# An Assessment of Farmers' Perspectives of Medical Marijuana as an Alternative Treatment for Chronic Pain: A Survey

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### BACKGROUND

- The U.S. spends over \$100 billion annually on healthcare costs related to pain management and opioid dependence [1].
- This exceeds the costs of cancer, diabetes, and heart disease combined. Chronic pain costs an estimated \$600 billion annually in lost productivity and medical treatment. Over 40,000 people die each year from opioid overdose.[1,2]
- Chronic pain is a risk factor in farming and is higher among agricultural workers than in other industries. [3]
- Many farmers suffer from chronic musculoskeletal (i.e., low back, hip, knee, neck, hand, and finger) pain conditions needing continuous medical treatment. [3,4]
- Research studies found higher drug-related deaths among rural farming communities due to misuse and a divide in access to health-related information.[1,5
- The literature also suggests that using alternative treatments to opioids to treat chronic pain would be helpful by tailoring interventions to the need. [5]
- Given chronic illnesses' clinical and economic burden on patients and society, evaluating potential treatment options to reach the most desirable outcomes would be beneficial. Knowing individuals' views of medical marijuana as an alternative treatment for chronic pain may help policy decisions and development.
- The main aim is to assess individuals' perspectives on medical marijuana as a treatment alternative for chronic pain.

### METHODS

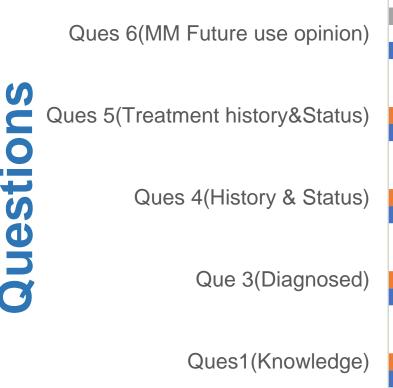
- We developed a survey to elicit individuals' views on the treatment modality of chronic pain conditions.
  - Provided a 16-question survey instrument
  - The first seven questions collect information about the participant's knowledge of the subject matter and source of information, disease history & status, and treatment opinion about medical marijuana as an alternative treatment.
  - The next nine questions ask about health insurance coverage, professional, demography, and socioeconomic status.
- Institutional Review Board process approval
- Pre-test the survey instrument to ensure validity
- Identified eligible individuals 18 years or older to participate in the study.
- Administered the revised survey via an electronic anonymous link to an agricultural worker/farmer database.
- We used descriptive statistics to summarize the data.
- We focused data analysis on questions one, three, four, five, and six (Table 1).

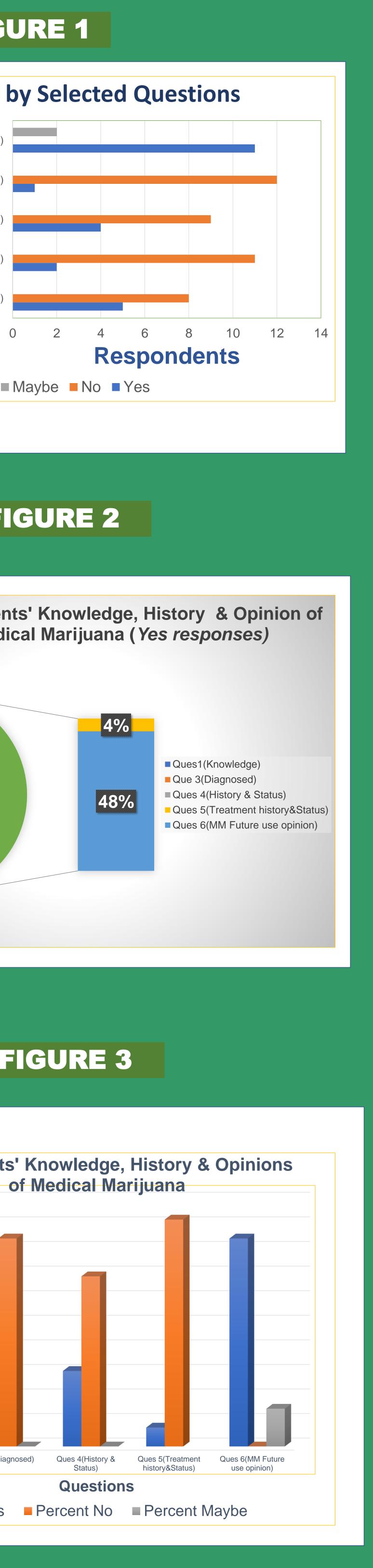
	<b>Table 1.</b> Survey Questions Control	odes and Description
(	Codes	Description
C	Ques1(Knowledge)	Chronic pain does not go away, and it has clir
		burdens. Before this study, did you know about
		farmers or the farming community?
(	Ques 3(Diagnosed)	Have you ever been diagnosed with chronic
C	Ques 4 (History & Status)	Are you currently or have ever been treated for
(	Ques 5 (Treatment history & Status)	Are you currently or have ever been a medica
		patient?
C	Ques 6(MM Future use opinion)	If no, would you use medical marijuana to treat the health authorities indicate it is safe to use
		1

