

INTER-AMERICAN DRUG ABUSE CONTROL COMMISSION

CICAD

Secretariat for Multidimensional Security

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EVIDENCE ABOUT THE THERAPEUTIC USE OF CANNABIS, CANNABIS-DERIVED PRODUCTS AND SYNTHETIC CANNABINOIDS

Evidence about the therapeutic use of *cannabis*, cannabis-derived products and synthetic cannabinoids



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Epistemonikos is a non-profit entity based in Santiago, Chile. It is integrated by over 1000 contributors worldwide and works with multiple international organizations related with evidence-based healthcare

























...entre muchas otras



Our mission:

Bring scientific evidence closer to those making health decisions

Our values:

Transparency, independence and quality





https://www.epistemonikos.org



https://es.epistemonikos.cl/ https://www.epistemonikos.cl/ Information regarding who we are and what we do, and our statement of transparency and editorial independence.



http://love.epistemonikos.org

Access to the world-largest compilation about the therapeutic use of *cannabis* (among many other topics). Continuously updated.



Hierarchy of the evidence

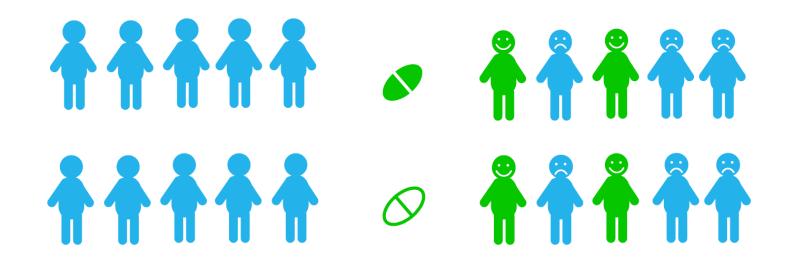
Hierarchy of evidence
i.e. some studies are more
reliable than others

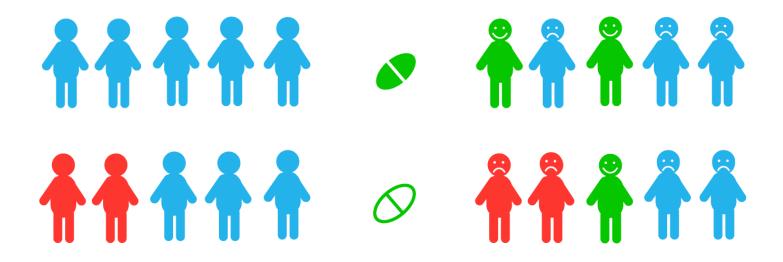




Randomized trial and placebo effect









The problem: too much information



Cherry-picking







Systematic reviews

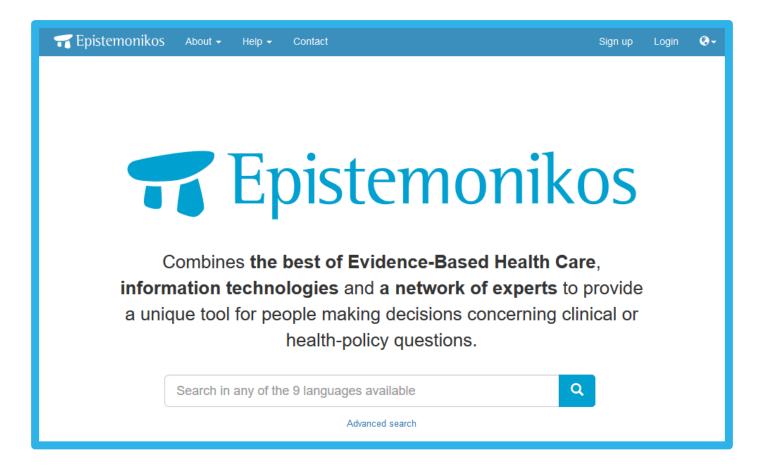


Cannabis, cannabis-derived products and synthetic cannabinoids





www.epistemonikos.org



Since 2012. World-largest database of health evidence. 100% free.

