

LEAP-IN (ED) ASK & ACQUIRE

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ASK

AQUIRE

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Reminder & References

1. Objectives

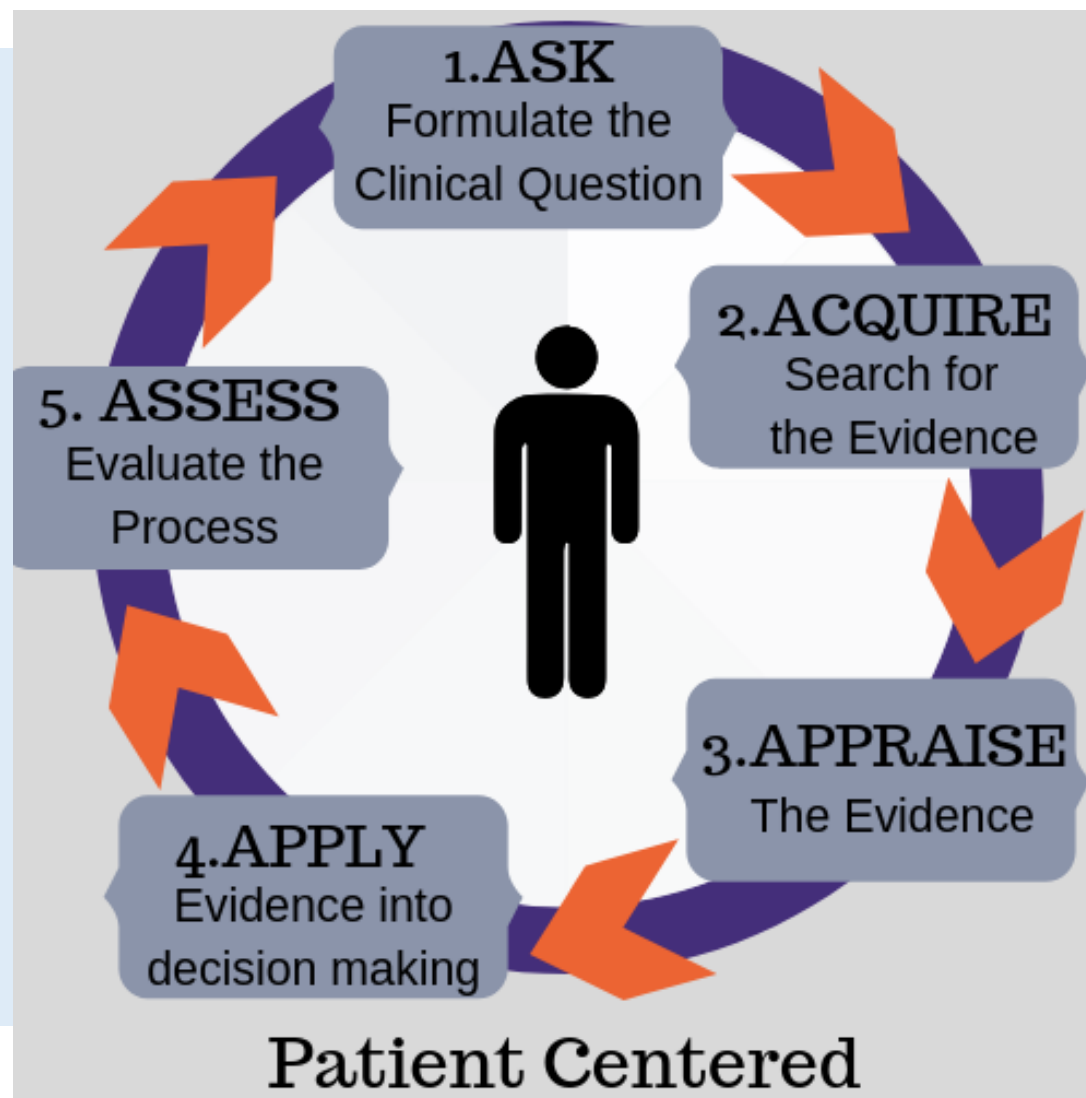
OBJECTIVES

At the end of this workshop you should:

- Understand the importance of EBNP and how to conduct the ASK and ACQUIRE Steps of EBNP
- Understand the difference between a foreground and background question
- Identify and utilize appropriate sources of information for answering foreground and background questions
- Be familiar with a few different point of care tools available to you in the CIUSSS West Central Montreal (Nursing Reference Center Plus, Uptodate, Rx Vigilance, Online Care Methods)
- Be able to formulate an answerable search question
- Be more familiar with the key biomedical databases: CINAHL, MEDLINE, and Google Scholar
- Be able to successfully conduct a search in CINAHL, MEDINE, and Google Scholar in order to acquire evidence to support your projects

2. Evidence Based Nursing Practice

The 5 Steps of Evidence Based Practice



Evidence-Based Nursing Practice: 7-Step Model



3. Types of Questions

TYPES OF QUESTIONS

EXAMPLE: Background Question

How do you treat high blood sugar in diabetics?

Where to search for an answer: In a textbook, a manual, a handbook, a narrative review article ...

Foreground Questions

➤ EXAMPLE: Foreground Question

In diabetic patients who have a history of uncontrolled high blood sugar, is nutritional counselling an effective intervention?

Where to search for an answer: biomedical databases (Cinahl, Medline, etc...)

Background Questions

Novice



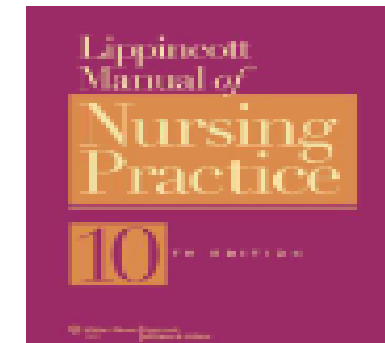
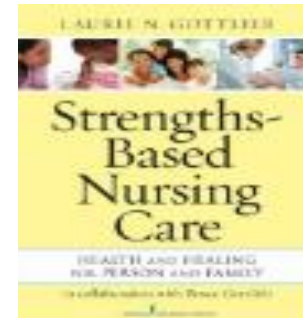
Expert

4. Guyatt et al. (2002)

Sometimes you need to do your background reading
BEFORE you can formulate a search, i.e. foreground
question

Sources for background info

- Textbooks
- Encyclopedias
- Handbooks
- Manuals
- Point-of-care tools
- Dictionaries



UpToDate®

Contents ▾ Calculators Drug Interactions

Nursing
Reference Center *Plus*

Point-of-Care Tools at the JGH and CIUSSS

- [Nursing Reference Center Plus](#)
- [UptoDate](#)
- [RX Vigilance \(CIUSSS\)](#)
- [Online Care Methods \(CIUSSS\)](#)

Find the full list at <https://www.jgh.ca/care-services/health-sciences-library/>

What is Nursing Reference Center Plus?

- A evidence-based point-of-care tool to answer clinical questions.
- Includes:
 - Evidence-based summaries
 - Skills
 - Management skills
 - Cultural competencies
 - Continuing education
 - Etc.
- Mostly for nurses, but also includes evidence in allied health.

Textbooks at the JGH Health Sciences Library

- Can be used on-site or borrowed for 1 day
- Inter-library loan service: request a book if we don't have it, including chapters of ebooks emailed to you in PDF format
- Available to JGH staff 24/7, library personnel available for consult M-F 8:30-4:30
- Suggest books to be added to the collection
- Search the collection: <https://www.jgh.ca/care-services/health-sciences-library/>

library.jgh@mail.mcgill.ca

514-340-8222 x25931

4. Formulating Answerable Search Questions

ACTIVITY – FOREGROUND QUESTIONS

- Please think of a **foreground** question that you have asked yourself recently or are currently asking yourself in your clinical practice where you searched for evidence (or would like to):
 - A foreground question asks for “specific knowledge to inform clinical decisions or actions”¹
- If you haven’t searched the evidence, write down the question as you formulated it for yourself.
- If you did search the evidence, write it down the way that you formulated it when you searched the evidence.

Anatomy of a Well Built Clinical Question

P (Patient, Population, or Problem) Whom is the question about?

I (Intervention or exposure) What intervention are you considering in the patient or population? Define

C (Comparison) If necessary, define what you are comparing your intervention or exposure to.

