

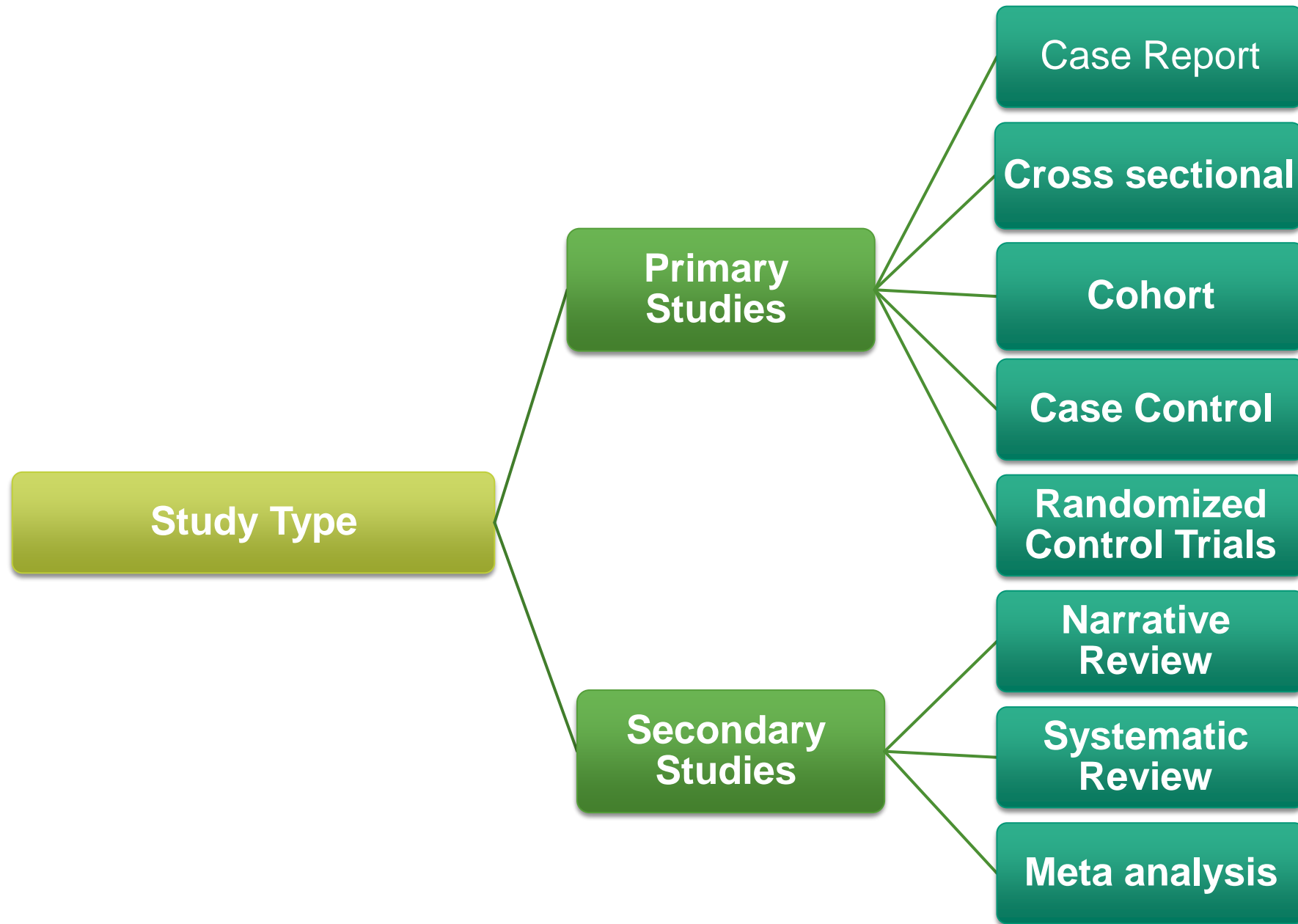


Introduction to Systematic Review

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Khordad 1401



The Systematic Review Process

Define the question (PICO)

Question Components: PICOS

- What types of **P**articipant?
- What types of **I**nterventions?
- What types of **C**omparison?
- What types of **O**utcomes?
- What types of **S**tudy?