Cochrane official partner since 2016





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Q

Cochrane.org

Review production

Organizational info

Tools

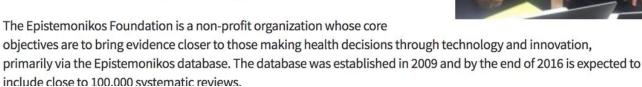
News and events

Cochrane and Epistemonikos announce partnership

- News
- Blog
- Events
- Newsletters
- Submit a news article/blogpost

Cochrane and the Epistemonikos Foundation are delighted to announce the launch of our official partnership aimed at improving the knowledge base for making decisions in health care and global health policy.

The close alignment of objectives, values, products, and services between Cochrane and Epistemonikos has existed for some years. Both organizations believe that systematic and rigorous approaches to research synthesis lead to better-informed choices by policymakers, practitioners, and the public, and thus to better health outcomes for people throughout the world.







Systematic methods

+ cutting-edge technology and a broad network of collaborators and experts.











Largest database of health evidence



Artificial intelligence identifying potentially relevant evidence



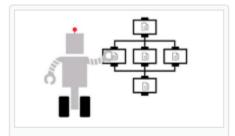
Experts
validating ALL
the
information
detected by AI



Information, continuously organized and updated



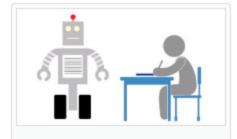
Epistemonikos database methods



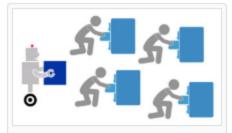
We go to multiple databases to identify potentially eligible systematic reviews



Humans and robots select systematic reviews, following explicit inclusion criteria



 A wide network of humans (supported by robots) review the full text of included reviews in order to identify their included studies



 Humans and robots put together all of the systematic reviews answering the same PICO questions (matrix of evidence)





HOME ABOUT HOW TO ACCESS LIST OF LOVES CONTACT

valeria

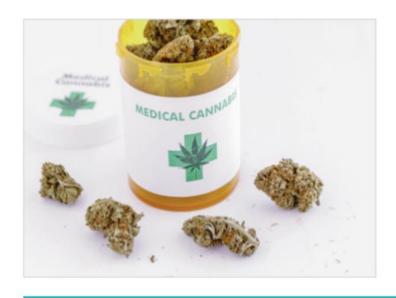
Summary

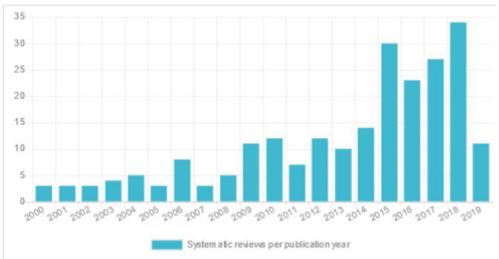
References

Method

Flow Diagram

THERAPEUTIC USE OF CANNABIS AND CANNABINOIDS





We have identified **234 systematic reviews**, the most recent published in 2019, and 2679 primary studies (614 randomised trials) relevant for this topic + More info



Cherry picking for cannabis



Our method



- 1. We identified ALL the conditions for which Cannabis has been claimed as potentially therapeutic (92)
- 1. We compiled all the scientific evidence (>1000 articles finally included)
- 1. We generated a summary for each condition (oriented to health professionals)
- 1. We conducted a systematic review for each condition (oriented to researchers, to be published in international journals)