O (Outcome) Define your desired outcome

➤ Try putting your question into a PICO Format

ACTIVITY

- Is your question an answerable clinical question:
 - Does it contain more than one clinical question?
 - Are you able to put it into a PICO format?
 - Does it have a least two of the four PICO elements?
 - Does it contain more than four concepts?
- Now that you know what an answerable clinical question looks like, would you ask yourself this question in the same way?
- If not, reformulate your question.

Scenario

- Your patient is an 8 year old boy with autism spectrum disorder.
- His parents regularly have him taking a variety of nutritional supplements.
- They say that this dramatically improves his symptoms.
- You would like to verify the validity of using nutritional supplementation to treat autism spectrum disorder.

How would you search?

EXAMPLE: Foreground question

Question: You are looking for literature on the validity of using nutritional supplementation as a therapy for children with autism spectrum disorder.

Population (children with autism spectrum disorder)

Intervention (nutritional supplementation)

Comparison /

Outcome (improved autism spectrum disorder symptoms)

Where to search for an answer:
In biomedical databases (like CINAHL)

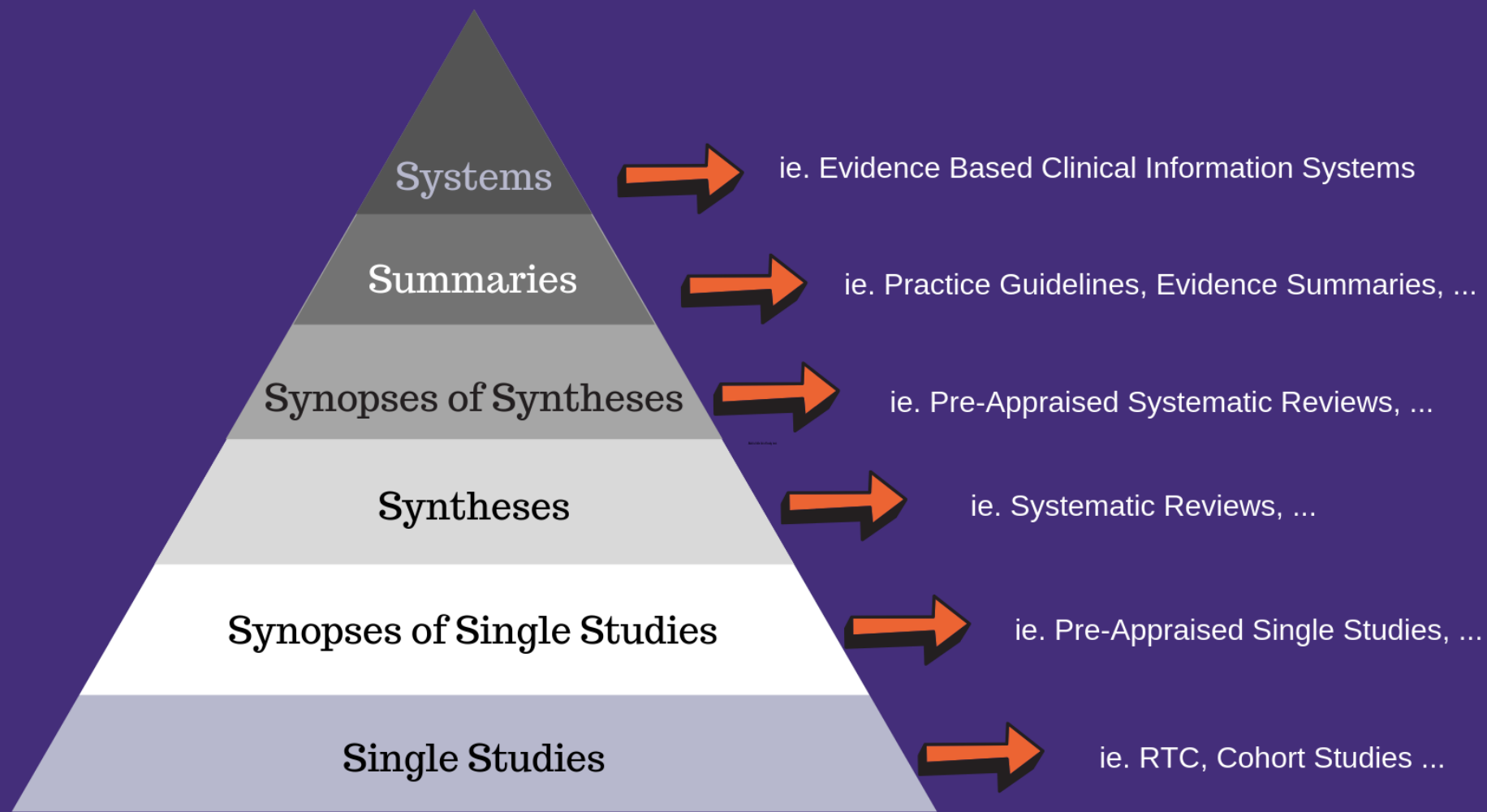
Identifying Key Concepts without PICO

Look at your question. Remove all extra words:

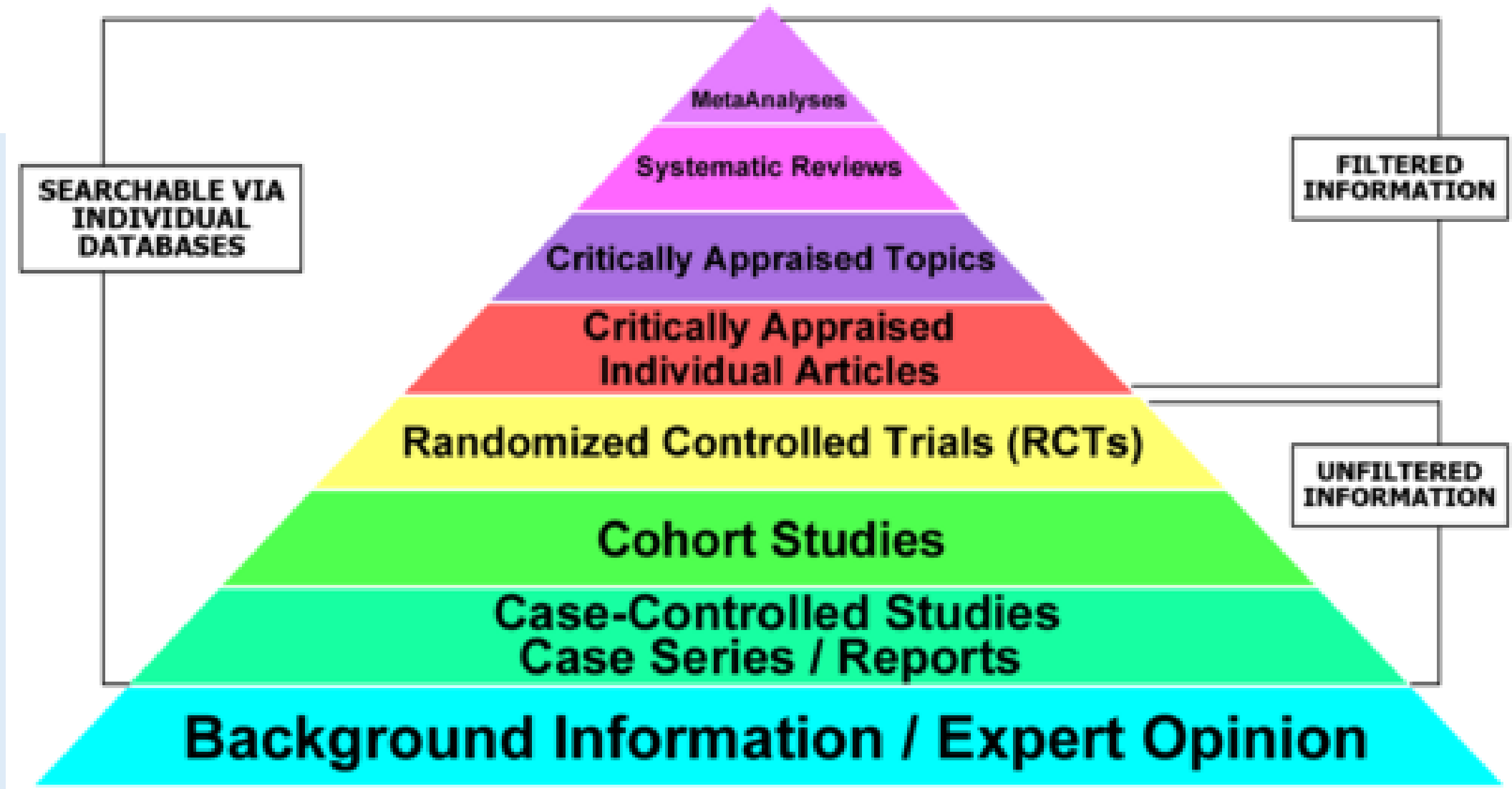
You are looking for literature on the validity of using nutritional supplementation as a therapy for children with autism spectrum disorder.



