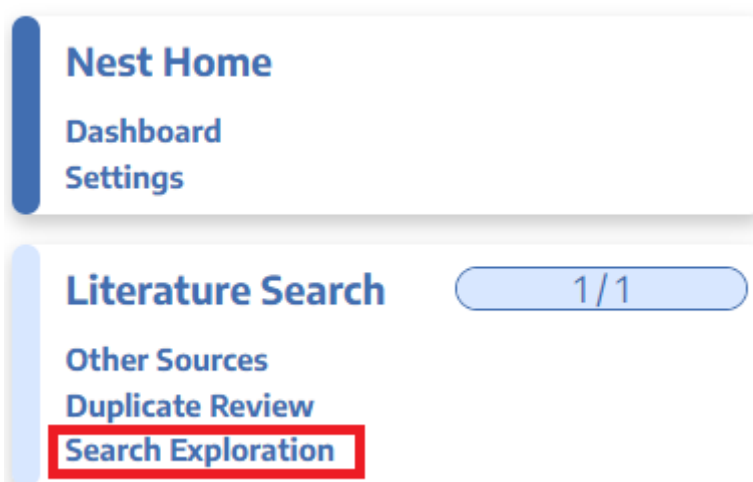


Search Exploration

The Search Exploration page allows you to generate search terms based on central concepts of your nest. Enter your Population, Interventions (and Comparators), and Outcomes (PICO) to generate a Boolean query that can be used on PubMed, and explore potential search results' abstracts, key terminology, and topics of interest to help construct your final search strategy. When complete, proceed to [Lit Search](#) and [Run your Search](#).

