

Observing Cannabis Use in Iowa

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Acknowledgements

















TODAY'S PRESENTATION

•How did we get here?

•What have we done?

•Where are we going?





Improving Dementia Care and Reducing Unnecessary Use of Antipsychotic Medications in Nursing Homes







Alice Bonner, PhD, RN
Division of Nursing Homes
Center for Clinical Standards and Quality
Centers for Medicare & Medicaid Services

2016 NSDUH Data

Cannabis & Older Adults

TABLE 2. Percentage of past month marijuana use* among all persons aged ≥12 years, by age group — National Survey on Drug Use and Health, United States, 2002–2014

Age group (yrs)	2002 % (95% CI)	2003 % (95% CI)	2004 % (95% CI)	96 (95% CI)	2006 % (95% CI)	2007 % (95% CI)	2008 % (95% CI)	2009 % (95% CI)	2010 % (95% CI)	2011 % (95% CI)	2012 % (95% CI)	2013 % (95% CI)	2014 % (95% CI)	Linear trend	% change (diff) 2002 to 2014
12-17	8.2 (7.7-8.6)	7.9 (7.4-8.4)	7.6	6.8	(6.3-7.1)	6.7	6.7	7.4	7.4	7.9 (7.4-8.4)	7.2 (6.8-7.7)	7.1 (6.6-7.5)	7.4	NS	-10
18-25	17.3	17.0	16.1	16.6	16.3	16.5	16.6	18.2	18.5	19.0	18.7	19.1	19.6	<0.0015	+13
≥26	(3.7-4.3)	(3.7-4.3)	(3.8-4.4)	(3.7-4.4)	(3.8-4.5)	3.9 (3.6-4.2)	(3.9-4.6)	4.6	4.8 (4.4-5.1)	4.8 (4.5-5.2)	5.3 (4.9-5.7)	(5.2-6.0)	6.6 (6.2-6.9)	<0.0015	+65
26-34	(7.0-8.6)	(7.6-9.3)	(7.5-9.3)	(7.7-9.7)	(7.6-9.4)	7.9	(7.9-9.7)	9.6 (8.7-10.6)	10.6	10.2	11.3	12.6	12.7	<0.0015	+65
35-44	5.6 (5.0-6.4)	6.0	5.5 (4.8-6.2)	4.8	5.5	5.0 (4.3-5.7)	5.1 (4.4-5.8)	(4.2-5.5)	5.4 (4.7-6.1)	5.4 (4.7-6.2)	5.9 (5.1-6.7)	(5.6-7.1)	8.0 (7.4-8.7)	<0.0015	+43
45-54	(3.4-4.7)	3.3	4.5 (3.7-5.4)	(3.6-5.1)	(3.8-5.3)	4.4	3.9	49	5.0 (4.2-5.9)	4.9 (4.1-5.7)	5.2 (4.4-6.1)	5.4 (4.5-6.5)	5.9 (5.2-6.6)	<0.0015	+48
55-64	1.1 (0.6-1.8)	1.2 (0.7-1.8)	1.0 (0.6-1.7)	1.8 (1.2-2.6)	1,4 (0.9-2.0)	1.5 (1.0-2.2)	3.2 (2.2-4.4)	(2.3-4.1)	(1.9-3.5)	(2.6-4.3)	(2.9-4.7)	(3.1-4.6)	(5.2-7.1)	<0.0015	+455
≥65	(0.1-1.0)	(0.0-0.3)	(0.0-0.5)	(0.1-1.0)	(0.1-0.5)	(0.1-0.6)	(0.1-0.7)	(0.2-1.3)	(0.2-1.0)	(0.4-1.2)	(0.5-1.5)	(0.5-1.5)	1.3 (0.9-1.8)	<0.0015	+333

Abbreviations: CI = confidence interval; diff = difference; NS = not significant; + = increase; - = decrease.

^{*} Past month use of manijuana is defined as those who reported use of manijuana within 30 days preceding the date of interview.

Linear trends were assessed using logistic regression model from the 2002–2014 survey years.

⁵ Logistic regression (ps0.05).

State Cannabis Program Participation 65+

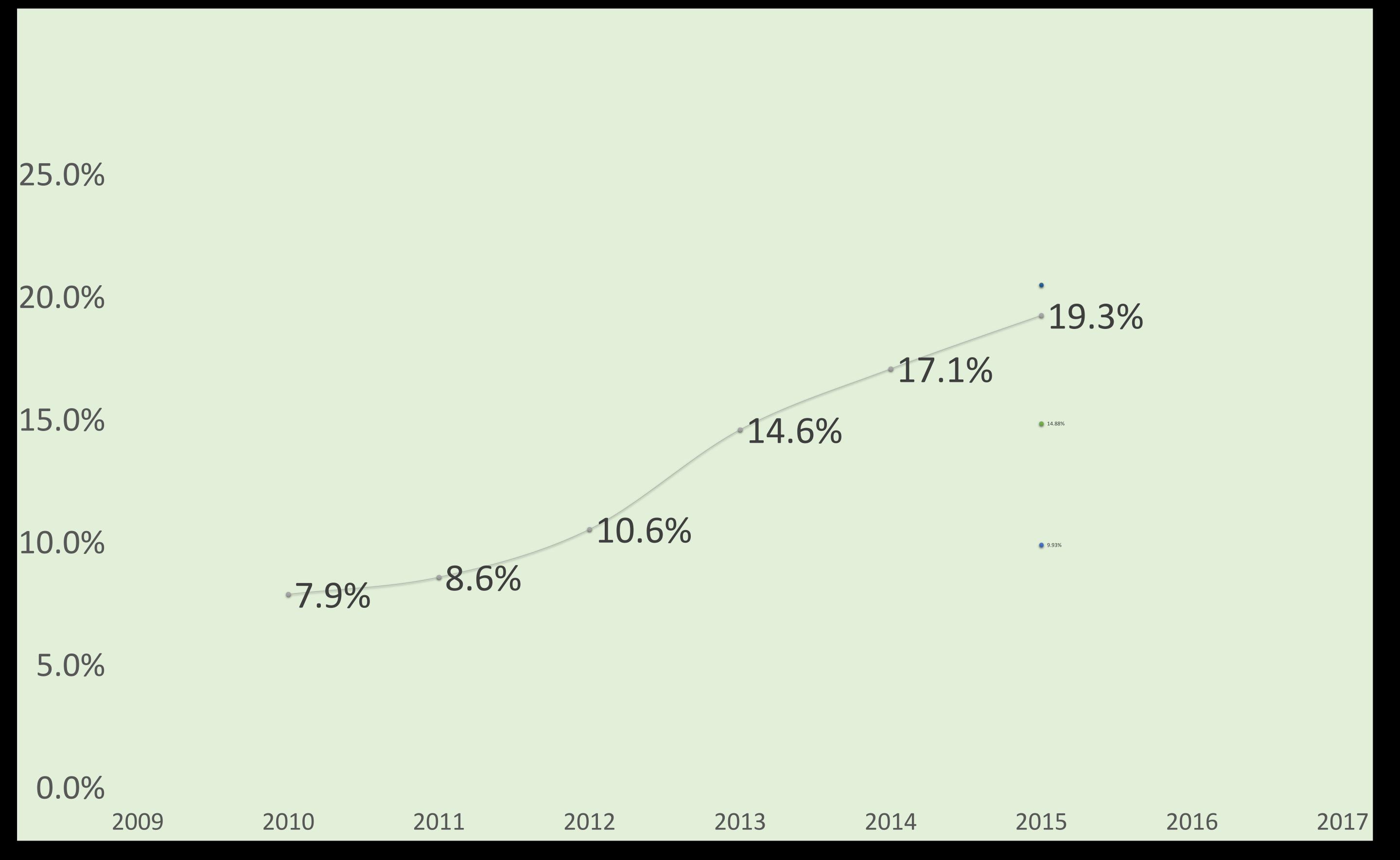


Figure 1: State Policies, Local Implementation Efforts and Cannabis Use among Older Americans