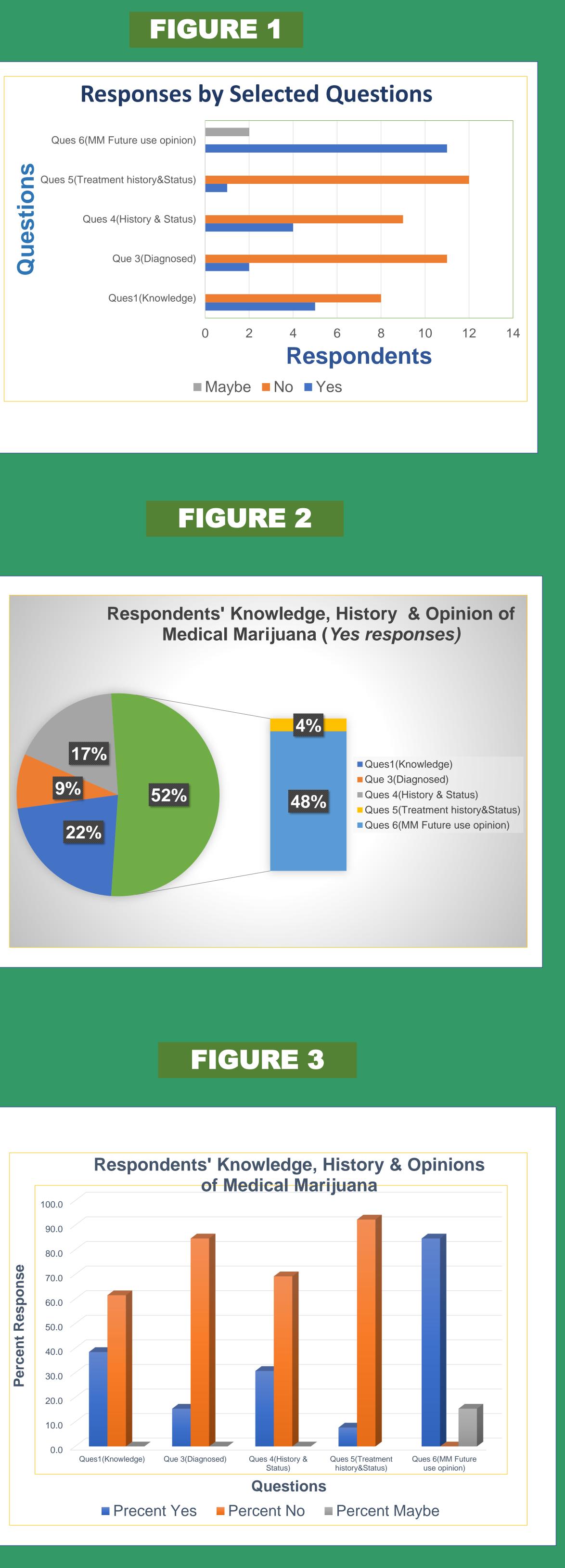
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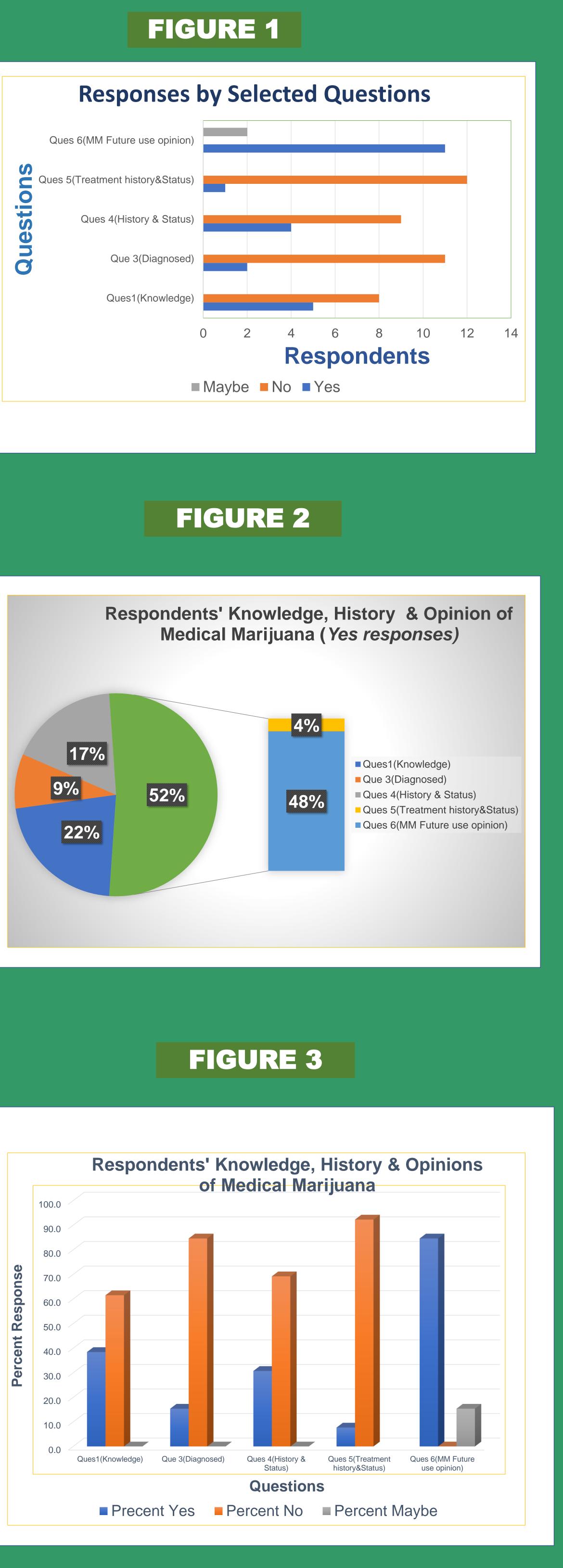
pain? for chronic pain? cal marijuana (MM)