How to Begin Search Exploring

1. Navigate to Search Exploration

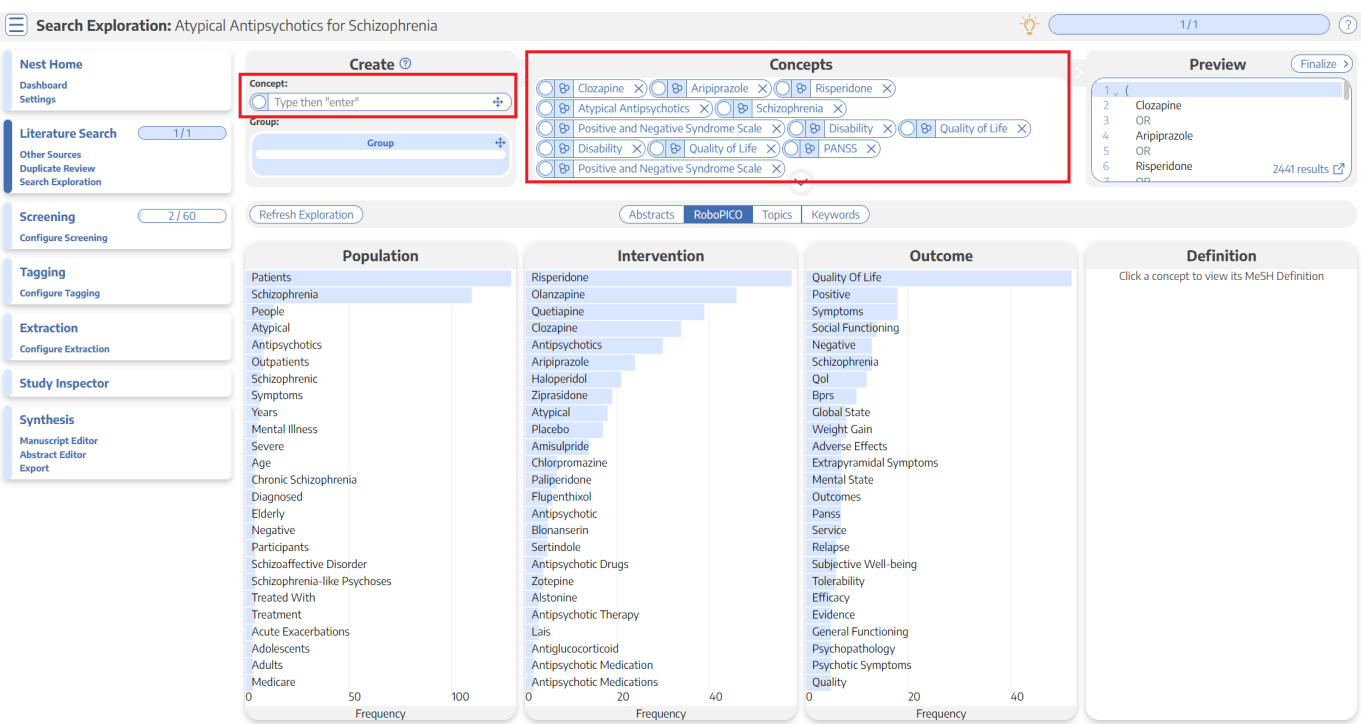


2. Enter PICO of Interest:

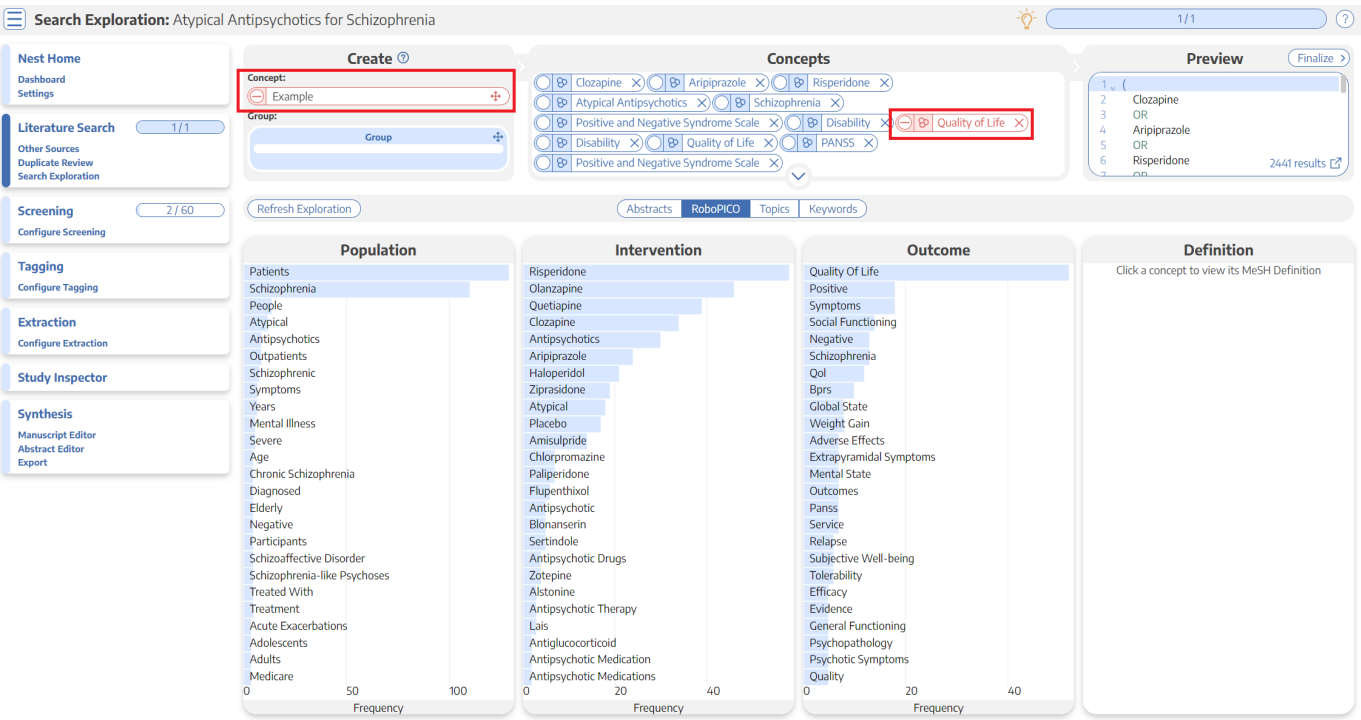
When you create a nest, you will have the option to add details about the Population, Interventions (and comparators), and Outcomes (PICO).