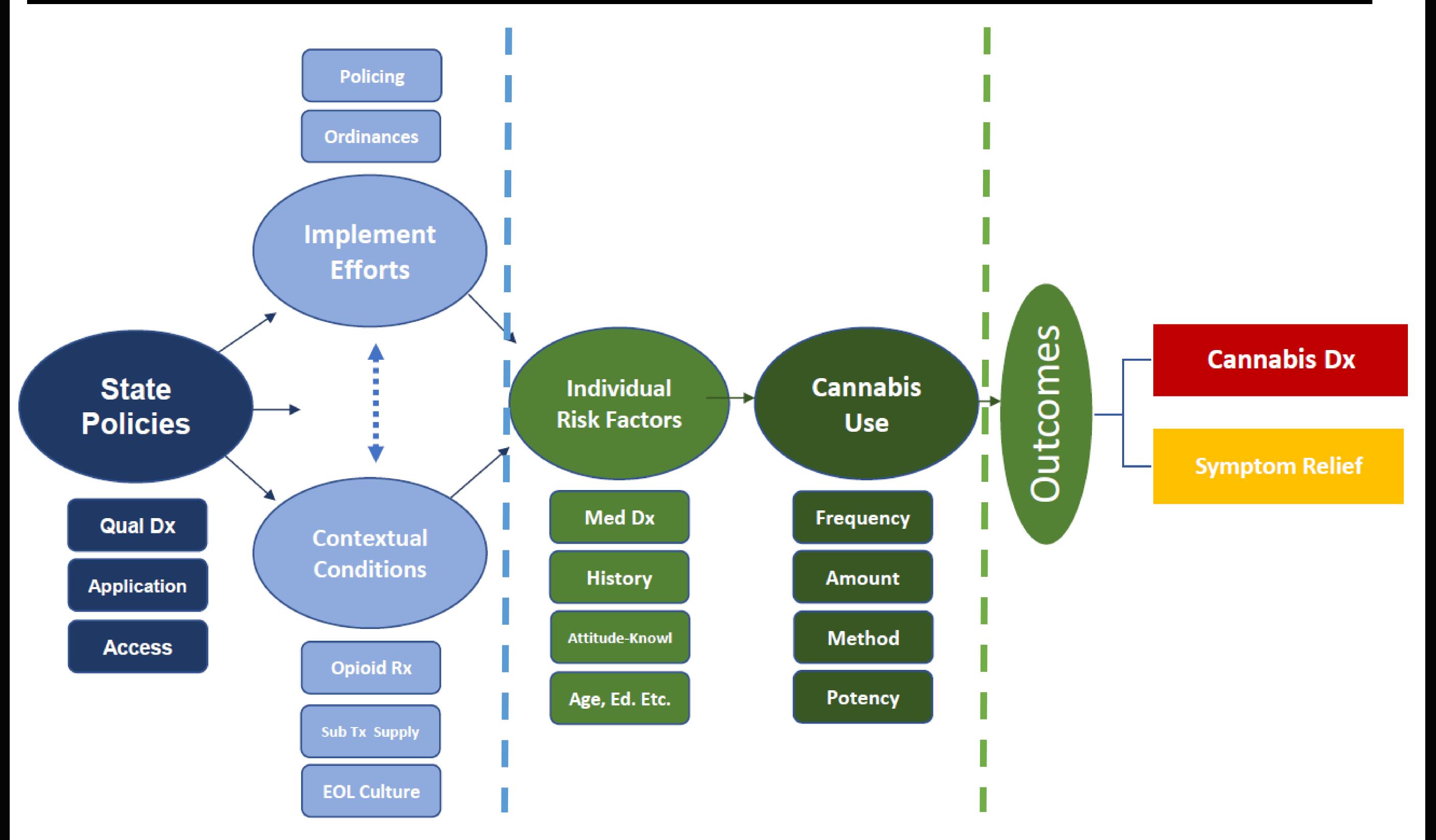
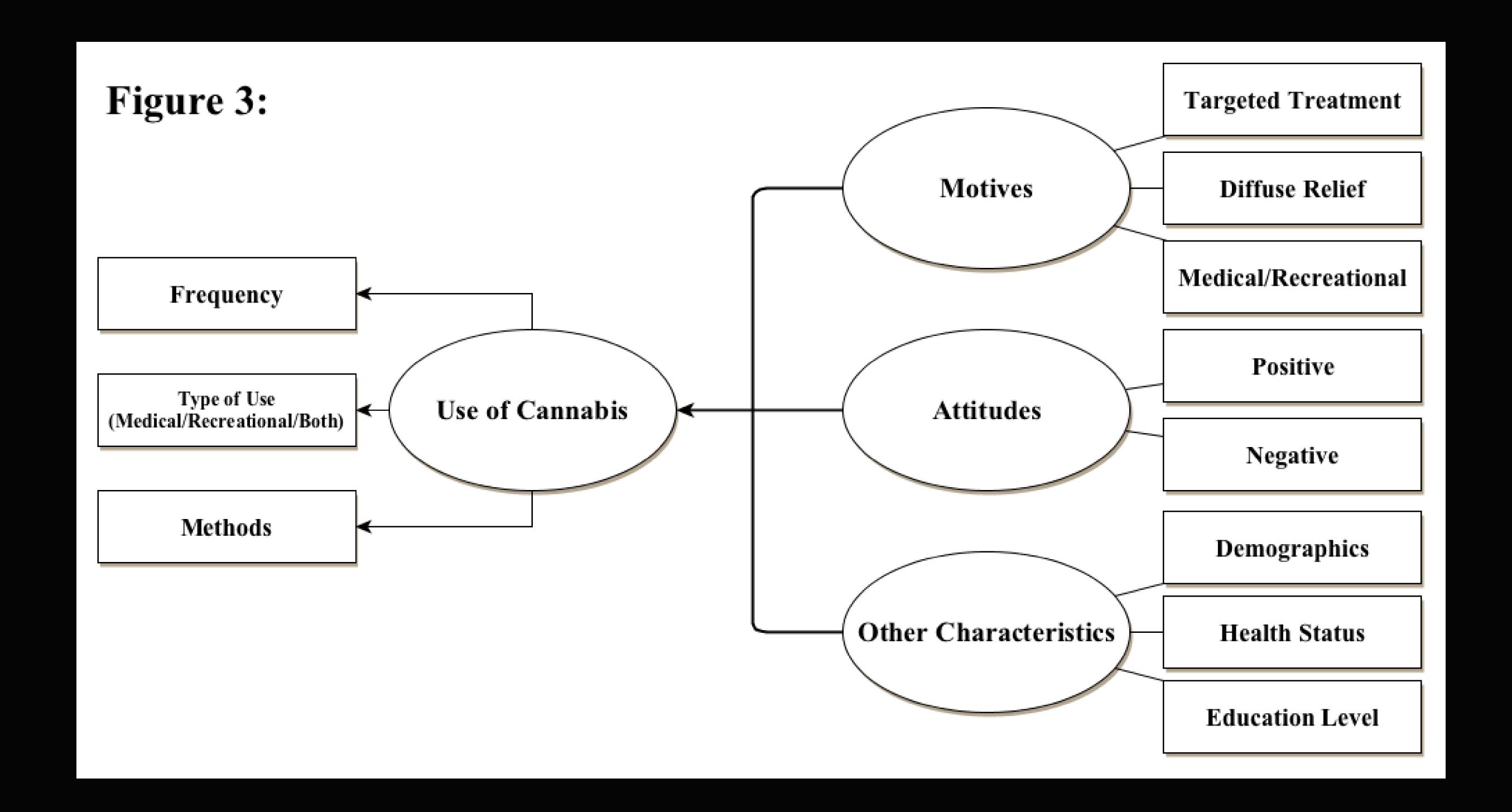