reat a covered illness if se and effective?



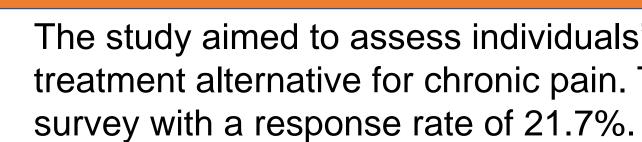












- effective.
- considering their treatment history and status.
- the farming community.

- this group, according to NIDA
- programs, and awareness.

- an alternative treatment for chronic pain.
- in healthcare policy decision-making.

platform and student support for this research.

1.Dydyk, A. M., Sizemore, D. C., Fariba, K. A., Sanghavi, D., and Porter, B. R. (2022). Florida Controlled Substance Prescribing. StatPearls-NCBI Bookshelf, National Library of Medicine, National Institute of Health, Jan. 2022. 2. Alexander, M. J., Kiang, M. V., and Barbieri, M. (2018). Trends in Black and White Opioid Mortality in the United States, 1979–2015. *Epidemiology* 29 (5), 707–715. 3. Fethke, N. B., Merlino, L. A., Gerr, F., Schall Jr., M. C., and Branch, C. A. (2015). Musculoskeletal Pain Among Midwest Farmers and

Associations With Agricultural Activities. *American Journal of Industrial Medicine* 58:319–330

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### RESULTS

The study aimed to assess individuals' perspectives about medical marijuana as a treatment alternative for chronic pain. Thirteen persons out of 60 responded to the

Of those responding, 85% would use, and 25% would consider using medical marijuana to treat a covered illness if health authorities designate it as safe and

From the selected five questions, questions five and six makeup 52% of all yes responses, i.e., respondents responded favorably to using medical marijuana when

Only eight percent were or have ever been medical marijuana patients.

Sixty-nine percent of the respondents did not know of chronic pain among farmers or

### DISCUSSIONS

• The response rate was low. Only 13 out of 60 responded to the survey, but the results are noteworthy. The majority of the respondents were blacks whom we target for programs. According to the CDC and NIDA (National Institute of Drug Abuse), blacks are more like to die of opioid overdose, and the related deaths continue to worsen for

• Responses from this race group can help stimulate health equity and disparity

### CONCLUSIONS

• The preliminary results suggest that farmers are willing to use medical marijuana as

This outcome highlights the importance of accounting for individuals' perspectives

• Future research will reach a broader population and sampling frame.

### DISCLOSURES

The authors declare that there is no conflict of interest.

## ACKNOWLEDGMENTS

Acknowledging FAMU College of Agriculture and Food Sciences for providing the

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underscores the need for racially inclusive approach to address the opioid crisis in hard-hit areas. Thursday, September 9, 2021.