Imagine you are asking the Research Question: How do atypical antipsychotics (I) impact the quality of life and disability (O) in adults with schizophrenia (P)?

1. First, enter the Population (patients with schizophrenia), Interventions (atypical antipsychotics), and Outcomes (disability and quality of life) in the Concept bar under Create.
2. Enter each concept, then hit the Enter button, this will move them under Concepts.
3. Continue adding terms until you have enough terms to identify your specific topic area (**Recommended:** 2 to 5 terms per category).



What is a **Comparator**? A comparator is the drug, device, or intervention that the main intervention is tested against. Typical comparator arms include placebo and standard of care (SOC). In the framework shown here, comparators can be included under interventions.



Negation: Check the negate box to exclude the specific PICO elements from your search. For example, you can add the population “Pediatric” and negate it if you would like to



exclude pediatric populations from your research question.

3. Edit Concepts

When you have completed the tasks above, you will have unstructured concepts of interest, but no grouping of terms and no information yet populated to the Abstracts, RoboPICO, Topic Modeling, and Keywords.

To proceed, click on the down arrow under Concepts to view, add, and group together PICO elements. Alternatively, you can drag and drop a group into the concepts box to expand.

Search Exploration: Atypical Antipsychotics for Schizophrenia

Create

Concept:

Group:

Concepts

☒ Clozapine ☒ Aripiprazole ☒ Risperidone
☒ Atypical Antipsychotics ☒ Schizophrenia
☒ Positive and Negative Syndrome Scale ☒ Disability ☒ Quality of Life
☒ Disability ☒ Quality of Life ☒ PANSS
☒ Positive and Negative Syndrome Scale

Preview

1 (Clozapine
2 OR
3 Aripiprazole
4 OR
5 Risperidone
6 2441 results

Population

Patients
Schizophrenia
People
Atypical
Antipsychotics
Outpatients
Schizophrenic
Symptoms
Years
Mental Illness
Severe
Age
Chronic Schizophrenia
Diagnosed
Elderly
Negative
Participants
Schizoaffective Disorder
Schizophrenia-like Psychoses
Treated With
Treatment
Acute Exacerbations
Adolescents
Adults
Medicare

Intervention

Risperidone
Olanzapine
Quetiapine
Clozapine
Antipsychotics
Aripiprazole
Haloperidol
Ziprasidone
Atypical
Placebo
Amisulpride
Chlorpromazine
Paliperidone
Flupenthixol
Antipsychotic
Blonanserin
Sertindole
Antipsychotic Drugs
Zotepine
Alstonine
Antipsychotic Therapy
Lais
Antiglucocorticoid
Antipsychotic Medication
Antipsychotic Medications

Outcome

Quality Of Life
Positive
Symptoms
Social Functioning
Negative
Schizophrenia
QoL
Bprs
Global State
Weight Gain
Adverse Effects
Extrapyramidal Symptoms
Mental State
Outcomes
Panss
Service
Relapse
Subjective Well-being
Tolerability
Efficacy
Evidence
General Functioning
Psychopathology
Psychotic Symptoms
Quality

Definition

Click a concept to view its MeSH Definition

4. Group together PICO elements

1. Drag and drop the Group box into the concepts box.
2. Group together sets of populations, interventions, or outcomes. This group will function like the OR operator in search strings. In this example, specific types of antipsychotic medications are grouped together.
3. You can also negate whole groups by checking the box next to Negate.