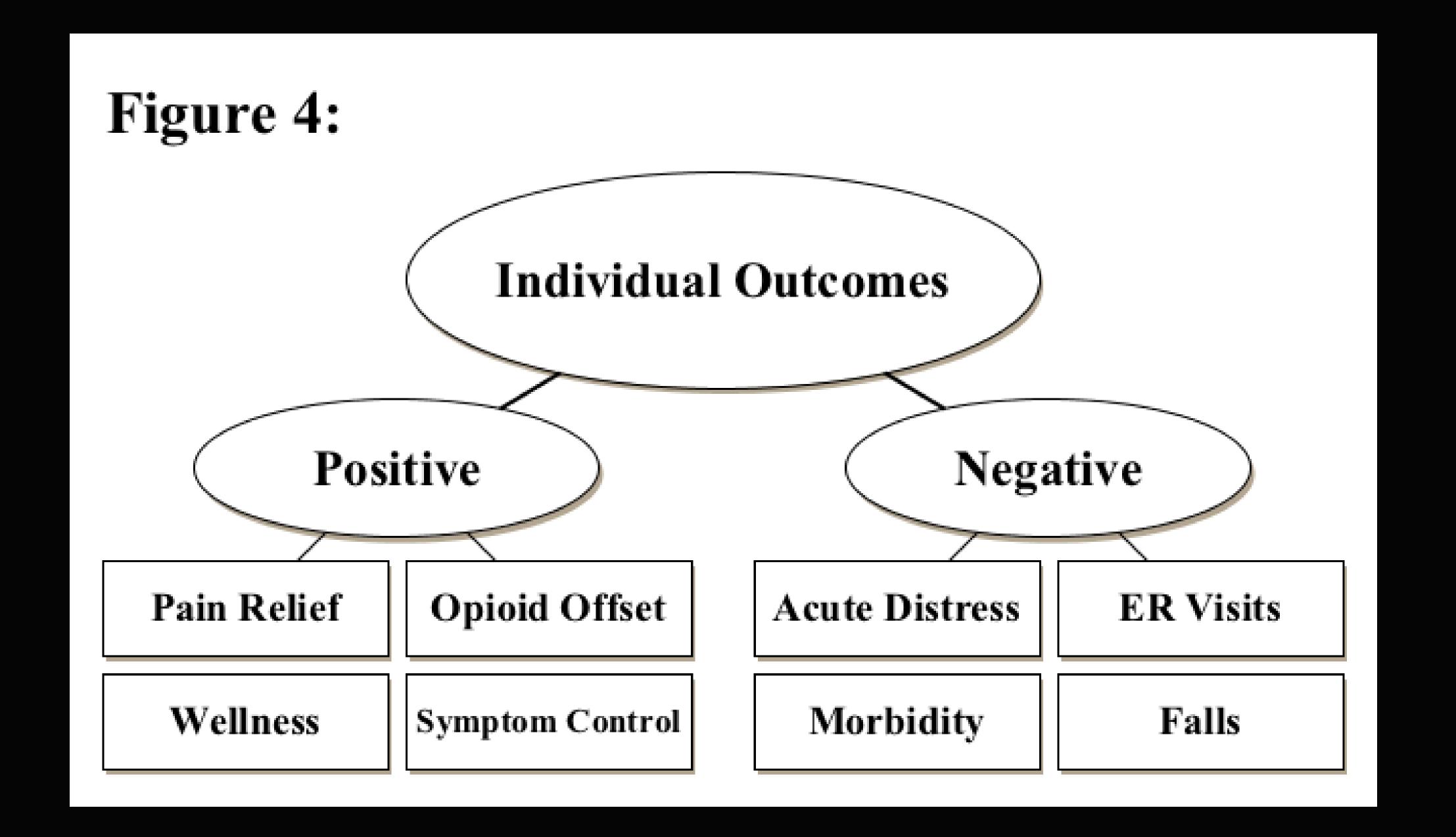


