Comparison of the Medical Effectiveness of CBD:THC, THC, and THC:CBD

Molecular Cancer Therapeutics reported the efficacy of CBD:THC in combination with radiation in treating brain cancer using cannabis at a ratio of 1:1 of CBD and THC. The Indica strain of cannabis used for brain tumors is between 25%-35% THC. They concluded that “the triple combination of CBD, THC, and irradiation significantly inhibited tumor progression in an orthotopic syngeneic model.”

Molecular Cancer Therapeutics noted that “CBD and THC were tested in this study as they have previously been shown to be effective in glioma both in vitro and in vivo, and display multiple mechanisms of action.”

The Mayo Clinic reports that THC “effectively reduces nausea and vomiting in people undergoing chemotherapy;” “might reduce the intensity of shooting or burning pain often due to nerve damage (neuropathic pain) caused by HIV and other conditions;” and “might reduce muscle stiffness or spasms caused by multiple sclerosis.”

WebMD: “CBD vs THC – What’s the Difference” states that THC is effective for conditions that CBD is not. “People take CBD products to help with everything from arthritis and Crohn’s disease to diabetes and multiple sclerosis. Some say it helps with anxiety, insomnia, and chronic pain. So far, there’s little evidence that CBD helps with any of these. THC helps ease conditions like: multiple sclerosis, pain, nerve pain, Parkinson’s disease tremors, nausea, and glaucoma.”

Live Science reported a study from the University of New Mexico Department of Psychology showing that "Despite the conventional wisdom... that only CBD has medical benefits while THC merely makes one high, our results suggest that THC may be more important than CBD in generating therapeutic benefits."

According to Journal of Pain Management, “Most drug-related adverse events were mild/moderate in severity. This study shows that THC:CBD extract is efficacious for relief of pain in patients with advanced cancer pain not fully relieved by strong opioids.”

Journal of Pain Research concluded that THC:CBD oromucosal spray proved to be an effective and well-tolerated add-on treatment for patients with elsewhere refractory chronic pain - especially of neuropathic origin.”

“Twice as many patients taking THC:CBD showed a reduction of more than 30% from baseline pain NRS score when compared with placebo (23 [43%] vs. 12 [21%]). The associated odds ratio was statistically significant.”

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1 Molecular Cancer Therapeutics. “The Combination of Cannabidiol and Δ-Tetrahydrocannabinol Enhances the Anticancer Effects of Radiation in an Orthotopic Murine Glioma Model” Katherine A. Scott, Angus G. Dalgleish, and Wai M. Liu. DOI: 10.1158/1535-7163.MCT-14-0402 Published December 2014 https://mct.aacrjournals.org/content/13/12/2955

2 Molecular Cancer Therapeutics. “The Combination of Cannabidiol and Δ-Tetrahydrocannabinol Enhances the Anticancer Effects of Radiation in an Orthotopic Murine Glioma Model” Katherine A. Scott, Angus G. Dalgleish, and Wai M. Liu. DOI: 10.1158/1535-7163.MCT-14-0402 Published December 2014 https://mct.aacrjournals.org/content/13/12/2955

3 https://www.mayoclinic.org/drugs-supplements-marijuana/art-20364974

4 https://www.webmd.com/pain-management/cbd-thc-difference#1

5 https://www.livescience.com/64886-thc-cbd-marijuana-therapeutic-effects.html

6 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6535492/