



# Juhi Shah<sup>1</sup>; Dr. Christine Hoang<sup>2</sup>, M.D., FACOG; Dr. Shanna Combs<sup>2</sup>, M.D., FACOG

### **RESEARCH QUESTION**

What are the perceptions of the risks and benefits of Cannabis use during pregnancy of patients who are pregnant or in the six-month postpartum period with a social history of cannabis usage? Furthermore, do these perceptions differ from patients' perspectives of cannabis usage in general? How do these patients believe pregnancy is impacted by cannabis usage?

### BACKGROUND

Marijuana, Δ9 - tetrahydrocannabinol (THC), is one of the most used illicit drugs in the United States.<sup>1</sup> Since 1996, 33 states have passed Medical Marijuana Laws including 11 states that have passed recreational marijuana laws.<sup>2</sup> While the increased usage of medical marijuana and recreational marijuana is correlated with increased acceptance and accessibility, the American College of Obstetricians and Gynecologists state that women should not use cannabis during preconception, pregnancy, and lactation. This recommendation is due to the main psychoactive component of cannabis crossing the placenta during gestation.

Amid this recognition, the prevalence of current cannabis uses during and after pregnancy has increased. This increase can be seen across a spectrum of factors including socioeconomic status, age, race, etc.<sup>3</sup> However, less has been published regarding patient perceptions on risks and benefits of cannabis use during pregnancy and the clinical understanding of cannabis' effects during pregnancy and lactation. This study aims to elucidate what these perceptions may entail by surveying the previously or presently pregnant and six-month postpartum patients.

# METHODS

A retrospective cohort study in combination with a crosssectional in-person survey was performed. Pregnant and post-partum patients up to six months were seen at JPS Women's Health clinic to be identified for the study. After creating a cross-sectional and comprehensive examination survey on usage of cannabis, the survey was distributed to this clinic via a tablet. The patients at the clinic were offered to participate in the study's survey and given an appropriate consent form.

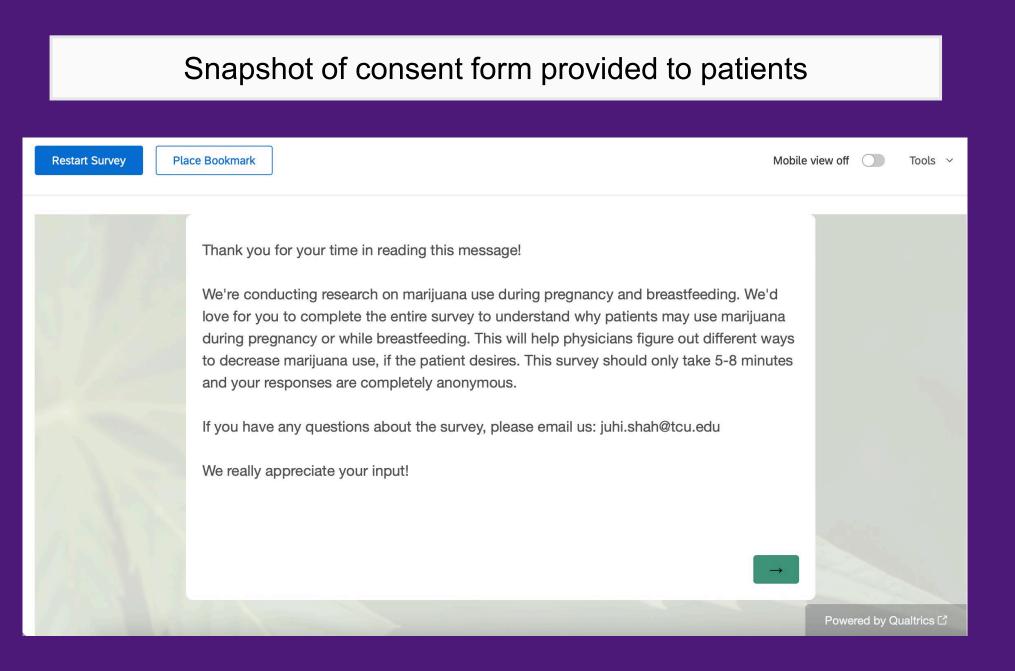
We used a qualitative description methodology to capture patients' perspectives on the risks and benefits of cannabis usage in the prenatal and six-month post-partum stages. Qualitative content analysis involves combining conceptdriven and data-driven analysis approaches to the text which was collected at the time of consent during the clinic visit.

# **CANNABIS USAGE AND PATIENT PERCEPTION: ASSESSING RISKS VERSUS BENEFITS DURING PREGNANCY AND THE SIX-MONTH POSTPARTUM PERIOD**

Our study examined the perceptions of cannabis use during pregnancy and six-month postpartum period and evaluated for the participants' understanding of the effects of cannabis use during pregnancy and sixmonth postpartum period.

Interestingly, findings from this study revealed that a 40% of the participants did not believe there was harm in using cannabis during pregnancy and six-month postpartum period. There was also a common correlation between participants who were previously pregnant and previously used cannabis. This prior cannabis use was an overwhelming theme as to why participants continued to use cannabis during pregnancy and/or six-month postpartum period. After discovering this correlation, it would be beneficial for healthcare providers to screen for prior cannabis use in order to effectively counsel patients.

Other reasons patients reported cannabis use was to help "calm me down" or "to relax" or "helps with contractions." These major themes as to why participants partake in cannabis use during pregnancy and six-month postpartum phase are vital to their prenatal care as understanding their why can help healthcare providers offer another alternative.