~~You are looking for literature on the validity of using nutritional supplementation as a therapy for children with autism spectrum disorder.~~



6S Hierarchy of Evidence



Types of Questions and Best Evidence

➤ Depending on the type of question you are asking, the best evidence to answer it will be different.























Type of Question	Best Evidence
Diagnosis (Test)	Quantitative Comparison to Gold Standard
Therapy (treatment, Prevention)	Quantitative Systematic Review of RCT, RCT
Etiology / Harm	Quantitative Observational Study: Cohort or Case Control
Prognosis	Quantitative Observational Study: Cohort or Case Control
Economics	Quantitative Cost effectiveness study
Meaning	Qualitative, Mixed Methods Case study, ethnography, grounded theory, phenomenological approach

5. Background Knowledge for Searching the Literature

Getting to the databases

- Go to the [JGH Health Sciences Library Website Homepage](http://jgh.ca/hsl) (shortcut: jgh.ca/hsl)
- Then, scroll down to select your desired database under *CIUSSS West Central Montreal e-resources*, *e-resources restricted to onsite JGH access*, or *Free Online e-resources*

CIUSSS West Central Montreal e-resources

-  [A to Z Drug Facts](#)
-  [CINAHL Complete](#)
-  [CINAHL Education](#) (CE for Nurses and allied health professionals)
-  [EBM Reviews ALL](#) (OVID)
-  [EBM Reviews - ACP Journal Club](#) (OVID)
-  [EBM Reviews - Cochrane Central Register of Controlled Trials](#) (OVID)
-  [EBM Reviews - Cochrane Clinical Answers](#) (OVID)
-  [EBM Reviews - Cochrane Database of Systematic Reviews](#) (OVID)
-  [EBM Reviews - Cochrane Methodology Register](#) (OVID)
-  [EBM Reviews - Database of Abstracts of Reviews of Effects](#) (OVID)
-  [EBM Reviews - Health Technology Assessment](#) (OVID)
-  [EBM Reviews - NHS Economic Evaluation Database](#) (OVID)
-  [Embase](#) (OVID)
-  [Kaplan & Sadock's Comprehensive Textbook of Psychiatry](#) (OVID)
-  [Medical Reference e-Books](#) (in French)
-  [MEDLINE](#) (OVID)
-  [Online Care Methods](#)
-  [Ovid Discovery-Lite](#)
-  [e-journals LWW Total Access Collection](#) (OVID)
-  [PsycARTICLES](#) (OVID)
-  [PsycINFO](#) (OVID)
-  [Rx Vigilance](#)

Keywords

- Keywords are words that appear in the record.
- They are usually words in the title or abstract of the article and are in the authors vocabulary.
- You will only find your keyword if it is in the article's record exactly as you have entered it (exact spelling, no plural, no synonyms...).
- You can use truncation * (example: cancer*=cancer, cancers, cancerous, etc.)
- In most databases you can search for keywords by using the Textword field or by searching "ALL fields".

Examples of Keywords:

Cancer, Cancers, Cancerous, Tumor, Tumour, Tumors, Tumours, Carcinoma, Sarcoma, Neoplasm, Neoplasms, Neoplastic (...)

Subject Headings

- Subject headings are controlled vocabularies used to index contents in different databases.
- Each Biomedical Database has its own Subject Headings.
- Subject Headings are organized into trees (hierarchically)
- MeSH is the name of the controlled vocabulary used in MEDLINE.
- MEDLINE articles are indexed with MeSH by librarians at the National Library of Medicine in the US.
- In CINAHL, subject headings are sometimes referred to as “subject terms” and are called CINAHL Subject Headings.
- If the indexing is perfect, when you search a subject heading, you will find all the articles about this topic.

Example of MeSH: Neoplasms

Example of corresponding CINAHL Subject Heading: Neoplasms

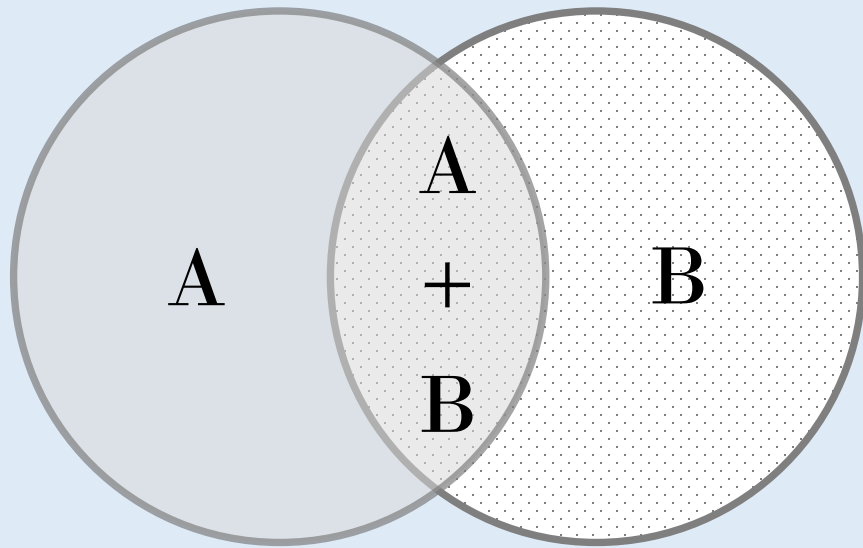
Which should I use?

BOTH



- Searching using only Subject headings is not ideal:
 - Indexing is never perfect as it usually done by humans.
 - There may not be a subject heading for your concept.
Example: Concepts like “72 hours” or a very rare disease may not have a corresponding subject heading.
- Searching using only keywords is more imprecise.
- Searching using subject headings and keywords together works like building blocks:
 - Take one concept at a time and build your search.
 - Searching with both subject headings and keywords will give you the best chance of getting as many relevant results as possible without having too many irrelevant results.

BOOLEAN OPERATORS



Use Boolean operators to combine your concepts
(Subject headings/keywords)

AND = A+B (both concepts must be included - use to build your final search, based on the PICO if you have one)

OR = A, A+B, B (either of selected concepts are included - use to combine Subject heading/keyword synonyms)

NOT = A only (use to see what has been excluded from one search combination compared

SEARCH ALGORITHM FOR BIOMEDICAL DATABASES

Subject Heading

OR

Keyword

AND

Subject Heading

OR

Keyword

=

Results

Concept Map

OR	AND		AND		AND	
	Concept 1	Concept 2	Concept 3	Concept 4	SYNONYMS	

Reminder of our example PICO

Question: You are looking for literature on the validity of using nutritional supplementation as a therapy for children with autism spectrum disorder.

Population (children with autism spectrum disorder)

Intervention (nutritional supplementation)

Comparison /

Outcome (improved autism spectrum disorder symptoms)

EXAMPLE: Concept Map

OR OR	AND		S Y N O N Y M S
	Concept 1	Concept 2	
	Autism spectrum disorder	Nutritional supplements	
	Asperger's syndrome	Nutritional supplementation	
	Autism	Dietary supplements	

6. Searching the Literature

Deciding where to search

- In order to find relevant literature to answer a question, it is essential to look in the right place.

CINAHL

Why search in CINAHL?