Suggested Types of Studies to Answer Clinical Questions

Type of Question	Best Types of Studies
Therapy	RCT
Prevention	RCT, Cohort, Case Control, Case Series
Etiology/Harm	RCT, Cohort, Case Control, Case Series
Prognosis	Cohort, Case Control, Case Series
Diagnostic Test	Prospective, blind comparison compared to the gold standard
Quality of Life	Qualitative studies (observation, interviews, narratives, questionnaires, analysis of documents ...)



PICOS Sample

In Patients With Chronic Kidney Disease, do SGLT2 Inhibitors has an effect on Renal Outcomes such as composite of worsening kidney function, end-stage kidney disease (ESKD), or renal death?

- **P**articipant Patients With Chronic Kidney Disease
- **I**nterventions SGLT2 Inhibitors
- **C**omparison Placebo, Other treatment ...
- **O**utcomes Renal Outcomes
- **S**tudy Randomized Controlled Trial

PICOS Sample

Effectiveness of favipiravir in COVID-19?

- **P**articipant Patients With COVID-19
- **I**nterventions favipiravir
- **C**omparison Placebo, Other treatment
- **O**utcomes treatment or reduce complication
- **S**tudy Randomized Controlled Trial

PICOS Sample

Incidence of Pressure Injuries in patients undergoing surgery

- | | |
|-----------------------|---------------------------------------|
| ◆ P articipant | Patient undergoing surgery |
| ◆ E xposure | Not applicable |
| ◆ C omparison | Not applicable |
| ◆ O utcomes | Incidence |
| ◆ S tudy | Cross-sectional, Case control, Cohort |

Has anybody done this before?

- PubMed
- Tripdatabase.com
- Cochrane.org
- Prospero

**Search**

Advanced

PubMed® comprises more than 33 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.

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Population

e.g. diabetics

Intervention


e.g. a treatment, diagnostic test

Comparison

any comparison intervention

Outcome

e.g. mortality, blood pressure

 Search



<https://www.cochranelibrary.com/advanced-search>



Trusted evidence.
Informed decisions.
Better health.

Cochrane Reviews ▾

Trials ▾

Clinical Answers ▾

About ▾

Help ▾

About Cochrane ▶

Advanced Search

Search

Search manager

Medical terms (MeSH)

PICO search

About

? Search help

Enter a search term and select a PICO vocabulary term from the dropdown

Enter a search term

Lookup ▾

+

Clear All

Run search

Welcome to **PROSPERO**
International prospective register of systematic reviews

PROSPERO is fast-tracking registration of protocols related to COVID-19

PROSPERO accepts registrations for systematic reviews, **rapid reviews** and umbrella reviews. PROSPERO **does not accept** **scoping reviews** or **literature scans**. Sibling PROSPERO sites registers systematic reviews of **human studies** and systematic reviews of **animal studies**.

<https://www.crd.york.ac.uk/prospero/>

Scoping Search

Are there enough primary studies on my topic?

- Learn to better describe your topic
- Develop search term list



Creating Concept Table by Mesh



National Library of Medicine
National Center for Biotechnology Information

Log in

MeSH

MeSH



|

[Limits](#) [Advanced](#)

Search

[Help](#)



MeSH

MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.

