids (0)	7	1. Fibroids & myomectomy & haemorrhage (0) 2. Fibroids & myomectomy (0) 3. Fibroids & haemorrhage (0) 4. Fibroids myomectomy (0) 5. Fibroids (7) 6. Myomectomy & haemorrhage (0) 7. Myomectomy (0)
652_22	Howe TE, Shea B, Dawson LJ, Downie F, Murray A, Ross C, Harbour RT, Caldwell LM, Creed G. Exercise for preventing and treating osteoporosis in postmenopausal women. Cochrane Database of Systematic Reviews 2011, Issue 7. Art. No.: CD000333. DOI: 10.1002/14651858.CD000333.pub2.	1093	324	12	1. Osteoporosis (12)	4	1. Osteoporosis & Postmenopausal women (4)

67_4	de Vaan MDT, ten Eikelder MLG, Jozwiak M, Palmer KR, Davies-Tuck M, Bloemenkamp KWM, Mol BWJ, Boulvain M. Mechanical methods for induction of labour. Cochrane Database of Systematic Reviews 2019, Issue 10. Art. No.: CD001233. DOI: 10.1002/14651858.CD001233.pub3.	207	49	0	1. Induction of labour (0)	22	1. Induction of labour (22)
711_10	Deane KH, Jimoh OF, Biswas P, O'Brien A, Hanson S, Abdelhamid AS, Fox C, Hooper L. Omega-3 and polyunsaturated fat for prevention of depression and anxiety symptoms: systematic review and meta-analysis of randomised trials. The British Journal of Psychiatry. 2021 Mar;218(3):135-42.	99	65	41	1. Depression (31) 2. Anxiety (10)	14	1. Depression & prevention (3) 2. Depression & Anxiety (11)
727_3	Haas DM, Hathaway TJ, Ramsey PS. Progestogen for preventing miscarriage in women with recurrent miscarriage of unclear etiology. Cochrane Database Syst Rev. 2019 Nov 20;2019(11):CD003511. doi: 10.1002/14651858.CD003511.pub5.	667	54	1	1. Progesterone (1)	0	1. Recurrent miscarriage & progestogen (0) 1. Recurrent miscarriage & prevention (0)
772_15	Cheuk DKL, Yeung J, Chung KF, Wong V. Acupuncture for insomnia. Cochrane Database of Systematic Reviews 2007, Issue 3. Art. No.: CD005472. DOI: 10.1002/14651858.CD005472.pub2		121	4	1. Insomnia (4)	24	1. Insomnia (24)
777_5	Godoi A, Reis Marques I, Padrão EMH, Mahesh A, Hespanhol LC, Riceto Loyola Júnior JE, de Souza IAF, Moreira VCS, Silva CH, Miyawaki IA, Oommen C, Gomes C, Silva AC, Advani K, de Sa JR. Glucose control and psychosocial outcomes with use of automated insulin delivery for 12 to 96 weeks in type 1 diabetes: a meta-analysis of randomised controlled trials. Diabetol Metab Syndr. 2023 Sep 28;15(1):190. doi: 10.1186/s13098-023-01144-4.	16	14	24	1. Type 1 diabetes (24)	10	1. Type 1 diabetes & Insulin (10)

78_2	Dodd JM, Grivell RM, OBrien CM, Dowswell T, Deussen AR. Prenatal administration of progestogens for preventing spontaneous preterm birth in women with a multiple pregnancy. Cochrane Database Syst Rev. 2017 Oct 31;10(10):CD012024. doi: 10.1002/14651858.CD012024.pub2	138	32	2	1. Progesterone (1) 2. Multiple pregnancy (1)	2	1. Progestogen & preterm birth (2)
912_4	Sharpe A, Morley LC, Tang T, Norman RJ, Balen AH. Metformin for ovulation induction (excluding gonadotrophins) in women with polycystic ovary syndrome. Cochrane Database Syst Rev. 2019 Dec 17;12(12):CD013505. doi: 10.1002/14651858.CD013505.	144	91	1	1. Polycystic ovary syndrome (1)	34	1. Polycystic ovary syndrome (22) 2. PCOS (12)
912_5	Moll E, van der Veen F, van Wely M. The role of metformin in polycystic ovary syndrome: a systematic review. Hum Reprod Update. 2007 Nov-Dec;13(6):527-37.	294	157	1	1. Polycystic ovary syndrome (1)	34	1. Polycystic ovary syndrome (22) 2. PCOS (12)
930_15	Gao L, Yang L, Lv X, Bu S, Wan F, Qian S, Wei Q, Han P, Fan T. A systematic review and meta-analysis of comparative studies on the efficacy of extended pelvic lymph node dissection in patients with clinically localized prostatic carcinoma. J Cancer Res Clin Oncol. 2014 Feb;140(2):243-56. doi: 10.1007/s00432-013-1574-2.	20	10	10	1. Localized prostatic carcinoma (1) 2. Local prostate cancer (9)	19	1. Local prostate cancer (19)
93_4	Palacios C, Kostiuk LK, Peña-Rosas JP. Vitamin D supplementation for women during pregnancy. Cochrane Database of Systematic Reviews. 2019(7). CD008873. DOI: 10.1002/14651858.CD008873.pub4.	435	159	5	1. Vitamin D (5)	10	1. Pregnancy & Vitamin D (10)
96_49	Li D, Cai Z, Pan Z, Yang Y, Zhang J. The effects of vitamin and mineral supplementation on women with gestational diabetes mellitus. BMC Endocr Disord. 2021 May 24;21(1):106. doi: 10.1186/s12902-021-00712-x.	24	13	3	1. Gestational diabetes mellitus (3)	15	1. Gestational diabetes mellitus (15)

1071_3	Antioxidants for female subfertility. 10.1002/14651858.CD007807.pub4	366	65	0	1. Subfertility (0)	257	1. Subfertility & Antioxidants (0) 2. Infertility & Antioxidants (0) 3. Antioxidant (257)
1106_3	Transvaginal needle versus laparoscopic ovarian drilling in hormonal profile and pregnancy outcomes of polycystic ovary syndrome: a systematic review and meta-analysis. 10.1016/j.jogoh.2023.102606	6	4	1	1. Polycystic ovary syndrome (1)	2	1. Polycystic ovary syndrome & Transvaginal needle (1) 2. PCOS & Transvaginal needle (1) 3. Polycystic ovary syndrome & needle (0) 4. PCOS & needle (0)
1114_3	Luteal phase clomiphene citrate for ovulation induction in women with polycystic ovary syndrome: a systematic review and meta-analysis. 10.1080/09513590.2016.1197196	13	9	1	1. Polycystic ovary syndrome (1)	0	1. Polycystic ovary syndrome & Clomiphene citrate (0) 2. PCOS & Clomiphene citrate (0)
1129_21	Endometrial scratching during hysteroscopy in women undergoing in vitro fertilization: a systematic review and meta-analysis. 10.3389/fsurg.2023.1225111	1	1	0	1. Vitro fertilization (0)	8	1. Endometrial scratching (1) 2. Infertility & Women (7)
1129_4	Endometrial scratch injury for women with one or more previous failed embryo transfers: a systematic review and meta-analysis of randomized controlled trials. 10.1016/j.fertnstert.2018.04.040	104	75	0	1. Embryo transfers (0)	8	1. Endometrial scratching (1) 2. Infertility & Women (7)
1132_13	Inositol treatment of anovulation in women with polycystic ovary syndrome: a meta-analysis of randomised trials. 10.1111/1471-0528.14754	167	88	1	1. Polycystic ovary syndrome (1)	0	1. Polycystic ovary syndrome & Inositol (0) 2. PCOS & Inositol (0)
1135_22	The effects of dexmedetomidine on postoperative sleep in elderly patients: a systematic review and meta-analysis	2	NA	1	1. Postoperative elderly (1)	0	1. Postoperative & Dexmedetomidine (0) 2. Elderly & Dexmedetomidine (0) 3. Old & Dexmedetomidine (0)
1163_5	Effect of exercise intervention on clinical parameters in patients with non-alcoholic fatty liver disease and type 2 diabetes mellitus: a meta-analysis of randomized controlled trials. 10.1097/MEG.0000000000002662	3	3	1	1. Non-alcoholic fatty liver disease (1)	0	1. Non-alcoholic fatty liver disease & diabetes (0)

1178_4	Can dexmedetomidine influence recovery profiles from general anesthesia in nasal surgery? 10.1177/0194599817733735	45	30	0	1. Nasal surgery (0)	0	1. Surgery & Dexmedetomidine (0)
1200_1	Interventions for pain with intrauterine device insertion. 10.1002/14651858.CD007373.pub3.	189	67	60	1. Intrauterine device (0) 2. Pain (60)	0	1. Pain & Intrauterine device (0)
1205_2	Interventions to prevent or treat heavy menstrual bleeding or pain associated with intrauterine-device use. 10.1002/14651858.CD006034.pub3.	9	5	1	1. Menstrual bleeding (1) 2. Menstrual pain (1)	0	1. Pain & Intrauterine device (0)
1207_3	Multidisciplinary biopsychosocial rehabilitation for chronic low back pain: cochrane systematic review and meta-analysis. 10.1002/14651858.CD000963.pub3	826	246	1	1. Chronic low back pain (1)	0	1. Pain & biopsychosocial (0)
1235_11	The effect of sildenafil citrate on fetal and maternal ultrasound indices in iugr-complicated pregnancies; a systematic review and meta-analysis of randomized clinical trials	0	0	0	1. Intrauterine Growth Restriction (0)	0	1. Intrauterine Growth Restriction & Sildenafil (0)
1236_14	The effects of probiotics or synbiotics supplementation in women with polycystic ovarian syndrome: a systematic review and meta-analysis of randomized clinical trials. 10.1007/s12602-018-9493-9	74	54	1	1. Polycystic ovary syndrome (1)	0	1. Polycystic ovary syndrome & Probiotics (0) 2. Polycystic ovary syndrome & Synbiotics (0)
1239_9	Interventions for improving mobility after hip fracture surgery in adults. 10.1002/14651858.CD001704.pub5	46	66	9	1. Hip fracture (9)	0	1. Hip fracture & Mobility (0)
1242_2	Effect of granulocyte colony-stimulating factor on clinical pregnancy outcomes of recurrent miscarriage and recurrent implantation failure cases: a meta-analysis	0	0	0	1. Implantation failure (0)	0	1. Granulocyte colony-stimulating & Pregnancy (0) 2. Granulocyte colony-stimulating & Implantation failure (0)

1242_9	The value of g-csf in women experienced at least one implantation failure: a systematic review and meta-analysis. 10.3389/fendo.2024.1370114	3	3	0	1. Implantation failure (0)	0	1. Granulocyte colony-stimulating & Pregnancy (0) 2. Granulocyte colony-stimulating & Implantation failure (0)
1286_6	The influence of perioperative dexmedetomidine on patients undergoing cardiac surgery: a meta-analysis. 10.1371/journal.pone.0152829	93	58	1	1. Cardiac surgery (1)	0	1. Surgery & Dexmedetomidine (0)
146_12	Combined metformin/clomiphene in clomiphene-resistant polycystic ovary syndrome A systematic review and metaanalysis of randomized controlled trials. 10.1111/aogs.12673	54	30	1	1. Polycystic ovary syndrome (1)	1	1. Metformin/clomiphene & Polycystic ovary syndrome (1)
148_13	Colloid solutions for fluid resuscitation in patients with sepsis Systematic review of randomized controlled trials. 10.1016/j.jemermed.2013.05.018	24	15	7	1. Sepsis (7)	2	1. Sepsis & Fluid resuscitation (0) 2. Sepsis & Colloid solutions (2)
156_1	Clinical data mining reveals analgesic effects of lapatinib in cancer patients. Sci Rep. 2021 Feb 11;11(1):3528. Doi: 10.1038/s41598-021-82318-w.	2	2	0	1. Lapatinib (0)	0	1. Lapatinib (0) 2. Cancer & Lapatinib (0)
1_1	Association of hydroxyethyl starch administration with mortality and acute kidney injury in critically ill patients requiring volume resuscitation A systematic review and metaanalysis. 10.1001/jama.2013.430	804	538	5	1. Critically ill (5)	0	1. Hydroxyethyl starch & Critically ill (0) 2. Hydroxyethyl starch (0)
204_13	Platelet-rich-plasmapheresis for minimising peri-operative allogeneic blood transfusion. 10.1002/14651858.cd004172.pub2	54	16	4	1. Blood transfusion (4)	1	1. Allogeneic transfusion (1)
308_12	Effect of B vitamin Folate, B6, and B12 supplementation on osteoporotic fracture and bone turnover markers A metaanalysis. 10.12659/MSM.893310	39	25	2	1. Osteoporotic fracture (2)	1	1. Osteoporotic fracture & Vitamin (0) 2. Fracture & Vitamin (1) 3. Fracture & Folate (0)
41_11	Clomiphene and other antioestrogens for ovulation induction in polycystic ovarian syndrome. 10.1002/14651858.CD002249.pub5	129	77	1	1. Polycystic ovary syndrome (1)	4	1. Polycystic ovary syndrome & Clomiphene (0) 2. Polycystic ovary syndrome & antioestrogen (4)

Supplementary Table S7. List of exclusions for potential guideline documents (with reasons).

