



MAY 2021 REPORT


MEDICAL CANNABIS USE FOR NAUSEA, WASTING SYNDROME, & CACHEXIA

THE QUESTION

Nausea, wasting syndrome & cachexia (or associated conditions) are all commonly listed as qualifying conditions for a medical cannabis recommendation.

How many patients in the RYAH Data ecosystem report using cannabis for these conditions? What are their preferences?

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THE ANSWER

Between January 1, 2018, and May 25, 2021, 17,313 patients with nausea, wasting syndrome and/or cachexia logged sessions in the RYAH Data ecosystem.

The majority of patients reported cannabis use for nausea, and were primarily from CA, OK, FL, NY, PA, all states with one of these conditions (or an associated condition like cancer) listed as a qualifying condition.

Patients overwhelmingly prefer indica and indica-dominant strains for treating these conditions.

Interestingly, there was no overlap between patient-preferred strains for each condition. Nor did patients use any of the most appetite stimulating strains for these conditions.

SESSIONS BY THE NUMBERS

- NAUSEA: 14,615
- WASTING SYNDROME: 1,370
- CACHEXIA: 1,328

ANALYSIS

Nausea: A feeling of sickness with an inclination to vomit, commonly associated with cancer therapies like chemotherapy and other chronic conditions

Cachexia: Loss of lean tissue mass in the presence of chronic illnesses such as infections, cancer, heart disease, chronic kidney disease, chronic obstructive pulmonary disease, and stroke

Wasting Syndrome: Involuntary loss of 10% or more of body mass, associated with a month or more of diarrhea, weakness, or fever. Among patients with HIV, wasting syndrome is a defining symptom

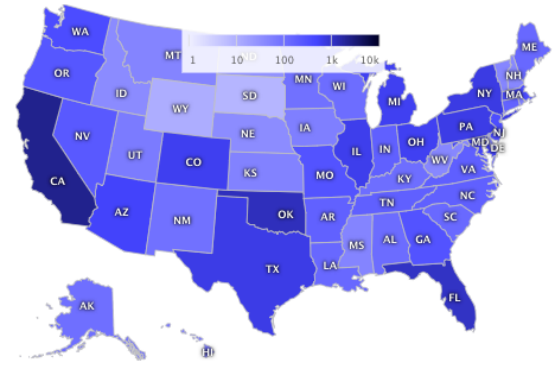
A 2020 multicentre, randomized, double-blinded, placebo-controlled, phase II/III trial looked at small doses of a cannabis extract for patients with nausea and vomiting from chemotherapy.

The results strongly indicate cannabis reduces these symptoms:

- 25% of patients experienced a total reduction in nausea and vomiting.
- 83% indicated a preference for the THC:CBD treatment over the placebo.
- The majority indicated medical cannabis improved quality of life. [1]