Using MeSH

[Help](#)

[Tutorials](#)

More Resources

[E-Utilities](#)

[NLM MeSH Homepage](#)

You are here: [NCBI](#) > [Literature](#) > [MeSH Database](#)

[Support Center](#)

<https://www.ncbi.nlm.nih.gov/mesh/>

MeSH

MeSH

chronic kidney disease



Search

Limits Advanced

Help

Full

Send to:

Renal Insufficiency, Chronic

Conditions in which the KIDNEYS perform below the normal level for more than three months. Chronic kidney insufficiency is classified by five stages according to the decline in GLOMERULAR FILTRATION RATE and the degree of kidney damage (as measured by the level of PROTEINURIA). The most severe form is the end-stage renal disease (CHRONIC KIDNEY FAILURE). (Kidney Foundation: Kidney Disease Outcome Quality Initiative, 2002)

Year introduced: 2006

PubMed search builder options

[Subheadings:](#)

- | | | |
|--|---------------------------------------|--|
| <input type="checkbox"/> analysis | <input type="checkbox"/> enzymology | <input type="checkbox"/> pharmacology |
| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> epidemiology | <input type="checkbox"/> physiology |
| <input type="checkbox"/> blood | <input type="checkbox"/> ethnology | <input type="checkbox"/> physiopathology |
| <input type="checkbox"/> cerebrospinal fluid | <input type="checkbox"/> etiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> genetics | <input type="checkbox"/> psychology |
| <input type="checkbox"/> classification | <input type="checkbox"/> history | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> complications | <input type="checkbox"/> immunology | <input type="checkbox"/> rehabilitation |
| <input type="checkbox"/> congenital | <input type="checkbox"/> metabolism | <input type="checkbox"/> statistics and numerical data |
| <input type="checkbox"/> cytology | <input type="checkbox"/> microbiology | <input type="checkbox"/> surgery |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> mortality | <input type="checkbox"/> therapy |

PubMed Search Builder

Add to search builder

AND

Search PubMed

Tutorial

Related information

PubMed

PubMed - Major Topic

Clinical Queries

NLM MeSH Browser

dbGaP Links

MedGen

Concept table

MY PICO	Chronic Kidney Disease	SGLT2 Inhibitors
Mesh Terms	Renal Insufficiency, Chronic	Sodium-Glucose Transporter 2 Inhibitors
Text words	<ul style="list-style-type: none">▪ Chronic Renal Insufficiencies▪ Renal Insufficiencies, Chronic▪ Chronic Renal Insufficiency▪ Kidney Insufficiency, Chronic▪ Chronic Kidney Insufficiencies▪ Kidney Insufficiencies, Chronic▪ Chronic Kidney Diseases▪ Kidney Diseases, Chronic▪ Chronic Renal Disease▪ Renal Diseases, Chronic ...	<ul style="list-style-type: none">▪ Sodium Glucose Transporter 2 Inhibitor▪ Sodium Glucose Transporter 2 Inhibitors▪ Gliflozins▪ SGLT2 Inhibitors▪ SGLT-2 Inhibitor▪ Inhibitor, SGLT2▪

Concept table

MY PICO	COVID 19	Favipiravir
Mesh Terms	COVID-19	Favipiravir
Text words	<ul style="list-style-type: none">COVID 19SARS-CoV-2 InfectionSARS-CoV-2 Infections2019 Novel Coronavirus Infection2019-nCoV DiseaseCOVID-19 Virus InfectionVirus Infection, COVID-19Coronavirus Disease 2019 ...	<ul style="list-style-type: none">T-705 cpdAviganCytovex



Where to Search?

Core Biomedical Databases



Specialized Databases

(Subjects Specified Databases)

- Biological Abstracts
- International Pharmaceutical Abstract (IPA)
- PsycInfo
- Chemical Abstracts
- CINAHL (nursing and allied health)
- Toxnet
- ERIC (Education Resources Information Center) & ...

Biases in Systematic Review (Publication Bias)

- The studies are more likely to be submitted for publication and published quickly
 - ❑ 1) if they had reached sig.
 - ❑ 2) positive result
 - ❑ 3) interesting results for both reviewers & authors!
 - ❑ 4) language bias (ENG) in being included in a meta analysis.

How to Bypass Publication Bias

- Searching Registries
- Conference Papers
- Searching Libraries for Thesis & Research Reports
- Searching Grey Literature

CENTRAL

- **CENTRAL:** The Cochrane Central Register of Controlled Trials (CENTRAL) is a key resource for those preparing and maintaining systematic reviews.