Table 1: Aspects of Statutory and Regulatory Code Pertinent to Older Adults

Codes (Examples)	Sub-Codes (Examples)						
Program Qualification	Exclusions:	Place of Residence:	Federal Nursing Facility				
	Inclusion:	Clinical Symptoms:	Pain				
			Nausea				
		Diagnosed Conditions:	Alzheimer's Disease				
			Glaucoma				
Application	Qualifying Pr	oviders: Medical Doctors:	Neurologists				
			Psychiatrists				
		Nurses					
	Processes:		Finger Printing				
			Application Fee				
			Renewal				
Access	Home:		Delivery				
			Cultivation				
	Caregivers						
	Caregivers Product Type		Combustibles-Edibles				
			Labeling				





Three Types of Studies

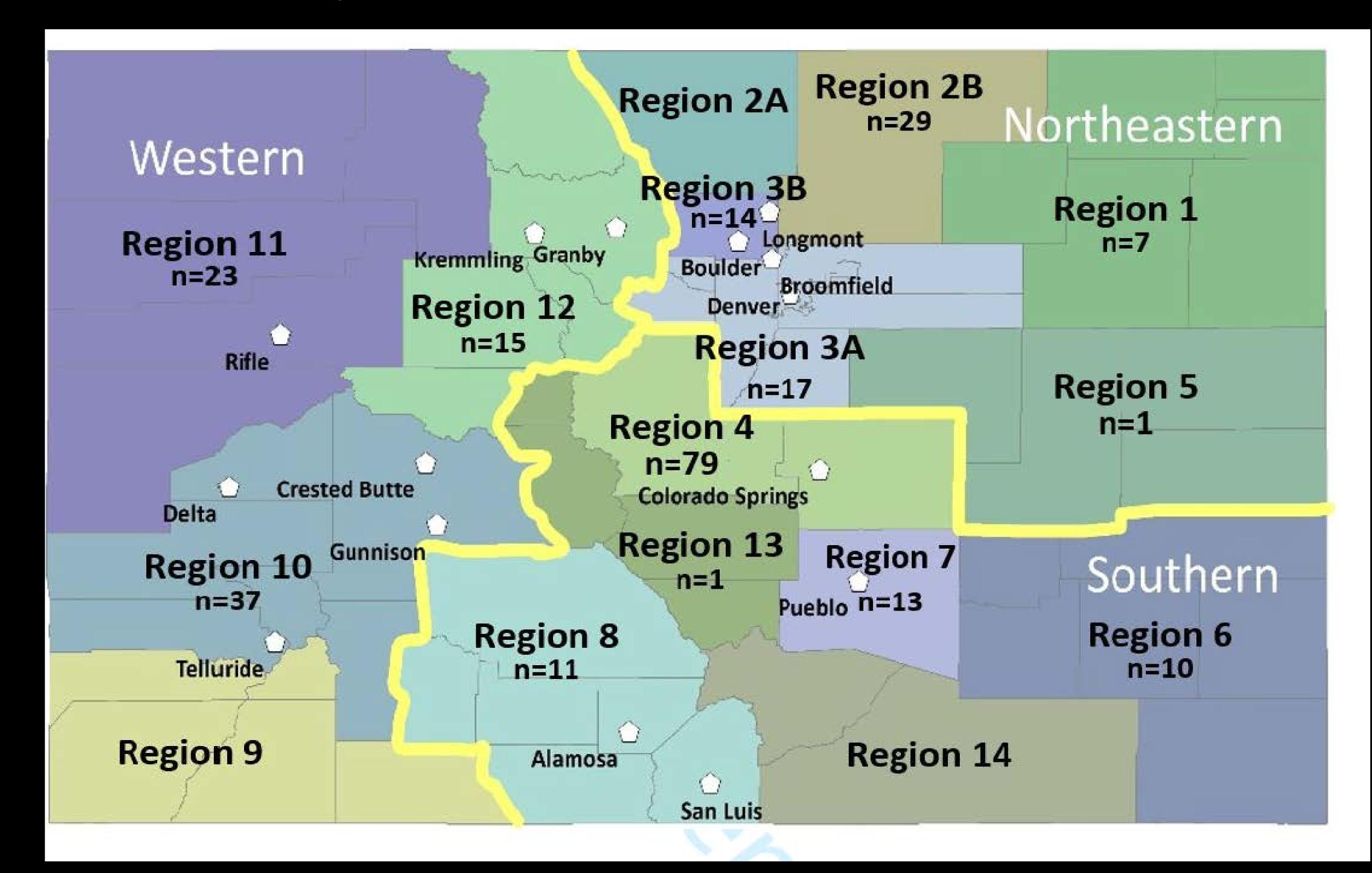
- Focus Groups and Interviews
- Survey Observations
- Clinical Trials

PREVIOUS WORK

State of Colorado, Department of Public Health

State of Illinois,
Department of Public Health

Focus Groups across Colorado



We identified five themes:

- 1) older adults perceive a <u>stigma</u> associated with cannabis use, even if used for medical purposes
- 2) there is a <u>lack of information</u> about the use of cannabis for medical purposes.
- 3) substantial barriers exist to medical cannabis program.
- 4) cannabis largely is used for <u>symptom relief</u> (e.g., pain) and as a <u>substitute for opioids</u> and other medications.
- 5) persons who use cannabis only for a medical purpose prefer their own physicians but do not always use

A Clinical Profile of Older Adults who use Cannabis

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OBJECTIVE

To describe

- a) prevalence and patterns of marijuana use, and
- b) predicators and outcomes of marijuana use, in Colorado adults age 65 and older

Design

State-wide survey, Self-reported health outcomes related to past year marijuana usecross-sectional paper or computer-based survey

Participants and Settings (n = 270)

Purposive sample of older adults ≥ age 65 in each of Colorado's 16 Area Agencies on Aging regions; at senior centers, wellness clinics, health clinics, and marijuana dispensaries.

Methods

Logit regression of predictors of past year marijuana use (medical or recreational)

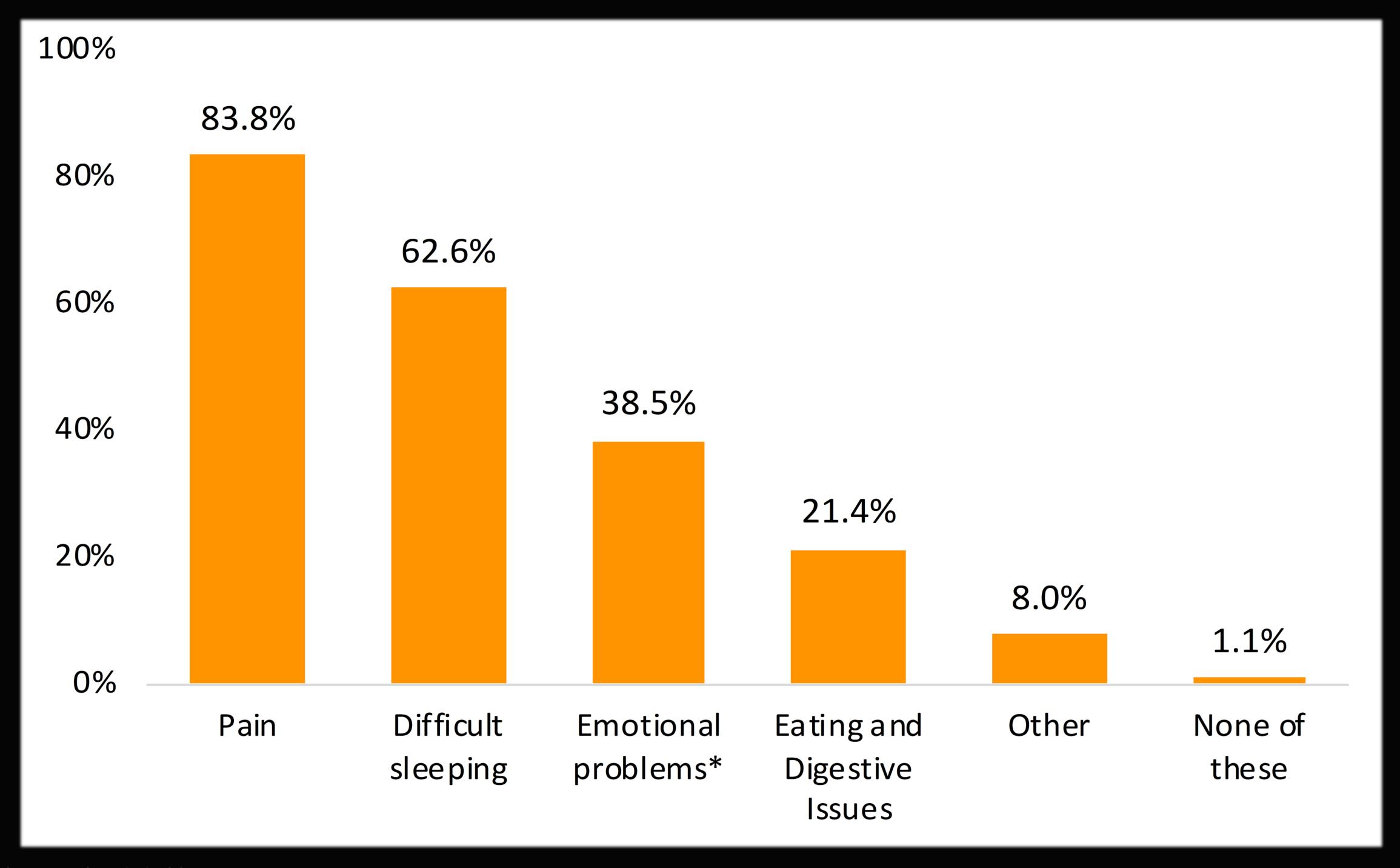
More than 100 survey questions...