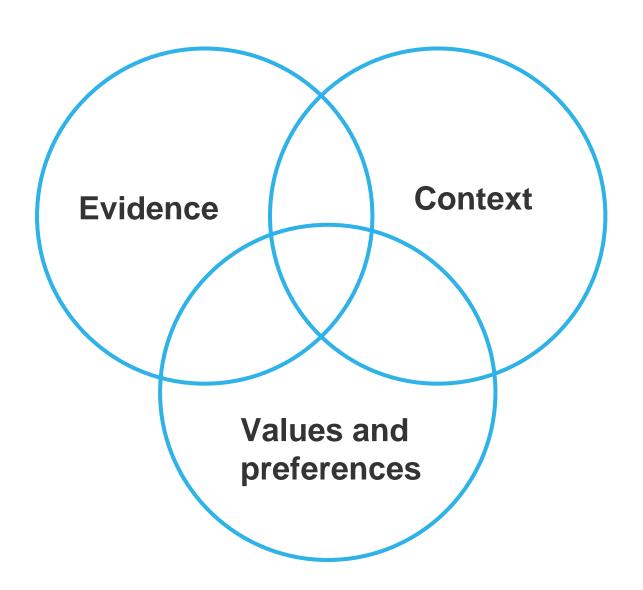
We generate a summary of the evidence for each condition

(and the information needed to put the evidence in context)





Evidence-based Medicine





An example





■ RESÚMENES EPISTEMONIKOS

Medwave 2016; 16(Suppl2):e6972 doi: 10.5867/medwave.2017.6972

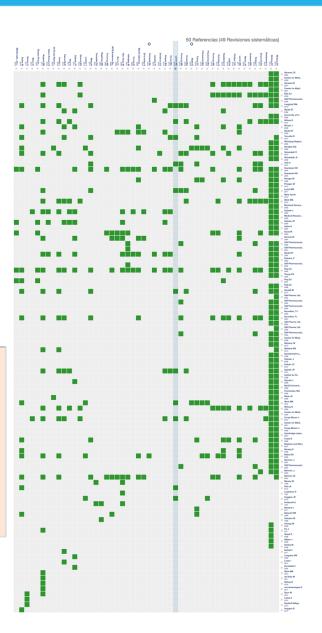
¿Son los cannabinoides un tratamiento efectivo para el dolor crónico no asociado a cáncer?

Are cannabinoids an effective treatment for chronic noncancer pain?

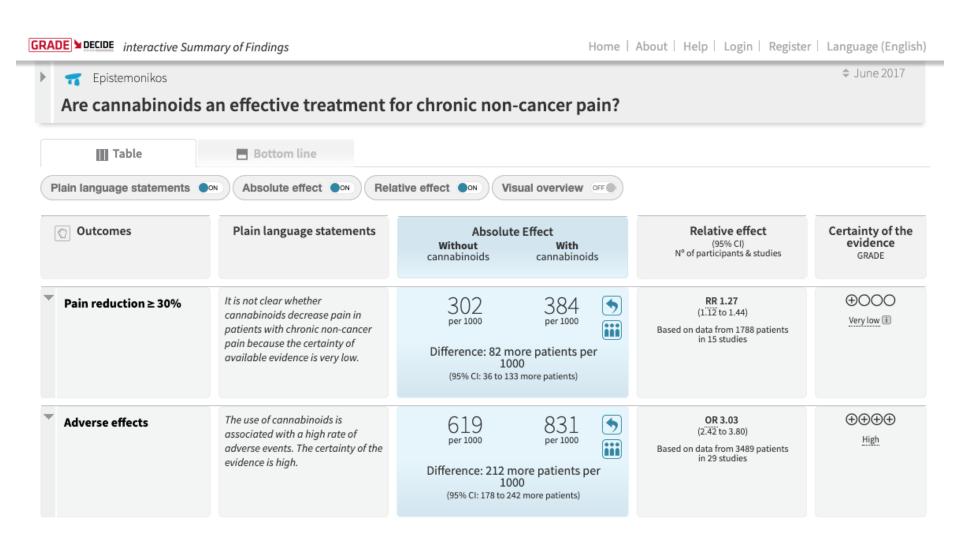
Rubén F Allende-Salazar, Gabriel Rada

Key messages

- It is not clear whether cannabinoids decrease pain in patients with chronic noncancer pain because the certainty of the available evidence is very low.
- The use of cannabinoids is associated with a high rate of adverse events in patients with chronic non-cancer pain.
- Multiple ongoing studies or high-quality systematic reviews reanalyzing existing data could provide more certainty about these findings.