CENTRAL includes citations from MEDLINE, EMBASE, as well as other published and unpublished sources including CINAHL, ClinicalTrials.gov and the WHO's International Clinical Trials Registry Platform



Trusted evidence.
Informed decisions.
Better health.

English English Sign In

All Text * 🔍

Browse Advanced search

Cochrane Reviews ▾ Trials ▾ Clinical Answers ▾ About ▾ Help ▾ About Cochrane ▶



Explore new Cochrane Li

Search Trials (CENTRAL)

About CENTRAL



Filter your results

Year ⓘ

Year first published

2022	192
2021	92418
2020	109384
2019	107955
2018	109239

Cochrane Reviews
8755

Cochrane Protocols
2409

Trials
1850234

Editorials
141

Special Collections
44

More
▾

⚠ For COVID-19 related studies, please also see the [Cochrane COVID-19 Study Register](#)

1850234 Trials matching * in All Text

Cochrane Central Register of Controlled Trials
Issue 12 of 12, December 2021

⚠ Authenticate to get access to full CENTRAL content

Unlock the potential of Cochrane Evidence >

<https://www.cochranelibrary.com/central>

Registries Web Sites for RCTs

- <http://www.clinicalstudyresults.org>
- <http://www.isrctn.com/>
- Australian New Zealand Clinical Trials Registry:
<http://www.anzctr.org.au/trialSearch.aspx>
- Netherlands Trial Registry: <http://www.trialregister.nl>
- Iranian Registry of Clinical Trials: <https://irct.ir/>
- World Health Organization International Clinical Trials Registry Platform:
<http://www.who.int/ictrp>

Registries Web Sites for RCTs

- US National Institutes of Health collection of clinical studies sponsored by the NIH, other Federal agencies, the pharmaceutical industry, and nonprofit organizations in the United States. <http://clinicaltrials.gov/>
- GlaxoSmithKline Clinical Study Register:
<http://www.gsk-clinicalstudyregister.com/>
- Centerwatch Lists recruiting trials with information for patients as well as professionals. <http://www.centerwatch.com>

COVID-19 Information

[Public health information \(CDC\)](#) | [Research information \(NIH\)](#) | [SARS-CoV-2 data \(NCBI\)](#) | [Prevention and treatment information \(HHS\)](#) | [Español](#)

NIH U.S. National Library of Medicine

ClinicalTrials.gov

[Find Studies](#) [About Studies](#) [Submit Studies](#) [Resources](#) [About Site](#) [PRS Login](#)

ClinicalTrials.gov is a database of privately and publicly funded clinical studies conducted around the world.

Explore 396,768 research studies in all 50 states and in 220 countries.

See [listed clinical studies](#) related to the coronavirus disease (COVID-19)

Find a study (all fields optional)

Status

- ☐ Recruiting and not yet recruiting studies
- ☒ All studies

<https://clinicaltrials.gov/>



Home

« فارسی

Welcome to Iranian Registry of Clinical Trials. This is a [Primary Registry](#) in the [WHO Registry Network](#) set up with the help from the Ministry of Health and Medical Education (MOHME) and hosted by [Iran University of Medical Sciences \(IUMS\)](#).

[Read more »](#)

Learning about trials

30847 trials registered.

Search for Trials

Example: "Heart attack" AND "Tehran"

Search

[Advanced search](#)

Search Help

- [How to search](#)
- [How to refine your search](#)
- [How to export data](#)

<https://irct.ir/>



Health Topics ▾

Countries ▾

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Emergencies ▾

Data ▾

About WHO ▾

[Home](#) / International Clinical Trials Registry Platform (ICTRP)

A blurred background image of a laboratory setting, showing glass flasks, metal stands, and various pieces of equipment. The focus is on the foreground elements, which are slightly out of focus, creating a sense of depth.