A: Exclusion lists (N = 89) during full-text downloading		Reasons for exclusion
1	Shaulov T, Sierra S, Sylvestre C. Recurrent implantation failure in IVF: A Canadian Fertility and Andrology Society Clinical Practice Guideline. <i>Reprod Biomed Online</i> . 2020;41(5):819-833. doi:10.1016/j.rbmo.2020.08.007	Duplicates
2	ESHRE Add-ons working group, Lundin K, Bentzen JG, et al. Good practice recommendations on add-ons in reproductive medicine†. <i>Hum Reprod</i> . 2023;38(11):2062-2104. doi:10.1093/humrep/dead184	Duplicates
3	EDe Luca M, Piatto G, Merola G, et al. IFSO Update Position Statement on One Anastomosis Gastric Bypass (OAGB). <i>Obes Surg</i> . 2021;31(7):3251-3278. doi:10.1007/s11695-021-05413-x	Duplicates
4	Ghiassi S, Nimeri A, Aleassa EM, et al. American Society for Metabolic and Bariatric Surgery position statement on one-anastomosis gastric bypass. <i>Surg Obes Relat Dis</i> . 2024;20(4):319-335. doi:10.1016/j.soard.2023.11.003	Duplicates
5	American College of Obstetricians and Gynecologists' Committee on Practice Bulletins—Gynecology. ACOG Practice Bulletin No. 200: Early Pregnancy Loss. <i>Obstet Gynecol</i> . 2018;132(5):e197-e207. doi:10.1097/AOG.0000000000002899	Duplicates
6	Toth B, Würfel W, Bohlmann M, et al. Recurrent Miscarriage: Diagnostic and Therapeutic Procedures. Guideline of the DGGG, OEGGG and SGGG (S2k-Level, AWMF Registry Number 015/050). <i>Geburtshilfe Frauenheilkd</i> . 2018;78(4):364-381. doi:10.1055/a-0586-4568	Duplicates
7	Reinhart K, Perner A, Sprung CL, et al. Consensus statement of the ESICM task force on colloid volume therapy in critically ill patients. <i>Intensive Care Med</i> . 2012;38(3):368-383. doi:10.1007/s00134-012-2472-9	Duplicates
8	Yu YT, Liu J, Hu B, et al. Expert consensus on the use of human serum albumin in critically ill patients. <i>Chin Med J (Engl)</i> . 2021;134(14):1639-1654. doi:10.1097/CM9.0000000000001661	Duplicates
9	Pilz S, März W, Cashman KD, et al. Rationale and Plan for Vitamin D Food Fortification: A Review and Guidance Paper. <i>Front Endocrinol (Lausanne)</i> . 2018;9:373. Published 2018 Jul 17. doi:10.3389/fendo.2018.00373	Duplicates
10	Nuti R, Brandi ML, Checchia G, et al. Guidelines for the management of osteoporosis and fragility fractures. <i>Intern Emerg Med</i> . 2019;14(1):85-102. doi:10.1007/s11739-018-1874-2	Duplicates
11	Klompas M, Branson R, Cawcutt K, et al. Strategies to prevent ventilator-associated pneumonia, ventilator-associated events, and nonventilator hospital-acquired pneumonia in acute-care hospitals: 2022 Update. <i>Infect Control Hosp Epidemiol</i> . 2022;43(6):687-713. doi:10.1017/ice.2022.88	Duplicates
12	Neuzillet Y, Pradère B, Xylinas E, et al. French AFU Cancer Committee Guidelines - Update 2022-2024: Non-muscle-invasive bladder cancer (NMIBC). <i>Prog Urol</i> . 2022;32(15):1102-1140. doi:10.1016/j.purol.2022.08.006	Duplicates
13	Hensley PJ, Seiler R, Herr H, et al. Bladder preservation after neoadjuvant therapy - 2021 IBCN updates part 1. <i>Urol Oncol</i> . 2023;41(7):307-312. doi:10.1016/j.urolonc.2023.01.001	Duplicates
14	Jin YH, Zeng XT, Liu TZ, et al. Treatment and surveillance for non-muscle-invasive bladder cancer: a clinical practice guideline (2021 edition). <i>Mil Med Res</i> . 2022;9(1):44. Published 2022 Aug 17. doi:10.1186/s40779-022-00406-y	Duplicates
15	Aboyans V, Ricco JB, Bartelink MEL, et al. 2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS). <i>Rev Esp Cardiol (Engl Ed)</i> . 2018;71(2):111. doi:10.1016/j.rec.2017.12.014	Duplicates
16	Umemura S, Arima H, Arima S, et al. The Japanese Society of Hypertension Guidelines for the Management of Hypertension (JSH 2019). <i>Hypertens Res</i> . 2019;42(9):1235-1481. doi:10.1038/s41440-019-0284-9	Duplicates
17	Lawall H, Huppert P, Espinola-Klein C, Zemmrich CS, Ruemenapf G. German guideline on the diagnosis and treatment of peripheral artery disease - a comprehensive update 2016. <i>Vasa</i> . 2017;46(2):79-86. doi:10.1024/0301-1526/a000603	Duplicates

18	Zbigniew Krasiński , Zbigniew A. Gaciong , Filip M. Szymański, et al. The position of Polish experts on conservative management in patients with artery diseases of lower limbs. <i>Acta Angiologica</i> . 2019;25(2):41–76. doi:10.5603/aa.2019.0007	Duplicates
19	Visseren FLJ, Mach F, Smulders YM, et al. 2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. <i>Eur J Prev Cardiol</i> . 2022;29(1):5-115. doi:10.1093/eurjpc/zwab154	Duplicates
20	Kramer A, Dissemond J, Kim S, et al. Consensus on Wound Antisepsis: Update 2018. <i>Skin Pharmacol Physiol</i> . 2018;31(1):28- 58. doi:10.1159/000481545	Duplicates
21	Sinha S, Sreedharan S. Management of venous leg ulcers in general practice - a practical guideline. <i>Aust Fam Physician</i> . 2014;43(9):594-598.	Duplicates
22	Maessen-Visch MB, de Roos KP. Dutch Venous Ulcer guideline update. <i>Phlebology</i> . 2014;29(1 suppl):153-156. doi:10.1177/0268355514529693	Duplicates
23	Kelechi TJ, Johnson JJ; WOCN Society. Guideline for the management of wounds in patients with lower-extremity venous disease: an executive summary. <i>J Wound Ostomy Continence Nurs</i> . 2012;39(6):598-606.doi:10.1097/WON.0b013e31827179e9	Duplicates
24	Melloul E, Hübner M, Scott M, et al. Guidelines for Perioperative Care for Liver Surgery: Enhanced Recovery After Surgery (ERAS) Society Recommendations. <i>World J Surg</i> . 2016;40(10):2425-2440. doi:10.1007/s00268-016-3700-1	Duplicates
25	Mortensen K, Nilsson M, Slim K, et al. Consensus guidelines for enhanced recovery after gastrectomy: Enhanced Recovery After Surgery (ERAS®) Society recommendations. <i>Br J Surg</i> . 2014;101(10):1209-1229. doi:10.1002/bjs.9582	Duplicates
26	Gan TJ, Diemunsch P, Habib AS, et al. Consensus guidelines for the management of postoperative nausea and vomiting . <i>Anesth Analg</i> . 2014;118(1):85-113. doi:10.1213/ANE.0000000000000002	Duplicates
27	Lassen K, Coolsen MM, Slim K, et al. Guidelines for perioperative care for pancreaticoduodenectomy: Enhanced Recovery After Surgery (ERAS®) Society recommendations. <i>World J Surg</i> . 2013;37(2):240-258. doi:10.1007/s00268-012-1771-1	Duplicates
28	Gustafsson UO, Scott MJ, Schwenk W, et al. Guidelines for perioperative care in elective colonic surgery: Enhanced Recovery After Surgery (ERAS®) Society recommendations. <i>World J Surg</i> . 2013;37(2):259-284. doi:10.1007/s00268-012-1772-0	Duplicates
29	Lassen K, Coolsen MM, Slim K, et al. Guidelines for perioperative care for pancreaticoduodenectomy: Enhanced Recovery After Surgery (ERAS®) Society recommendations. <i>Clin Nutr</i> . 2012;31(6):817-830. doi:10.1016/j.clnu.2012.08.011	Duplicates
30	Lassen K, Soop M, Nygren J, et al. Consensus review of optimal perioperative care in colorectal surgery: Enhanced Recovery After Surgery (ERAS) Group recommendations. <i>Arch Surg</i> . 2009;144(10):961-969. doi:10.1001/archsurg.2009.170	Duplicates
31	Denlinger CS, Sanft T, Baker KS, et al. Survivorship, Version 2.2017, NCCN Clinical Practice Guidelines in Oncology. <i>J Natl Compr Canc Netw</i> . 2017;15(9):1140-1163. doi:10.6004/jnccn.2017.0146	Duplicates
32	Avasthi A, Grover S, Sathyanarayana Rao TS. Clinical Practice Guidelines for Management of Sexual Dysfunction. <i>Indian J Psychiatry</i> . 2017;59(Suppl 1):S91-S115. doi:10.4103/0019-5545.196977	Duplicates
33	Burch HB, Perros P, Bednarczuk T, et al. Management of thyroid eye disease: a Consensus Statement by the American Thyroid Association and the European Thyroid Association. <i>Eur Thyroid J</i> . 2022;11(6):e220189. Published 2022 Dec 8. doi:10.1530/ETJ-22-0189	Duplicates
34	Vedantham S, Weinberg I, Desai KR, et al. Society of Interventional Radiology Position Statement on the Management of Chronic Iliofemoral Venous Obstruction with Endovascular Placement of Metallic Stents. <i>J Vasc Interv Radiol</i> . 2023;34(10):1643-1657.e6. doi:10.1016/j.jvir.2023.06.013	Duplicates
35	Sanchez-Rodriguez D, Bergmann P, Body JJ, et al. The Belgian Bone Club 2020 guidelines for the management of osteoporosis in postmenopausal women. <i>Maturitas</i> . 2020;139:69-89. doi:10.1016/j.maturitas.2020.05.006	Duplicates
36	Reyes BJ, Mendelson DA, Mujahid N, et al. Postacute Management of Older Adults Suffering an Osteoporotic Hip Fracture: A Consensus Statement From the International Geriatric Fracture Society. <i>Geriatr Orthop Surg Rehabil</i> . 2020;11:2151459320935100. Published 2020 Jul 16. doi:10.1177/2151459320935100	Duplicates

37	Compston J, Cooper A, Cooper C, et al. UK clinical guideline for the prevention and treatment of osteoporosis. <i>Arch Osteoporos</i> . 2017;12(1):43. doi:10.1007/s11657-017-0324-5	Duplicates
38	Tarantino U, Iolascon G, Cianferotti L, et al. Clinical guidelines for the prevention and treatment of osteoporosis: summary statements and recommendations from the Italian Society for Orthopaedics and Traumatology. <i>J Orthop Traumatol</i> . 2017;18(Suppl 1):3-36. doi:10.1007/s10195-017-0474-7	Duplicates
39	Hadji P, Aapro MS, Body JJ, et al. Management of Aromatase Inhibitor-Associated Bone Loss (AIBL) in postmenopausal women with hormone sensitive breast cancer: Joint position statement of the IOF, CABS, ECTS, IEG, ESCEO IMS, and SIOG. <i>J Bone Oncol</i> . 2017;7:1-12. Published 2017 Mar 23. doi:10.1016/j.jbo.2017.03.001	Duplicates
40	Beck BR, Daly RM, Singh MA, Taaffe DR. Exercise and Sports Science Australia (ESSA) position statement on exercise prescription for the prevention and management of osteoporosis. <i>J Sci Med Sport</i> . 2017;20(5):438-445. doi:10.1016/j.jsams.2016.10.001	Duplicates
41	Fletcher JA. Canadian Academy of Sport and Exercise Medicine position statement: osteoporosis and exercise. <i>Clin J Sport Med</i> . 2013;23(5):333-338. doi:10.1097/JSM.0000000000000002	Duplicates
42	Mendoza N, Sánchez-Borrego R, Villero J, et al. 2013 Up-date of the consensus statement of the Spanish Menopause Society on postmenopausal osteoporosis. <i>Maturitas</i> . 2013;76(1):99-107. doi:10.1016/j.maturitas.2013.05.021	Duplicates
43	Yeap SS, Hew FL, Lee JK, et al. The Malaysian Clinical Guidance on the management of postmenopausal osteoporosis, 2012: a summary. <i>Int J Rheum Dis</i> . 2013;16(1):30-40. doi:10.1111/1756-185x.12037	Duplicates
44	Shehata H, Elfituri A, Doumouchtsis SK, et al. FIGO Good Practice Recommendations on the use of progesterone in the management of recurrent first-trimester miscarriage. <i>Int J Gynaecol Obstet</i> . 2023;161 Suppl 1:3-16. doi:10.1002/ijgo.14717	Duplicates
45	Regan L, Rai R, Saravelos S, Li TC; Royal College of Obstetricians and Gynaecologists. Recurrent Miscarriage Green-top Guideline No. 17. <i>BJOG</i> . 2023;130(12):e9-e39. doi:10.1111/1471-0528.17515	Duplicates
46	Zucchini S, Tumini S, Scaramuzza AE, et al. Recommendations for recognizing, risk stratifying, treating, and managing children and adolescents with hypoglycemia. <i>Front Endocrinol (Lausanne)</i> . 2024;15:1387537. doi:10.3389/fendo.2024.1387537	Duplicates
47	Mei-Dan E, Jain V, Melamed N, et al. Guideline No. 428: Management of Dichorionic Twin Pregnancies. <i>J Obstet Gynaecol Can</i> . 2022;44(7):819-834.e1. doi:10.1016/j.jogc.2022.05.002	Duplicates
48	Shennan A, Suff N, Leigh Simpson J, et al. FIGO good practice recommendations on progestogens for prevention of preterm delivery. <i>Int J Gynaecol Obstet</i> . 2021;155(1):16-18. doi:10.1002/ijgo.13852	Duplicates
49	Metin ALTAY, Merih BAYRAM, Aydan BİRİ, et al. Guideline on preterm labor and delivery by the society of specialists in perinatology (perinatoloji uzmanları derneği-puder), Turkey. <i>J Clin Obstet Gynecol</i> . 2020;30(3):118-30. 10.5336/jcog.2020-78741	Duplicates
50	Berger R, Abele H, Bahlmann F, et al. Prevention and Therapy of Preterm Birth. Guideline of the DGGG, OEGGG and SGGG (S2k Level, AWMF Registry Number 015/025, February 2019) - Part 2 with Recommendations on the Tertiary Prevention of Preterm Birth and the Management of Preterm Premature Rupture of Membranes. <i>Geburtshilfe Frauenheilkd</i> . 2019;79(8):813- 833. doi:10.1055/a-0903-2735	Duplicates
51	Berger R, Abele H, Bahlmann F, et al. Prevention and Therapy of Preterm Birth. Guideline of the DGGG, OEGGG and SGGG (S2k Level, AWMF Registry Number 015/025, February 2019) - Part 1 with Recommendations on the Epidemiology, Etiology, Prediction, Primary and Secondary Prevention of Preterm Birth. <i>Geburtshilfe Frauenheilkd</i> . 2019;79(8):800-812. doi:10.1055/a-0903-2671	Duplicates
52	Palomba S, Viganò P, Chamayou S, et al. Diagnosis and management of infertility: NICE-adapted guidelines from the Italian Society of Human Reproduction. <i>Reprod Biol Endocrinol</i> . 2024;22(1):9. Published 2024 Jan 5. doi:10.1186/s12958-023-01179-2	Duplicates
53	Hoeger KM, Dokras A, Piltonen T. Update on PCOS: Consequences, Challenges, and Guiding Treatment. <i>J Clin Endocrinol Metab</i> . 2021;106(3):e1071-e1083. doi:10.1210/clinem/dgaa839	Duplicates