- The topic is a nursing or allied health topic
- The question is on the psychosocial aspects of a health topic
- Key concepts map easily to subject headings
 - Terms commonly used in nursing practice
 - You can easily combine the terms using AND & OR

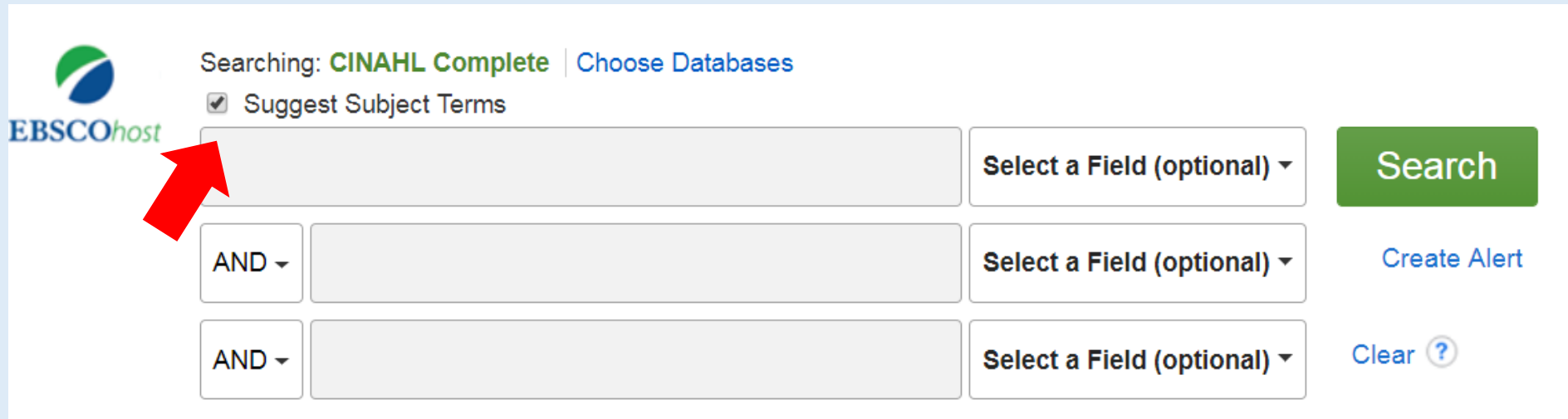
What is CINAHL?

- CINAHL stands for: “Cumulative Index to Nursing and Allied Health Literature”
- CINAHL is a biomedical database that covers nursing and allied health topics
- CINAHL Complete is a version of CINAHL

Producer	EBSCO Health
Coverage & Updating	1937 to present, updated weekly 5400+ journals indexed
Full text coverage	Complete or partial full text for nearly 1 400 journals indexed.
# of references	4.1 million+
Languages	22
Content	<ul style="list-style-type: none">▪ Indexes literature in nursing & allied health (physiotherapy, occupational therapy, speech and language pathology, nutrition, etc.).▪ Books, book chapters, conference proceedings, journal articles, websites, consumer health literature, dissertations and theses.
Search Options	<ul style="list-style-type: none">▪ Subject headings (MeSH + CINAHL SH) and subheadings, AND, OR, limits by age group, year of publication, language, review articles, etc.▪ Keyword searching by field, truncation using *

Suggest Subject Terms

- Use keywords to “map” to Subject headings
- In other words...
 - You type in your keyword: autism
 - Database suggests the best Subject Heading: Autistic disorder



The screenshot shows the EBSCOhost search interface. At the top left is the EBSCOhost logo. To its right, it says 'Searching: CINAHL Complete' with a link to 'Choose Databases'. Below this is a checkbox labeled 'Suggest Subject Terms' which is checked. A red arrow points to the first search input field. To the right of the input fields are three dropdown menus, each labeled 'Select a Field (optional)'. On the far right, there is a green 'Search' button, a blue 'Create Alert' link, and a blue 'Clear' link with a question mark icon.

SUBJECT HEADINGS & KEYWORDS

Results For: autism

Check box to view subheadings. | Click linked term for tree view.

Explode (+) | Major Concept | Scope

Autism Use: [Autistic Disorder](#)

☐ [Autistic Disorder](#)

Autism Spectrum Disorders Use: [Autistic Disorder](#)

Autism Spectrum Disorder Use: [Autistic Disorder](#)

Autistic Spectrum Disorders Use: [Autistic Disorder](#)

Autistic Spectrum Disorder Use: [Autistic Disorder](#)

(...)

☐ [Rett Syndrome](#)

☐ [Developmental Disabilities](#)

☐ [Asperger Syndrome](#)

☐ autism (Search as Keyword) ?

When you are using suggest subject terms:

- You will have the option to search whatever you typed in as a keyword

Explode, Major Concept, & Scope

- Explode: click this box if you want to include in the search all the concepts that are narrower- click on the Subject heading to see where it falls on the tree (this will expand your search)
- Major Concept: click this box if you want to find only articles in which the indexer has designated this subject heading as being a major concept in the article (this will limit your search)
- Scope: click here to view the scope note

- Example: Scope Note For Autistic Disorder

Scope Note:	Severe child developmental disorder characterized by impaired social competence, significantly decreased range of interests and activities, and clinically significant deficits in speech and cognition.
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Using the Search History

The order
searched in



<input type="checkbox"/> Select / deselect all <input type="button" value="Search with AND"/> <input type="button" value="Search with OR"/> <input type="button" value="Delete Searches"/> <input type="button" value="Refresh Search Results"/>			
Search ID#	Search Terms	Search Options	Actions
<input type="checkbox"/> S8	S3 AND S6	Limiters - Published Date: 20140101-20191231 Narrow by SubjectAge: - all child Narrow by Language: - english Search modes - Boolean/Phrase	View Results (42) View Details Edit
<input type="checkbox"/> S7	S3 AND S6	Search modes - Boolean/Phrase	View Results (178) View Details Edit
<input type="checkbox"/> S6	S4 OR S5	Search modes - Boolean/Phrase	View Results (37,736) View Details Edit
<input type="checkbox"/> S5	"nutrition* supplement*"	Search modes - Boolean/Phrase	View Results (2,392) View Details Edit
<input type="checkbox"/> S4	(MH "Dietary Supplements") OR "dietary supplements" OR (MH "Dietary Supplementation")	Search modes - Boolean/Phrase	View Results (36,720) View Details Edit
<input type="checkbox"/> S3	S1 OR S2	Search modes - Boolean/Phrase	View Results (24,747) View Details Edit
<input type="checkbox"/> S2	"autism spectrum disorder*"	Search modes - Boolean/Phrase	View Results (10,203) View Details Edit
<input type="checkbox"/> S1	(MH "Autistic Disorder") OR "autism"	Search modes - Boolean/Phrase	View Results (24,747) View Details Edit


LIMITING AND EXPANDING THE SEARCH

MY  **EBSCOhost**

Searching: **CINAHL Complete** | [Choose Databases](#)

☒ Suggest Subject Terms

	Select a Field (optional) ▼	Search	Create Alert
AND ▼			
AND ▼			

[Clear](#) 

[Basic Search](#) [Advanced Search](#) [Search History](#)



- Advanced Search
- Limiters and Expanders:
- Expanding the search = Getting more results
- Limiting the search = Getting fewer results

Search Options

Reset

Search Modes and Expanders

Search modes

- ☒ Boolean/Phrase
- ☐ Find all my search terms
- ☐ Find any of my search terms

Apply equivalent subjects

☐

(...)

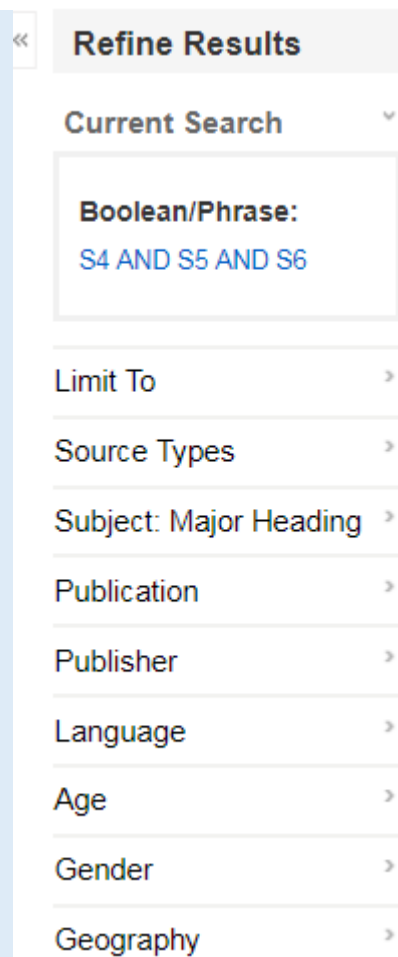
Apply related words

☐

Also search within the full text of the articles

☐

Refining the Search



- Situated on the left hand side of your search results
- In our example we could refine our search as follows:
 - Limit to: Last 5 years (= Publication date 2014 to 2019)
 - Age: All child
 - Language: English & French

Create a Personal Account for CINAHL

- To save your searches
- To set up search alerts to stay informed of the latest developments on topics of particular interest to you
- Is the same personal account as for Nursing Reference Center Plus!