Search Exploration: Atypical Antipsychotics for Schizophrenia

Nest Home

Dashboard

Settings

Literature Search

1 / 1

Other Sources

Duplicate Review

Search Exploration

Screening

2 / 60

Configure Screening

Tagging

Configure Tagging

Extraction

Configure Extraction

Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Create

Concept:

Type then "enter"

Group:

Group

Concepts

Intervention

Clozapine

Aripiprazole

Risperidone

Atypical Antipsychotics

Negate

Population

Schizophrenia

Negate

Outcome

Positive and Negative Syndrome Scale

Disability

Quality of Life

Disability

Quality of Life

PANSS

Positive and Negative Syndrome Scale

Negate

Drag & Drop

Negate

Preview

Finalize

1 (

2 Clozapine

3 OR

4 Aripiprazole

5 OR

6 Risperidone

7 OR

8 Atypical Antipsychotics

9)

10 AND

11 (

12 Schizophrenia

13)

14 AND

15 (

16 Positive and Negative Syndrome Scale

17 OR

18 Disability

19 OR

20 Quality of Life

21 OR

22 Disability

23 OR

24 Quality of Life

25 OR

26 PANSS

27 OR

28 Positive and Negative Syndrome Scale

29)

2441 results

Refresh Exploration

Abstracts

RoboPICO

Topics

Keywords

5. Run or Update Search Exploration

To populate Abstracts, RoboPICO, Topic Modeling, and Keywords:

1. In the PICO Detail, select “Update Exploration Records” in the bottom right hand corner.
2. Review the query string to ensure that it is structured as intended.
3. Run the exploratory search. This may take a minute, since this will run a pre-search of PubMed.

Population

Schizophrenia

Intervention

Atypical Antipsychotics

Risperidone

Aripiprazole

Clozapine

Outcome

Quality of Life

Disability

Positive and Negative Syndrome Scale

Positive and Negative Syndrome S...

Add a PICO element:

Type

Population

Note

Drop

Update Exploration Records

After collecting a number of PICOs, you may wish to update the set of records you are exploring to better match your research question. Updating & running the below search will refresh the set of records used in Search Exploration (including visuals and models). Updating this search will have **no** impact on any finalized literature searches and records in your nest.

A search built on your PICOs and groupings has been pre-populated, but you may also modify it by hand. This search will be executed against PubMed; large searches are downsized by relevancy.

(

(

Schizophrenia

)

AND

(

Atypical Antipsychotics

)

)

Cancel

Run

When you update search exploration, the references in your nest **will not change**. The records and data returned from this step will only be used for Search Exploration.

How to Interpret Search Exploration Findings

There are several ways to explore the references pulled by your exploratory search. The goal of this process should be to **expand or refine your search terms** so that they return as many records of interest while limiting irrelevant results.

Iterative Refinement: As you use the tools outlined below to add, remove, or restructure your terms, you should periodically re-run “Update Search Exploration”, as this is **only run manually**, and not automatically updated.

1. Abstracts

Skim through abstracts retrieved through your search exploration terms.

Search Exploration: Atypical Antipsychotics for Schizophrenia

Nest Home

Dashboard

Settings

Literature Search

1 / 1

Other Sources

Duplicate Review

Search Exploration

Query Builder

Screening

2 / 59

Configure Screening

Tagging

Configure Tagging

Extraction

Configure Extraction

Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Population

Schizophrenia

Intervention

Atypical Antipsychotics

Risperidone

Aripiprazole

Clozapine

Outcome

Quality of Life

Disability

Positive and Negative Syndrome S...

Positive and Negative Syndrome S...

Add a PICO element:

Type

Population

Negated

Element

Note

Add

Abstracts

RoboPICO

Topics

Keywords

PICO Detail

Query Builder

PubMed

Navigation

Back

Next

References

Title	Year
Cost-effectiveness of first- v. second-generation antipsychotic drugs: results from a randomised controlled trial in schizophrenia responding poorly to previous therapy.	2007
A multicentre, randomized, naturalistic, open-label study between aripiprazole and standard of care in the management of community-treated schizophrenic patients Schizophrenia Trial of Aripiprazole (STAR) study.	2007
Neuroprotection: a therapeutic strategy to prevent deterioration associated with schizophrenia.	2007
Prediction of remission as a combination of symptomatic and functional remission and adequate subjective well-being in 2960 patients with schizophrenia.	2006

Cost-effectiveness of first- v. second-generation antipsychotic drugs: results from a randomised controlled trial in schizophrenia responding poorly to previous therapy.