54	Practice Committee of the American Society for Reproductive Medicine. Electronic address: ASRM@asrm.org; Practice Committee of the American Society for Reproductive Medicine. Role of metformin for ovulation induction in infertile patients with polycystic ovary syndrome (PCOS): a guideline. <i>Fertil Steril</i> . 2017;108(3):426-441. doi:10.1016/j.fertnstert.2017.06.026	Duplicates
55	Moggetti P, Carmina E, De Leo V, et al. How to manage the reproductive issues of PCOS: a 2015 integrated endocrinological and gynecological consensus statement of the Italian Society of Endocrinology. <i>J Endocrinol Invest</i> . 2015;38(9):1025-1037. doi:10.1007/s40618-015-0274-y	Duplicates
56	Legro RS, Arslanian SA, Ehrmann DA, et al. Diagnosis and treatment of polycystic ovary syndrome: an Endocrine Society clinical practice guideline [published correction appears in <i>J Clin Endocrinol Metab</i> . 2021 May 13;106(6):e2462. doi: 10.1210/clinem/dgab248]. <i>J Clin Endocrinol Metab</i> . 2013;98(12):4565-4592. doi:10.1210/jc.2013-2350	Duplicates
57	Panidis D, Tziomalos K, Papadakis E, Kandaraki EA, Katsikis I. The guidelines issued by the European Society for Human Reproduction and Embryology and the American Society for Reproductive Medicine regarding the induction of ovulation with metformin in patients with the polycystic ovary syndrome potentially require reconsideration. <i>Hormones (Athens)</i> . 2013;12(2):192-200. doi:10.14310/horm.2002.1403	Duplicates
58	Teede HJ, Misso ML, Deeks AA, et al. Assessment and management of polycystic ovary syndrome: summary of an evidence-based guideline. <i>Med J Aust</i> . 2011;195(6):S65-S112. doi:10.5694/mja11.10915	Duplicates
59	Lecorguill� M, Camier A, Kadawathagedara M. Weight Changes, Nutritional Intake, Food Contaminants, and Supplements in Women of Childbearing Age, including Pregnant Women: Guidelines for Interventions during the Perinatal Period from the French National College of Midwives. <i>J Midwifery Womens Health</i> . 2022;67 Suppl 1:S135-S148. doi:10.1111/jmwh.13423	Duplicates
60	Magee LA, Smith GN, Bloch C, et al. Guideline No. 426: Hypertensive Disorders of Pregnancy: Diagnosis, Prediction, Prevention, and Management. <i>J Obstet Gynaecol Can</i> . 2022;44(5):547-571.e1. doi:10.1016/j.jogc.2022.03.002	Duplicates
61	Greiner R, de Vries E, Erdmann F, et al. European Code against Cancer 4th Edition: Ultraviolet radiation and cancer. <i>Cancer Epidemiol</i> . 2015;39 Suppl 1:S75-S83. doi:10.1016/j.canep.2014.12.014	Duplicates
62	Aboyans V, Ricco JB, Bartelink ML, et al. Editor's Choice–2017 ESC guidelines on the diagnosis and treatment of peripheral arterial diseases, in collaboration with the European Society for Vascular Surgery (ESVS). <i>European Journal of Vascular and Endovascular Surgery</i> . 2018 Mar 1;55(3):305-68.	Duplicates
63	Aboyans V, Ricco JB, Bartelink ML, et al. 2017 ESC guidelines on the diagnosis and treatment of peripheral arterial diseases, in collaboration with the European Society for Vascular Surgery (ESVS). <i>Kardiologia Polska (Polish Heart Journal)</i> . 2017;75(11):1065-160.	Duplicates
64	Greber-Platzer S, Haiden N, Hauer AC, et al. Combined vitamin D and vitamin K supplements for children and adolescents: benefit or risk? Recommendations of the nutrition committee of the Austrian Society for Pediatric and Adolescent Medicine (�GKJ). <i>Monatsschrift Kinderheilkunde</i> . 2021 Jul;169:649-53.	Not written in English
65	Uebach B, Krull E, Simon ST, et al. Leitliniengerechte Versorgung von Patienten mit malignen Wunden : Die neue S3-Leitlinie f�r Patienten mit einer nichtheilbaren Krebserkrankung [Guideline-based Care for patients with malignant lesions : The new S3 guideline for patients with incurable cancer]. <i>HNO</i> . 2022;70(3):167-178. doi:10.1007/s00106-022-01145-1	Not written in English
66	Park I, Kim JY, Lee H, et al. Draft Revision of Clinical Practice Guidelines for Varicose Veins-Treatment. <i>Annals of Phlebology</i> . 2020 Aug 31;18(2):29-36.	Not written in English
67	Kurm�z� İ, Bayram D�, Tamirci M, et al. The Contribution of Community Pharmacists to the Rational Management of Drug Use in Pregnancy: Practical Recommendations. <i>Journal of Literature Pharmacy Sciences</i> . 2018;7(3). doi:10.5336/pharmsci.2018-62398	Not written in English
68	Dedov, I. I., Mel'nichenko, G. A., Mokrysheva, N. G., Pigarova, E. A., et al. Draft federal clinical practice guidelines for the diagnosis, treatment, and prevention of vitamin D deficiency. <i>Osteoporosis and Bone Diseases</i> . 2022;24(4), 4-26. doi:10.14341/osteo12937	Not written in English
69	Duaso E, Casas A, Formiga F, et al. Unidades de prevenci�n de ca�das y de fracturas osteopor�ticas. Propuesta del Grupo de Osteoporosis, Ca�das y	Not written in English

	Fracturas de la Sociedad Española de Geriátría y Gerontología [Falls and osteoporotic fractures prevention units: proposed Osteoporosis, Falls and Fractures Group of the Spanish Society of Geriatrics and Gerontology] [published correction appears in Rev Esp Geriatr Gerontol. 2012 Jul;47(4):185]. Rev Esp Geriatr Gerontol. 2011;46(5):268-274. doi:10.1016/j.regg.2011.05.002	
70	Chinese Diabetes Society. Guideline for the prevention and treatment of type 2 diabetes mellitus in China (2020 edition).Zhonghua Shi Yong Nei Ke Za Zhi.2021,41(08):668-695.doi:10.19538/j.nk2021080106.	Not written in English
71	Rüsch D, Becke K, Eberhart LH, et al. Übelkeit und Erbrechen nach Operationen in Allgemeinanästhesie - Empfehlungen zur Risikoeinschätzung, Prophylaxe und Therapie [Postoperative nausea and vomiting (PONV) - recommendations for risk assessment, prophylaxis and therapy - results of an expert panel meeting]. Anasthesiol Intensivmed Notfallmed Schmerzther. 2011;46(3):158-170. doi:10.1055/s-0031-1274927.	Not written in English
72	Huyghe E, Cuzin B, Grellet L, et al. Recommandations pour le traitement de l'éjaculation précoce [Recommendations for the treatment of premature ejaculation]. Prog Urol. 2023;33(5):237-246. doi:10.1016/j.purol.2023.02.003	Not written in English
73	Qiu ML, Xie Y, Wang XH, et al. Practice guideline for patients with osteoporosis. Zhonghua Nei Ke Za Zhi. 2020;59(12):953-959. doi:10.3760/cma.j.cn112138-20200904-00792	Not written in English
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C: Exclusion lists (N = 79) based on full-text screen for Google & Scopus	
1 Hoeger KM, Dokras A, Piltonen T. Update on PCOS: Consequences, Challenges, and Guiding Treatment. <i>J Clin Endocrinol Metab.</i> 2021 Mar 8;106(3):e1071-e1083.	Review
2 Homer HA. Modern management of recurrent miscarriage. <i>Aust N Z J Obstet Gynaecol.</i> 2019 Feb;59(1):36-44.	Review
3 Russo, G.I., Serefoglu, E.C. Premature Ejaculation: 2020 Update. <i>Curr Sex Health Rep.</i> 2019; 11, 411–420.	Review
4 Goodfellow L, Care A, Alfievic Z. Controversies in the prevention of spontaneous preterm birth in asymptomatic women: an evidence summary and expert opinion. <i>BJOG.</i> 2021 Jan;128(2):177-194.	Expert opinion
5 Gunjan K, et al. Importance of Nutrition during the Gestation Period and Infant Development: A Nutrition Guide for Mother and Infant Health. <i>Journal of Namibian Studies</i> , 33 (2023): 4491–4513.	Review
6 Berger MM, Amrein K, Barazzoni R, Bindels L, Bretón I, Calder PC, Cappa S, Cuerda C, D'Amelio P, de Man A, Delzenne NM, Forbes A, Genton L, Gombart AF, Joly F, Laviano A, Matthys C, Phyo PP, Ravasco P, Serlie MJ, Shenkin A, Stoffel NU, Talwar D, van Zanten ARH. The science of micronutrients in clinical practice - Report on the ESPEN symposium. <i>Clin Nutr.</i> 2024 Jan;43(1):268-283.	No clear recommendations
7 Pilz S, März W, Cashman KD, Kiely ME, et al. Rationale and Plan for Vitamin D Food Fortification: A Review and Guidance Paper. <i>Front Endocrinol (Lausanne).</i> 2018 Jul 17;9:373.	Review
8 Cianferotti L, Bertoldo F, Bischoff-Ferrari HA, Bruyere O, Cooper C, Cutolo M, Kanis JA, Kaufman JM, Reginster JY, Rizzoli R, Brandi ML. Vitamin D supplementation in the prevention and management of major chronic diseases not related to mineral homeostasis in adults: research for evidence and a scientific statement from the European society for clinical and economic aspects of osteoporosis and osteoarthritis (ESCEO). <i>Endocrine.</i> 2017 May;56(2):245-261.	No clear recommendations
9 Melamed ML, Chonchol M, Gutiérrez OM, et al. The Role of Vitamin D in CKD Stages 3 to 4: Report of a Scientific Workshop Sponsored by the National Kidney Foundation. <i>Am J Kidney Dis.</i> 2018;72(6):834-845.	No clear recommendations
10 Li-Ru Chen, Yu-Tang Wen, Chih-Lin Kuo, Kuo-Hu Chen, Calcium and Vitamin D Supplementation on Bone Health: Current Evidence and Recommendations, <i>International Journal of Gerontology</i> , Volume 8, Issue 4, 2014, Pages 183-188.	Review
11 Fernandez MA, Griffin XL, Costa ML. Management of hip fracture. <i>Br Med Bull.</i> 2015;115(1):165-172.	Review
12 Lewiecki EM, Bilezikian JP, Bonewald L, et al. Osteoporosis update: proceedings of the 2013 Santa Fe Bone Symposium. <i>J Clin Densitom.</i> 2014;17(3):330-343.	Expert opinion
13 Tiedemann A, Sherrington C, Close JC, Lord SR; Exercise and Sports Science Australia. Exercise and Sports Science Australia position statement on exercise and falls prevention in older people. <i>J Sci Med Sport.</i> 2011;14(6):489-495.	No clear recommendations
14 Masud T, Binkley N, Boonen S, Hannan MT; FRAX(®) Position Development Conference Members. Official Positions for FRAX® clinical regarding falls and frailty: can falls and frailty be used in FRAX®? From Joint Official Positions Development Conference of the International Society for Clinical Densitometry and International Osteoporosis Foundation on FRAX®. <i>J Clin Densitom.</i> 2011;14(3):194-204.	No clear recommendations
15 R. Rizzoli. Management of the oldest old with osteoporosis. <i>European Geriatric Medicine</i> , Volume 1, Issue 1, February 2010, Pages 15-21.	Review
16 Liu CK, Fielding RA. Exercise as an intervention for frailty. <i>Clin Geriatr Med.</i> 2011;27(1):101-110.	Review
17 Johnson MA, Kimlin MG, Porter KN. Vitamin D and Injury Prevention. <i>American Journal of Lifestyle Medicine.</i> 2010;4(1):21-24.	Review
18 Hensley PJ, Seiler R, Herr H, et al. Bladder preservation after neoadjuvant therapy - 2021 IBCN updates part 1. <i>Urol Oncol.</i> 2023;41(7):307-312.	Review

19	Sinha S, Sreedharan S. Management of venous leg ulcers in general practice - a practical guideline. <i>Aust Fam Physician</i> . 2014;43(9):594-598.	Expert Opinion
20	Lim CS, Baruah M, Bahia SS. Diagnosis and management of venous leg ulcers. <i>BMJ</i> . 2018;362:k3115.	Opinion
21	Franks PJ, Barker J, Collier M, et al. Management of Patients With Venous Leg Ulcers: Challenges and Current Best Practice. <i>J Wound Care</i> . 2016;25 Suppl 6:S1-S67.	No clear recommendations
22	Clark M, Adcock L. Honey for Wound Management: A Review of Clinical Effectiveness and Guidelines. Ottawa (ON): Canadian Agency for Drugs and Technologies in Health; November 6, 2018.	Review of guidelines
23	Kovac AL. Update on the management of postoperative nausea and vomiting. <i>Drugs</i> . 2013;73(14):1525-1547.	No clear recommendations
24	Tsao CW, Aday AW, Almarzooq ZI, et al. Heart Disease and Stroke Statistics-2023 Update: A Report From the American Heart Association [published correction appears in <i>Circulation</i> . 2023 Feb 21;147(8):e622.	Statistics summarizing
25	Martin SS, Aday AW, Almarzooq ZI, et al. 2024 Heart Disease and Stroke Statistics: A Report of US and Global Data From the American Heart Association [published correction appears in <i>Circulation</i> . 2024 May 7;149(19):e1164.	Statistics summarizing
26	Kanis JA, McCloskey EV, Johansson H, et al. European guidance for the diagnosis and management of osteoporosis in postmenopausal women. <i>Osteoporos Int</i> . 2013;24(1):23-57.	Review
27	Howe TE, Skelton DA. Consensus on core outcome measures of function are needed to progress our knowledge of 'best practice' exercise components for older people. <i>Age Ageing</i> . 2011;40(5):532-533.	Opinion
28	CCAUEPK Position Statement. The Role of Kinesiologists and the Promotion of Physical Activity and Exercise in the Canadian Health Care System.	No clear recommendations
29	Elisabeth Robson. Cost and impact for different degrees of implementation of the S3-guideline on osteoporosis in Germany (Master Thesis).	Original research
30	Practice Committees of the American Society for Reproductive Medicine and the Society for Reproductive Endocrinology and Infertility. Diagnosis and treatment of luteal phase deficiency: a committee opinion. <i>Fertil Steril</i> . 2021;115(6):1416-1423.	Opinion
31	Palomba S, Viganò P, Chamayou S, et al. Diagnosis and management of infertility: NICE-adapted guidelines from the Italian Society of Human Reproduction. <i>Reprod Biol Endocrinol</i> . 2024;22(1):9.	Review
32	Hoeger KM, Dokras A, Piltonen T. Update on PCOS: Consequences, Challenges, and Guiding Treatment. <i>J Clin Endocrinol Metab</i> . 2021;106(3):e1071-e1083.	Review
33	Coomarasamy A, Dhillon-Smith RK, Papadopoulou A, et al. Recurrent miscarriage: evidence to accelerate action. <i>Lancet</i> . 2021;397(10285):1675-1682.	Review
34	Bahri Khomami M, Teede HJ, Joham AE, Moran LJ, Piltonen TT, Boyle JA. Clinical management of pregnancy in women with polycystic ovary syndrome: An expert opinion. <i>Clin Endocrinol (Oxf)</i> . 2022;97(2):227-236.	Opinion
35	Panidis D, Tziomalos K, Papadakis E, Kandaraki EA, Katsikis I. The guidelines issued by the European Society for Human Reproduction and Embryology and the American Society for Reproductive Medicine regarding the induction of ovulation with metformin in patients with the polycystic ovary syndrome potentially require reconsideration. <i>Hormones (Athens)</i> . 2013;12(2):192-200.	Opinion
36	Gnanapragasam V, Hori S, Johnston T, et al. Clinical management and research priorities for high-risk prostate cancer in the UK: Meeting report of a multidisciplinary panel in conjunction with the NCRI Prostate Cancer Clinical Studies Localised Subgroup. <i>Journal of Clinical Urology</i> . 2016;9(6):369-379.	No clear recommendations
37	Giustina A, Bouillon R, Binkley N, Sempos C, Adler RA, Bollerslev J, Dawson-Hughes B, Ebeling PR, Feldman D, Heijboer A, Jones G, Kovacs CS, Lazaretti-Castro M, Lips P, Marcocci C, Minisola S, Napoli N, Rizzoli R, Scragg R, White JH, Formenti AM, Bilezikian JP. Controversies in Vitamin D: A Statement From the Third International Conference. <i>JBM Plus</i> . 2020 Nov 10;4(12):e10417.	A summary of key points

