

Searching the Medical Literature for Evidence-Based Practice

Pediatrics

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The University of Calgary, located in the heart of Southern Alberta, both acknowledges and pays tribute to the traditional territories of the people of the Treaty 7, which include the Blackfoot Confederacy (including the Siksika, Piikani, Kainai First Nations), the Tsuut'ina First Nation, and the Stoney Nakoda (including the Chiniki, Bearspaw, and Goodstoney First Nations). The city of Calgary is also home to Metis Nation within Alberta (Nose Hill Metis District 5 and Elbow Metis District 6).



Session Outline

- Google Scholar library links
- Library Website
- Research Guides
- Research Question
- Boolean Operators
- Medical Subject Headings (MeSH) and Keywords
- Field codes and adjacency
- Demonstration

Google Scholar



Google Scholar

My profile

My library

Alerts

Metrics

Advanced search

Settings

Settings

Search results

Languages

Library links

Account

Browser extensions

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

Calgary

e.g., Harvard

☒ Canadian National Catalogue - Find in AMICUS

☐ St. Mary's University (Calgary) - FindIt@StMU

☐ University of Calgary - FindIt@UofCalgary

☐ University of Calgary. - ProQuest Fulltext

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.

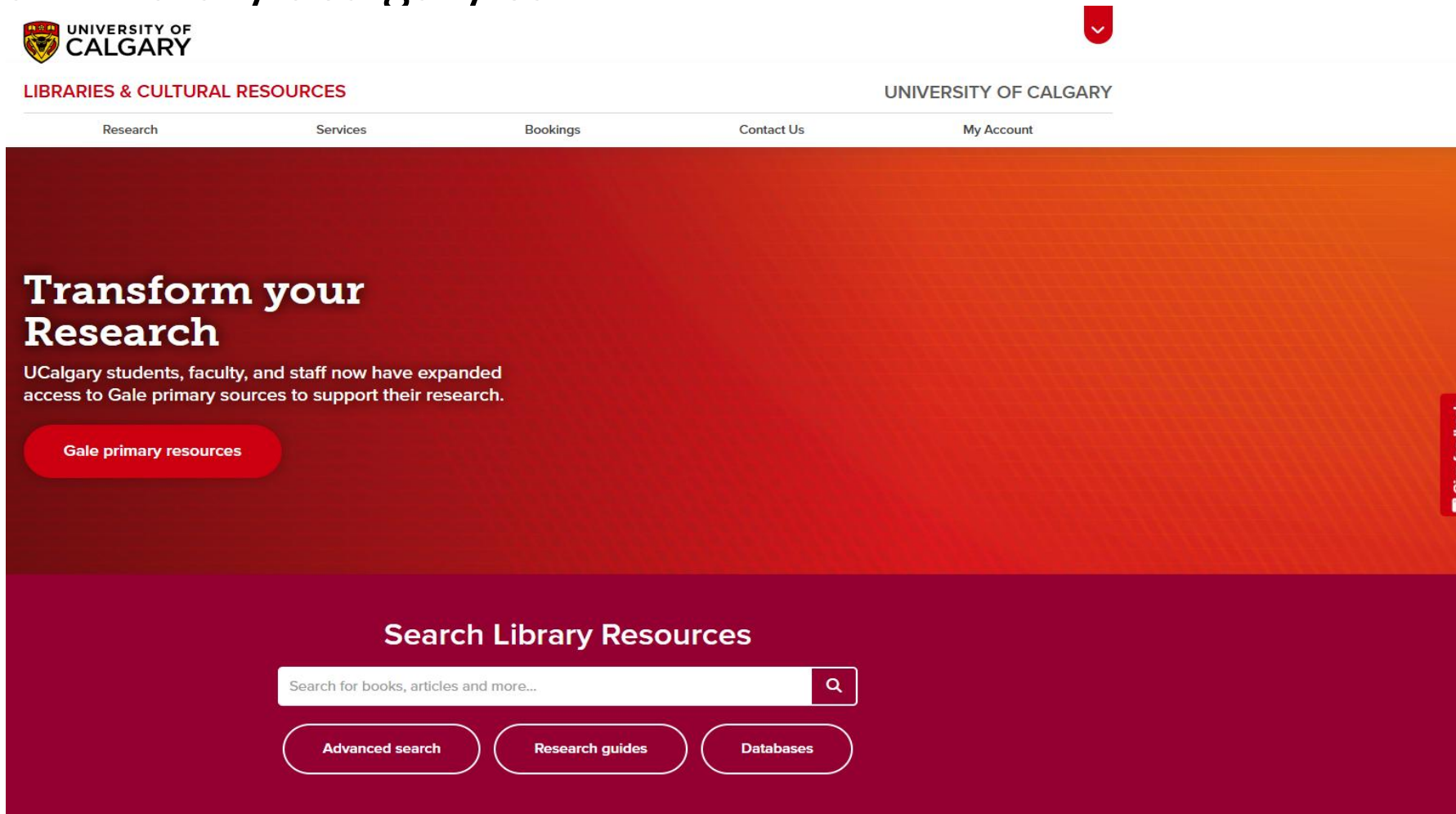
Save

Cancel

To retain settings, you must turn on cookies

Library Website

- Bookmark: library.ucalgary.ca



The screenshot shows the University of Calgary Library Website. At the top, there is a navigation bar with the University of Calgary logo on the left and a red dropdown arrow on the right. Below the logo, the text "LIBRARIES & CULTURAL RESOURCES" is displayed. To the right of this, the text "UNIVERSITY OF CALGARY" is displayed. Below the navigation bar, there is a horizontal menu with five items: "Research", "Services", "Bookings", "Contact Us", and "My Account". The main content area has a red background with a white text overlay that reads "Transform your Research". Below this, there is a paragraph of text: "UCalgary students, faculty, and staff now have expanded access to Gale primary sources to support their research." Below the paragraph, there is a red button with the text "Gale primary resources". On the right side of the main content area, there is a vertical red button with the text "Give feedback". Below the main content area, there is a dark red section with the text "Search Library Resources". Below this text, there is a search bar with the placeholder text "Search for books, articles and more..." and a magnifying glass icon. Below the search bar, there are three buttons: "Advanced search", "Research guides", and "Databases".

UNIVERSITY OF CALGARY

LIBRARIES & CULTURAL RESOURCES

Research Services Bookings Contact Us My Account

Transform your Research

UCalgary students, faculty, and staff now have expanded access to Gale primary sources to support their research.

Gale primary resources

Give feedback

Search Library Resources

Search for books, articles and more...

Advanced search Research guides Databases

Research Guides

- <https://libguides.ucalgary.ca/guides/medicine-education>
 - Your source for medical information
 - Getting started with an evidence synthesis project