BACKGROUND

 There are claims that the extra costs of atypical (second-generation) antipsychotic drugs over conventional (first-generation) drugs are offset by improved health-related quality of life. **AIMS** To determine the relative costs and value of treatment with **conventional or atypical antipsychotics** in people with schizophrenia. **METHOD** Cost-effectiveness acceptability analysis integrated clinical and economic randomised controlled trial data of **conventional and atypical antipsychotics** in routine practice. **RESULTS** **Conventional antipsychotics** had lower costs and higher quality-adjusted life-years (QALYs) than atypical antipsychotics and were more than 50% likely to be cost-effective. **CONCLUSIONS** The primary and sensitivity analyses indicated that **conventional antipsychotics** may be **cost-saving and associated with a gain in QALYs** compared with atypical antipsychotics.

Population/Problem

Intervention

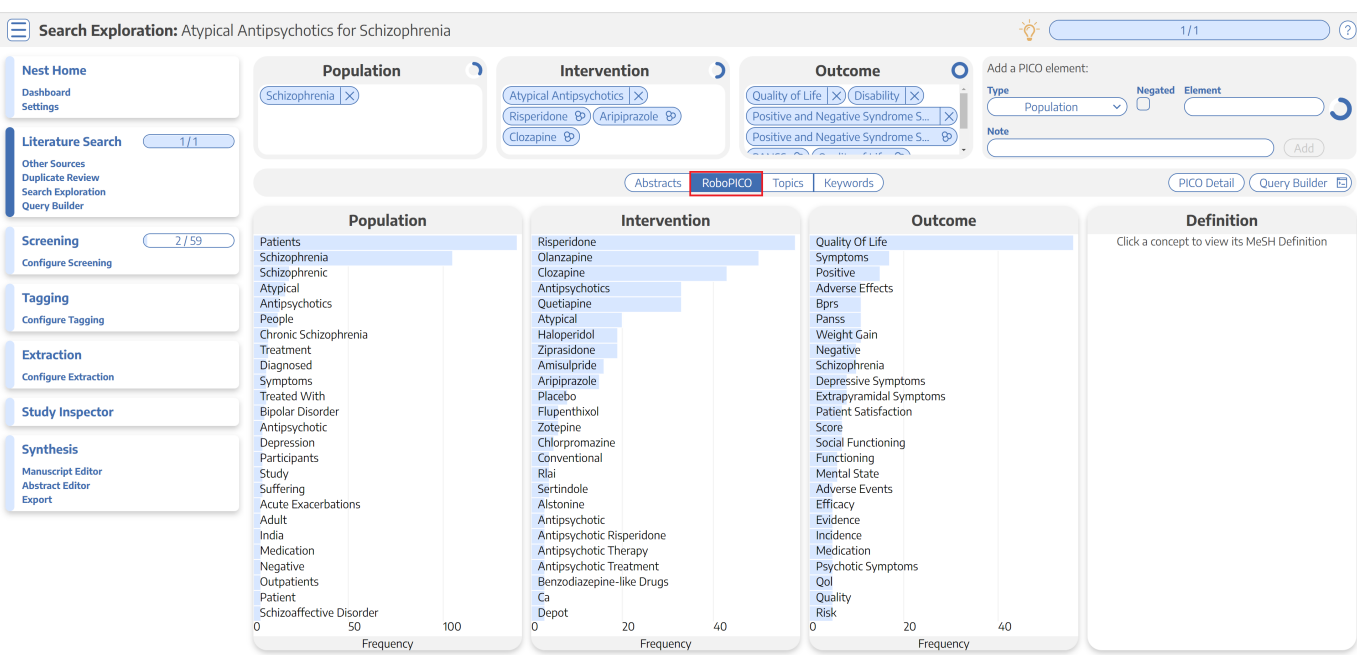
Outcome

The purpose of reviewing Abstracts should be to:

1. Confirm that your search is returning relevant records, and
2. Identify the key terms found in relevant records and adding them to your PICO terms.