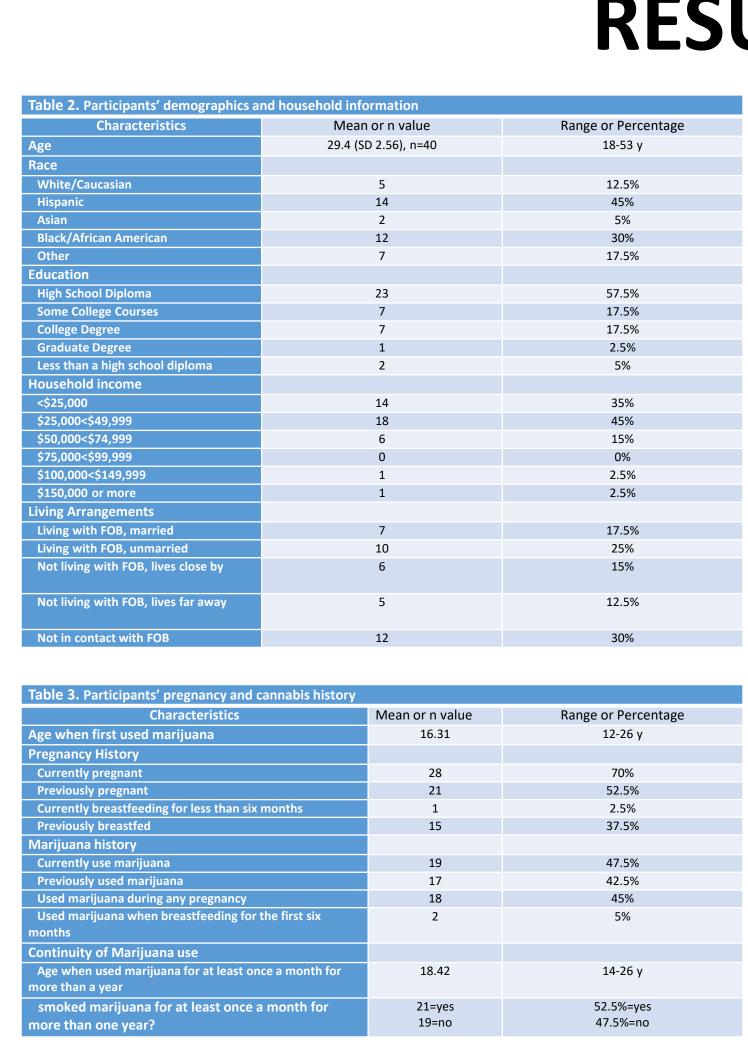


QR code for poster https://www.qr-code-generator.com/

Example of questionnaire on tablet		
	Marijuana Timeline & Quantity	
	How old were you when you first used marijuana?	
	Enter Age in Years	
	Have you ever smoked marijuana for at least once a month for more than one year?	
	Yes	
	No	



QR code for more information

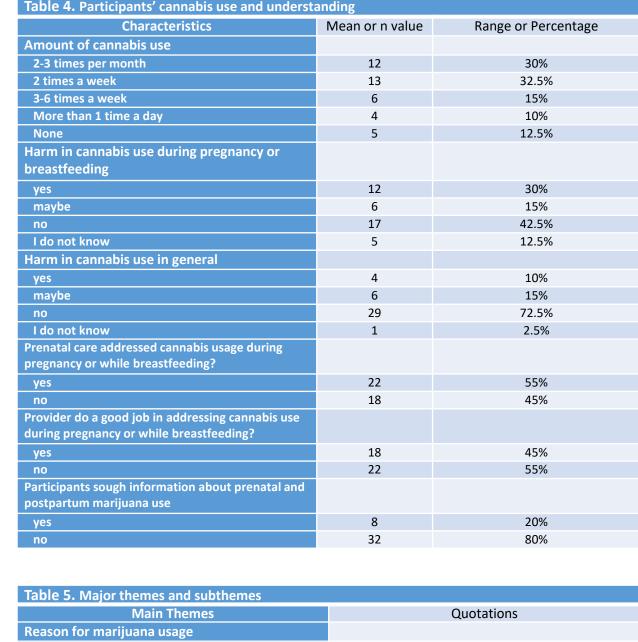


Incorporating the framework of ethical concerns of maternal cannabis use during pregnancy or the six-month postpartum period, will help navigate the difficult conversations of reporting substance use. This study hopes to advocate for pregnant or new mothers in extrapolating the perspective of risks versus benefits to relay to clinicians for a therapeutic relationship and optimization of care. In the healthcare field, the primary goal is establishing a healthcare team that the patient has a voice in.





### RESULTS





### **FUTURE DIRECTIONS**

#### References

1.<sup>1</sup> Committee Opinion No. 722 Summary. *Obstetrics & Gynecology*. 2017;130(4):931-932. doi:10.1097/aog.000000000002349.

<sup>2</sup> Yu, B., Chen, X., Chen, X. (2020). "Marijuana legalization and historical trends in marijuana use among US residents aged 12–25: results from the 1979–2016 National Survey on drug use and health. ." <u>BMC Public Health 20, 156</u>.

<sup>3</sup>Marroun HE, Brown QL, Lund IO, et al. An epidemiological, developmental and clinical overview of cannabis use during pregnancy. *Preventive Medicine*. 2018;116:1-5. doi:10.1016/j.ypmed.2018.08.036.