- <https://libguides.ucalgary.ca/guides/scholarlycommunication>
 - Your source for publishing and presenting
 - Suggestions for handling predatory publishers and conferences

Research Question

- Establish a topic of inquiry
- Re-frame it as an answerable question
 - This is essential, as screening the literature is easier if you can go back to your research question and ask yourself: does this paper address my question, it is merely related, or completely off-topic?
- **Topic:** unintentional cannabis ingestion in children
- **Question:** What are the public health strategies for, and the attitudes and beliefs of, caregivers in preventing and addressing unintentional acute pediatric cannabis intoxication?

Boolean Operators (AND, OR, NOT)

- Academic databases process commands.
- We are writing a script (computer science lite) so that it can spit out the results from the command we've given it.
- Some are smart (like Google Scholar and Pubmed) and do some background algorithmic work to anticipate what you're looking for. These are often proprietary algorithm.
- Others, like Medline, use only your strategy as written out.
- Both have benefits and applications where they are most advantageous.

Boolean Operators (AND/OR/NOT)

- Searching for literature is like ordering a pizza
- Ham AND pineapple
- Green OR black olives
- OR-ing terms gives the database flexibility (I'll take any papers with these terms)
- AND-ing narrows what can be retrieved
- Difference between ordering:
 - Vegetarian pizza, any toppings
 - Pizza with pepperoni, olives (black, not green), peppers (green, not red), thin crust

Medical Subject Headings and Keywords

- Terms to discover literature
- Medical Subject Headings (MeSH) are “controlled vocabulary” for biomedical literature
 - Assigned by the National Library of Medicine
 - Context
 - Prior knowledge is not necessary, Medline will suggest MeSH terms
- Keywords are text-based searching
 - Text matching, not necessarily context based
- We search both, as not all papers are indexed with MeSH, and not all papers have readily available abstracts or full text

Food Label Analogy



Supplemented Food Facts Info-aliment supplémenté

Per 1 pack (30 g)
pour 1 paquet (30 g)

Calories 120

	% Daily Value*
Fat / Lipides 5 g	7 %
Saturated / saturés 2.5 g	13 %
+ Trans / trans 0 g	

Carbohydrate / Glucides 12 g	
Fibre / Fibres 6 g	21 %
Sugars / Sucres 2 g	2 %

Protein / Protéines 8 g

Cholesterol / Cholestérol 0 mg

Sodium 130 mg	6 %
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Potassium 100 mg	3 %
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Calcium 50 mg	4 %
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Iron / Fer 2 mg	11 %
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* 5% or less is a little, 15% or more is a lot
* 5 % ou moins c'est peu, 15 % ou plus c'est beaucoup

Supplemented with / Supplémenté en†

Caffeine / Caféine 55 mg

† Includes naturally occurring and supplemental amounts

† Comprend les quantités naturelles et supplémentées

Ingredients: Soy protein isolate, Chicory root fibre, Unsweetened chocolate, Vegetable glycerin, Cocoa butter, Dates (dates, rice flour), Almonds, Pumpkin seeds, Natural flavour, Tapioca starch, Cocoa powder, Soy lecithin, Gluten-free oats, Sunflower oil blend (sunflower oil, mixed tocopherols, rosemary extract), Sea salt, Green tea extract.