38	Greinert R, de Vries E, Erdmann F, Espina C, Auvinen A, Kesminiene A, Schüz J. European Code against Cancer 4th Edition: Ultraviolet radiation and cancer. <i>Cancer Epidemiol.</i> 2015 Dec;39 Suppl 1:S75-83.	Review
39	Giustina A, Bilezikian JP, Adler RA, Banfi G, Bikle DD, Binkley NC, Bollerslev J, Bouillon R, Brandi ML, Casanueva FF, di Filippo L, Donini LM, Ebeling PR, Fuleihan GE, Fassio A, Frara S, Jones G, Marcocci C, Martineau AR, Minisola S, Napoli N, Procopio M, Rizzoli R, Schafer AL, Semplos CT, Ulivieri FM, Virtanen JK. Consensus Statement on Vitamin D Status Assessment and Supplementation: Whys, Whens, and Hows. <i>Endocr Rev.</i> 2024 Apr 27;bnæ009.	Discussion
40	Cappola AR, Auchus RJ, El-Hajj Fuleihan G, Handelsman DJ, Kalyani RR, McClung M, Stuenkel CA, Thorner MO, Verbalis JG. Hormones and Aging: An Endocrine Society Scientific Statement. <i>J Clin Endocrinol Metab.</i> 2023 Jul 14;108(8):1835-1874.	No clear recommendations
41	Harvey NC, Biver E, Kaufman JM, Bauer J, Branco J, Brandi ML, Bruyère O, Coxam V, Cruz-Jentoft A, Czerwinski E, Dimai H, Fardellone P, Landi F, Reginster JY, Dawson-Hughes B, Kanis JA, Rizzoli R, Cooper C. The role of calcium supplementation in healthy musculoskeletal ageing : An expert consensus meeting of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the International Foundation for Osteoporosis (IOF). <i>Osteoporos Int.</i> 2017 Feb;28(2):447-462	No clear recommendations
42	Harvey NC, Biver E, Kaufman JM, Bauer J, Branco J, Brandi ML, Bruyère O, Coxam V, Cruz-Jentoft A, Czerwinski E, Dimai H, Fardellone P, Landi F, Reginster JY, Dawson-Hughes B, Kanis JA, Rizzoli R, Cooper C. The role of calcium supplementation in healthy musculoskeletal ageing : An expert consensus meeting of the European Society for Clinical and Economic Aspects of Osteoporosis, Osteoarthritis and Musculoskeletal Diseases (ESCEO) and the International Foundation for Osteoporosis (IOF). <i>Osteoporos Int.</i> 2017 Feb;28(2):447-462.	Duplicate
43	Australian and New Zealand Society for Geriatric Medicine. Australian and New Zealand Society for Geriatric Medicine: Position Statement--Exercise guidelines for older adults. <i>Australas J Ageing.</i> 2014 Dec;33(4):287-94.	No clear recommendations
44	Body JJ, Bergmann P, Boonen S, Boutsen Y, Bruyere O, Devogelaer JP, Goemaere S, Hollevoet N, Kaufman JM, Milisen K, Rozenberg S, Reginster JY. Non-pharmacological management of osteoporosis: a consensus of the Belgian Bone Club. <i>Osteoporos Int.</i> 2011 Nov;22(11):2769-88.	No clear recommendations
45	Fairhall N, Langron C, Sherrington C, Lord SR, Kurrle SE, Lockwood K, Monaghan N, Aggar C, Gill L, Cameron ID. Treating frailty--a practical guide. <i>BMC Med.</i> 2011 Jul 6;9:83. doi: 10.1186/1741-7015-9-83.	Review
46	International Wound Infection Institute. IWII Wound Infection in Clinical Practice. https://woundinfection-institute.com/wp-content/uploads/IWII-CD-2022-web.pdf	No clear recommendations
47	Songpatanasilp T, Sritara C, Kittisomprayoonkul W, Chaiumnunay S, Nimitphong H, Charatcharoenwitthaya N, Pongchaiyakul C, Namwongphrom S, Kitumnunaypong T, Srikam W, Dajpratham P, Kuptniratsaikul V, Jaisamrarn U, Tachatraisak K, Rojanasthien S, Damrongwanich P, Wajanavisit W, Pongprapai S, Ongphiphadhanakul B, Taechakraichana N. Thai Osteoporosis Foundation (TOPF) position statements on management of osteoporosis. <i>Osteoporos Sarcopenia.</i> 2016 Dec;2(4):191-207.	No clear recommendations
48	Guidelines on the Management of Co-occurring Alcohol and Other Drug and Mental Health Conditions in Alcohol and Other Drug Treatment Settings.	No clear recommendations
49	Falls - Prevention of Falls and Harm from Falls among Older People: 2011-2015. New South Wales Government.	Government policy
50	Burté C, Cuzin B, Grellet L, et al. Clinical recommendations of the AIUS for the management of premature ejaculation. <i>Sexologies</i> , 2024, 33(2): 72-96.	No full-text
51	Toro Merlo J, Pérez Alonso M M. Consenso Anticoncepción Hormonal. Actualización 2023. Capítulo 4. Situaciones especiales en obstetricia y ginecología[J]. <i>Revista de Obstetricia y Ginecología de Venezuela</i> , 2024, 84: 61-83.	Not written by English
52	Vidal F, Paret L, Linet T, et al. Contraception intra-utérine. RPC Contraception CNGOF. <i>Gynécologie Obstétrique Fertilité & Sénologie</i> , 2018, 46(12): 806-822.	Not written by English

53	Suker A, Li Y, Robson D, Marren A; Australasian CREI (Certificate of Reproductive Endocrinology and Infertility) Consensus Expert Panel on Trial Evidence (ACCEPT) Group. Australasian recurrent pregnancy loss clinical management guideline 2024, part II. <i>Aust N Z J Obstet Gynaecol.</i> 2024;64(5):445-458.	Duplicate
54	Ghiassi S, Nimeri A, Aleassa EM, et al. American Society for Metabolic and Bariatric Surgery position statement on one-anastomosis gastric bypass. <i>Surg Obes Relat Dis.</i> 2024;20(4):319-335.	Duplicate
55	Practice Committee of the American Society for Reproductive Medicine. Electronic address: ASRM@asrm.org; Practice Committee of the American Society for Reproductive Medicine. Role of metformin for ovulation induction in infertile patients with polycystic ovary syndrome (PCOS): a guideline. <i>Fertil Steril.</i> 2017;108(3):426-441.	Duplicate
56	Costello MF, Misso ML, Balen A, et al. Evidence summaries and recommendations from the international evidence-based guideline for the assessment and management of polycystic ovary syndrome: assessment and treatment of infertility. <i>Hum Reprod Open.</i> 2019;2019(1):hoy021.	Duplicate
57	Malik S, Verma S, Jain K, Talwar P, Dhorepatil B, Devi G, et al. Good clinical practice recommendations on management of infertility in patients from India with polycystic ovary syndrome. <i>Fertil Sci Res</i> 2015;2:107-32.	Duplicate
58	ESHRE Add-ons working group, Lundin K, Bentzen JG, et al. Good practice recommendations on add-ons in reproductive medicine†. <i>Hum Reprod.</i> 2023;38(11):2062-2104.	Duplicate
59	Guideline Group on Unexplained Infertility, Romualdi D, Ata B, et al. Evidence-based guideline: unexplained infertility†. <i>Hum Reprod.</i> 2023;38(10):1881-1890.	Duplicate
60	ESHRE Add-ons working group, Lundin K, Bentzen JG, et al. Good practice recommendations on add-ons in reproductive medicine†. <i>Hum Reprod.</i> 2023;38(11):2062-2104.	Duplicate
61	Shaulov T, Sierra S, Sylvestre C. Recurrent implantation failure in IVF: A Canadian Fertility and Andrology Society Clinical Practice Guideline. <i>Reprod Biomed Online.</i> 2020;41(5):819-833.	Duplicate
62	FSRH Guideline (March 2023) Intrauterine contraception. <i>BMJ Sex Reprod Health.</i> 2023;49(Suppl 1):1-142.	Duplicate
63	FSRH Guideline (March 2023) Intrauterine contraception. <i>BMJ Sex Reprod Health.</i> 2023;49(Suppl 1):1-142.	Duplicate
64	Manchikanti L, Kaye AM, Knezevic NN, et al. Responsible, Safe, and Effective Prescription of Opioids for Chronic Non-Cancer Pain: American Society of Interventional Pain Physicians (ASIPP) Guidelines. <i>Pain Physician.</i> 2017;20(2S):S3-S92.	Duplicate
65	Mercado MG, Smith DK, Guard EL. Acute Kidney Injury: Diagnosis and Management. <i>Am Fam Physician.</i> 2019;100(11):687-694.	Review
66	Perner A, Cecconi M, Cronhjort M, et al. Expert statement for the management of hypovolemia in sepsis. <i>Intensive Care Med.</i> 2018;44(6):791-798.	Review
67	Argenziano G, Ardigò M, Micali G, et al. Review - Expert Opinion on Antibiotics and Antibiotic Resistance in Dermatology. <i>Dermatol Pract Concept.</i> 2024;14(4):e2024282.	Review
68	Abu-Musa A, Haahr T, Humaidan P. Novel Physiology and Definition of Poor Ovarian Response; Clinical Recommendations. <i>Int J Mol Sci.</i> 2020;21(6):2110.	Review
69	Qureshi R N. Evidence-based recommendations for clinical practice (future directions: Research and practice)[M]//Polycystic Ovary Syndrome. Elsevier, 2024: 181-184.	Book Chapter
70	Baker CC, Creinin MD. Long-Acting Reversible Contraception. <i>Obstet Gynecol.</i> 2022;140(5):883-897.	Review
71	Hoopes AJ, Simmons KB, Godfrey EM, Sucato GS. 2016 Updates to US Medical Eligibility Criteria for Contraceptive Use and Selected Practice Recommendations for Contraceptive Use: Highlights for Adolescent Patients. <i>J Pediatr Adolesc Gynecol.</i> 2017;30(2):149-155.	Discussion paper

72	Manchikanti L, Hirsch JA. An update on the management of chronic lumbar discogenic pain. <i>Pain Manag.</i> 2015;5(5):373-386.	Review
73	Müller D, Keller B, Ferrante A N, et al. Therapy for Musculoskeletal Pain. <i>International Journal of General Practice Nursing</i> , 2023, 1(1): 22-35.	Discussion paper
74	Auckburally, Adam, Ilaria Petruccione, and Sarah Voss. Providing fluid therapy to equine colic patients. Part 1. <i>In Practice</i> 41.9 (2019): 445-454.	Discussion paper
75	Peng Z, Yu K, Ostermann M, et al. Pragmatic studies for acute kidney injury: Consensus report of the Acute Disease Quality Initiative (ADQI) 19 Workgroup. <i>J Crit Care.</i> 2018;44:337-344.	Not CPGs
76	Buckett W, Sierra S. The management of unexplained infertility: an evidence-based guideline from the Canadian Fertility and Andrology Society. <i>Reprod Biomed Online.</i> 2019;39(4):633-640.	Duplicate
77	Regan L, Rai R, Saravelos S, Li TC; Royal College of Obstetricians and Gynaecologists. Recurrent Miscarriage Green-top Guideline No. 17. <i>BJOG.</i> 2023;130(12):e9-e39.	Duplicate
78	Suker A, Li Y, Robson D, Marren A; Australasian CREI (Certificate of Reproductive Endocrinology and Infertility) Consensus Expert Panel on Trial Evidence (ACCEPT) Group. Australasian recurrent pregnancy loss clinical management guideline 2024, part II. <i>Aust N Z J Obstet Gynaecol.</i> 2024;64(5):445-458.	Duplicate
79	Shindel AW, Althof SE, Carrier S, Chou R, McMahon CG, Mulhall JP, Paduch DA, Pastuszak AW, Rowland D, Tapscott AH, Sharlip ID. Disorders of Ejaculation: An AUA/SMSNA Guideline. <i>J Urol.</i> 2022 Mar;207(3):504-512.	Duplicate
80	Buckett W, Sierra S. The management of unexplained infertility: an evidence-based guideline from the Canadian Fertility and Andrology Society. <i>Reprod Biomed Online.</i> 2019 Oct;39(4):633-640.	Duplicate

Data extraction and replication of meta-analyses

For the metadata of each ‘contaminated’ meta-analyses, we recruited student volunteers for the data extraction based on pre-designed data extraction forms in Excel (Microsoft, version 2016) in terms of the data type. All recruited student volunteers were trained for two rounds, and only those who achieved an accuracy of 90% and above in both rounds of training were allowed to participate in the formal data extraction. After the training, 60 student volunteers met the accuracy criteria, with 27 in group one and 33 in group two, who extracted the metadata independently. The following data type were considered to design the data extraction forms: i) binary outcomes composed of 2 by 2 table data, which refers to *Binary-Type 1*, ii) binary outcomes composed of effect sizes and confidence intervals, which refers to *Binary-Type 2*, iii) binary outcomes composed of effect sizes and standard errors, which refers to *Binary-Type 3*, iv) continuous outcomes composed of 2 by 3 table data, which refers to *Continuous-Type 1*, v) continuous outcomes composed of effect sizes and confidence intervals, which refers to *Continuous-Type 2*, and vi) continuous outcomes composed of effect sizes and standard errors, which refers to *Continuous-Type 3*. For Cochrane reviews, the data file was downloaded automatically via the .rm5 files.