International Clinical Trials Registry Platform (ICTRP)

<https://www.who.int/clinical-trials-registry-platform>



ICTRP Search Portal

The [ICTRP Search Portal](#) aims to provide a single point of access to information about ongoing and completed clinical trials. It provides a searchable database containing the [trial registration data sets](#) made available by [data providers](#) around the world meeting [criteria for content and quality control](#).

Trial registration data sets are available on the ICTRP Search Portal in English only. Some data providers, however, may also store trial registration data sets in other languages. If available, these may be searched by going directly to the web sites of the individual registries. It is possible to search for trials registered in certain Primary Registries in the following languages:

- [Chinese](#) - Chinese Clinical Trial Registry (ChiCTR)
- [Dutch](#) - The Netherlands National Trial Register (NTR)
- [German](#) – German Clinical Trials Register (DRKS)
- [Japanese](#) – Japan Primary Registries Network (JPRN)
- [Korean](#) – Clinical Research Information Service (CRiS), Republic of Korea
- [Persian](#) – Iranian Registry of Clinical Trials (IRCT)

← International Clinical Trials Registry Platform (ICTRP)

ICTRP search portal



ICRTP Registry Network



Conference Papers

- Can be found on:
- **Scopus**
- **Conference Proceedings Citation Index- Science (CPCI-S)**
- **Conference Proceedings Citation Index Social Science & Humanities (CPCI-SSH)**
 - ❑ both available via Thomson Reuter's **Web of Science**.
 - ❑ They include reports from conferences, symposia, seminars, workshops.

Source title ▾

Keyword ▾

Affiliation ▾

Funding sponsor ▾

Country/territory ▾

Source type ▴

☐ Journal (199,083) >

☐ Book (1,730) >

☐ Book Series (1,172) >

☒ Conference Proceeding (497) >

☐ Trade Journal (97) >

☐ Undefined (290) >

Language ▾

Limit to Exclude

➔ Export refine

23,100106					
View abstract ▾ View at Publisher Related documents					
<input type="checkbox"/> 9	Fibroblast growth factor-23 and subclinical markers of cardiac dysfunction: The coronary artery risk development in young adults (CARDIA) study	Akhabue, E., Wong, M., Mehta, R., (...), Gutierrez, O.M., Carnethon, M.	2022	American Heart Journal 245, pp. 10-18	0
View abstract ▾ View at Publisher Related documents					
<input type="checkbox"/> 10	Uremic leontiasis ossea: distinctive imaging features allow differentiation from other clinical causes of leontiasis ossea	Alamer, A.	2022	Radiology Case Reports 17(3), pp. 553-557	0
View abstract ▾ View at Publisher Related documents					
<input type="checkbox"/> 11	Assessing and counteracting fibrosis is a cornerstone of the treatment of CKD secondary to systemic and renal limited autoimmune disorders	de Cos, M., Xipell, M., García-Herrera, A., (...), Cervera, R., Quintana, L.F.	2022	Autoimmunity Reviews 21(3),103014	0
View abstract ▾ View at Publisher Related documents					
<input type="checkbox"/> 12	Hyperphosphatemia-induced degradation of transcription factor EB exacerbates vascular	Ishiwata, R., Morimoto, Y.	2022	Biochimica et Biophysica Acta - Molecular Basis of	0

Basic Search

Author Search ^{BETA}

Cited Reference Search

Advanced Search

Example: oil spill* mediterranean



Topic



Search

Search tips

+ Add row | Reset

Timespan

All years (1975 - 2022)



More settings ▲

Web of Science Core Collection: Citation Indexes

- ☒ Science Citation Index Expanded (SCI-EXPANDED) --1980-present
- ☒ Social Sciences Citation Index (SSCI) --1980-present
- ☒ Arts & Humanities Citation Index (A&HCI) --1975-present
- ☒ Conference Proceedings Citation Index- Science (CPCI-S) --1990-present
- ☒ Conference Proceedings Citation Index- Social Science & Humanities (CPCI-SSH) --1990-present
- ☒ Book Citation Index- Science (BKCI-S) --2005-present
- ☒ Book Citation Index- Social Sciences & Humanities (BKCI-SSH) --2005-present
- ☒ Emerging Sources Citation Index (ESCI) --2005-present

Auto-suggest publication names

(The Autosuggest service is not available.)

