



cannabis use in patients with

Knowledge and Attitudes About Delta-9-tetrahydrocannabinol (THC) Impacts Real-world Practice in an International Group of Rheumatologists

Unsure

45 (76.3)

3 (5.1)

2 (3.4)

1 (1.7)

4 (6.8)

28 (47.5)

1 (1.7)

4 (6.9)

9 (15.5)

20 (34.5)

23 (39.7)

3 (5.2)

3 (5.2)

16 (27.6)

42 (72.4)

3 (5.1)

4 (6.8)

3 (5.1)

14 (23.7)

35 (59.3)

62 (92.5)

1 (1.5)

0 (0)

0 (0)

16 (23.9)

0 (0)

49 (73.1)

0 (0)

33 (49.3)

18 (26.9)

5 (7.5)

10 (14.9)

12 (17.9)

27 (40.3)

20 (29.9)

9 (13.6)

57 (86.4)

1 (1.5)

16 (23.9)

40 (59.7)

Unsure



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BACKGROUND The legalization of cannabis is increasing across the United States, with 24 states allowing recreational use and 38 states legalizing medical cannabis. This shift presents both opportunities and challenges for physicians, particularly in the field of rheumatology. Cannabis may provide symptom relief for patients with rheumatologic diseases due to its anti-inflammatory properties and its ability to alleviate pain. Consequently, a growing number of patients are turning to cannabis as a supplemental therapy and seeking guidance from their rheumatologists. However, many physicians feel ill-equipped to have informed discussions about cannabis use with their patients, as it is often not included in medical education or continuing education. There is significant variation in attitudes towards cannabis within the medical community, with some professionals advocating for its use and others remaining skeptical. As the legalization of cannabis continues to expand, it becomes increasingly important for healthcare professionals to stay informed about its potential therapeutic benefits, risks, and regulatory implications to better support patient care

- A cross-sectional survey was conducted between November 12, 2023, and April 10, 2024, targeting an international group of rheumatologists and allied health providers.
- The survey included 11 questions on THC attitudes (answers: yes, no, unsure; Figure 2), 6 knowledge-based questions on cannabis (only one correct answer per question; Table 2), and 4 real-world practice questions (answers: yes or no; Figures 3 & 4).
- Demographic data collected: specialty, gender, age, country of practice, and years of experience (Table 1).
- Responses to the attitudes questions in Figure 2 were analyzed using cluster analysis
- Knowledge scores [range 0 (no correct answers) to 6 (all correct answers)] were dichotomized at the mean, enabling comparison between high (≥3) and low knowledge(<3) groups.
- Chi-square tests were used to examine associations between knowledge levels, attitudes, and practices. RESULTS
- 215 respondents participated, 86% of whom were rheumatologists; 62% were female, and 51% were aged 50 or older, 81% were white, 68% live in a country or state in which cannabis is legal, 40% practiced 11-25 years (Table 1).
- Cluster analysis categorized respondents into three groups which were named "Progressive" (e.g., more liberal; 31.9%), "Traditional" (e.g., more conservative; 40.0%) and "Unsure" (e.g. answered unsure to most questions; 28.1%) groups. (Figure 1).
- 68.7% of "Progressive" respondents felt comfortable discussing cannabis with patients, compared to 56.6% in the "Traditional" group and 54.2% in the "Unsure" group (N.S.; Figure 2).
- 89.6% of "Progressive" respondents believed cannabis could be an opioid alternative, compared to 48.8% of "Traditional" and 55.9% of "Unsure" respondents (P<0.001; Figure
- In the "Progressive" group, 58% recommended CBD for symptom control, significantly higher than the 38% in the "Traditional" group and 48% in the "Unsure" group (P<0.05); Figure 2).
- The mean knowledge score was 2.9 with 60% of respondents in the high knowledge
- Being in the high knowledge group was most grown among the "Progressive" cluster (73%), compared to the "Traditional" (57%) and "Unsure" (49%) clusters (P<0.05) (Table
- rtheouseatoil in grist is anknowie early the recomfortable talking to patients about cannabis
- Highen knfogulee 3e was associated with greater comfort in discussing and recommending cannabis to patients.
- The "Progressive" group was more open to recommending cannabis, particularly as an alternative to opioids for chronic pain.
- Targeted education is necessary to address knowledge gaps and improve physicianpatient discussions on cannabis use in rheumatology.

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Table 1: Demographic	S	
Characteristic	Category	N (%)
Specialty	Rheumatologist	185 (86.0)
	Other	30 (14.0)
Country	US	80 (38.6)
	Canada	97 (46.9)
	Israel	25 (12.1)
	Other	5 (2.4)
Gender	Female	135 (61.6)
	Male	82 (37.4)
	Other	2 (0.9)
Age	35 or younger	31 (14.3)
	36-49	76 (35.0)
	50 or older	110 (50.7)
Ethnicity	White	169 (80.5)
	Asian or Pacific Islander	30 (14.3)
	Other	16 (5.2)
Years of practice	<5 years	34 (15.5)
	5-10 years	34 (15.5)
	11-25 years	87 (39.7)
	25+ years	64 (29.2)
Is cannabis legal in your state (or country)	Yes	148 (68.2)
	No	60 (27.6)
	Unsure	9 (4.1)

Table 2: Knowledge questions by Attitudes Clusters

Which cannabinoid makes you high? (P<0.05)

Which cannabinoid has therapeutic benefits that

Most cannabis strains available today have been

selectively bred for high concentrations of which

Which cannabinoid is associated with reducing

seizures in patients who suffer from epilepsy?

How many cannabinoids are in the cannabis plant?

Is hemp legal in the US?

Correct answers are bolded

can offer pain relief? (P<0.001)

iska Medical Center, Omaha, NE Key Insights Clinical Gaps Practice: While 60% of respondents had high knowledge about cannabis, 40% demonstrated significant knowledge gaps. These gaps affected their ability to discuss and recommend cannabis as a therapeutic option, highlighting the need for better education and training in this area.

Diverging Attitudes Towards Cannabis: The cluster analysis identified three distinct attitude groups ("Progressive," "Traditional," and "Unsure"), with the "Progressive" group being more likely to recommend cannabis and view it as an opioid alternative. In "Traditional" and "Unsure" the less confident in both discussing and recommending cannabis, attitudes shape clinical showing how dacicion-makina







