

Too Scientific: Didn't Understand!



Let me explain!

Cannabis use, the brain & treatment of cannabis addiction

We made a **summary** of previous research. We focused on studies that included people who use a lot of cannabis or are addicted to cannabis and how this affects their brain.



First, we described how many people use cannabis and are addicted to cannabis, how we diagnose and treat cannabis addiction, and whether these treatments are effective. All the studies we summarized looked at brain areas (e.g., the size of areas), brain activity (e.g., how active areas are), and how the brain influences behavior (e.g., your focus or memory).

Summaries like this are important to create an overview of what we do and do not know yet. This information is helpful to educate people about the harms and benefits of cannabis use, inform therapists who treat cannabis addiction, and identify new research topics (e.g., studies on new treatment options).



A lot of people use cannabis! There are large differences between countries and men use cannabis more often than women.

People who use cannabis may have smaller brain areas involved in thinking and memory. Also, their brains become more active when they feel like they want to use cannabis right now (craving).

When you use a lot of cannabis or are addicted to cannabis, your attention, learning, and memory can get worse. In some people this will get better again when they stop.

People can be diagnosed with a cannabis addiction if they have more than one or more symptoms showing they cannot control their cannabis use.

There is **no medication** for cannabis addiction, but people can get therapy. In popular therapies, people can discover why they use cannabis, realize when they use cannabis, and learn strategies to avoid using cannabis when they do not want to. Therapy works well for some people, but there is room for **improvement:** about 2 in 3 people that finish therapy will resume use within 6 months.

There are a lot of individual differences in why people use cannabis, how people react to cannabis, and how likely people are to develop a cannabis addiction. Starting to use cannabis at a younger age, using high THC cannabis, and using a lot can increase the likelihood of negative outcomes, including addiction.



Kroon, E., Kuhns, L., Hoch, E., & Cousijn, J. (2020). Heavy cannabis use, dependence and the brain: a clinical perspective. Addiction, 115(3), 559-572. https://doi.org/10.1111/add.14776



By Dr. Emese Kroon