[New Search](#) [Publications](#) [CINAHL Subject Headings](#) [Evidence-Based Care Sheets](#) [More ▾](#) [Sign In](#) [Folder](#) [Preferences](#) [Languages ▾](#) [Ask a JGH Librarian](#) [Help](#)



Searching: **CINAHL Complete** | [Choose Databases](#)

☒ Suggest Subject Terms

Select a Field (optional) ▾

Search

AND ▾

Select a Field (optional) ▾

[Create Alert](#)

AND ▾

Select a Field (optional) ▾

[Clear](#) [?](#)

[Basic Search](#) [Advanced Search](#) [Search History](#)

Library Logo

MEDLINE

Why search in MEDLINE via OVID?

- The topic is a medical topic
- You prefer the OVID interface over the PubMed Interface for searching Medline (matter of personal preference and ease of searching)
- Key concepts map easily to subject headings
 - Terms commonly used in medical practice
 - You can easily combine the terms using AND & OR

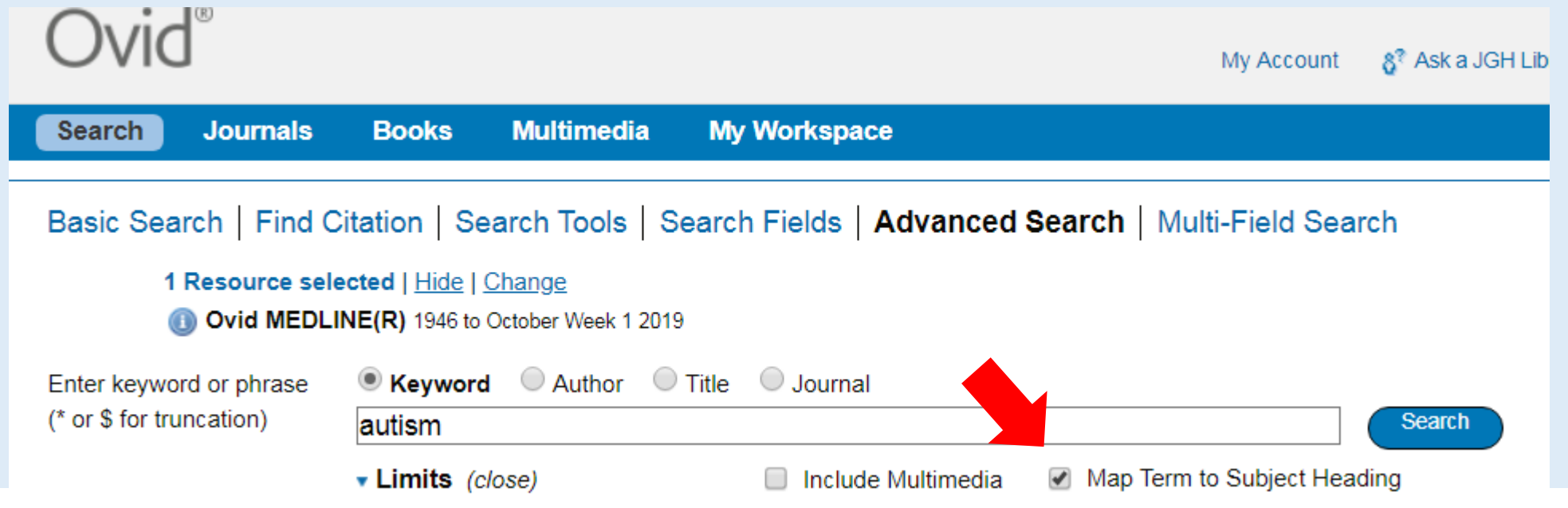
What is MEDLINE via OVID?

- When you search MEDLINE via OVID, you are searching the MEDLINE component of PubMed using the OVID interface which is produced by Wolters Kluwer Health.
- MEDLINE is the Peer Reviewed part of PubMed which is indexed using MeSH.

Producer	National Library of Medicine, U.S. / Wolters Kluwer Health
Coverage & Updating	1950 to present, updated daily 5600+ journals indexed
Full text	available if subscription to journal is held by your institution
# of references	30 million + 1 million + added every year
Languages	60+
Content	<ul style="list-style-type: none">▪Contains journal articles covering the full range of evidence from experimental studies to systematic reviews, with editorials and review articles as well.▪All life sciences, clinical, research, allied health, and related fields - medicine, nursing, dentistry, rehabilitation sciences, veterinary medicine, health care administration, and preclinical sciences, etc.
Search Options	<ul style="list-style-type: none">▪Subject headings (MeSH) and subheadings, AND, OR, limit by date, type of publication, age group, etc.▪Subheadings, Keywords, Truncation using *, Adjacency ...

Map Term to Subject Headings

- Use keywords to “map” to Subject headings
- In other words...
 1. You type in your keyword: autism and click on Search
 2. Database suggests the best Subject Heading: Autistic disorder



The screenshot shows the Ovid MEDLINE(R) search interface. At the top, the Ovid logo is on the left, and 'My Account' and 'Ask a JGH Lib' are on the right. Below this is a blue navigation bar with 'Search', 'Journals', 'Books', 'Multimedia', and 'My Workspace'. Underneath is a white bar with links: 'Basic Search', 'Find Citation', 'Search Tools', 'Search Fields', 'Advanced Search', and 'Multi-Field Search'. Below this, it says '1 Resource selected | Hide | Change' and 'Ovid MEDLINE(R) 1946 to October Week 1 2019'. The search area has a label 'Enter keyword or phrase (* or \$ for truncation)' and a text input field containing 'autism'. To the right of the input field are radio buttons for 'Keyword' (selected), 'Author', 'Title', and 'Journal'. A large red arrow points to the 'Keyword' radio button. To the right of the input field is a blue 'Search' button. Below the input field, there is a 'Limits (close)' section with two checkboxes: 'Include Multimedia' (unchecked) and 'Map Term to Subject Heading' (checked).

SUBJECT HEADINGS & KEYWORDS

Your term mapped to the following Subject Headings:

Click on a subject heading to view more general and more specific terms within the tree.

See term mapped to thesaurus term

☐ Include All Subheadings


Combine with:

Select	Subject Heading	Explode	Focus	Scope
<input checked="" type="checkbox"/>	Autistic Disorder	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	autism.mp. search as Keyword			

When you are using “Map to Subject Headings”:

- You will have the option to search whatever you typed in as a keyword

Explode, Focus, & Scope

Select	Subject Heading	Explode	Focus	Scope
<input checked="" type="checkbox"/>	Autistic Disorder	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	autism.mp. search as Keyword			

- Explode: click this box if you want to include in the search all the concepts that are narrower (this will expand your search)
- Click on the Subject heading to see where it falls on the tree

- Focus: click this box if you want to find only articles in which the indexer has designated this subject heading as being a major concept in the article (this will limit your search)

- Scope: click here to view the scope note.
- You should do this if you want to determine if a subject heading is the right one for your search (or which proposed subject heading is most appropriate)

Scope Note for: *Autistic Disorder*

MeSH HEADING: AUTISTIC DISORDER

SCOPE: A disorder beginning in childhood, markedly restricted repertoire of activity and individual. (DSM-V)

YEAR of ENTRY: 1981(1966)

SEARCH NOTE: use AUTISM, INFANTILE

PREVIOUS INDEXING: Autism (1966-1970)

REFERENCES: Used For:

autism
autism, early infantile

Using the Search History

▼ Search History (8)

[View S](#)

<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	autism.mp. or Autistic Disorder/	37519	Advanced	Display Results More ▼	
<input type="checkbox"/>	2	autism spectrum disorder.mp. or Autism Spectrum Disorder/	12108	Advanced	Display Results More ▼	
<input type="checkbox"/>	3	1 or 2	37519	Advanced	Display Results More ▼	
<input type="checkbox"/>	4	dietary supplements.mp. or Dietary Supplements/	56120	Advanced	Display Results More ▼	
<input type="checkbox"/>	5	nutritional supplement.mp.	1347	Advanced	Display Results More ▼	
<input type="checkbox"/>	6	nutritional supplementation.mp.	1685	Advanced	Display Results More ▼	
<input type="checkbox"/>	7	4 or 5 or 6	57797	Advanced	Display Results More ▼	
<input type="checkbox"/>	8	3 and 7	181	Advanced	Display Results More ▼	