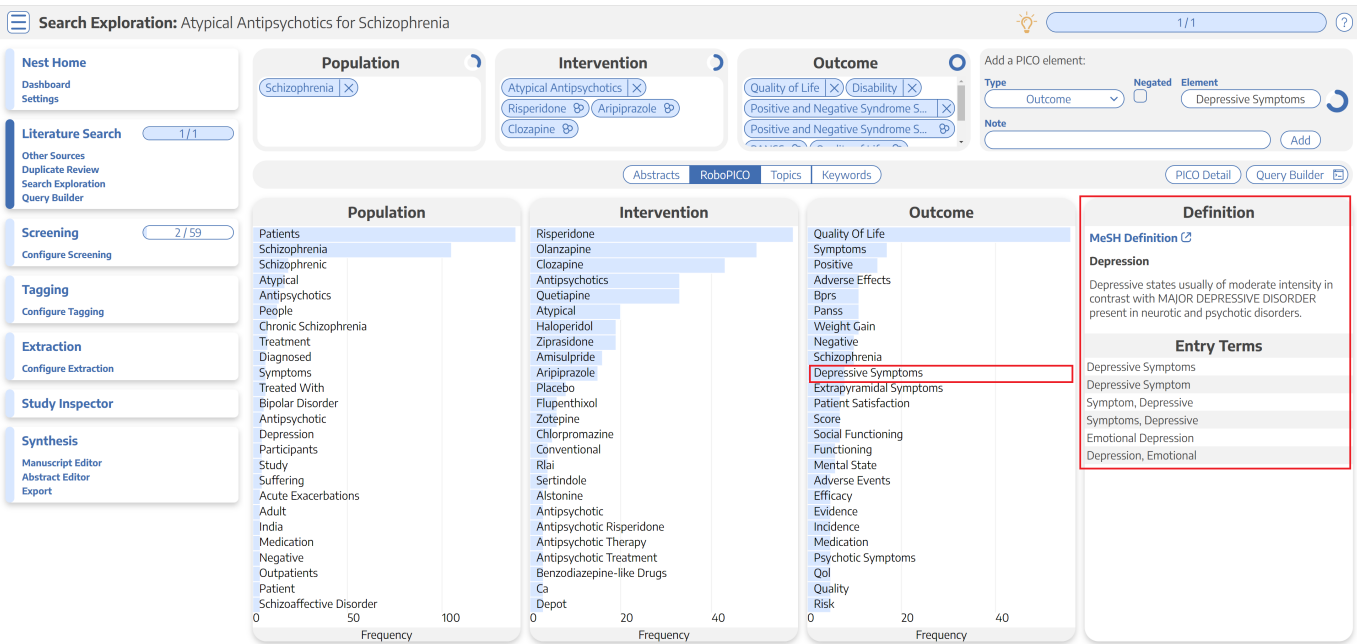
2. RoboPICO

Browse commonly-mentioned Populations, Interventions, and Outcomes from abstracts and titles. PICO elements are identified by **RoboPICO**, which is an open source fork of the models offered in **RobotReviewer**.



- The purpose of RoboPICO should be to:
1. Identify the most common topics of underlying abstracts, and
 2. Identify terms that you should add to your PICO (which you can populate to “Add a PICO Element” by clicking on the relevant row).

Clicking a row in the chart also initiates a strict MeSH lookup on the PICO element; not all extracted PICOs will correspond to MeSHs, but expect approximately half of lookups to succeed. In the event of a failed lookup, MeSH and Google search linkouts are offered.



What are MeSH? Medical Subject Headings (MeSH) are terms defined by the National



Library of Medicine as a way to organize and search the content of medical literature. In some ways, MeSH are similar to Nested Knowledge tags, but unlike tags, MeSH are standardized.

3. Topics

Explore topics that appear most frequently among the references. References may belong to one or more topics, or none. Clicking a topic shows references belonging to the topic.