Default Number of Search Fields to Display

1 field (Topic)



(To save these permanently, [sign in](#) or [register](#).)

Theses and Dissertations

- **Dissertation Abstracts** lists American dissertations accepted at accredited institutions 1861 onwards; Masters theses have been included since 1962; and since 1988, the database includes citations for dissertations from 50 British universities:
<http://www.proquest.com>
- Some databases e.g. **CINAHL** and **PsycInfo** include dissertations
- WorldCat dissertations and Theses (**OCLC**) can be accessed via King's databases page
- British Library's eThos contains over 500,000 doctoral theses: **<http://ethos.bl.uk>**

You are searching 2 databases

Basic Search Advanced Search Publications Change Databases (2)

- All
- Scholarly Journals
- Books
- Videos & Audio
- Dissertations & Theses
- All source types ▾

Enter search terms...



☐ Full text ☐ Peer reviewed ⓘ

[Search tips](#)

Login

English

Basic search

Advanced search

Browsing

Search history



BASE

Bielefeld Academic Search Engine

Search 311,977,910 documents from 10,152 content providers

Grey literature

- **Grey** is between White & Black! “There are many definitions of grey literature, but it is usually taken to mean **literature that is not formally published in sources such as books or journal articles.**” (Cochrane Handbook, 2011)
 - ❑ E.g. Doctoral dissertations
 - ❑ Technical or research reports from government agencies
 - ❑ Reports from scientific research groups
 - ❑ Working papers from research groups or committees
 - ❑ Some conference proceedings and official publications

Grey literature

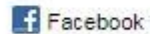
- ◆ Governmental research, e.g., National Technical Reports Library at: <http://projectreporter.nih.gov>
- ◆ Grey Literature Report at: <http://www.greylit.org>
- ◆ **Google or Google Scholar**
- ◆ GreySource at: <http://www.greynet.org>
- ◆ Directory of Open-Access repositories: www.openaccess.org

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www.greylit.org >

Search the Report

8 results for *Chronic Kidney Disease*

[Facebook](#)[Twitter](#)[Print](#)[Bookmark](#)[RSS](#)[Download](#)

Sort By: [Author](#) [Title](#) [Publisher](#) [Date of Publication](#) **[Catalog Date](#)**

Title: Diabetes-related mortality in New York City

Publisher: [New York City, Department of Health and Mental Hygiene](#)

Date of Publication: 2013

Refine your search

[reset](#)

Search Within

- ☒ Full Text
- ☐ Author
- ☐ Title
- ☐ Summary
- ☐ Publisher
- ☐ Subject

Reports To Search

- ☒ All
- ☐ Current

Additional Keywords

Date Added To Database:

<http://www.greylit.org/>



Searching Guide

building search strategy

Boolean Logics

Shaded areas indicate retrieval



Search Statement

Stress **AND** Depression

Types of records retrieved

Documents that have **both** Stress **AND** Depression



Cancer **OR** Neoplasm

Documents that have **either** Cancer **OR** Neoplasm



Stress **NOT** Anxiety

Documents that have Stress **but NOT** Anxiety

Truncation & Wildcard Characters

Symbol	Retrieves	Example
*	Zero or more characters	Hydroxy* = Hydroxylase Hydroxydopamine Hydroxyethyl
?	One character only	analy?e = analyze analyse
\$	Zero or one character	Eight\$ = eight eighty

Limits & Filters

- Age group
- Publication date ranges
- Species (human or animal)
- Languages
- Publication type (reviews, clinical trials, cohort, etc.)
- ...