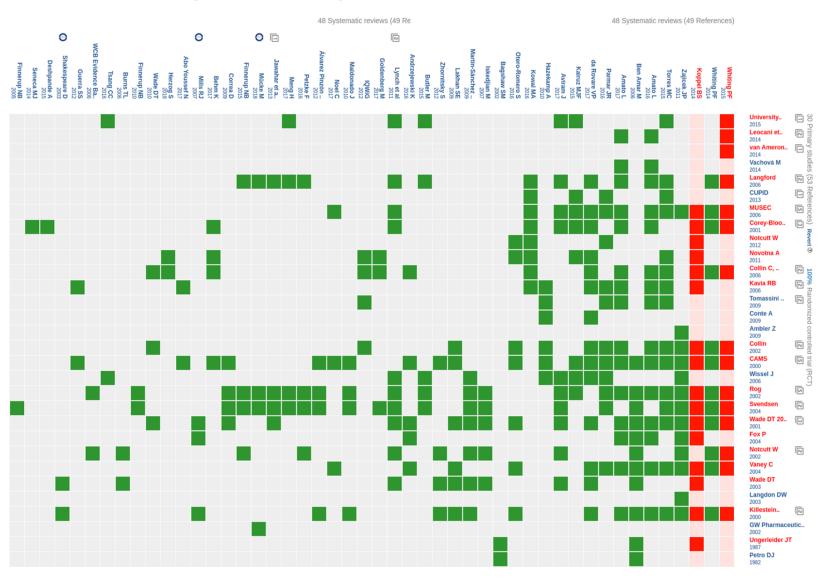




https://isof.epistemonikos.org/#/finding/593584b2e3089d0fec24dc01



Is our research synthesis really the largest ever conducted?





Epistemonikos Foundation and Adherent Organisations Inform:

The Use of Cannabis in People with Medical Conditions Does Not Produce Improvements and Causes Damage to Health



Based on the existing scientific research, we conclude that there is no medical condition in which the benefits derived from the use of cannabis or cannabis-derived products are superior to its adverse effects and risks.

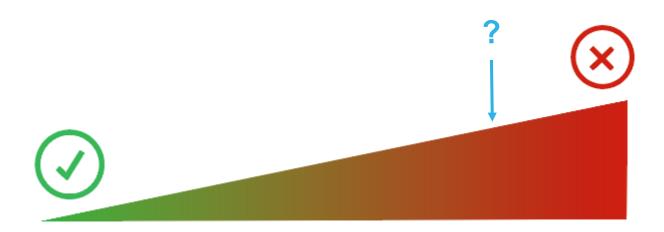
- Cannabis or its derivatives are not effective and are associated with frequent adverse effects.
- Cannabis or its derivatives may produce a low benefit, but also produce frequent adverse effects that exceed the benefits.
- It is not clear whether cannabis or its derivatives are effective or not, because the certainty of the evidence is very low, and they are associated with frequent adverse effects.











How much do we know:

- We know it is not a therapeutic alternative for many conditions
- For some conditions we know it might work, but we don't know if the benefits
 outweigh the risks (or if it is better than other therapeutic options)
- There are a **few promising areas** (in an early stage of research) and many unproven theories that might be tested.





In order to advance knowledge/research a *sine qua non* is to rely on a standardized substance.

WE NEED:

- High-quality standardized product (good manufacturing practices)
- Independent and rigorous evaluation



We also have a moral duty with the people currently on Cannabis

- To test if the benefit is real
- If the benefit proves real, to maximize benefits and to minimize risks.

To be certain <u>Cannabis is the best available choice</u>:

'Better than placebo' ≠ 'Best option'





Moral imperative with patients considering its use

• **ETHICAL DUTY** of offering a reasonable level of certainty that we are in front of a case where we expect benefit instead of harm.

At the populational level

• **ETHICAL DUTY** of maximizing benefits, minimizing risks, promoting efficiency and decreasing equity gaps:





Many thanks





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