Search Exploration: Atypical Antipsychotics for Schizophrenia

Nest Home

Dashboard

Settings

Literature Search

1 / 1

Other Sources

Duplicate Review

Search Exploration

Query Builder

Screening

2 / 59

Configure Screening

Tagging

Configure Tagging

Extraction

Configure Extraction

Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Population

Schizophrenia

Intervention

Atypical Antipsychotics

Risperidone

Aripiprazole

Clozapine

Outcome

Quality of Life

Disability

Positive and Negative Syndrome S...

Positive and Negative Syndrome S...

Add a PICO element:

Type

Outcome

Negated

Element

Treated with Olanzapine

Add

Abstracts

RoboPICO

Topics

Keywords

PICO Detail

Query Builder

Outcome Measures	Versus Atypical	Amisulpride in Schizophrenia	Clozapine and ZScale and ClirSwitching to ATreated with Quet Domains
Atypical Neuroleptics	Aripiprazole for Schizophrenia	Conventional Agents	Schizophrenia in Remission
	General Functioning	Months of Treatment	Schizophrenia or tHealth care CcPrevention of Schiz
Depression in Schizophrenia	Treatment Costs	Psychotic Disorders	Subjective Well-being
	Weight Gain	Newer Antipsychotics	Doses of Typical Antipsycho
Treated with Olanzapine			Better Subjective
			Dichotomous Data We Calcula
			Metabolic SyndrPaliperidone
			Evidence Suggests
			Long-acting Injectabl
			Fewer RelapsMechanisms o

References By Topic

Title	Year
Novel antipsychotics, extrapyramidal side effects and tardive dyskinesia.	1998
The SOHO (Schizophrenia Outpatient Health Outcome) study: implications for the treatment of schizophrenia.	2006
A multicentre, randomized, naturalistic, open-label study between aripiprazole and standard of care in the management of community-treated schizophrenic patients Schizophrenia Trial of Aripiprazole: (STAR) study.	2007
Pharmacoeconomic studies of atypical antipsychotic drugs for the treatment of schizophrenia.	1999
Aripiprazole for schizophrenia.	2006
Atypical antipsychotic agents: a critical review.	2000
[Neuroleptic malignant syndrome and atypical antipsychotics: a brief review].	2008
Antipsychotic medication, functional outcome and quality of life in schizophrenia: focus on amisulpride.	2010

These topics are derived from a [Carrot2](#) clustering of abstract text to identify semantically similar concepts and group them.

4. Keywords and N-Grams

Explore the frequency of word combinations (n-grams) from abstracts or indexed descriptors (MeSH and/or journal keywords). While n-grams are presented in order of occurrence in abstract text, descriptors are inherently unordered. Clicking a row shows unique references containing the combination.

Search Exploration: Atypical Antipsychotics for Schizophrenia

1/1

Nest Home

Dashboard

Settings

Literature Search

1/1

Other Sources

Duplicate Review

Search Exploration

Query Builder

Screening

2/59

Configure Screening

Tagging

Configure Tagging

Extraction

Configure Extraction

Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Population

Schizophrenia

Intervention

Atypical Antipsychotics

Risperidone

Aripiprazole

Clozapine

Outcome

Quality of Life

Disability

Positive and Negative Syndrome S...

Positive and Negative Syndrome S...

Add a PICO element:

Type

Outcome

Negated

Element

Treated with Olanzapine

Note

Add

Abstracts

RoboPICO

Topics

Keywords

PICO Detail

Query Builder

Keywords

Columns (N): 2

Keywords/MeSHs

Abstract n-grams

Rank	N-gram (1)	N-gram (2)	Frequency
1	Atypical	Antipsychotics	292
2	Quality	Life	265
3	Patients	Schizophrenia	113
4	Atypical	Antipsychotic	93
5	Rr	Ci	82
6	Negative	Symptoms	71
7	Long	Term	68
8	Adverse	Effects	67
9	Quality	Evidence	60
10	Antipsychotic	Drugs	57
11	Treatment	Schizophrenia	56
12	Low	Quality	51
13	N	Rr	47
14	Conventional	Antipschotics	45

Associated References

Click a row to view associated references.