The order
searched in



Refining the Search

- | | | |
|--|---|---|
| <input type="checkbox"/> Abstracts | <input type="checkbox"/> Structured Abstracts | <input type="checkbox"/> English Language |
| <input type="checkbox"/> Evidence Based Medicine Reviews | <input type="checkbox"/> Article Reviews (ACP Journal Club) | <input type="checkbox"/> Full Text |
| <input type="checkbox"/> Review Articles | <input type="checkbox"/> Article Reviews (DARE) | <input type="checkbox"/> Humans |
| <input type="checkbox"/> Topic Reviews (Cochrane) | <input type="checkbox"/> Core Clinical Journals (AIM) | <input type="checkbox"/> Latest Update |
| <input type="checkbox"/> Pharmacologic Actions | | |

Publication Year -

Languages

-
- Afrikaans
- Albanian
- Arabic
- Armenian
- Azerbaijani

Clinical Queries

-
- Reviews (maximizes sensitivity)
- Reviews (maximizes specificity)
- Reviews (best balance of sensitivity and specificity)
- Therapy (maximizes sensitivity)
- Therapy (maximizes specificity)

[Additional Limits](#) [Edit Limits](#)

- Situated above the search history and on the left hand side of the search results
- Click on “Additional Limits” to see more possible Limits

Refining the Search - Continued

▼ Search History (9)						View
<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	autism.mp. or Autistic Disorder/	37519	Advanced	Display Results More ▼	
<input type="checkbox"/>	2	autism spectrum disorder.mp. or Autism Spectrum Disorder/	12108	Advanced	Display Results More ▼	
<input type="checkbox"/>	3	1 or 2	37519	Advanced	Display Results More ▼	
<input type="checkbox"/>	4	dietary supplements.mp. or Dietary Supplements/	56120	Advanced	Display Results More ▼	
<input type="checkbox"/>	5	nutritional supplement.mp.	1347	Advanced	Display Results More ▼	
<input type="checkbox"/>	6	nutritional supplementation.mp.	1685	Advanced	Display Results More ▼	
<input type="checkbox"/>	7	4 or 5 or 6	57797	Advanced	Display Results More ▼	
<input type="checkbox"/>	8	3 and 7	181	Advanced	Display Results More ▼	
<input type="checkbox"/>	9	limit 8 to ((english or french) and (children or "humans only (removes records about animals)")) and last 5 years)	108	Advanced	Display Results More ▼	

➤ In our example we could refine our search as follows:

- Limit to: Last 5 years (= Publication date 2014 to 2019)
- Special OVID Filters for MEDLINE: “Humans Only” and “Children”
- Language: English & French

Create a Personal Account for OVID Databases

- To save your searches
- To set up search alerts to stay informed of the latest developments on topics of particular interest to you
- Click on my account to login or to create an account for the first time
- If you are creating an account for the first time, click on “Create account” on the login page


Personal Account Login

Personal Account Name:

Password:

Login

[Forgot Account Name or Password?](#)



Don't have an Account?

Use a Personal Account to save searches, create alerts and manage research.

[Create Account](#)

Google Scholar

Why search in Google Scholar?

- The topic is broad, either medical, nursing or pharma related
- The relationships between key concepts are difficult to establish using AND & OR
- You want to do snowballing i.e. check who cited an article you found that is older than you would like, or you want to quickly find a reference from another article
- You think the answer may also be found in a book
- You want to get familiar with a completely new topic
- You want to find the full text for a specific article

Why search in Google Scholar? - Continued

- You are looking for:
 - Guidelines
 - drug warnings
 - how to use equipment, how to avoid air embolism... as opposed to the research
 - definitions, correct spelling, nursing blogs, access consumer health resources etc.
- NOTE:
 - Guidelines can also be found here:
 - RNAO www.rnao.org/Page.asp?PageID=861&SiteNodeID=270
 - CMA <https://www.cma.ca/En/Pages/clinical-practice-guidelines.aspx>
 - National Guidelines Clearinghouse www.guideline.gov
 - Drug warnings can also be found on Health Canada:
www.hc-sc.gc.ca/dhp-mpps/prodpharma/databasdon/index-eng.php

TIPS & TRICKS

Sign Into / Create your Personal Account for Google Scholar

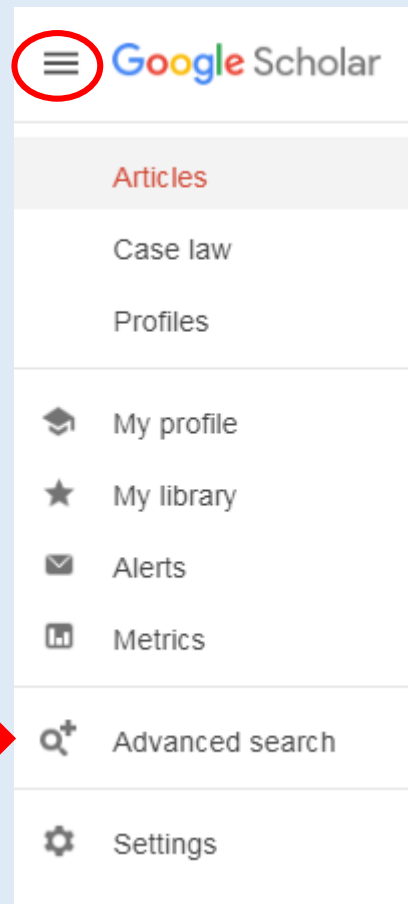
- To save searches, articles in your personal library, settings...
- To set up search alerts to stay informed of the latest developments on topics of particular interest to you

Advanced Search

➤ How to get to advanced Search:

- 1) Go to Google Scholar:
<https://scholar.google.com/>
- 2) Click on the symbol that looks like 3 stacked bars in the upper left corner of your window
- 3) Click on Advanced Search in the Menu
- 4) A popup will open with the advanced search box

2



3

4

A screenshot of the Google Scholar Advanced Search popup. The popup has a title bar with a close button (X) and the text 'Advanced search'. Below the title bar, there are several search criteria sections: 'Find articles with all of the words', 'with the exact phrase', 'with at least one of the words', 'without the words', 'where my words occur' (with radio buttons for 'anywhere in the article' and 'in the title of the article'), 'Return articles authored by', 'Return articles published in', and 'Return articles dated between'. Each section has a corresponding input field. The 'Advanced search' option from the menu is highlighted with a red arrow pointing to it.

Related Articles

- If you find an article that is relevant to your search, you can use this function to look for similar articles.

How **nutritional** status, diet and dietary **supplements** can affect **autism**. A review

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - agro.icm.edu.pl

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. **Autism** Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

☆ ⓘ Cited by 61 [Related articles](#) [All 10 versions](#) [Import into EndNote](#) ⓘ



