# **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

Nest Home	
Dashboard Settings	
Literature Search Other Sources Duplicate Review Search Exploration	1/1

# 2. Enter PICO of Interest:

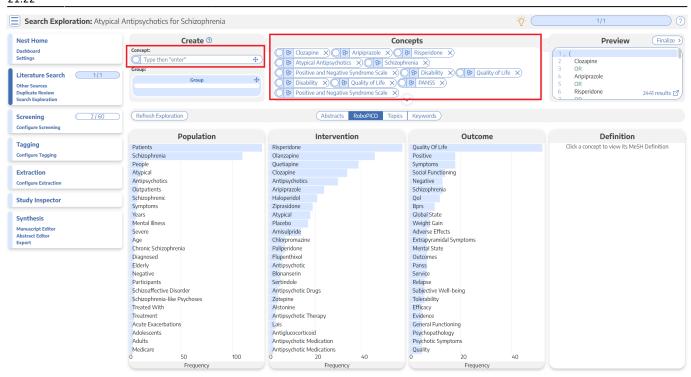
When you create a nest, you will have the option to add details about the Population, Interventions (and comparators), and Outcomes (PICO).

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

- 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).

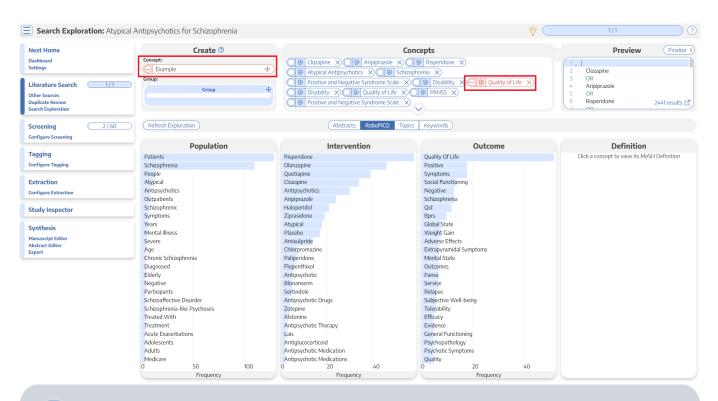
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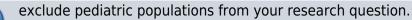
?

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



### 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.

Nest Home	Create <sup>(2)</sup>		Concepts	Preview (Finali
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	Population	Intervention	Outcome	Definition
Tagging	Patients	Risperidone	Quality Of Life	Click a concept to view its MeSH Definition
Configure Tagging	Schizophrenia	Olanzapine	Positive	
	People	Quetiapine	Symptoms	
Extraction	Atypical	Clozapine	Social Functioning	
Configure Extraction	Antipsychotics	Antipsychotics	Negative	
	Outpatients	Aripiprazole	Schizophrenia	
Study Inspector	Schizophrenic	Haloperidol	Qol	
	Symptoms	Ziprasidone	Bprs	
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Manuscript Editor	Severe	Amisulpride	Adverse Effects	
Abstract Editor	Age	Chlorpromazine	Extrapyramidal Symptoms	
Export	Chronic Schizophrenia	Paliperidone	Mental State	
	Diagnosed	Flupenthixol	Outcomes	
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	Schizoaffective Disorder	Antipsychotic Drugs	Subjective Well-being	
	Schizophrenia-like Psychoses	Zotepine	Tolerability	
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#### 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.

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<b>Search Exploration:</b> Atypical A	ntipsychotics for Schizophrenia		-Ŏ- 🤇	1/1 ?
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	(Refresh Exploration )	(Abstracts RoboP/CO Topics Keywords)		2441 results 단