Search Exploration: Atypical Antipsychotics for Schizophrenia

1/1

Nest Home

Dashboard

Settings

Literature Search

1/1

Other Sources

Duplicate Review

Search Exploration

Query Builder

Screening

2/59

Configure Screening

Tagging

Configure Tagging

Extraction

Configure Extraction

Study Inspector

Synthesis

Manuscript Editor

Abstract Editor

Export

Population

Schizophrenia

Intervention

Atypical Antipsychotics

Risperidone

Aripiprazole

Clozapine

Outcome

Quality of Life

Disability

Positive and Negative Syndrome S...

Positive and Negative Syndrome S...

Add a PICO element:

Type

Outcome

Negated

Element

Treated with Olanzapine

Note

Add

Abstracts

RoboPICO

Topics

Keywords

PICO Detail

Query Builder

Keywords

Columns (N): 2

Keywords/MeSHs

Abstract n-grams

Rank	Keyword (1)	Keyword (2)	Frequency
1	Antipsychotic Agents	Humans	156
2	Humans	Schizophrenia	146
3	Antipsychotic Agents	Schizophrenia	144
4	Humans	Quality Of Life	76
5	Antipsychotic Agents	Quality Of Life	75
6	Quality Of Life	Schizophrenia	73
7	Adult	Humans	71
8	Adult	Antipsychotic Agents	69
9	Female	Humans	65
10	Humans	Male	65
11	Antipsychotic Agents	Male	64
12	Adult	Schizophrenia	63
13	Antipsychotic Agents	Female	63
14	Female	Male	61

Associated References

Click a row to view associated references.

Next Steps

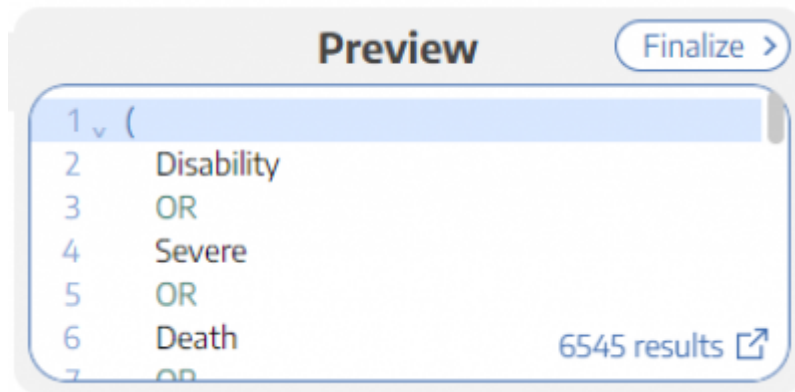
When is Search Exploration finished?

You should continue iteratively refining your query until your Abstract, RoboPICO, Topics, and/or Keywords contain mostly relevant content and minimal extraneous records or concepts.

It is useful to **check the total number of records** returned from your query. To do so, view the number of records in the bottom right of the Preview screen, where you can also click to view the query on PubMed:

https://wiki.nested-knowledge.com/

Printed on 2024/05/17 22:17



There is no 'right' number of records, but a good rule of thumb is to return:

1. A maximum of **200-300 records**, with
2. An anticipated inclusion rate **at or above 20%**.

The reasoning behind this recommendation is that you want to capture relevant records while minimizing extra work during Screening (remember, your team will need to manually Screen all results from your Search!). You can always add new/expanded Searches as you proceed, so achieving a high rate of inclusion should be prioritized over comprehensiveness.

What comes after Search Exploration?

When you are finished with Search Exploration, proceed to review, test, and finalize your search string in [Lit Search](#)!

From:
<https://wiki.nested-knowledge.com/> - **Nested Knowledge**

Permanent link:
<https://wiki.nested-knowledge.com/doku.php?id=wiki:autolit:search:exploration&rev=1680988974>

Last update: **2023/04/08 21:22**