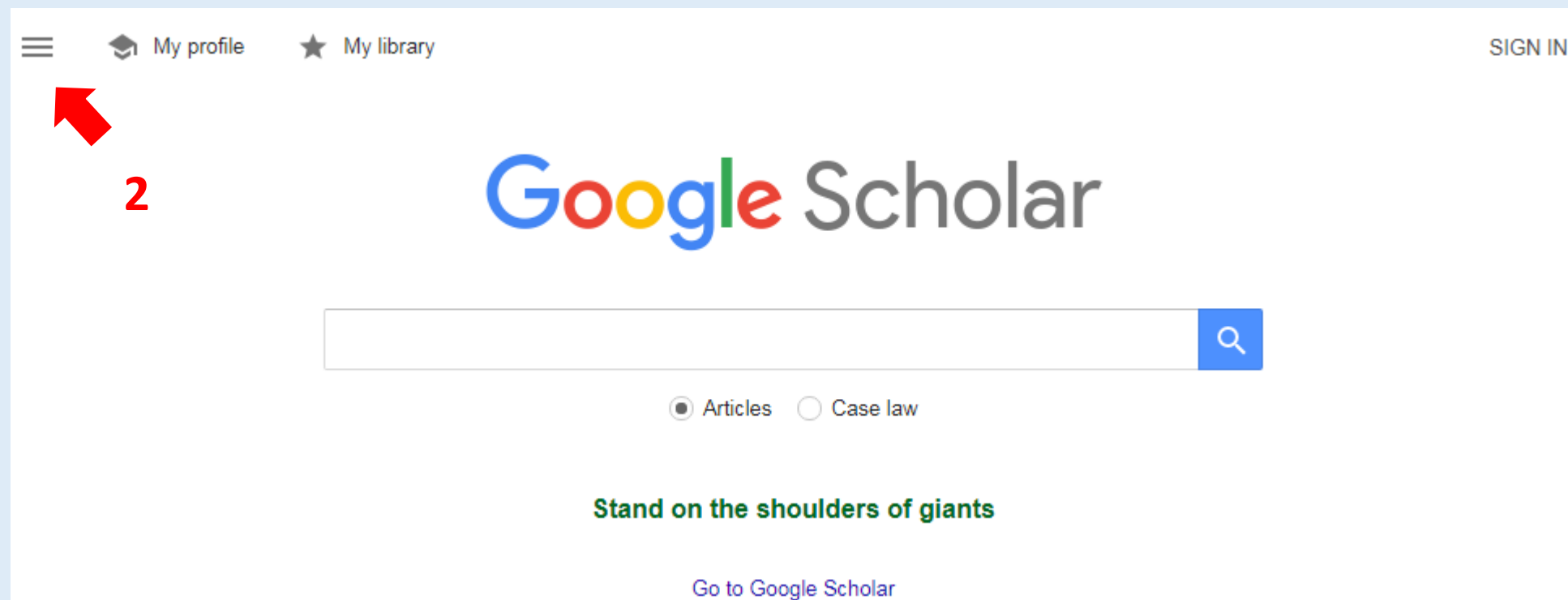
Finding Full Text

Library Links in Google Scholar

- Activate your library links in Google Scholar to find full text of journal articles

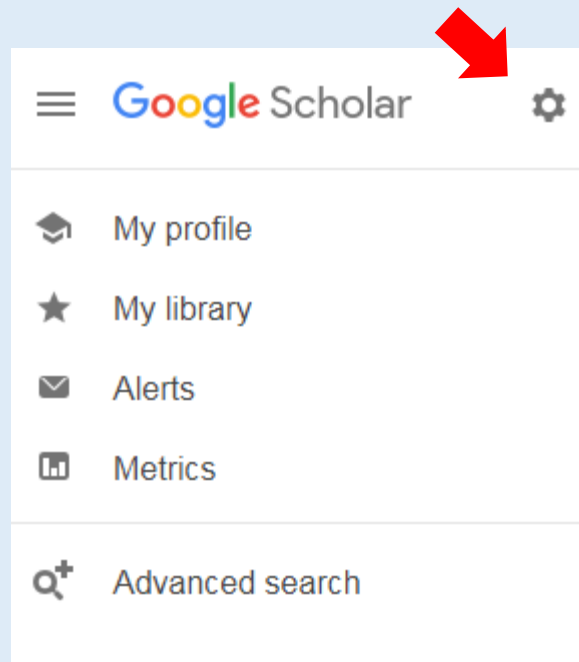
Library Links - Continued

- 1) Go to Google Scholar:
<https://scholar.google.com/>
- 2) Click on the symbol that looks like 3 stacked bars in the upper left corner of your window

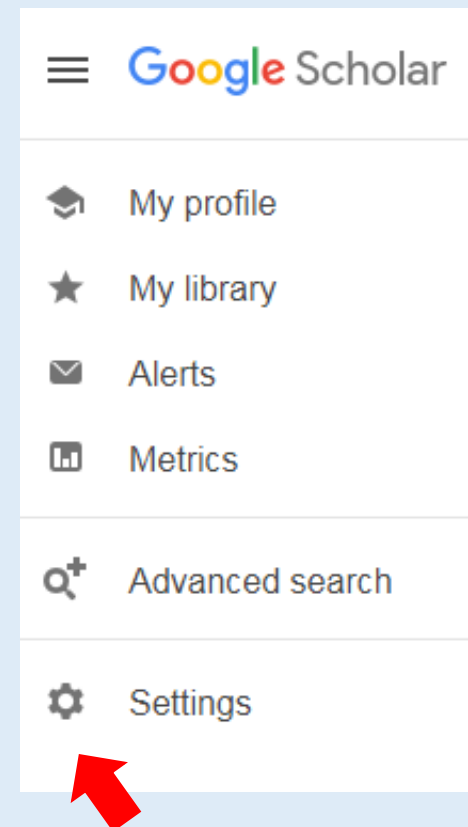


Library Links - Continued

3) Open the settings



or



Library Links - Continued

4) In the menu that opens up, choose “Library Links”

5) In the search box, search for “JGH”

Google Scholar SIGN IN

Settings

Search results
Languages
Library links
Account
Button

4

Show library access links for (choose up to five libraries):

JGH
e.g., Harvard

5

☒ Canadian National Catalogue - Find in AMICUS
☐ Jewish General Hospital - Health Sciences Library - JGH Library - Full Text

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

Save Cancel

To retain settings, you must turn on cookies

Library Links - Continued

6) Check the box beside “Jewish General Hospital – Health Sciences Library – JGH Library – Full Text”

7) Save

Google Scholar SIGN IN

Settings

Search results
Languages
Library links
Account
Button

Show library access links for (choose up to five libraries):

JGH
e.g., Harvard

☒ Canadian National Catalogue - Find in AMICUS
☒ Jewish General Hospital - Health Sciences Library - JGH Library - Full Text

Online access to library subscriptions is usually restricted to patrons of that library. You may need to login with your library password, use a campus computer, or configure your browser to use a library proxy. Please visit your library's website or ask a local librarian for assistance.

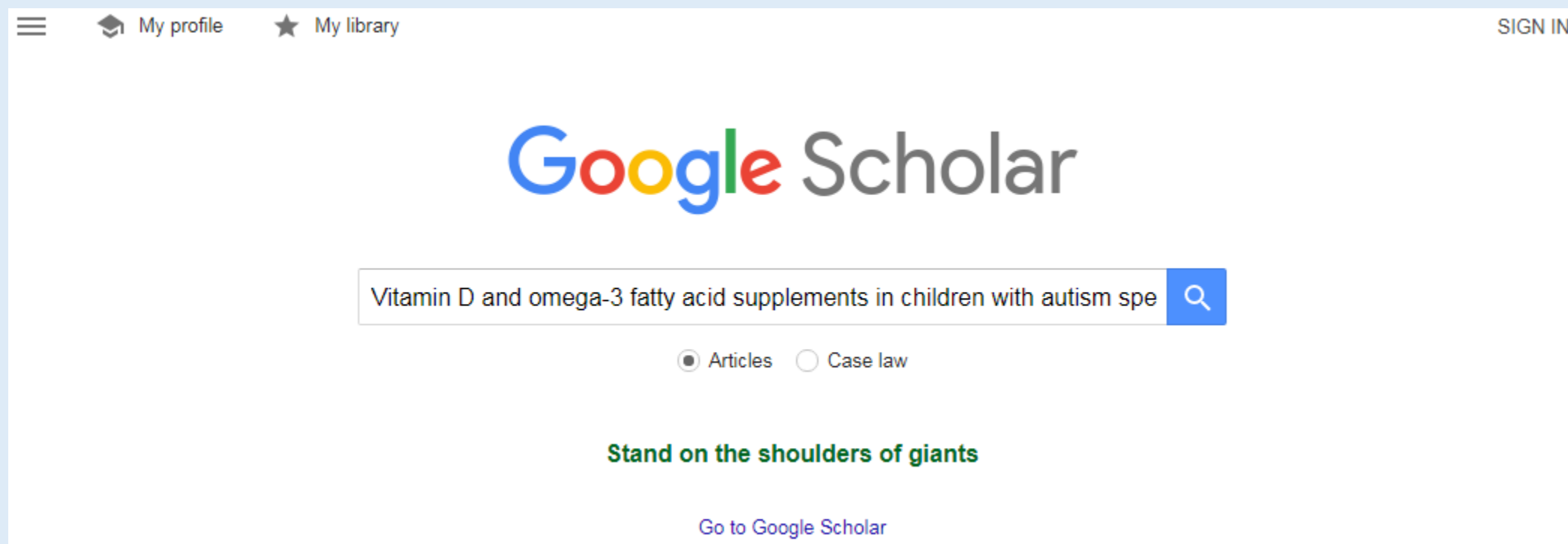
Save **Cancel**

To retain settings, you must turn on cookies

Library Links - Continued

8) Look up the title of your article in Google scholar

Note: copy paste you title into the search bar or type it in



Library Links - Continued

9) Verify that the article that comes up corresponds to the article you are looking for (same title, authors, publication year, journal...)