Replication of the meta-analyses that incorporated retracted trials was conducted by three methodologists (CX, SQF, and YT) of evidence synthesis. This was done in two steps. We first used the same data of the original meta-analyses with the same methods and effect estimate to replicate the results, and when we were able to obtain the same results as the original meta-analysis, we excluded retracted trials and re-did the analysis under the same settings, manually or through semi-automated programming steps that we wrote. For the six pre-defined data type, the one of ‘*Binary-Type 3*’ did not occurs in any of the meta-analyses, and therefore, the rest five were applied to formulate the data extraction. The *Binary-Type 1* data was replicated manually, because of the methods used for odds ratio, risk ratio were abundant and differs a lot, for example, the classical odds ratio, the peto odds ratio. The Comprehensive meta-analysis software was used for the replication of this type of data. For the other four, the Stata 16.0/SE was used for the replication by self-written programs. For Cochrane reviews, the replication was done by RevMan 5.4. For those meta-analyses with the original results cannot be replicated in any of the above situations, the lead author use Stata 16.0/SE and applies all existing methods for the relevant data type to re-check whether the methods reported in the original systematic reviews were incorrect. The programs for the replication could be obtained upon request.

Number of studies and the extent of impact on the results

Figures S2 to S4 present the relationship between the number of trials and the proportion that changed direction, significance, or magnitude. We noticed that beyond 20 included studies, there was not much change for either direction (1.5%, 7/455), significance (5.9%, 27/455) or magnitude (2.6%, 12/455), implying that the impact of retracted trials was more evident when the number of studies in a meta-analysis was below 20. Therefore, we took the reference odds for this analysis to be the meta-analyses with 20 or more studies.

Our regression analysis suggested that, compared to meta-analyses with 20 or more studies, for a change in the direction of effect, the OR for 15 studies was 1.54 (95%CI: 0.99 to 2.40, $P = 0.06$), for 10 studies was 2.63 (95%CI: 1.29 to 5.38, $P < 0.01$), for 5 studies was 5.45 (95%CI: 2.66 to 11.16, $P < 0.01$), and for 2 studies was 9.18 (95%CI: 4.59 to 18.33, $P < 0.01$), Figure S2. For change in the significance, the OR for 15 studies was 0.92 (95%CI: 0.72 to 1.18, $P = 0.51$), for 10 studies was 1.17 (95%CI: 0.79 to 1.72, $P = 0.43$), for 5 studies was 2.72 (95%CI: 1.88 to 3.95, $P < 0.01$), and for 2 studies was 5.89 (95%CI: 4.08 to 8.52, $P < 0.01$), Figure S3. For the magnitude of the effects that changed 50% or more, the OR for 15 studies was 1.13 (95%CI: 0.80 to 1.59, $P = 0.49$), for 10 studies was 1.92 (95%CI: 1.10 to 3.34, $P = 0.02$), for 5 studies was 7.27 (95%CI: 4.16 to 12.69, $P < 0.01$), and for 2 studies was 22.73 (95%CI: 13.09 to 39.48, $P < 0.01$), Figure S4. The non-linearity tests (Wald test) suggested that there was a non-linear relationship between the number of studies and the likelihood of the change in the direction of the effects ($P < 0.01$), significance of the p-value ($P < 0.01$), and magnitude of the effects ($P < 0.01$). When stratifying by the proportion of retracted trials within each meta-analysis, similar trends were observed (supplementary Figure S5 to S7).

Supplementary Figure S1. Number of retractions of trials by year and the year of publication of the trials.

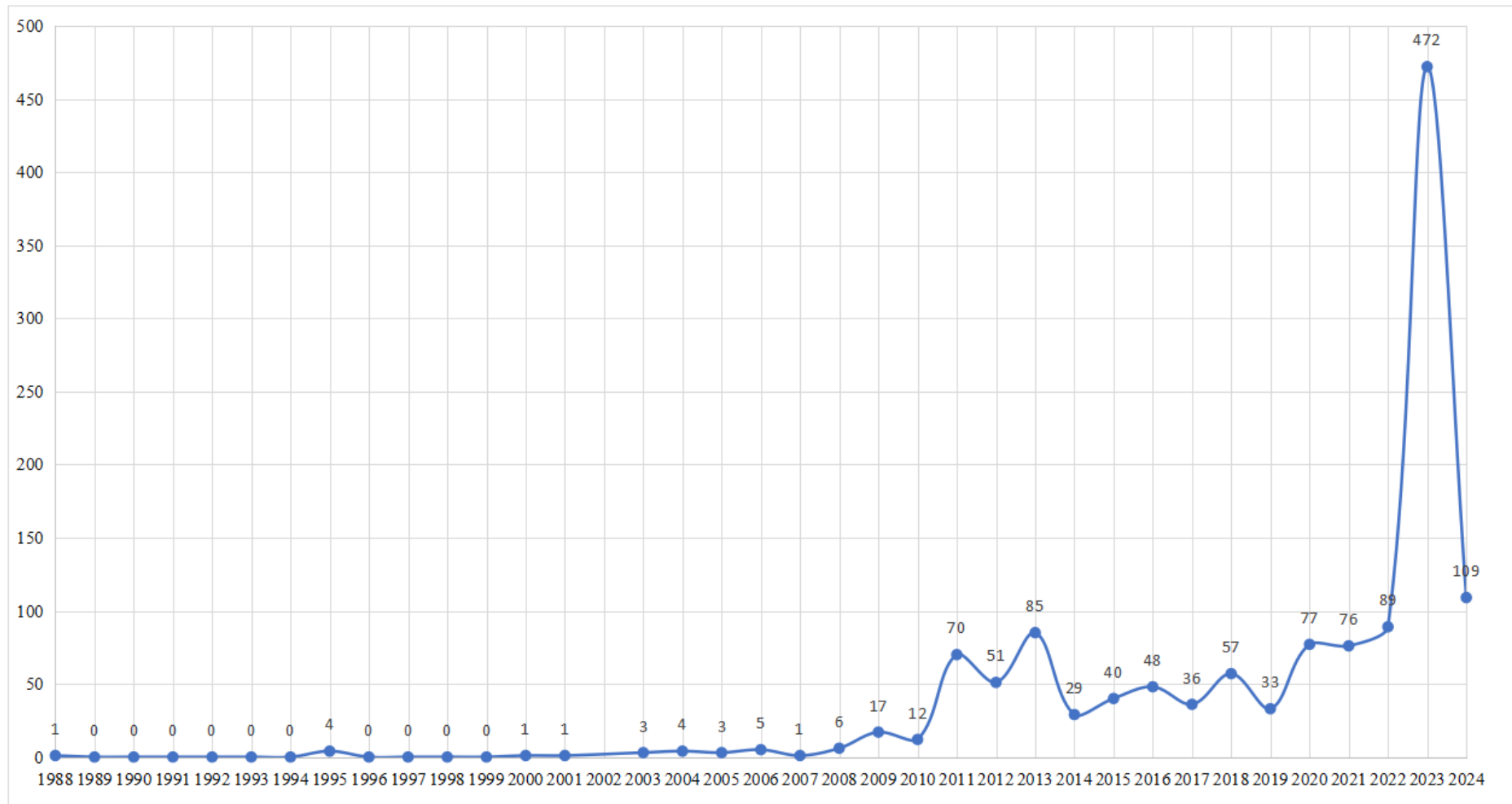


Figure S2. Number of included studies and the likelihood of meta-analyses that had the direction of the effects being changed.

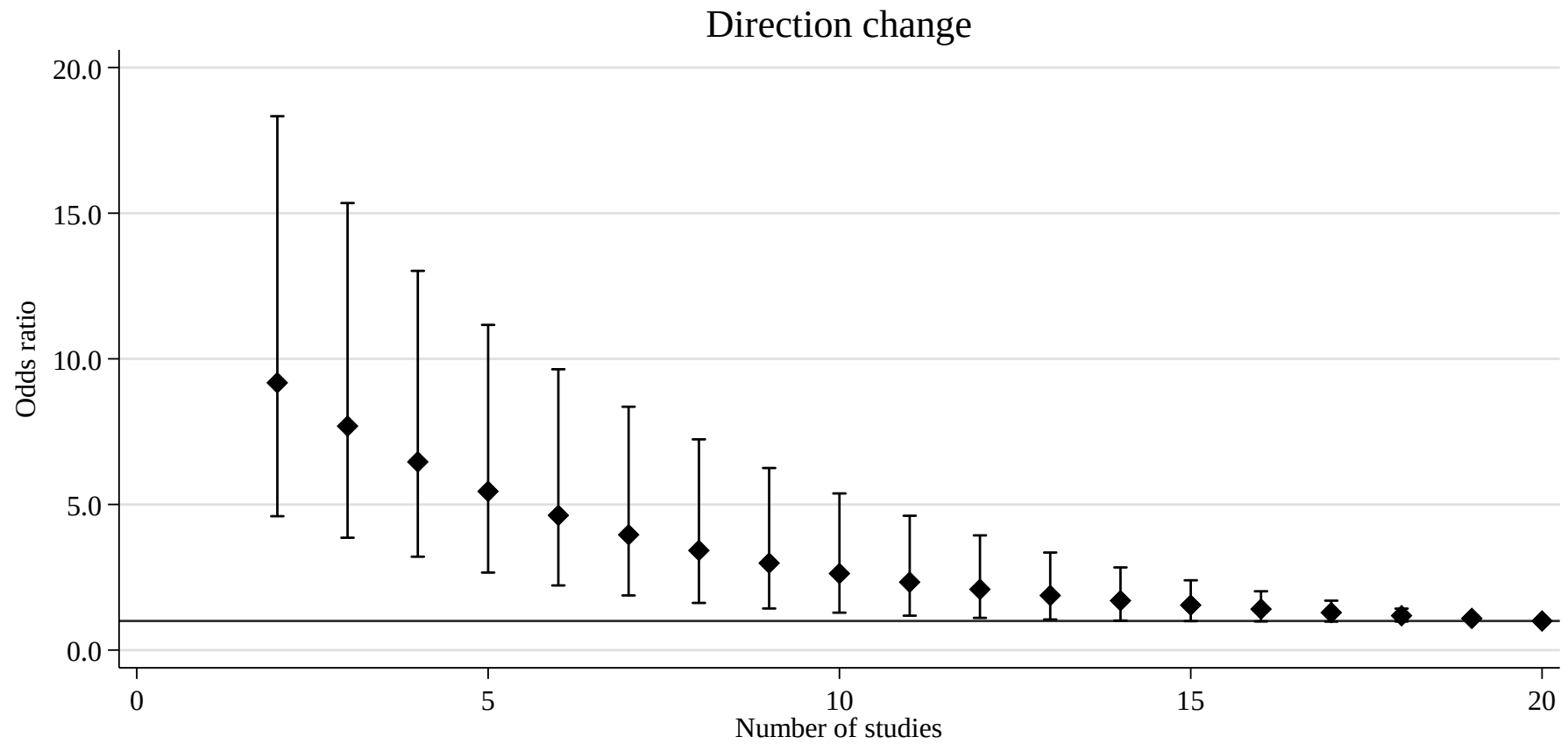


Figure S3. Number of included studies and the likelihood of meta-analyses that had the significance of p-value being changed.

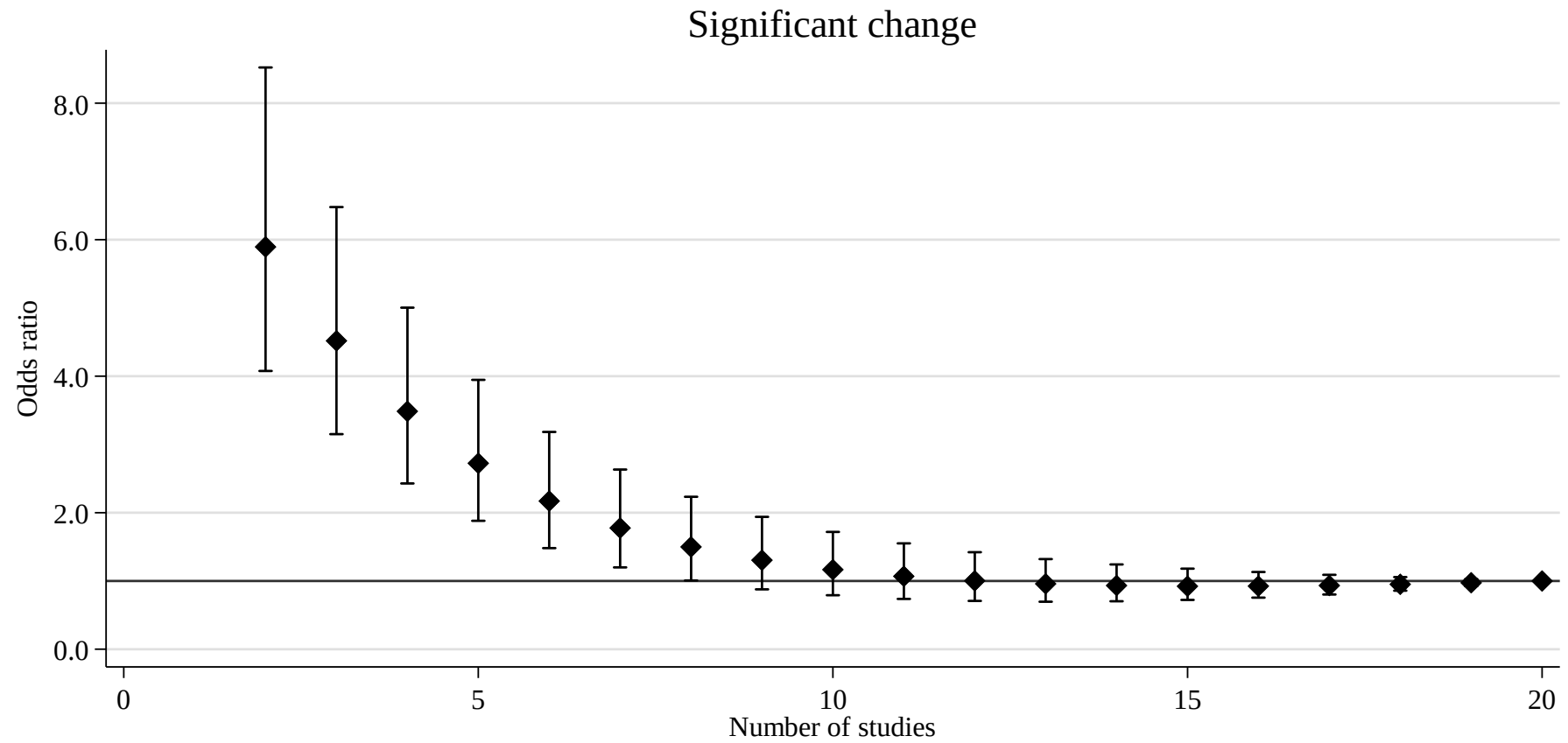


Figure S4. Number of included studies and the likelihood of meta-analyses that had the magnitude being changed by 50% and above.