GENERAL ATTITUDES ABOUT MA	RIJUANA						
14. Regardless of my current state law marijuana for the following reaso A. Tax its sale for st	ns:	Do Not Agree			Strongly Agree		
B. Medical benefits	B. Medical benefits C. Recreational use					5	
C. Recreational use						5	
D. Reduction of bu	D. Reduction of burden on legal/prison systemE. Safer, easier access				4	5	
E. Safer, easier acc					4	5	
F. Other:							
G. Other:							
H. Other:							
I. Other:							
15. Has a health provider talked to yo	u about marijuana use?			No 0	Yes	•	



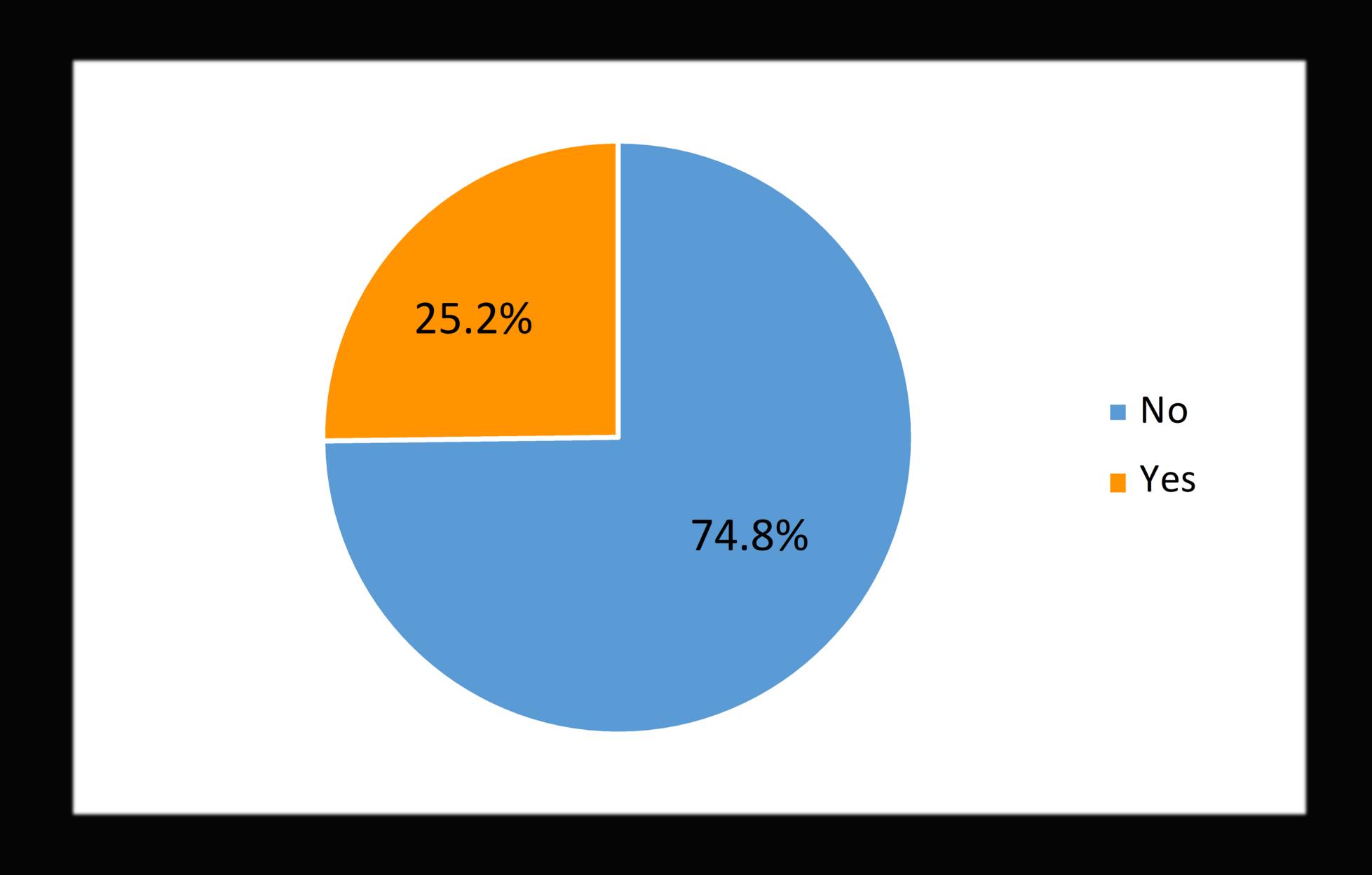
Medical Cannabis Program Opioid Alternative Program

For what medical symptoms do you use cannabis?