☐ Abstract

☐ Free full text

☐ Full text

ARTICLE ATTRIBUTE

☐ Associated data

ARTICLE TYPE

☐ Books and Documents

☐ Clinical Trial

☐ Meta-Analysis

☐ Randomized Controlled Trial

☐ Review

☐ Systematic Review

PUBLICATION DATE

☐ 1 year

☐ 5 years

☐ 10 years

☐ Custom Range

Additional filters

2 patients with type 2 diabetes mellitus and **chronic kidney disease**: A systematic review and meta-analysis. Page 1

Cite Toyama T, Neuen BL, Jun M, Ohkuma T, Neal B, Jardine MJ, Heerspink HL, Wong MG, Ninomiya T, Wada T, Perkovic V.

Share Diabetes Obes Metab. 2019 May;21(5):1237-1250. doi: 10.1111/dom.13648. Epub 2019 Mar 4. PMID: 30697905 **Free article.**

AIM: The use of **sodium glucose co-transporter 2 (SGLT2) inhibitors** in patients with type 2 diabetes mellitus (T2DM) and **chronic kidney disease** (CKD) has been limited, primarily because glycaemic efficacy is dep ...

☐ Effects of dapagliflozin on major adverse **kidney** and cardiovascular events in patients with diabetic and non-diabetic **chronic kidney disease**: a prespecified analysis from the DAPA-CKD trial.

3 Cite Wheeler DC, Stefánsson BV, Jongs N, Chertow GM, Greene T, Hou FF, McMurray JJV, Correa-Rotter R, Rossing P, Toto RD, Sjöström CD, Langkilde AM, Heerspink HJL; DAPA-CKD Trial Committees and Investigators.

Share Lancet Diabetes Endocrinol. 2021 Jan;9(1):22-31. doi: 10.1016/S2213-8587(20)30369-7. PMID: 33338413 **Clinical Trial.**

BACKGROUND: Dapagliflozin reduces the risk of **kidney** failure and heart failure in patients with **chronic kidney disease**. We aimed to investigate the effects of dapagliflozin on **kidney**, cardiovascular, and mortality outcomes according to presence ...

☐ Sotagliflozin in Patients with Diabetes and **Chronic Kidney Disease**.

4 Cite Bhatt DL, Szarek M, Pitt B, Cannon CP, Leiter LA, McGuire DK, Lewis JB, Riddle MC, Inzucchi SE, Kosiborod MN, Cherney DZI, Dwyer JP, Scirica BM, Bailey CJ, Díaz R, Ray KK, Udell JA, Lopes RD, Lapuerta P, Steg PG; SCORED Investigators.

Share N Engl J Med. 2021 Jan 14;384(2):129-139. doi: 10.1056/NEJMoa2030186. Epub 2020 Nov 16.

Systematic search

1. Scoping Search
2. Identify key concepts
3. Identify search terms
4. Identify databases
5. Build search strategies
6. Apply study design filters and topic hedges
7. Search outside of published literature

Validating and Verifying your search

- Cited reference list
- Citing reference list
- Author search

Documenting Search Strategies

- ◆ The systematic review process should be transparent and replicable. Document each search including:
 - ❑ Name of database
 - ❑ Date search was run (month, day, year)
 - ❑ Years covered by the search
 - ❑ Complete search strategy used, including all search terms
 - ❑ Limits (if any)
 - ❑ Results

Documenting Search Strategies

◆ DATABASE/VENDOR

- *Pubmed*

◆ DATE

- *.... –2021; last searched December 05, 2021*

◆ LANGUAGE

- *No limitation*

◆ Total

- *799*

◆ Strategy

- *Exact search strategy. Should be replicable*



Select the Studies

Selecting studies

- ◆ Export all citations to a citation manager (EndNote, ...)
- ◆ De-duplicate records, keeping track of original numbers found, duplicates, and numbers kept after de-duplicating
- ◆ Screen the title/abstract using inclusion/exclusion criteria
- ◆ Obtain full-text of possibly relevant citations
- ◆ Screen a second time by full-text. Record reasons for each excluded study
- ◆ Appraise the Quality of Studies

A Good Reference

- Cochrane Handbook for Systematic Reviews of Interventions



Available at: [***https://training.cochrane.org/handbook***](https://training.cochrane.org/handbook)