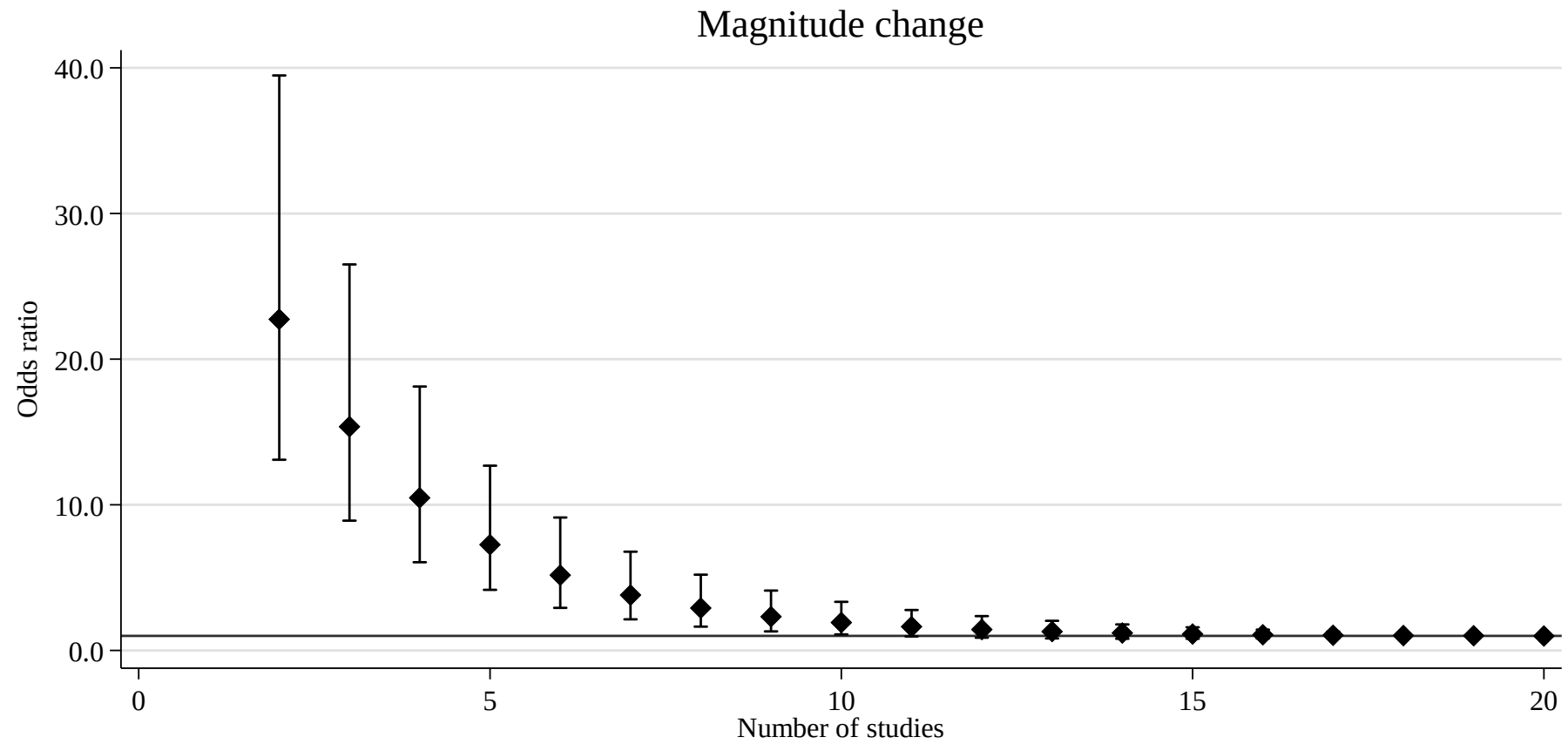


Figure S5. Number of included studies and the likelihood of meta-analyses that had the direction of the effects being changed, after adjusting the proportion of retractions by stratification.

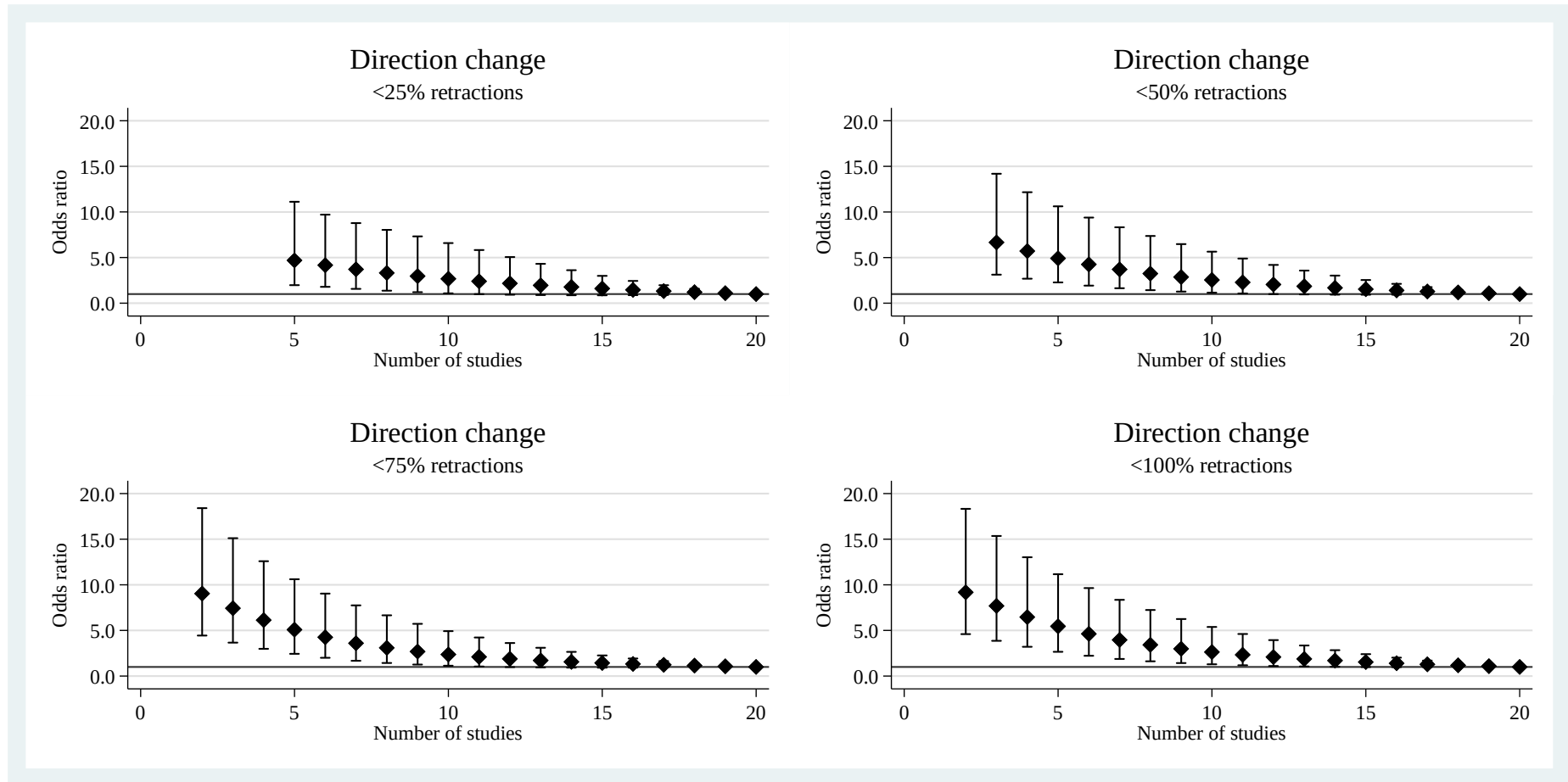


Figure S6. Number of included studies and the likelihood of meta-analyses that had the significance of p -value being changed, after adjusting the proportion of retractions by stratification.

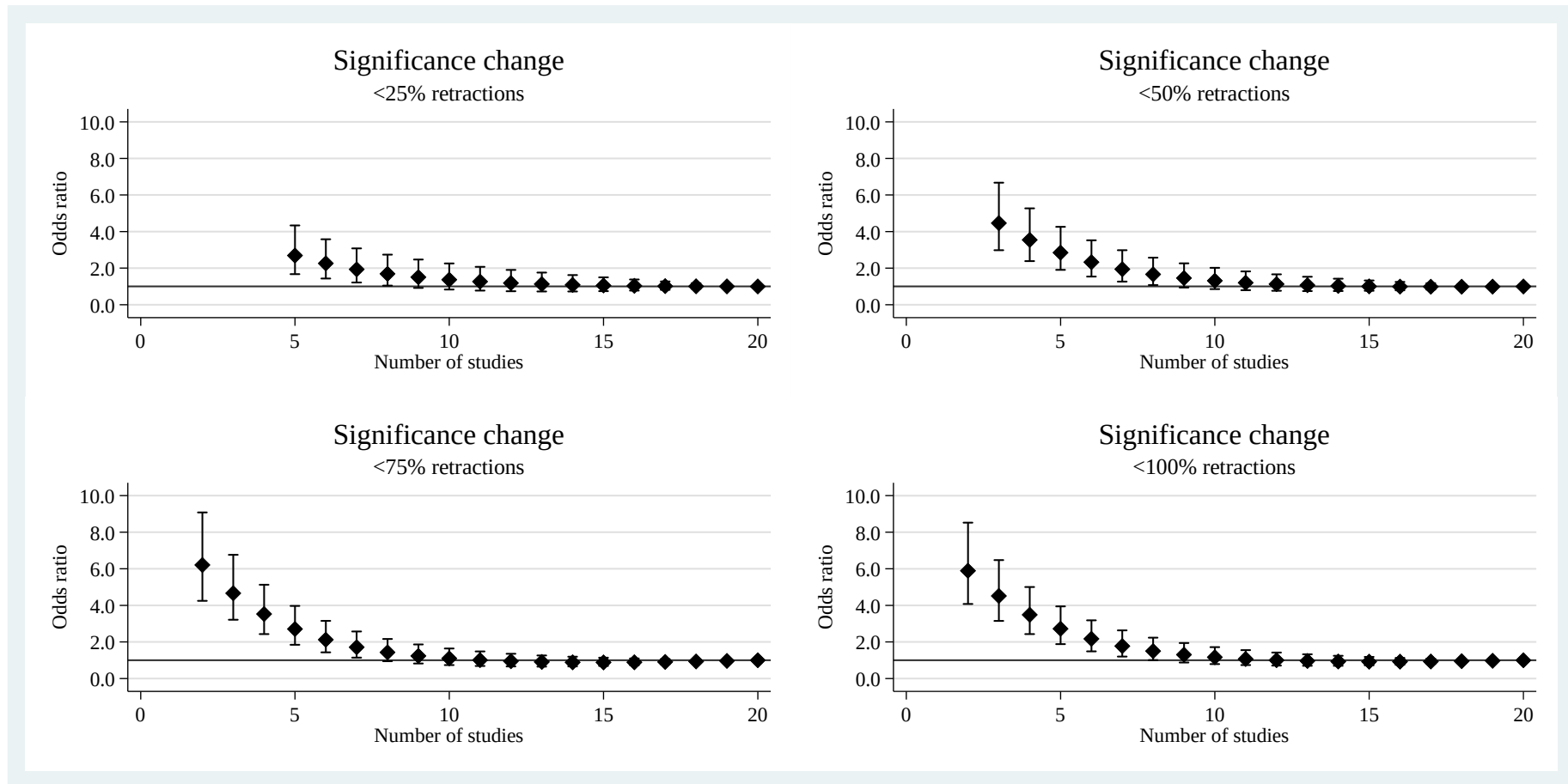
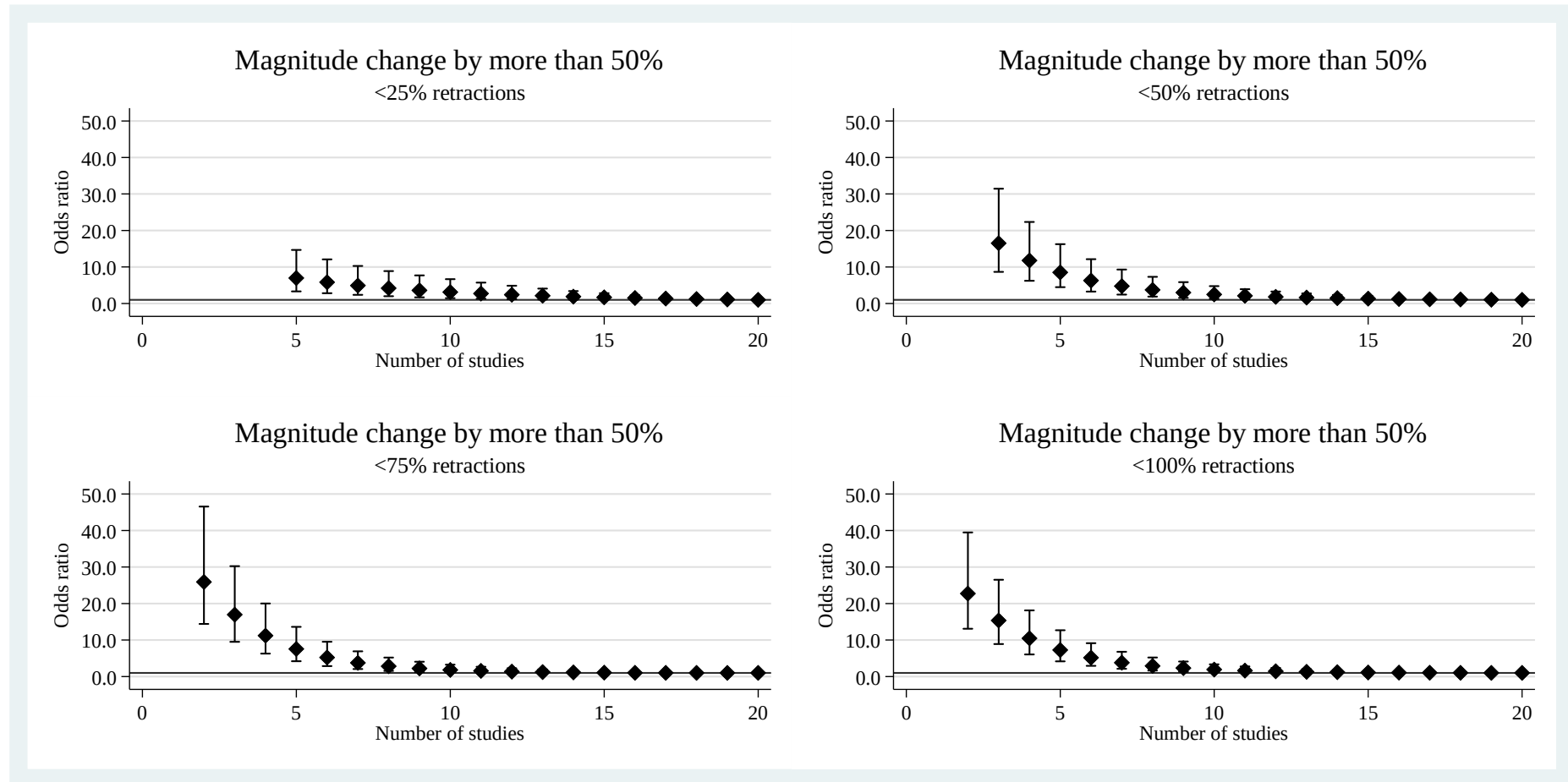