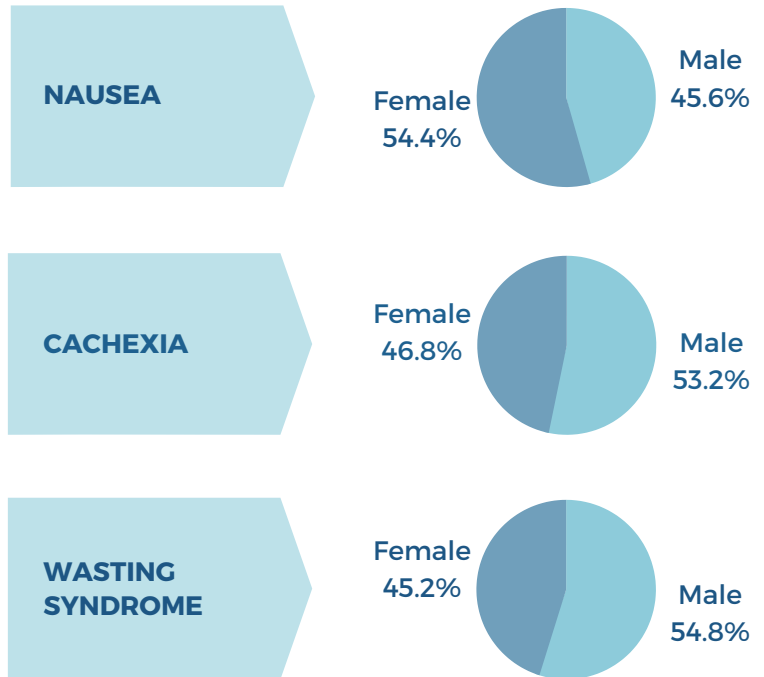
LOCATION

NAUSEA, CACHEXIA, WASTING SYNDROME



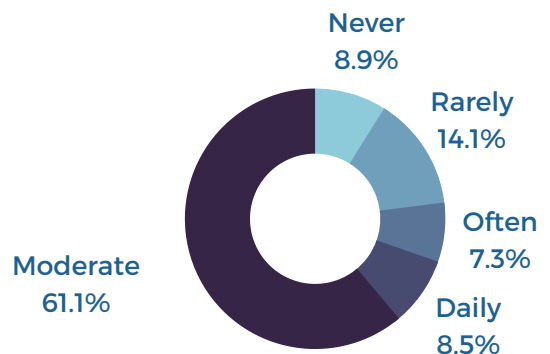
| | |
|---------------------|---------------|
| CALIFORNIA | 15.25% |
| OKLAHOMA | 7.99% |
| FLORIDA | 7.17% |
| NEW YORK | 4.7% |
| PENNSYLVANIA | 4.51% |

GENDER



PATIENT EXPERIENCE

NAUSEA, CACHEXIA, WASTING SYNDROME



ANALYSIS

In 2020, the American Journal of Clinical Oncology reported the results from a survey of patients with blood cancers.

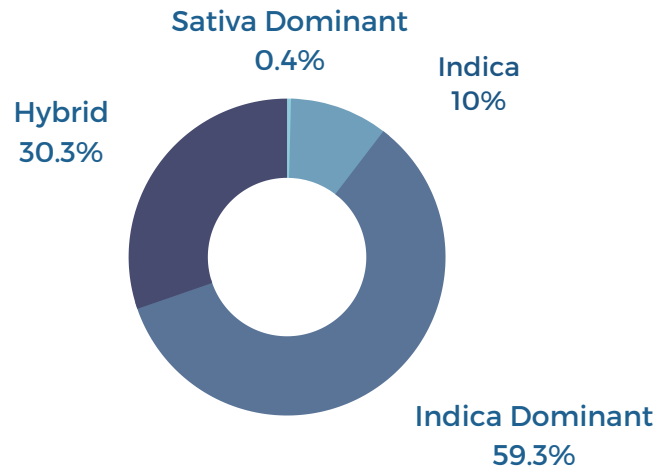
Based on the responses of 188 participants, more than 24% indicated treating symptoms with medical cannabis.

The researchers discovered that patients felt the most relief from pain, appetite, and anxiety. A common side effects included cloudy thinking.

Patients were more likely to use medical cannabis if they had more severe symptoms. [2]

CULTIVAR PREFERENCE

NAUSEA, CACHEXIA, WASTING SYNDROME



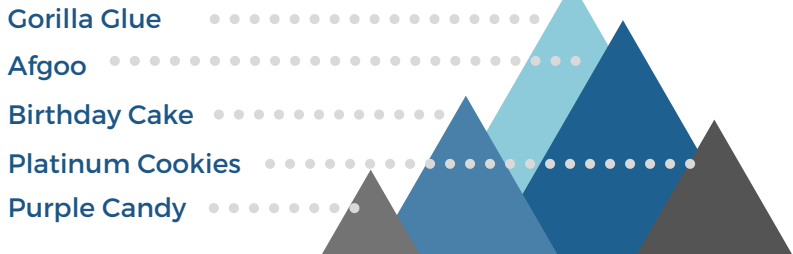
TOP RATED CULTIVARS

APPETITE STIMULATION



COMMON CULTIVARS

NAUSEA



CACHEXIA



ADDITIONAL SOURCES

[1] Grimison, P et al. "Oral THC:CBD cannabis extract for refractory chemotherapy-induced nausea and vomiting: a randomised, placebo-controlled, phase II crossover trial." *Annals of oncology : official journal of the European Society for Medical Oncology* vol. 31,11 (2020): 1553-1560. doi:10.1016/j.annonc.2020.07.020

[2] Macari, David M et al. "Medical Cannabis in Cancer Patients: A Survey of a Community Hematology Oncology Population." *American journal of clinical oncology* vol. 43,9 (2020): 636-639. doi:10.1097/COC.0000000000000718

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