





# Introduction

- Cannabis has been used since ancient times to manage a variety of conditions:
  - Chronic nonmalignant pain
  - > Anxiety/Depression
  - > Cancer
  - > Headaches
  - > Migraines

Exists in three forms

- ➤ Indica
- Ruderalis
- ➤ Sativa
- THC and CBD are the major components of marij that affect the endocannabinoid system.
- Endocannabinoid system consists of cannabinoid receptors
  - > CB1 Central and peripheral nervous system. Decreases dopamine, GABA, glutamate activity
  - CB2 Peripheral nervous system and immune tissues. Decreased immune system function and increased analges



Figure 1: The endocannabinoid system

Why migraines and cannabis?

- Several pathways act to reduce migraine/headache frequency (Glutam inflammatory, opiate, serotonin.
- Stops platelet serotonin release and dopamine activity
- > Active in the periaqueductal grey matter

current lite	
onathan Quinonez DO, Samir Ruxmohan DO, S	
	Poudel MD, Jinal Choudhari MD,
Larkin Community Hospital – Pa	
	Review
	Our literature search revealed 34 articles that v
	and in between 1987-2020. This approach can
	Is medical cannable effective upon i What forms of medical cannable do
	What is an "ideal dose" for a preferr
	Is medical cannabis effective? Yes
	Aviram et al (2020) studied 68 medi
	migraine symptom reduction, better
	medication use.  > Baron et al (2018) demonstrated the
	migraine symptoms (nausea, vomiti
juana	Leroux et al (2019) surveyed 139 in
	of all patients saw a modest effect.
d (CB)	Dronabinol and nabilone are used for second l
	What forms of medical cannabis are preferred by Smoking vaporization "dabs" flour
	Salazar et al (2011) studied 50 parti
	medical/non-medical cannabis. He
sia	Piper et al (2017) studied patient-pr cannabis use 2/3 of all participants
	antidepressant, and alcohol use. Pr
	Rhyne et al (2016) reviewed 82 pati
	two forms of medical cannabis to m Inhaled methods (smoking vaporization) are n
	Hybrids are used for headaches whereas single
	What is the "ideal dose?" Baron et al (2020) did an electronic
	reduced migraine pain by 55%. He
	strain (THC + CBD) to 25 mg of am
	hybrid strain improved migraine qua Sexton et al (2016) utilized an online
	people used 28 g of flour per week.
	59.8% of medical professionals who
	cannable as an alternative treatmer Finding an ideal dose is difficult due to user pressure
nate,	composition.
	More studies are needed to determine what is
	Combination studies are needed for migraine r

# Medical Cannabis, Headaches, and Migraines: A review of the erature

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were published in the English language be based upon three questions: headaches/migraines? people prefer? red form?

ical cannabis users. All reported better sleep quality, and decreased

- at medical cannabis use decreases ing,etc.)
- idividuals in a local French hospital.  $\frac{1}{4}$ 1/8 of all patients saw migraine
- line therapies for cluster headaches

### red?

-> any form that's inhaled icipants who use all forms of found that inhaled was preferred. hysician communication and medical reduced anti-anxiety, migraine, referred methods included ient charts. 20 patients used at least nanage migraines.

preferred for medical cannabis use. le strains are for migraines only.

survey. He found that 200 mg of THC also compared 200 mg of a hybrid nitriptyline. He found that 200 mg of the ality by 40.4%

ne survey. They found that 3.4% of 31.8% of people used 3-5 g per week. o participated in the survey use medical nt for migraine/headache management. reference and endocannabinoid system

an effective dose. medication titration.

- analysis
- Selected surveys had the following limitations as well > Small sample size(s)
- - Could not verify answers from online surveys

  - > Few control trials present
  - > Lack of meaningful research within the United States cannabis's due to Enforcement designation by the Drug Agency
- > Despite a lack of meaningful studies: > Benefits outweigh consequences for medical cannabis use

  - medical cannabis use.
  - > Patients report more positive effects with
  - > "Disorganized realm" gives more patient and provider choice for management.



## Limitations/Conclusion

> A multitude of medical cannabis products exist with different formulations and strains:



Figure 2: Medical cannabis tinctures, oral sprays, and capsules

> Small number of articles did not provide a quality

> Lack of adequate follow up

### **References (Scan the QR code)**