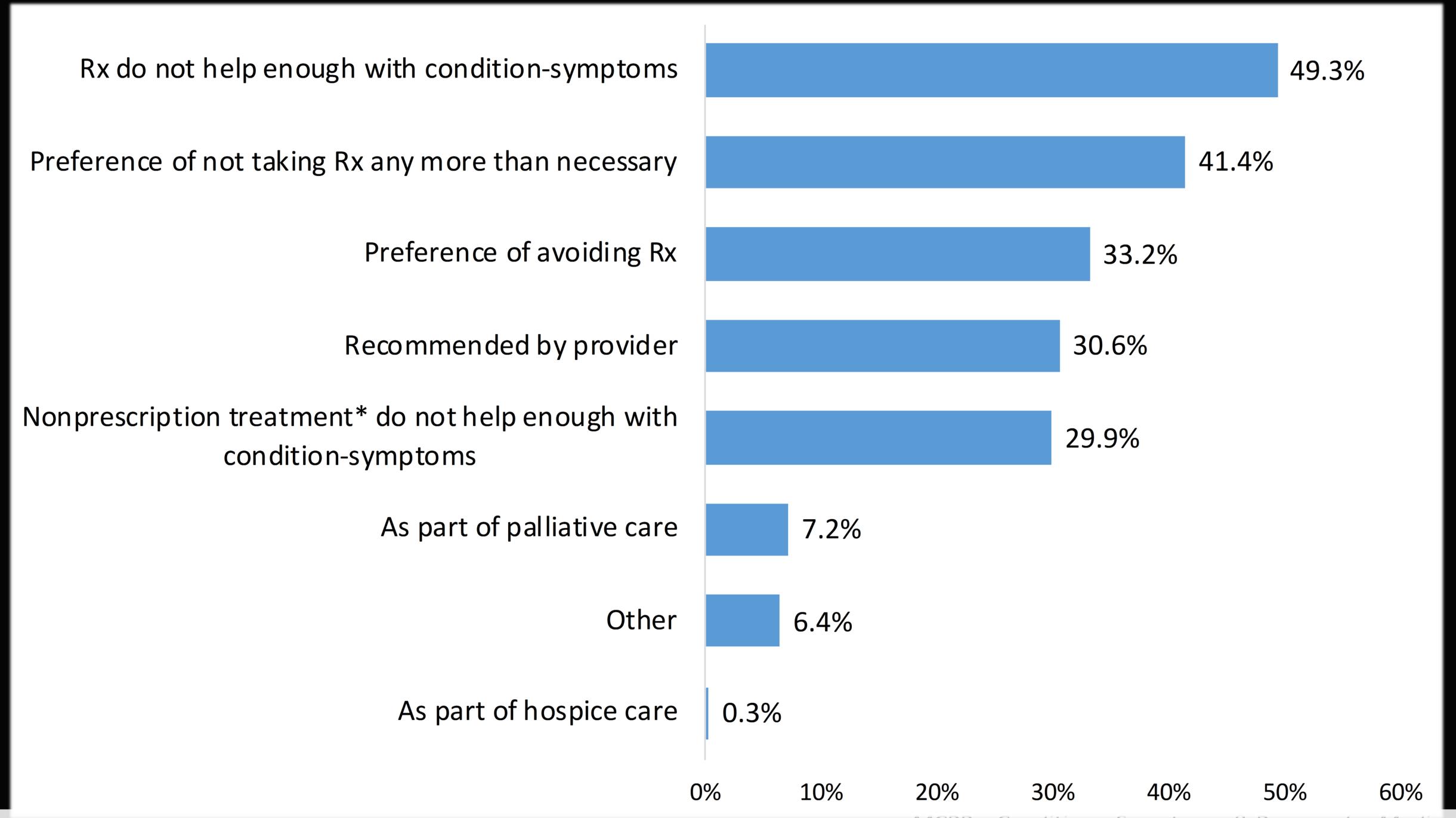


Feeling anxious, depressed, or irritable

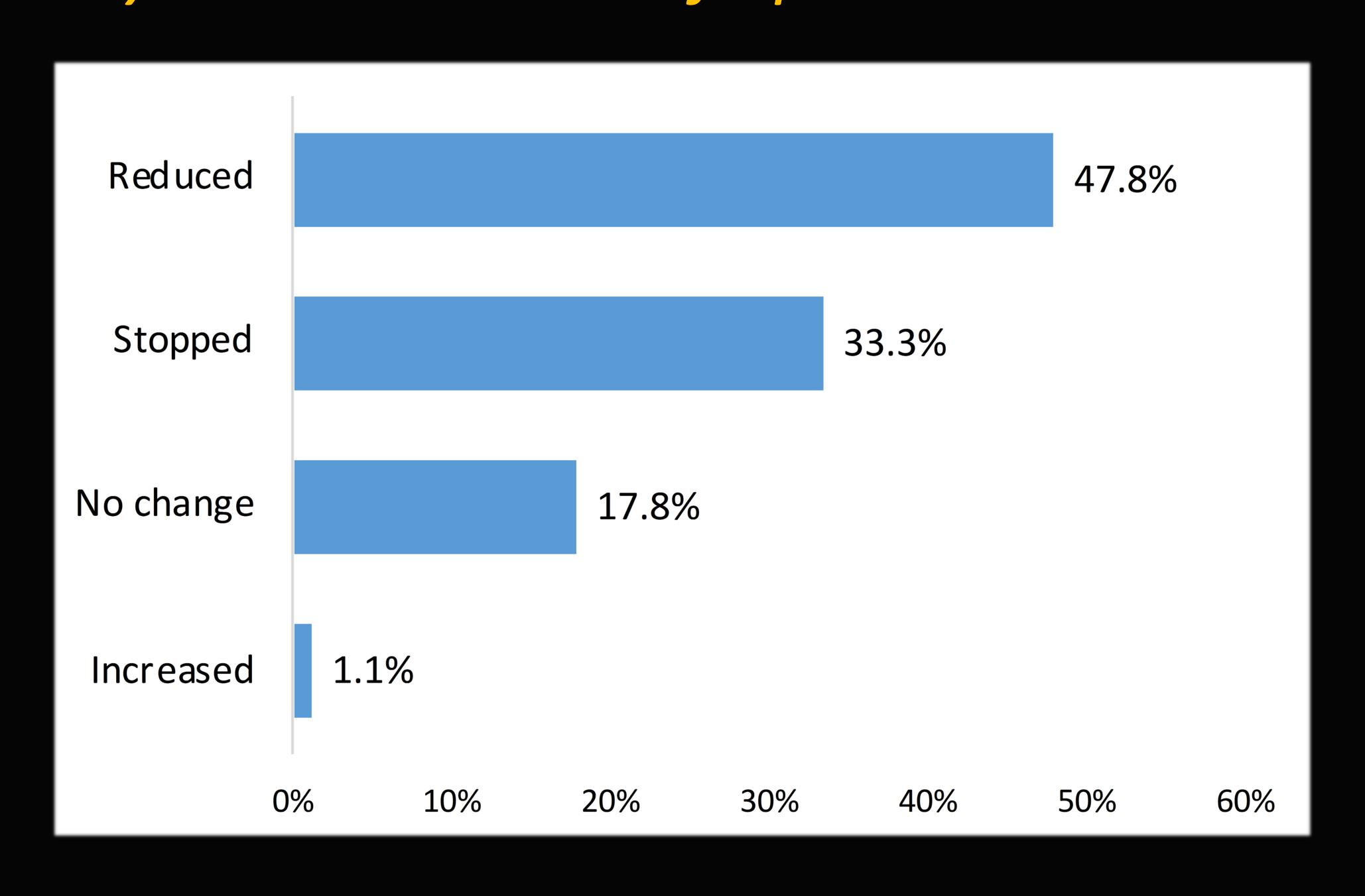
Before you began the state program, had you been using cannabis?



Relative to your diagnosed conditions and symptoms, why do you use medical cannabis?



