



JANUARY 2021 REPORT

CULTIVAR VS. CHEMOVAR: PATIENT PATTERNS

"Introducing RYAH Data, our new data analytics report leveraging insights from our proprietary data lake."

*- Gregory Wagner,
CEO, Ryah Medtech, Inc.*

THE QUESTION

Scientifically, while indica and sativa are not proven cannabis types, patients feel otherwise.

What are the distinct patterns of use based on different demographics and conditions treated?

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THE ANSWER

Between January 1, 2018, and January 21, 2021, over 92,000 patients reported strain preference in the RYAH Data ecosystem.

There is an even divide between those who prefer sativa/sativa dominant and indica/indica dominant types.

Women report a preference for sativas, while men turn to indicas.

Different generations also have distinct strain preferences. Patients under 39 prefer indica, with older patients more fond of sativa. This may reflect different conditions treated.

Substantial differences exist for conditions treated. Indicas are chosen for insomnia, pain, and depression. Sativas are chosen for headaches, migraines, and ADD/ADHD.

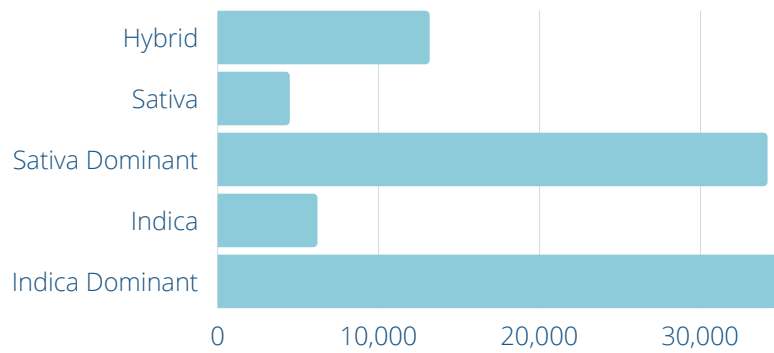
ANALYSIS

Scientifically speaking, indica and sativa are difficult to quantify. However, the industry was built on these categories.

In an interview for Cannabis and Cannabinoid Research, Ethan B. Russo stated:

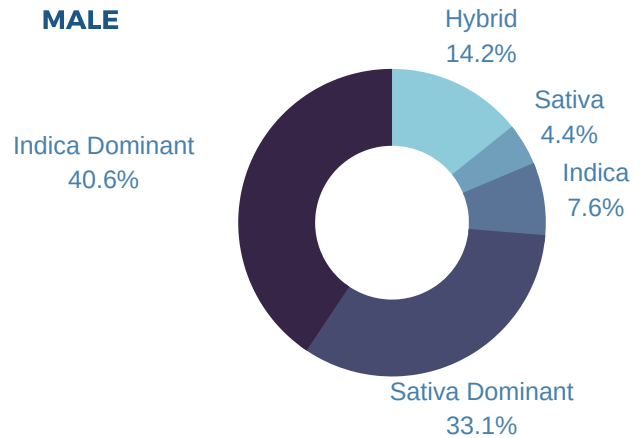
"I would strongly encourage the scientific community, the press, and the public to abandon the sativa/indica nomenclature and rather insist that accurate biochemical assays on cannabinoid and terpenoid profiles be available for Cannabis in both the medical and recreational markets. Scientific accuracy and the public health demand no less than this." [1]

