

Orthopaedic Patient Perspectives on Medical Cannabis: A Survey of Over 2,500 Patients



Clay Townsend, MD; Frederic Liss, MD; Charles Langman, DPM; Donald Mazur, MD; Stephen Stache, MD; Saloni Sharma, MD; David Stolzenberg, DO; Malathy Srinivasan, MD; David Pedowitz, MD; Surena Namdari, MD; Mark Wang, MD, PhD; Ari Greis, DO; Asif Ilyas, MD, MBA

Rothman Institute at Thomas Jefferson University Hospital, Philadelphia, PA

Introduction

- Cannabis is currently listed by the Drug Enforcement Agency as a Schedule I drug under the Controlled Substances Act of 1970, which has prevented medical researchers from performing high quality clinical trials
- 2019 Pew Research poll: two-thirds of American citizens support the legalization of cannabis (doubling since 2000)
- Medical Cannabis (MC) is now legal in 36 states and the District of Columbia for a variety of qualifying medical conditions, and recreational cannabis (RC) is now legal in 15 states
- MC has been found to be subjectively effective in chronic pain management by improving symptoms, decreasing opioid usage, and improving overall quality of life
- Perception and acceptance of MC by the general public remains poorly understood
- The purpose of this study is to assess current orthopaedic patient perspectives of MC, and to investigate factors that may represent barriers to patient utilization of MC

Materials and Methods

- Anonymous cross sectional survey study
- From October 2020 to January 2021, all patients presenting for an office visit with one of thirteen musculoskeletal physicians across New Jersey and Pennsylvania were asked to participate
- MC is legal in both states that were investigated, with New Jersey legalizing MC in 2010 and Pennsylvania in 2016
- Patients completed a novel survey that was created by the investigators regarding patient opinions of MC
- All survey responses were collected and stored electronically via SurveyMonkey