10) Click on “JGH Library – Full Text” beside the article you want the full text of

The screenshot shows a Google Scholar search for "Vitamin D supplements in children with autism spectrum disorder". The search results list several articles. The first article is "Retracted: Randomized controlled trial of vitamin D supplementation in children with autism spectrum disorder" by K Saad, A Abdel-Rahman, and Y Elserogy, published in the Journal of Child Psychology and Psychiatry in 2018. The second article is a retraction of the same study, published in 2019. The third article is "Clinical improvement following vitamin D3 supplementation in autism spectrum disorder" by J Feng, L Shan, L Du, B Wang, H Li, and W Wang, published in Nutritional Neuroscience in 2017. The fourth article is "Open-Label Trial of Vitamin D3 Supplementation in Children with Autism Spectrum Disorder" by S Bent, A Ailarov, KT Dang, and F Widjaja, published in The Journal of Child Psychology and Psychiatry in 2017. The fifth article is "[HTML] Vitamin D and omega-3 fatty acid supplements in children with autism spectrum disorder: a study protocol for a factorial randomised, double-blind, placebo controlled trial" by H Mazaheri, C Conlon, KL Beck, and MC Kruger, published in Trials in 2016. To the right of each article title, there is a link to the full text, such as "[PDF] semanticscholar.org" or "[HTML] biomedcentral.com". A red arrow points to the link for the fifth article, which is labeled "10".

Google Scholar Vitamin D supplements in children with autism spectrum disorder

Articles About 10,700 results (0.15 sec)

Any time
Since 2019
Since 2018
Since 2015
Custom range...

Sort by relevance
Sort by date

☒ include patents
☒ include citations

☐ Create alert

Retracted: Randomized controlled trial of **vitamin D supplementation** in **children with autism spectrum disorder** [PDF] semanticscholar.org
K Saad, A Abdel-Rahman, Y Elserogy... - Journal of Child ..., 2018 - Wiley Online Library
Background **Autism spectrum disorder (ASD)** is a frequent developmental disorder characterized by pervasive deficits in social interaction, impairment in verbal and nonverbal communication, and stereotyped patterns of interests and activities. It has been previously ...
☆ 99 Cited by 72 Related articles All 10 versions Import into EndNote

Retraction: Randomized controlled trial of **vitamin D supplementation** in **children with autism spectrum disorder**
K Saad, A Abdel-Rahman, Y Elserogy... - Journal of Child ..., 2019 - Wiley Online Library
The above article, published in print in the Jan 2018 issue of the Journal of Child Psychology & Psychiatry and online in Wiley Online Library (wileyonlinelibrary.com), has been retracted by the JCPP Editor-in-Chief, Edmund Sonuga-Barke, and John Wiley & ...
☆ 99 All 3 versions Import into EndNote

Clinical improvement following **vitamin D3 supplementation** in **autism spectrum disorder** [PDF] happywellandfed.com.au
J Feng, L Shan, L Du, B Wang, H Li, W Wang... - Nutritional ..., 2017 - Taylor & Francis
... **Autism** and lack of **D3 vitamin**: a systematic review ... 21 Jia F, Wang B, Shan L, Xu Z, Staal WG, Du L. Core symptoms of **autism** improved after **vitamin D supplementation** ... Is high prevalence of **vitamin D** deficiency a correlate for attention deficit hyperactivity disorder ...
☆ 99 Cited by 53 Related articles All 7 versions Import into EndNote

Open-Label Trial of **Vitamin D3 Supplementation** in **Children with Autism Spectrum Disorder** [PDF] escholarship.org
S Bent, A Ailarov, KT Dang, F Widjaja... - The Journal of ..., 2017 - liebertpub.com
Prior studies have demonstrated that **vitamin D** levels are significantly lower in individuals with **autism spectrum disorder (ASD)**, 1 and an increased risk of **autism** has been reported in studies where individuals are exposed to less sunlight or produce less **vitamin D**. 2-4 Open ...
☆ 99 Related articles All 7 versions Import into EndNote

[HTML] **Vitamin D** and omega-3 fatty acid **supplements** in **children with autism spectrum disorder**: a study protocol for a factorial randomised, double-blind, placebo ... [HTML] biomedcentral.com
H Mazaheri, C Conlon, KL Beck, MC Kruger... - ..., 2016 - trialsejournal.biomedcentral.com

10



Versions of an article

- Sometimes if no link shows up beside the Article in Google Scholar, if you check other versions of the article you may be able to find a link to full text.

How **nutritional status**, diet and dietary **supplements** can affect **autism**. A review

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - agro.icm.edu.pl

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. **Autism** Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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How nutritional status, diet and dietary supplements can affect autism. A review

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Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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How nutritional status, diet and dietary supplements can affect autism. A review

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - yadda.icm.edu.pl

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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How nutritional status, diet and dietary supplements can affect autism. A review

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - agro.icm.edu.pl

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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[PDF] HOW NUTRITIONAL STATUS, DIET AND DIETARY SUPPLEMENTS CAN AFFECT AUTISM. A REVIEW

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - pdfs.semanticscholar.org

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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[PDF] semanticscholar.org
JGH Library - Full Text

How nutritional status, diet and dietary supplements can affect autism. A review.

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu ..., 2013 - europepmc.org

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

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JGH Library - Full Text

How nutritional status, diet and dietary supplements can affect autism. A review

A Kawicka, B Regulska-Ilow - Roczniki Państwowego Zakładu Higieny, 2013 - infona.pl

Autism is a neurodevelopmental disorder with symptoms arising that are apparent throughout the patient's lifespan. Autism Spectrum Disorders (ASD) are characterised by impaired social and communication interactions as well as restricted, repetitive interests and ...

99 Import into EndNote »

Notes on “ JGH Library – Full Text” Button

- Shows up in Google scholar with the library links enabled, and also in some other biomedical databases.
- When you click on the “ JGH Library – Full Text” button, you can click through the pages to see if you can get the full text of the article or if you would like to consider an interlibrary loan (more on this in the next slide)
- In Google Scholar, if another link shows up beside the article (for example with the prefix HTML or PDF), this should also take you to the full text.

Interlibrary Loan Requests

- When you can't access the full text of an article that you need through CIUSSS, JGH, or Open access resources you can request the article (or book!) through Inter-library loan.
- When a staff member submits an interlibrary loan request, a library staff member will attempt to obtain a loan or copy of the desired item from another library. If we can get the item for free this is a free service for staff.
- When you click on the "JGH Library – Full Text" or "Find it at JGH" buttons you might be able to choose to request an interlibrary loan, if so the article's information will be pre-filled in the request form.
- You can also request Interlibrary loans by filling in a form on the [Health Sciences Library's webpage](#).
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 - If you click on the green open lock symbol it will take you directly to the full text



What to do when you are
stuck?

If you find a relevant article use it as a lead to find more


- Look at the subject headings used to index the article - reformulate your search
- Find synonyms in the title or abstract
- Snowball:
 - Use the “Find Similar Results” in CINAHL, “Find Similar” function in MEDLINE (OVID), or “Related Articles” in Google Scholar
 - Look at the references
- Try another database
- Try Nursing Reference Center plus, Google, or Google Scholar to learn more about the topic and maybe find more literature
- This is an iterative process



CINAHL:

[Find Similar Results](#)
using SmartText Searching.

MEDLINE (OVID):

 [Find Similar](#)

Google Scholar:

☆   Cited by 249 **[Related articles](#)** All 3 versions 

6. Reminder & References

REMINDER

- A Librarian is available to provide one-on-one instruction and help:

Julia Kleinberg, 514 340 8222 x22391

jkleinberg@jgh.mcgill.ca

Kendra Johnston, 514 340 8222 x22453

kendra.johnston.ccomtl@ssss.gouv.qc.ca

- To access this presentation:

<https://www.jgh.ca/care-services/health-sciences-library/instruction/workshop-presentations-handouts/>

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