Figure S7. Number of included studies and the likelihood of meta-analyses that had the magnitude being changed by more than 50%, after adjusting the proportion of retractions by stratification.



Supplementary Figure S8. Guideline screen for the titles/topics of 68 systematic reviews that substantially impacted.

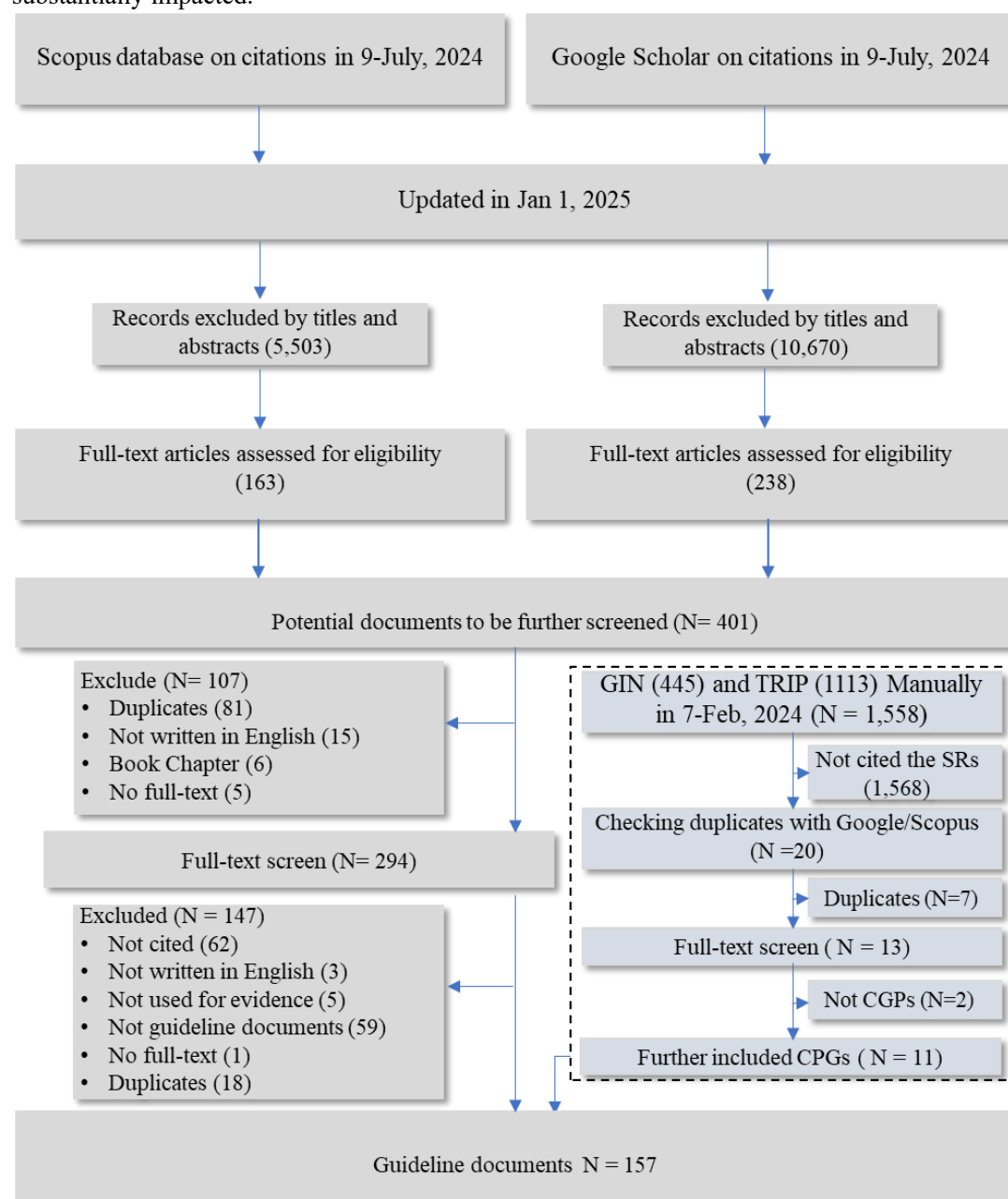


Table S8. Guideline documents that used evidence from the 69 systematic reviews which with the results of at least one meta-analyses substantially impacted.

Guideline ID	Citations	Year	Organizations	Category
1	Reinhart K, Perner A, Sprung CL, Jaeschke R, Schortgen F, Johan Groeneveld AB, Beale R, Hartog CS; European Society of Intensive Care Medicine. Consensus statement of the ESICM task force on colloid volume therapy in critically ill patients. <i>Intensive Care Med.</i> 2012 Mar;38(3):368-83.	2012	European Society of Intensive Care Medicine	Consensus
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106	Scottish Intercollegiate Guidelines Network (SIGN). Management of osteoporosis and the prevention of fragility fractures. Edinburgh: SIGN; 2021. (SIGN publication no. 142). [January 2021]. Available from URL: http://www.sign.ac.uk	2021	Scottish Intercollegiate Guidelines Network	Guideline
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118	KDOQI US commentary on the 2012 KDIGO clinical practice guideline for acute kidney injury. Am J Kidney Dis. 2013 May;61(5):649-72.	2013	Kidney Disease: Improving Global Outcomes (International Initiative)	Guideline
119	Optimization of kidney function in cardiac surgery patients with intra-abdominal hypertension: expert opinion. Perioper Med (Lond). 2024 Jul 12;13(1):72.	2024	Experts from USA	Opinion
120	Perioperative fluid management and outcomes in adult deceased donor liver transplantation - A systematic review of the literature and expert panel recommendations. Clin Transplant. 2022 Oct;36(10): e14651.	2022	ERAS4OLT Scientific Committee	Guideline
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126	International evidence-based guideline for the assessment and management of polycystic ovary syndrome 2018	2018	Australasian National Health and Medical Research Council	Guideline

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129	Chinese Expert Consensus on the Management of Non-Blood Hemostatic Drugs During Perioperative Period. Chinese Journal of Hospital Pharmacy, 2024, 44(5): 485-494	2024	The Pharmacovigilance Committee of Guangdong Pharmaceutical Association	Consensus
130	Fetal death: Expert consensus of the French College of Obstetricians and Gynecologists. Int J Gynaecol Obstet. 2024 Dec 10.	2024	French College of Obstetricians and Gynecologists	Consensus
131	Consensus Statement on Vitamin D Status Assessment and Supplementation: Whys, Whens, and Hows. Endocr Rev. 2024 Sep 12;45(5):625-654.	2024	International experts	Consensus
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134	Wound, Pressure Ulcer, and Burn Guidelines-5: Guidelines for the management of lower leg ulcers and varicose veins, second edition. J Dermatol. 2024 Dec 26.	2024	Japanese Dermatological Association	Guideline
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136	Consensus Report on Glucagon-Like Peptide-1 Receptor Agonists as Adjunctive Treatment for Individuals With Type 1 Diabetes Using an Automated Insulin Delivery System. J Diabetes Sci Technol. 2025 Jan;19(1):191-216.	2025	The Diabetes Technology Society	Consensus
137	Perioperative Management of Adult Patients with Diabetes Wearing Devices: A Society for Perioperative Assessment and Quality Improvement (SPAQI) Expert Consensus Statement. J Clin Anesth. 2024 Dec; 99:111627.	2024	Society for Perioperative Assessment and Quality Improvement	Consensus
138	Evidence-based guideline: Unexplained Infertility. 2023. ESHRE, https://www.eshre.eu/guideline/UI .	2023	European Society of Human Reproduction and Embryology	Guideline
139	Expert consensus on the role of supplementation in obstetrics and gynecology using modified delphi method. Arch Gynecol Obstet. 2024 Feb;309(2):639-650.	2024	Egyptian experts	Consensus
140	Management of recurrent implantation failure: British Fertility Society policy and practice guideline. Hum Fertil (Camb). 2022 Dec;25(5):813-837.	2022	British Fertility Society	Guideline
141	Use of intrauterine devices in nulliparous women. Contraception. 2017 Jun;95(6):529-537.	2017	Experts from UK and USA	Guideline
142	Consensus of best practice in intrauterine contraception in France. Eur J Contracept Reprod Health Care. 2019 Aug;24(4):305-313.	2019	Experts from France	Consensus

143	Practical aspects related to the insertion of intrauterine systems. Italian Journal of Gynaecology & Obstetrics. 2016; 28: N.3	2016	Experts from Italian	Consensus
144	Selected Practice Recommendations for Contraceptive Use, 2016. MMWR Recomm Rep. 2016 Jul 29;65(4):1-66.	2016	US Center for Disease Control and Prevention	Guideline
145	Responsible, Safe, and Effective Prescription of Opioids for Chronic Non-Cancer Pain: American Society of Interventional Pain Physicians (ASIPP) Guidelines. Pain Physician. 2017 Feb;20(2S): S3-S92.	2017	American Society of Interventional Pain Physicians	Guideline
146	Functional Somatic Symptoms. Dtsch Arztebl Int. 2019 Aug 9;116(33-34):553-560	2019	Guideline group "Functional Somatic Symptoms"	Guideline
147	WHO guideline for non-surgical management of chronic primary low back pain in adults in primary and community care settings [Internet]. Geneva: World Health Organization; 2023. PMID: 38198579.	2023	WHO	Guideline
148	Noninvasive Treatments for Acute, Subacute, and Chronic Low Back Pain: A Clinical Practice Guideline From the American College of Physicians. Ann Intern Med. 2017 Apr 4;166(7):514-530.	2017	American College of Physicians	Guideline
149	The Chinese Association for the Study of Pain (CASP): Consensus on the Assessment and Management of Chronic Nonspecific Low Back Pain. Pain Res Manag. 2019 Aug 15;2019: 8957847.	2019	Chinese Association for the Study of Pain	Consensus
150	Optimizing the Management and Outcomes of Failed Back Surgery Syndrome: A Consensus Statement on Definition and Outlines for Patient Assessment. Pain Res Manag. 2019 Feb 18;2019: 3126464.	2019	The Chronic Back and Leg Pain Network	Consensus
151	Psychological Treatments and Psychotherapies in the Neurorehabilitation of Pain: Evidences and Recommendations from the Italian Consensus Conference on Pain in Neurorehabilitation. Front Psychol. 2016 Feb 19; 7:115.	2016	Italian Consensus Conference on Pain in Neurorehabilitation	Consensus
152	Non-Specific Low Back Pain. Dtsch Arztebl Int. 2017 Dec 25;114(51-52):883-890.	2017	National Care Guideline development group for non-specific back pain (German)	Guideline
153	VA/DoD Clinical Practice Guideline: Diagnosis and Treatment of Low Back Pain. J Gen Intern Med. 2019 Nov;34(11):2620-2629.	2019	Veterans Affairs (VA) and U.S. Department of Defense (DoD) Evidence-Based Practice Work Group	Guideline
154	World guidelines for falls prevention and management for older adults: a global initiative. Age Ageing. 2022 Sep 2;51(9): afac205.	2022	World Falls Guidelines (WFG) Task Force	Guideline
155	Practice Advisory for Preoperative and Intraoperative Pain Management of Cardiac Surgical Patients: Part 2. Anesth Analg. 2023 Jul 1;137(1):26-47.	2023	Society of Cardiovascular Anesthesiologists (SCA) & Quality, Safety, and Leadership (QSL) Committee's Opioid Working Group	Consensus
156	Clinical practice guide for the choice of perioperative volume-restoring fluid in adult patients undergoing non-cardiac surgery. Rev Esp Anesthesiol Reanim. 2016 Jan;63(1):29-47.	2016	Spanish Society of Anaesthesiology and Critical Care Medicine &	Guideline

157	International Evidence-based Guideline for the assessment and management of polycystic ovary syndrome 2023.	2023	Australasian National Health and Medical Research Council	Guideline

VITALITY Study I Case studies for retracted trials and the impact of the evidence ecosystem.

Case 1. Zinc supplementation on metabolic status in gestational diabetes

Heidarzadeh et al. reported the results of a randomized trial of zinc supplementation in people with gestational diabetes mellitus (ref *Biol Trace Elem Res.* 2017;175(2):271-277).

The retraction notes of Nov 24, 2022 states that there were issues of overlapping datasets (with other published articles) and concerns surrounding data integrity (study sites, dates of recruitment).

Forward citation searching identified one systematic review (prior to date of retraction note) where Heidarzadeh's data had been included in a meta-analysis of change in zinc concentrations. (ref: Li et al. *J Matern Fetal Neonatal Med.* 2021;34(13):2140-2145).

One outcome (depicted in Figure 6 of the published review) was affected by the retraction.