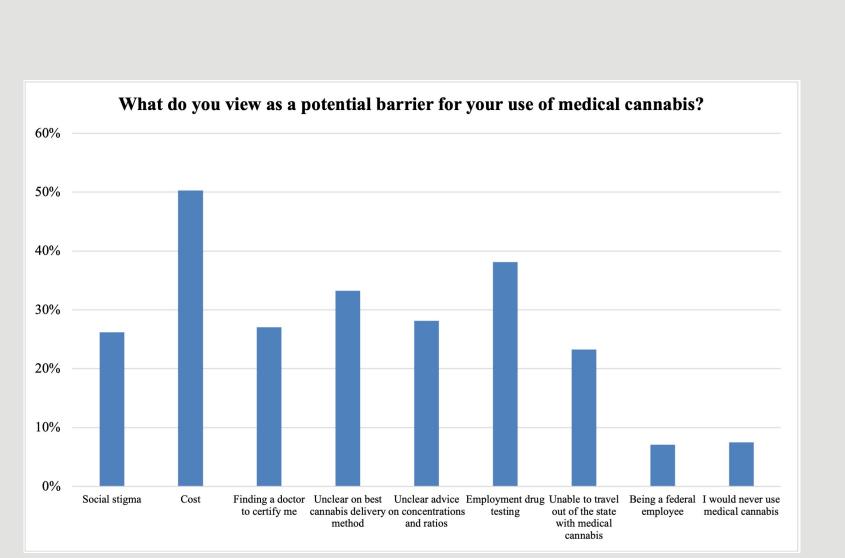
Results

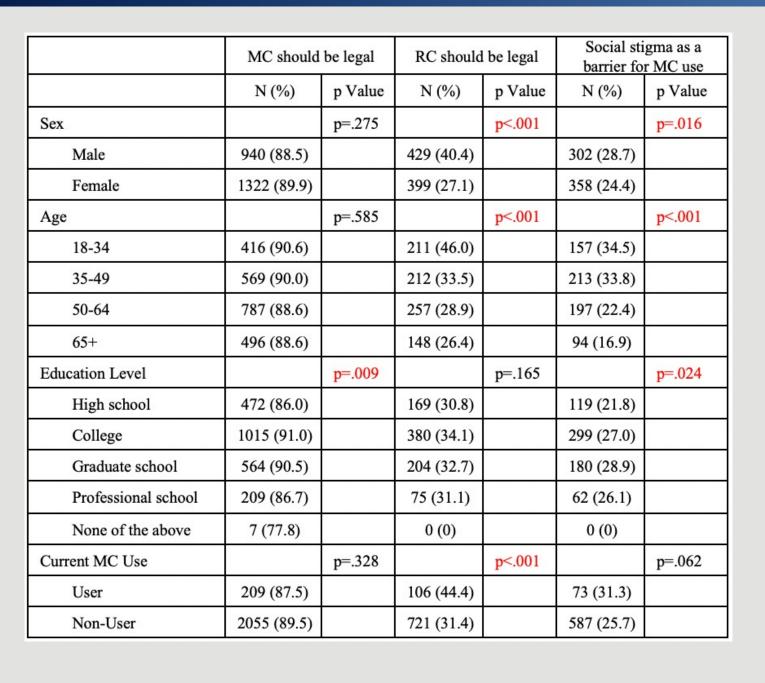
- 2,547 unique respondents
- One in ten patients (9.4%) currently used MC for a medical condition
- Of the patients not currently using MC, most (81.6%) would consider using MC for a chronic pain or orthopaedic condition
- Most (90.6%) were aware of the legality of MC in their state, and most (89.3%) believed MC should be legal throughout the United States

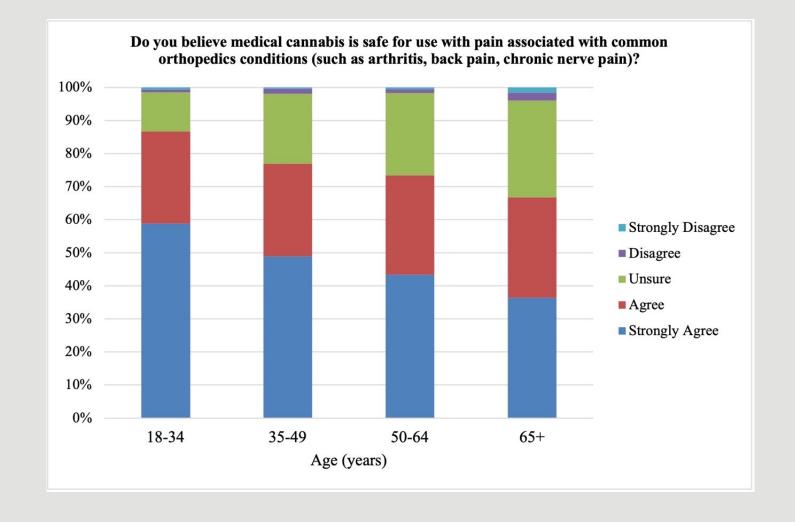
	N	%
Sex		
Male	1064	41.9%
Female	1476	58.1%
Age		
18-34	459	18.0%
35-49	634	24.9%
50-64	893	35.1%
65+	561	22.0%
Education Level		
High school	552	21.7%
College	1118	43.9%
Graduate school	626	24.6%
Professional school	241	9.5%
None of the above	9	0.4%

Results (cont.)

- Cost was the most commonly selected potential barrier to using MC at 50.3%, and 71.4% of patients believed the cost of MC to be either expensive or not affordable
- Significantly more patients aged 18-49 selected social stigma as a potential barrier for MC use than patients aged 50+ (p<.001)
- Most patients agreed that MC is safe for use with common orthopaedic conditions (75.2%) and is safer than using prescription opioids (77.1%)
- Older patients were significantly less likely to believe MC is safe for orthopaedic conditions, or that MC is safer than opioids (p<.05)







Conclusion

- These findings appear to reflect nationwide trends in the increasing acceptance of both medical and recreational cannabis
- Most patients would consider using MC for chronic pain or other orthopaedic conditions if indicated
- General public knowledge, cost, and social stigma remain barriers for orthopaedic patient utilization of MC