STRAIN PREFERENCE

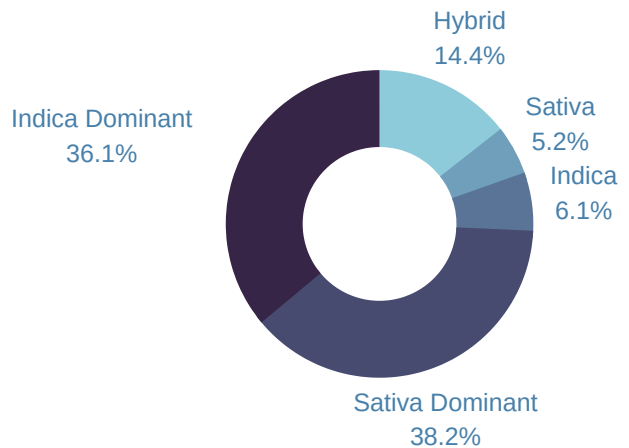


GENDER

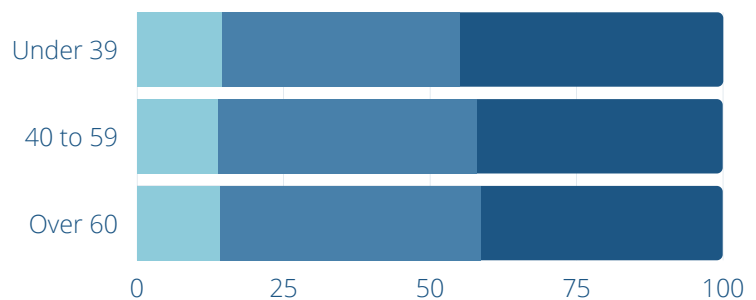
MALE



FEMALE



AGE



ANALYSIS

In 2014, The Journal of Alternative and Complementary Medicine published "Discriminating the Effects of Cannabis sativa and Cannabis indica: A Web Survey of Medical Cannabis Users."

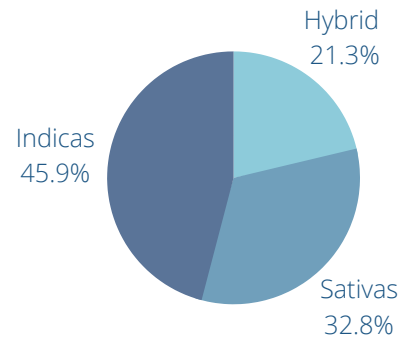
Out of the 95 survey respondents, indica was the preferred choice for pain management, sedation, and sleep.

The web survey participants strongly indicated that indica worked best for headaches, glaucoma, neuropathy, spasticity, seizures, insomnia, and joint pain.

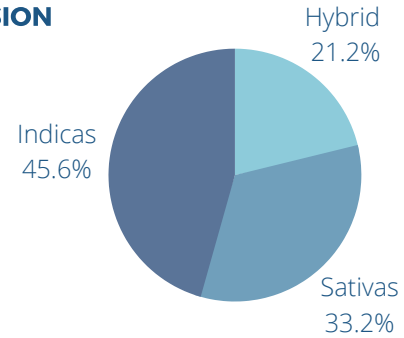
The respondents preferred sativa for euphoric and energetic benefits. [2]

CONDITION TREATED

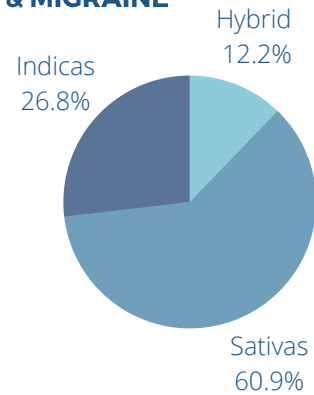
PAIN



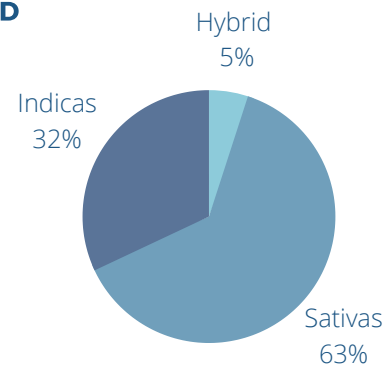
DEPRESSION



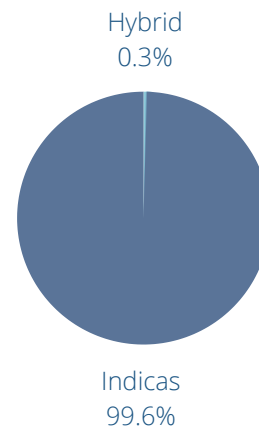
HEADACHES & MIGRAINE



ADD & ADHD



INSOMNIA



ADDITIONAL SOURCES

(1) Piomelli, Daniele, and Ethan B Russo. "The Cannabis sativa Versus Cannabis indica Debate: An Interview with Ethan Russo, MD." *Cannabis and cannabinoid research* vol. 1,1 44-46. 1 Jan. 2016, doi:10.1089/can.2015.29003.ebr

[2] Pearce, Daniel D et al. "Discriminating the effects of Cannabis sativa and Cannabis indica: a web survey of medical cannabis users." *Journal of alternative and complementary medicine (New York, N.Y.)* vol. 20,10 (2014): 787-91. doi:10.1089/acm.2013.0190

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