#### 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.

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	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: Atypi	ical Antipsychotics for Schizophren	ia					-ğ- 🤇	1/1	
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Configure Tagging Extraction Configure Extraction	atypical antipsychotics in people randomised controlled trial data lower costs and higher quality-a	with schize of <mark>conventi</mark> djusted life	ophrenia. METHOD Cost-effecti onal and atypical antipsychotic years (QALYs) than atypical an	veness a in rout ipsycho	elative costs and value of treatme icceptability analysis integrated cli ne practice. RESULTS Convention tics and were wore than 50% like	inical and al antipsy ly to be c	economic chotics had ost-effective.	Cost-effectiveness of first- v. second- generation antipsychotic drugs: results from a randomised controlled trial in schizophrenia responding poorly to previous therapy.	2007
Study Inspector Synthesis Manuscript Editor Abstract Editor Exoort	GoncLUSIONS The primary and gain in QALYs compared with aty Population/Problem Inte	/pical antip	sychotics.	ional an	tipsychotics may be cost-saving a	nd assoc	lated with a	A multicentre, randomized, naturalistic open-label study between aripiprazole and standard of care in the manageme of community-treated schizophrenic patients Schizophrenia Trial of Aripiprazole: (STAR) study.	
сарота								Neuroprotection: a therapeutic strateg to prevent deterioration associated wit schizophrenia.	
								Prediction of remission as a combinatic of symptomatic and functional remissi and adequate subjective well-being in 2960 patients with schizophrenia.	on 2006

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.

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zaci y bunaci	Population		Intervention	1	Outcome	2	Definition
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	Schizophrenic		Clozapine		Positive		
Fagging	Atypical		Antipsychotics		Adverse Effects		
	Antipsychotics People		Quetiapine		Bprs Panss		
Configure Tagging	Chronic Schizophrenia		Atypical Haloperidol		Weight Gain		
	Treatment		Ziprasidone		Negative		
Extraction	Diagnosed		Amisulpride		Schizophrenia		
Configure Extraction	Symptoms		Aripiprazole		Depressive Symptoms		
	Treated With		Placebo		Extrapyramidal Symptoms		
Study Inspector	Bipolar Disorder		Flupenthixol		Patient Satisfaction		
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	Negative		Antipsychotic Treatment		Psychotic Symptoms		
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	Schizoaffective Disorder		Depot		Risk		
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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.

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	Chronic Schizophrenia		Haloperidol		Weight Gain		
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study inspector	Antipsychotic		Zotepine		Score		
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xport	Acute Exacerbations		Alstonine		Efficacy		
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	Medication		Antipsychotic Therapy		Medication		
	Negative		Antipsychotic Treatment		Psychotic Symptoms		
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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.

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Configure Tagging							The SOHO (Schizophrenia Outpatient Health Outcome) study: implications for the treatment of schizophrenia.	2006
Extraction		Aripiprazole for Schizophrenia	iprazole for Schizophrenia Conventional Agents				A multicentre, randomized, naturalistic,	
Configure Extraction	Atypical Neuroleptics	Schizon		chizophrenia in Remiss	ion	open-label study between aripiprazole		
Study Inspector	Acypical Neuroleptics	General Functioning	Months of Treatment	Schizophrenia or EHealth care CcPi		are CcPrevention of Schiz	and standard of care in the management of community-treated schizophrenic patients Schizophrenia Trial of	200
Synthesis			Month's of Treatment	Subjective Well-being			Aripiprazole: (STAR) study.	
Manuscript Editor Abstract Editor Export	Depression in Schizophrenia					o v GeneraSecond Generatio	Pharmacoeconomic studies of atypical antipsychotic drugs for the treatment of schizophrenia.	199
		Treatment Costs	Psychotic Disorders	D. H. C. Li . K. C.			Aripiprazole for schizophrenia.	200
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	Treated with Olanzapine	Weight Gain	Newer Antipsychotics	Evidence Suggests	Long-acting Injectable <sub>Fe</sub>	wer Relaps Mechanisms o	[Neuroleptic malignant syndrome and atypical antipsychotics: a brief review].	200
						in the manage spirit find in sins of	Antipsychotic medication, functional outcome and quality of life in schizophrenia: focus on amisulpride.	201

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 occurence in abstract text, descriptors are inherently unordered. Clicking a row shows unique references containing the combination.

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	9	Quality	Evidence	60	
	10	Antipsychotic	Drugs	57	
	11	Treatment	Schizophrenia	56	
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# **Next Steps**

## When is Search Exploration finished?

13

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.

Female

Male

Antipsychotic Agents

Female

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:

63

61

		Preview	Finalize >
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2	Disability		-
3	OR		
4	Severe		
5	OR		
6	Death		6545 results 🖸 🛛
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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!

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