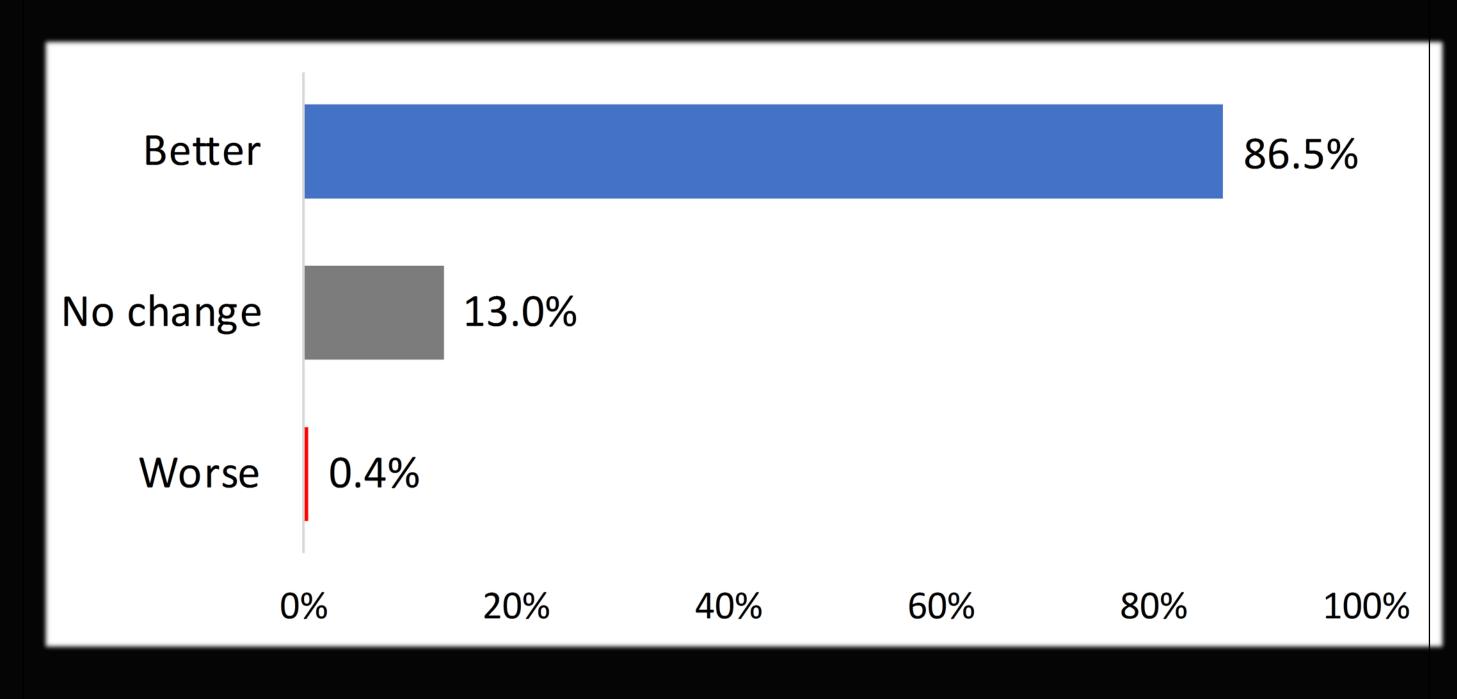
Relative to your medical cannabis use, has your current use of opioids or narcotics:

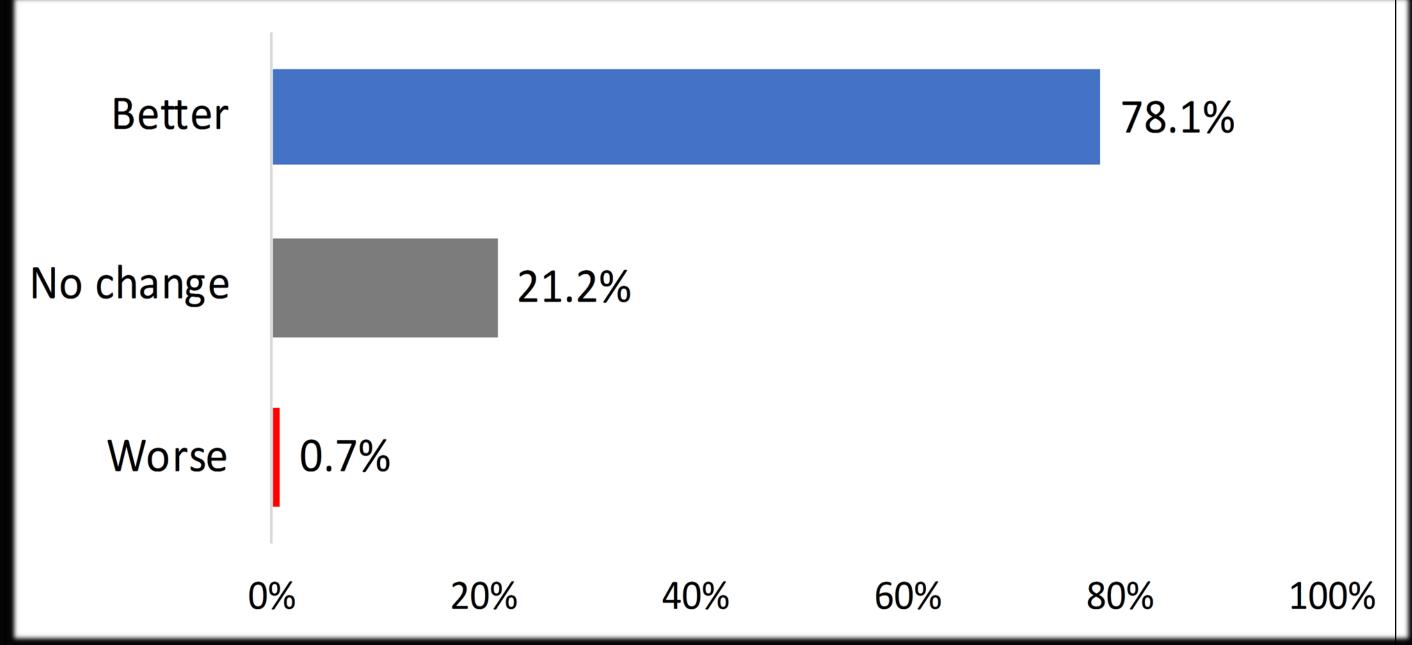


How does using cannabis affect your:

