THE ROLE OF CANNABIS IN TREATING INSOMNIA





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Types of Insomnia²

Acute insomnia

a brief episode of difficulty sleeping, usually caused by a life event or travel. Often resolves without any treatment.



a long-term pattern of difficulty sleeping, usually considered chronic if a person has trouble falling asleep or staying asleep at least 3 nights per week for 3 months or longer.

Comorbid insomnia

occurs with another condition. Certain medical conditions, such as arthritis or back pain, can make it hard to sleep or make a person uncomfortable at night. Psychiatric symptoms, such as anxiety and depression, are also associated with changes in sleep.



difficulty falling asleep at the beginning of the night.

Maintenance insomnia

inability to stay asleep; waking up during the night and having difficulty returning to sleep.



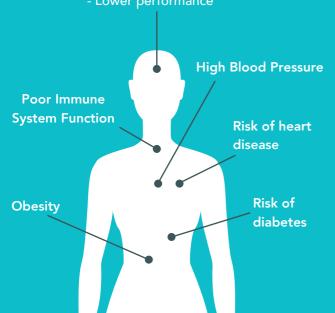


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Complications of Insomnia³

Psychological Problems

- Risk of depression
- Risk of anxiety disorder
- Slowed reaction time
- Lower performance



Top 10 Medical Conditions Treated ⁴ with Medical Cannabis at Harvest

- **1** Anxiety
- 2 Insomnia
- **3** Arthritis
- **4** Back pain
- **5** Depression
 - 6 PTSD
- **7** Fibromyalgia
- **8** Migraines/Headaches
 - **9** Multiple Sclerosis
- **10** Inflammatory Bowel Disease

The Entourage Effect and Latest Thinking on **Treating Insomnia with Medical Cannabis**

The Entourage Effect, first posited in 1988 by Mechoulam and Ben-Shabat, describes the synergistic nature of the many pharmacologically active compounds in cannabis, including cannabinoids, terpenes and flavonoids 5

The Roles of Cannabinoids, Terpenes and Flavonoids in treating insomnia

Cannabinoids

- o Studies suggest CBD may help with both falling asleep and staying asleep,⁶ possibly decreasing anxiety and pain which can also interfere with sleep 7
- o THC also plays a role in inducing sleep, and may reduce REM sleep (dreams/nightmares) 8

Terpenes

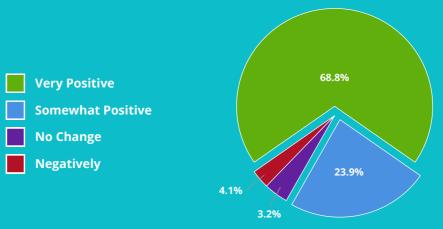
o Caryophyllene is a terpene believed to relieve insomnia due to its relaxing properties, while Myrcene and Terpinolene are known for sedative effects and Linalool can aid in falling asleep faster⁹

Flavonoids

o Linarin is a flavonoid that has demonstrated sedative and sleep-enhancing properties in preliminary research ¹⁰

92.7% of Havest Medicine patients with Insomnia report that medical cannabis has Met or Somewhat met their expectations. 11

Total Sample Size 16,183 | August 2018 - August 2019



Additional Resources

American Sleep Association

Practitioner about possible interactions with your current medications.

Patients can track results and progress using the

strainprint.ca

upon sign up: HMED

Call or visit us online to learn more

1-844-488-4633 | hmed.ca

1) Definition of Insomnia, Merriam-Webster Dictionary. Available at https://www.merriam-webster.com/dictionary/insomnia 2) What are Different Types of Insomnia?, Sleep Foundation.org. Available at https://www.sleepfoundation.org/insomnia/different-types-insomnia 3) Sleeping Made Easy, Insomnia.net. Available at https://www.insomnia.net 4) Harvest Medical Cannabis Clinics Top 10 Reported Conditions (data on file) 5) Dr. Raphael Mechoulam and his revolutionary cannabis research. Medical Cannabis Network, Aug 27, 2019. https://www.healtheuropa.eu/dr-raphael-mechoulam-revolutionary-cannabis-research/93049/ 6) Cannabidiol (CBD) what we know and what we don't, Peter Grinspoon MD, August 24, 2018, Harvard Health Publishing, Harvard Medical School. Available at https://www.health.harvard.edu/blog/cannabidiol-cbd-what-we-dont-2018082414476 7) CBD: For Sleep and Insomnia, American Sieep Association, Available at https://www.sleepassociation.org/sleep-treatments/cbd/ 8) The science of sleep by cannabis. Healthline. Available at https://www.health.medical-marijuana/cannabis-for-sleeping#science-says 9) Our favorite terpenes for sleep. High Season. January 30, 2020. Available at https://shophighseason.com/our-favorite-terpenes-for-sleep/ 10) Seadavie and sleep-enhancing properties of linarin, a flavonoid-isolated from Valeriana officinalis. Fernancalogy, 8 in Amarcalogy Biochemistry and Behavior, Vol 77 Issue 2, Feb 2004 399-404. Available at https://www.sciencedirect.com/science/article/pii/S009130570300368X#! 11) Harvest Medical Cannabis Clinics Reported Outcomes (data on file)