The pooled SMD for zinc change with supplementation was 0.90; 95% CI=0.58 to 1.21; $P<0.00001$; $n=4$ trials. After exclusion of the retracted trial, we estimated the pooled SMD to be 0.87; 95% CI=0.45 to 1.30; $P<0.00001$; $n=3$ trials.

In this instance, trial retraction had the impact of a minor reduction in pooled effect size without any change of direction or statistical significance. Further forward citation searching did not identify any related guideline documents that had appraised the data from this systematic review.

Case 2. Clomiphene citrate or aromatase inhibitors for superovulation in women with unexplained infertility

Badawy et al. reported the results of a randomized trial of clomiphene or letrozole (aromatase inhibitor) in participants with unexplained infertility who were undergoing intrauterine insemination (ref *Fertil Steril.* 2009;92(4):1355-1359).

The retraction notes of Sep 2020 states that there were issues of duplicate datasets (with other published articles) and concerns that the data could not be validated. Forward citation searching identified three systematic reviews (prior to date of retraction note) where Badawy's data had been incorporated into twenty separate meta-analyses covering a diverse range of outcomes. (ref: Weiss NS, et al. *Hum Reprod.* 2017;32(5):1009-1018, Liu A, et al. *J Obstet Gynaecol Res.* 2014;40(5):1205-1216, Qin F, et al. *Medicine (Baltimore).* 2020 July;99(31): e21006).

The effect estimates in one particular meta-analysis (depicted in Figure 9 of Liu's published review) had a change in direction and statistical significance after the removal of Badawy's data.

The pooled MD for number of dominant follicles with letrozole versus clomiphene was -0.40 (95%CI: -1.68 to 0.89); n =4 trials. Following exclusion of the retracted trial, we estimated the pooled MD to be 0.20 (95%CI: 0.17 to 0.23); n =3 trials,

The original meta-analysis could be interpreted as showing no significant benefit of letrozole over clomiphene with regards to dominant follicles. In contrast, pooled effect estimate after trial retraction suggests that letrozole leads to a statistically significant increase in number of dominant follicles compared to clomiphene.

Further forward citation searching identified two guideline documents that had appraised the data from this systematic review.

- 1) Buckett W, Sierra S. The management of unexplained infertility: an evidence-based guideline from the Canadian Fertility and Andrology Society. *Reprod Biomed Online*. 2019; 39(4): 633-640.
- 2) Practice Committee of the American Society for Reproductive Medicine. Practice Committee of the American Society for Reproductive Medicine. Evidence-based treatments for couples with unexplained infertility: a guideline. *Fertil Steril*. 2020;113(2):305-322.

Our review of these two guidelines revealed that one particular recommendation by Buckett et al. may potentially merit looking at again in light of the post-retraction pooled effect estimate suggesting possible benefit in terms of increased number of dominant follicles:

Recommendation on: Ovarian stimulation with oral agents alone

“Aromatase inhibitors alone do not offer any benefit in comparison to clomiphene citrate alone and should not be offered to couples with UEI (Level 1A).”

Case 3. Ramipril markedly improves walking ability in patients with peripheral arterial disease: a randomized trial

Ahimastos et al. reported the results of a randomized trial of ramipril in people with peripheral vascular disease (ref *Ann Intern Med*. 2006;144(9):660-664).

The retraction notes of Dec 1, 2015 states that there were issues pertaining to admission of data fabrication in a related trial (Ahimastos 2013), and a subsequent wider investigation that was unable to validate the primary data for this specific trial.

Forward citation searching identified two systematic reviews (one prior to date of retraction note, and one with a publication date after the Ahimastos trial had already been retracted) where Ahimastos' data had been included in a meta-analysis of change in walking time. (ref: Shahin Y, Barnes R, Barakat H, Chetter IC. Meta-analysis of angiotensin converting enzyme inhibitors effect on walking ability and ankle brachial pressure index in patients with intermittent claudication. *Atherosclerosis*. 2013;231(2):283-290, Barrons RW, Woods JA. The Roles of ACE Inhibitors in Lower Extremity Peripheral Artery Disease. *Am J Ther*. 2016;23(1):e7-e15).

Both reviews had meta-analyses that incorporated data from this specific trial (Ahimastos 2006) as well as the later trial from the same author (Ahimastos 2013) that had been retracted due to admission of data fabrication.

There were a total of nine meta-analyses where both the retracted Ahimastos trials were found to have contributed outcome data. One outcome (Figure 4 in the Barrons

review) was markedly affected (with changes in direction of effect and statistical significance) following retraction of the Ahimastos data.

The pooled MD for maximum treadmill walking distance with ramipril was 126 meters (95%CI: -95 to 346); n =4 trials. After exclusion of the retracted trial, we estimated the pooled MD to be -47 meters (95% CI: -71 to -24); n =2 trials.

The original meta-analysis could be interpreted as showing that ramipril was associated with a non-statistically significant increase (benefit) in the distance that participants were able to walk. In contrast, pooled effect estimate after trial retraction suggests that ramipril led to a statistically significant reduction in the walking distance, thus raising the possibility that ramipril actually causes harm to participants.

Further forward citation searching did not identify any related guideline documents that had appraised the data from the systematic reviews.

Stata code for the main analyses

**define the effects of meta-analyses with all studies were double-zero studies after exclusion of retracted RCTS

gen rate = noofretraction/noofstudies

replace exclude_es = 1 if exclude_es == 0 & exclude_lci == 0 & exclude_uci == 0 & exclude_p == 0 & rate < 1

replace exclude_p = 1 if exclude_es == 0 & exclude_lci == 0 & exclude_uci == 0 & exclude_p == 0 & rate < 1

***change conclusions

gen dir = 0

replace dir = 1 if ((all_es > 1 & exclude_es < 1) | (all_es < 1 & exclude_es > 1)) & (effectsize == "OR" | effectsize == "RR" | effectsize == "HR" | effectsize == "Ratio of mean" | effectsize == "IRR")

replace dir = 1 if ((all_es > 0 & exclude_es < 0) | (all_es < 0 & exclude_es > 0)) & effectsize == "RD"

replace dir = 1 if ((all_es > 0 & exclude_es < 0) | (all_es < 0 & exclude_es > 0)) & (effectsize == "MD" | effectsize == "WMD" | effectsize == "SMD" | effectsize == "SMD-Cohen" | effectsize == "SMD-Hedge" | effectsize == "WMD" | effectsize == "hedges" | effectsize == "NA")

replace dir = 1 if exclude_es == 0 & exclude_lci == 0 & exclude_uci == 0 & exclude_p == 0

gen sig = 0

replace sig = 1 if ((all_p > 0.05 & exclude_p < 0.05) | (all_p < 0.05 & exclude_p > 0.05))

replace sig = 1 if exclude_es == 0 & exclude_lci == 0 & exclude_uci == 0 & exclude_p == 0

*(change of ci also indicate conclusion change, while this situation has already been covered in comb_all, when consider evidence from have-to-no as dir = 1 and sig = 1)

*gen ci = 0

*replace ci = 1 if (all_p < 0.05 & exclude_p < 0.05 & dir == 1)

gen mag50 = 0

gen d = (all_es - exclude_es) / all_es

replace mag50 = 1 if d > 0.5 | d < -0.5

gen comb_all = 0

replace comb_all = 1 if dir == 1 & sig == 1

gen comb_either = 0

replace comb_either = 1 if dir == 1 | sig == 1

```

gen outtype = 0
replace outtype = 1 if effectsizes == "OR" | effectsizes == "RR" | effectsizes == "HR" | effectsizes == "RD" | effectsizes == "IRR"
gen harmsnum = 0
replace harmsnum = 1 if harms == "Yes"

```

```

gen reason = 0
replace reason = 1 if retractionofdataissues == "Y"

```

```

keep if notes == "Replicated"

```

```

***proportions
****nested mode]****
meglm dir ||_all:R.srid ||rcts:
meglm sig ||_all:R.srid ||rcts:
meglm mag50 ||_all:R.srid ||rcts:
meglm comb_all ||_all:R.srid ||rcts:
meglm comb_either ||_all:R.srid ||rcts:

```

```

bysort outtype: meglm dir ||_all:R.srid ||rcts:
bysort outtype: meglm sig ||_all:R.srid ||rcts:
bysort outtype: meglm mag50 ||_all:R.srid ||rcts:
bysort outtype: meglm comb_all ||_all:R.srid ||rcts:
bysort outtype: meglm comb_either ||_all:R.srid ||rcts:

```

```

bysort harmsnum: meglm dir ||_all:R.srid ||rcts:
bysort harmsnum: meglm sig ||_all:R.srid ||rcts:
bysort harmsnum: meglm mag50 ||_all:R.srid ||rcts:
bysort harmsnum: meglm comb_all ||_all:R.srid ||rcts:
bysort harmsnum: meglm comb_either || rcts: ||srid:

```

```

bysort reason: meglm dir ||_all:R.srid ||rcts:
bysort reason: meglm sig ||_all:R.srid ||rcts:
bysort reason: meglm mag50 ||_all:R.srid ||rcts:

```

```
bysort reason: meglm comb_all ||_all:R.srid ||rcts:
bysort reason: meglm comb_either ||_all:R.srid ||rcts:
```

```
*subgroup interaction
meglm dir i.outtype ||_all:R.srid ||rcts:
meglm sig i.outtype ||_all:R.srid ||rcts:
meglm mag50 i.outtype ||_all:R.srid ||rcts:
meglm comb_all i.outtype ||_all:R.srid ||rcts:
meglm comb_either i.outtype ||_all:R.srid ||rcts:
```

```
meglm dir i.harmsnum ||_all:R.srid ||rcts:
meglm sig i.harmsnum ||_all:R.srid ||rcts:
meglm mag50 i.harmsnum ||_all:R.srid ||rcts:
meglm comb_all i.harmsnum ||_all:R.srid ||rcts:
meglm comb_either i.harmsnum ||_all:R.srid ||rcts:
```

```
meglm dir i.reason ||_all:R.srid ||rcts:
meglm sig i.reason ||_all:R.srid ||rcts:
meglm mag50 i.reason ||_all:R.srid ||rcts:
meglm comb_all i.reason ||_all:R.srid ||rcts:
meglm comb_either i.reason ||_all:R.srid ||rcts:
```

```
*** extent of retracted RCTs
recode rate(min/0.249999 = 1 "<25%")(0.25/0.49999 = 2 "25-<50%") (0.5/0.749999 = 3 "50 - <75%") (.75/.9999=4 "75 - <100%") (1=.) , gen(extent)
```

```
***RCS
gen nos = noofstudies
replace nos = 20 if noofstudies > 19
mkspline nums = nos, nk(3) cubic
```

```
***GLM relationship of number of studies and change
graph drop _all
```

```

meglm dir nums* if rate < 1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nos if noofstudies>1
xb1c nums*, covname( nos ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title(Direction change) xtitle(Number of studies) yline(1) name(f1) ylabel(, grid)
test nums1 nums2

meglm sig nums* if rate < 1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nos if noofstudies>1
xb1c nums*, covname( nos ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title(Significant change) xtitle(Number of studies) yline(1) name(f2) ylabel(, grid)
test nums1 nums2

meglm mag50 nums* if rate < 1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nos if noofstudies>1
xb1c nums*, covname( nos ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title(Magnitude change) xtitle(Number of studies) yline(1) name(f3) ylabel(, grid)
test nums1 nums2
*graph combine f1 f2 f3, xcommon

***adjusting for proportion of retracted trials
graph drop _all
meglm dir nums* if extent<=1 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>4
xb1c nums*, covname( nums1 ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title("Direction change") subtitle("<25% retractions") xtitle(Number of studies)
yline(1) name(g1) ylabel(, grid)
meglm dir nums* if extent <=2 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>2
xb1c nums*, covname( nums1 ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title("Direction change") subtitle("<50% retractions") xtitle(Number of studies)
yline(1) name(g2) ylabel(, grid)
meglm dir nums* if extent <=3 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>1
xb1c nums*, covname( nums1 ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title("Direction change") subtitle("<75% retractions") xtitle(Number of studies)
yline(1) name(g3) ylabel(, grid)
meglm dir nums* if extent <=4 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>1

```

```

xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Direction change") subtitle("<100% retractions") xtitle(Number of studies)
yline(1) name(g4) ylabel(, grid)
graph combine g1 g2 g3 g4, ycommon xcommon

```

```

graph drop _all
meglm sig nums* if extent<=1 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>4
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Significance change") subtitle("<25% retractions") xtitle(Number of studies) yline(1) name(g5) ylabel(, grid)
meglm sig nums* if extent <=2 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>2
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Significance change") subtitle("<50% retractions") xtitle(Number of studies) yline(1) name(g6) ylabel(, grid)
meglm sig nums* if extent <=3 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>1
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Significance change") subtitle("<75% retractions") xtitle(Number of studies) yline(1) name(g7) ylabel(, grid)
meglm sig nums* if extent <=4 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>1
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Significance change") subtitle("<100% retractions") xtitle(Number of studies) yline(1) name(g8) ylabel(, grid)
graph combine g5 g6 g7 g8, ycommon xcommon

```

```

graph drop _all
meglm mag50 nums* if extent<=1 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>4
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Magnitude change by more than 50%") subtitle("<25% retractions") xtitle(Number of studies) yline(1) name(g9) ylabel(, grid)
meglm mag50 nums* if extent <=2 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>2
xblc nums*, covname( nums1 ) at(`r(levels)`) ref(20) eform scatter ytitle(Odds ratio) title("Magnitude change by more than 50%") subtitle("<50% retractions") xtitle(Number of studies) yline(1) name(g10) ylabel(, grid)
meglm mag50 nums* if extent <=3 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)

```

```
qui levelsof nums1 if noofstudies>1
xblc nums*, covname( nums1 ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title("Magnitude change by more than 50%") subtitle("<75% retractions")
xtitle(Number of studies) yline(1) name(g11) ylabel(, grid)
meglm mag50 nums* if extent <=4 & rate<1 ||_all:R.srid ||rcts: , family(bin) link(logit)
qui levelsof nums1 if noofstudies>1
xblc nums*, covname( nums1 ) at(`r(levels)') ref(20) eform scatter ytitle(Odds ratio) title("Magnitude change by more than 50%") subtitle("<100% retractions")
xtitle(Number of studies) yline(1) name(g12) ylabel(, grid)
graph combine g9 g10 g11 g12, ycommon xcommon
```

```
***get meta-analyse substantially impacted
gen mag = (all_es - exclude_es)/all_es
gen bigimpact = 0
replace bigimpact = 1 if comb_all == 1
keep if bigimpact == 1 & notes == "Replicated"
```