Pain

Sleep quality

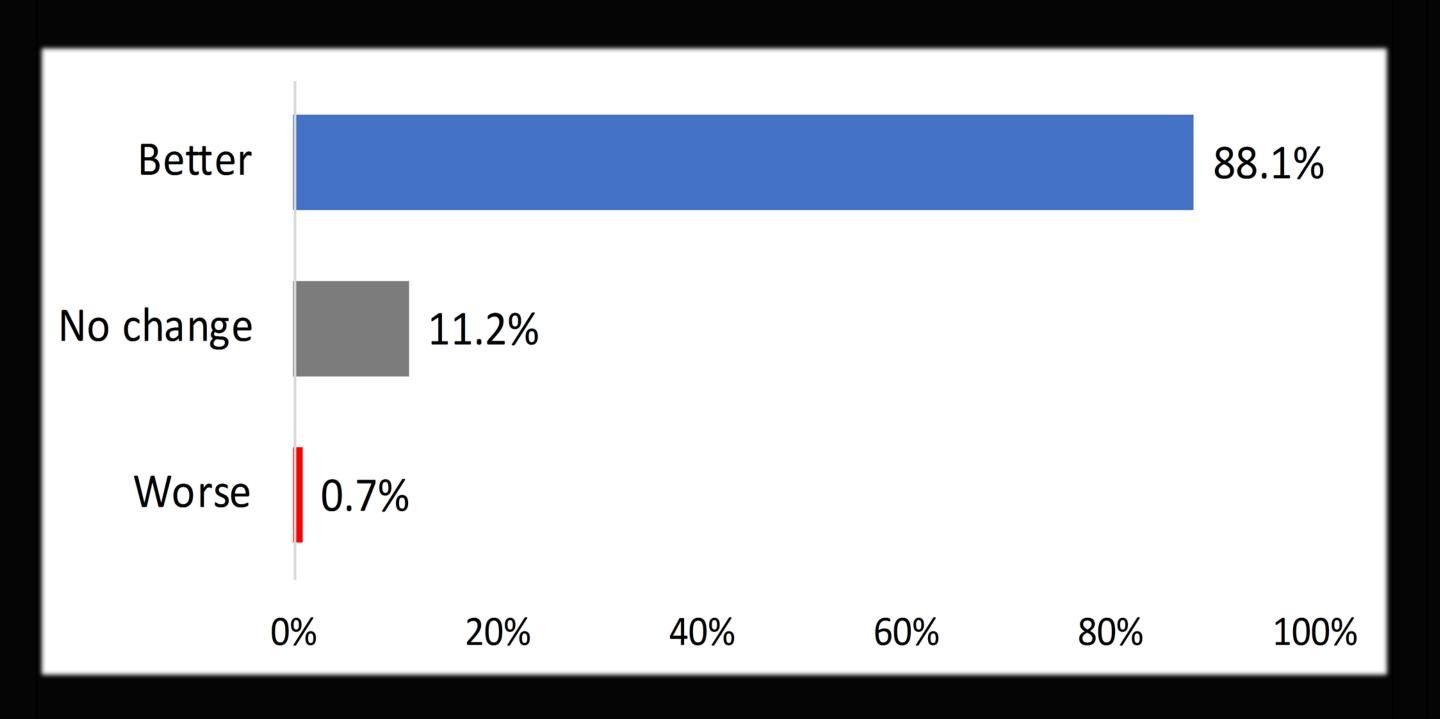


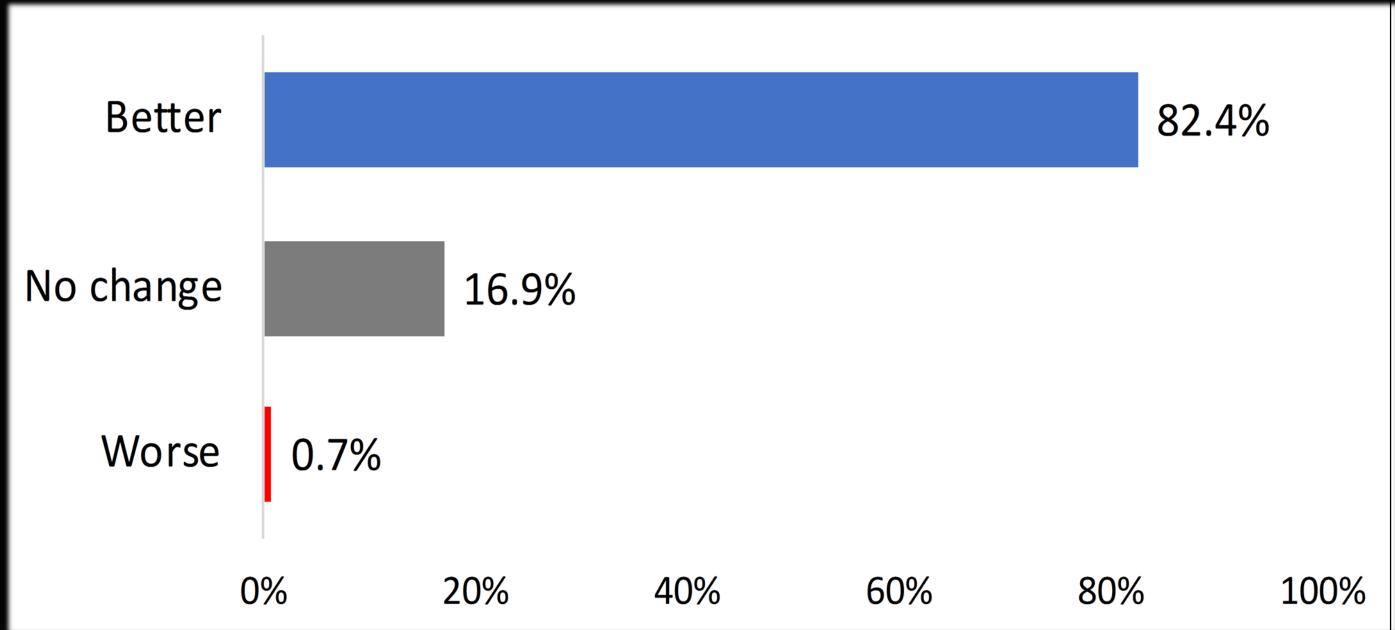


How does using cannabis affect your:

Overall quality of life

Health outcomes and expectations

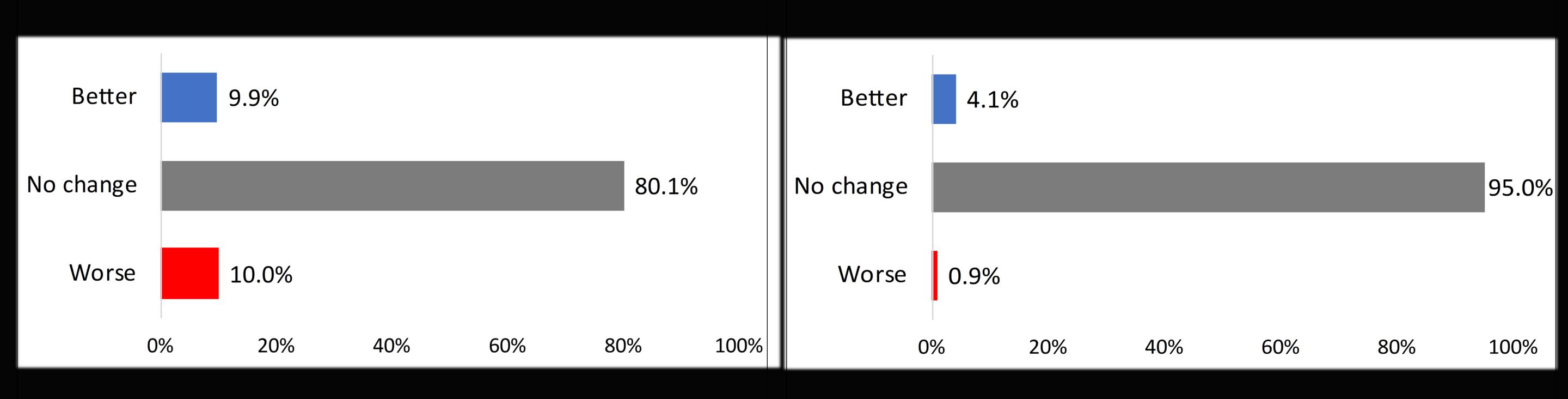




How does using cannabis affect your:

Memory or thinking

Frequency of falls



So What?

- Improved Quality of Life
- Diversion from Opioid Misuse
- Minimal Harms

Where to Next?

- Condition Specific Trials
- Palliation and End of Life
- Linking w Point of Sale Data

THANKYOU