Contains: Soy, Almonds. **May contain:** Peanuts, Other tree nuts, Sesame, Milk, Egg.

Ingédients: Isolat de protéine de soya, Fibre de racine de chicorée, Chocolat non sucré, Glycérine végétale, Beurre de cacao, Dattes (dattes, farine de riz), Amandes, Graines de citrouille, Arômes naturels, Amidon de tapioca, Poudre de cacao, Lécithine de soya, Avoine sans gluten, Mélange d'huile de tournesol (huile de tournesol, mélange de tocophérols, extrait de romarin), Sel de mer, Extrait de thé vert.

Contient : Soya, Amandes. **Peut contenir:** Arachides, Autre noix, Sésame, Lait, Oeuf.

MADE IN CANADA FROM IMPORTED AND DOMESTIC INGREDIENTS FOR:

/ FABRIQUÉ AU CANADA À PARTIR

D'INGRÉDIENTS IMPORTÉS ET CANADIENS POUR :

WELLNESS NATURAL INC., 3163 Winston Churchill Blvd,

PO Box 26012, Mississauga, ON, Canada, L5L 5S0

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Title: **Accidental cannabis ingestion in young children.**

MeSH Subject Headings:

Humans
Child, Preschool
Female
*Cannabis / po [Poisoning]
*Cannabis / ae [Adverse Effects]
*Accidents, Home

Abstract:

QUESTION: A 3-year-old girl was brought to my office by her caregiver because she was not acting like herself. She was excessively sleepy, difficult to rouse, and had poor balance. The caregiver reported cannabis products in the home in the form of gummies the caregiver takes for sleep and anxiety. What symptoms should prompt consideration of marijuana ingestion and how should accidental ingestion be managed?

ANSWER: Cannabis is one of the most widely used drugs in the world. Many countries are decriminalizing and legalizing marijuana, but its negative impact on pediatric health is growing. Current evidence shows unintentional marijuana ingestion and severe toxicity are steadily increasing. Common symptoms of marijuana ingestion in young children are drowsiness, somnolence, nausea, and vomiting, with children being at high risk for severe symptoms of respiratory depression and seizures. Primary care providers should talk to families about issues surrounding marijuana in the home, including safe storage of products containing cannabis and when to suspect an accidental ingestion. Public health should focus on the packaging and distribution of edibles to prevent easy access and accidental ingestion by young children.

Field Codes and Subject Headings

Database	Controlled Vocabulary	Common Keyword Fieldcodes
OVID Medline	MeSH (Medical Subject Headings) Example: “trauma” maps to: Exp “Wounds and Injuries”/	.tw,kf = title/abstract/author supplied keyword line (recommended) .ti = title only .mp = all fields Trauma*.tw,kf

Adjacency

- A way to search for words that appear within a certain amount of words to the other in either order:
- (Child* OR teen* OR adolescen*) adj3 (litera*).tw,kf
 - Child literacy is improved when caregivers read to them at bedtime.
 - Adolescents enjoy media literacy classes.
 - According to a new study, teenagers are more health literate than their grandparents when it comes to nutrition information on food packages.
- Note the use of *
 - This will accommodate suffix variances

Putting it all together

- **Question:** What are the attitudes, beliefs and perceptions of parents and guardians regarding public health awareness, education and prevention of unintentional acute pediatric cannabis intoxication?
- Identify distinct concepts that meet your inclusion criteria
 - **Concept #1** = cannabis
 - **Concept #2** = pediatric
 - **Concept #3** = unintentional ingestion
 - **Concept #4** = caregiver
 - **Concept #5** = attitudes

Concept 1	AND	Concept 2	AND	Concept 3	AND	Concept 4	AND	Concept 5
Cannabi*		Child*		Accident*		Parent*		Attitude*
OR		OR		OR		OR		OR
Marijuana		Infant*		Uninten*		Guardian*		Belief*
OR		OR		OR		OR		OR
THC*		Preschool*		Mistaken*		Caregiver*		Perception*
OR		OR		OR		OR		OR
CBD		Youth*		Inadvert*		family		Perceive*
OR		OR				OR		OR
Tetrahydrocannabinol		Adolescen*				families		Awareness
OR		OR						OR
Delta9- tetrahydrocannabinol OR Delta8- tetrahydrocannabinol		Teen*						Educat*
OR		OR						OR
Delta-9 tetrahydrocannabinol OR Delta-8 tetrahydrocannabinol		Pediatric*						Public health
		OR						OR
		Paediatric*						Prevent*

- Live demo
 - <https://ezproxy.lib.ucalgary.ca/login?url=https://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=6gVsSmEbwWGiNOh7UUU5F7nvtBg9VH38dzpONlyaeGaPcsnxbutZpoBVbF7sJd1jz>
- Export results to RIS file to Covidence

Thank you!



- <https://library.ucalgary.ca/services/consultation>