



BACKGROUND

- Some patients consume Cannabis as a perceived safer alternative to pharmaceutical medications.
- There are mixed findings regarding medication use among Cannabis consumers.
- Cannabis consumers report higher rates of psychiatric and physical conditions. These associations may differ by sex.
- Given potential drug-cannabis-interactions, it is crucial to understand differences in the medications used by cannabis use status (CB+/CB-).

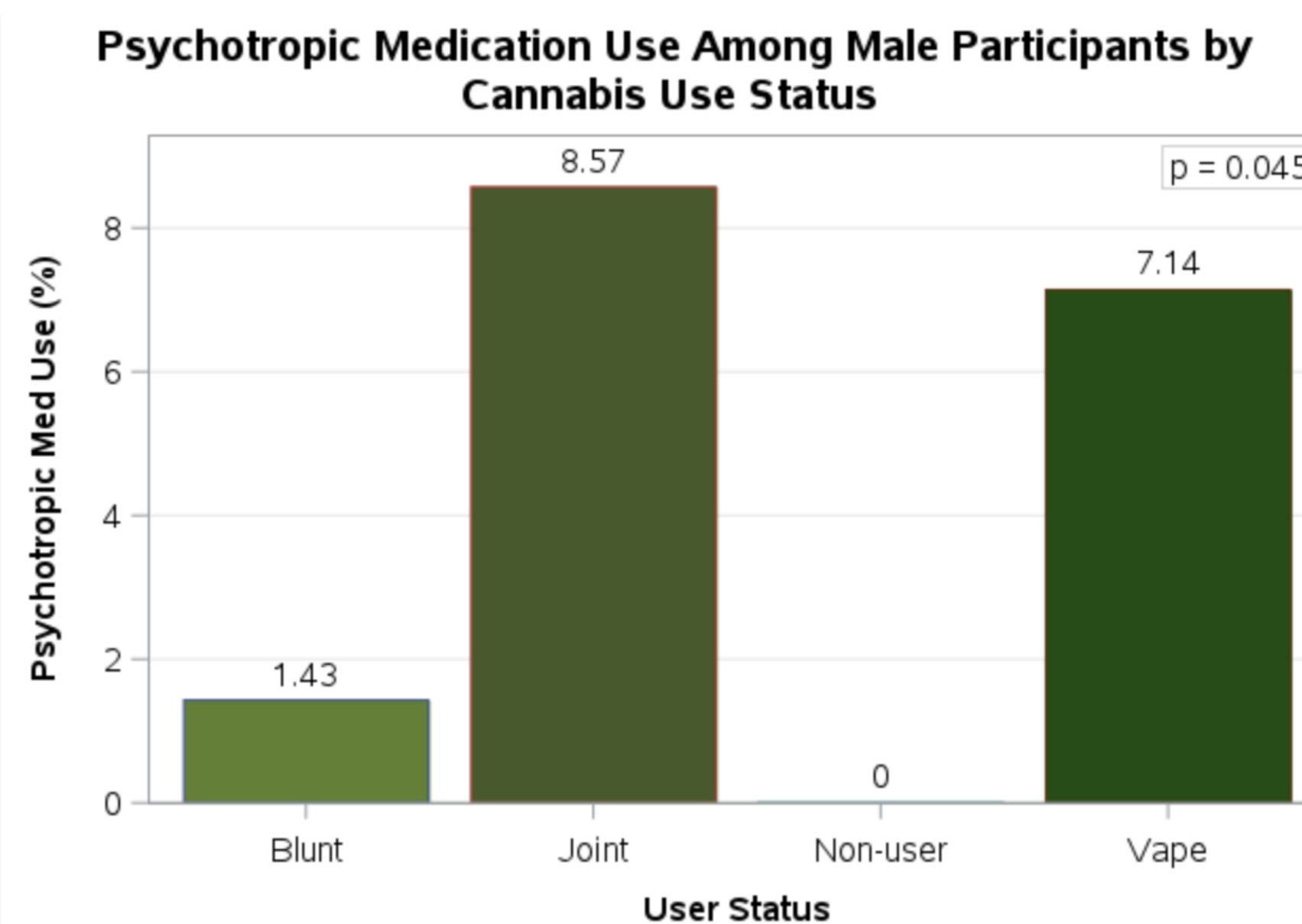
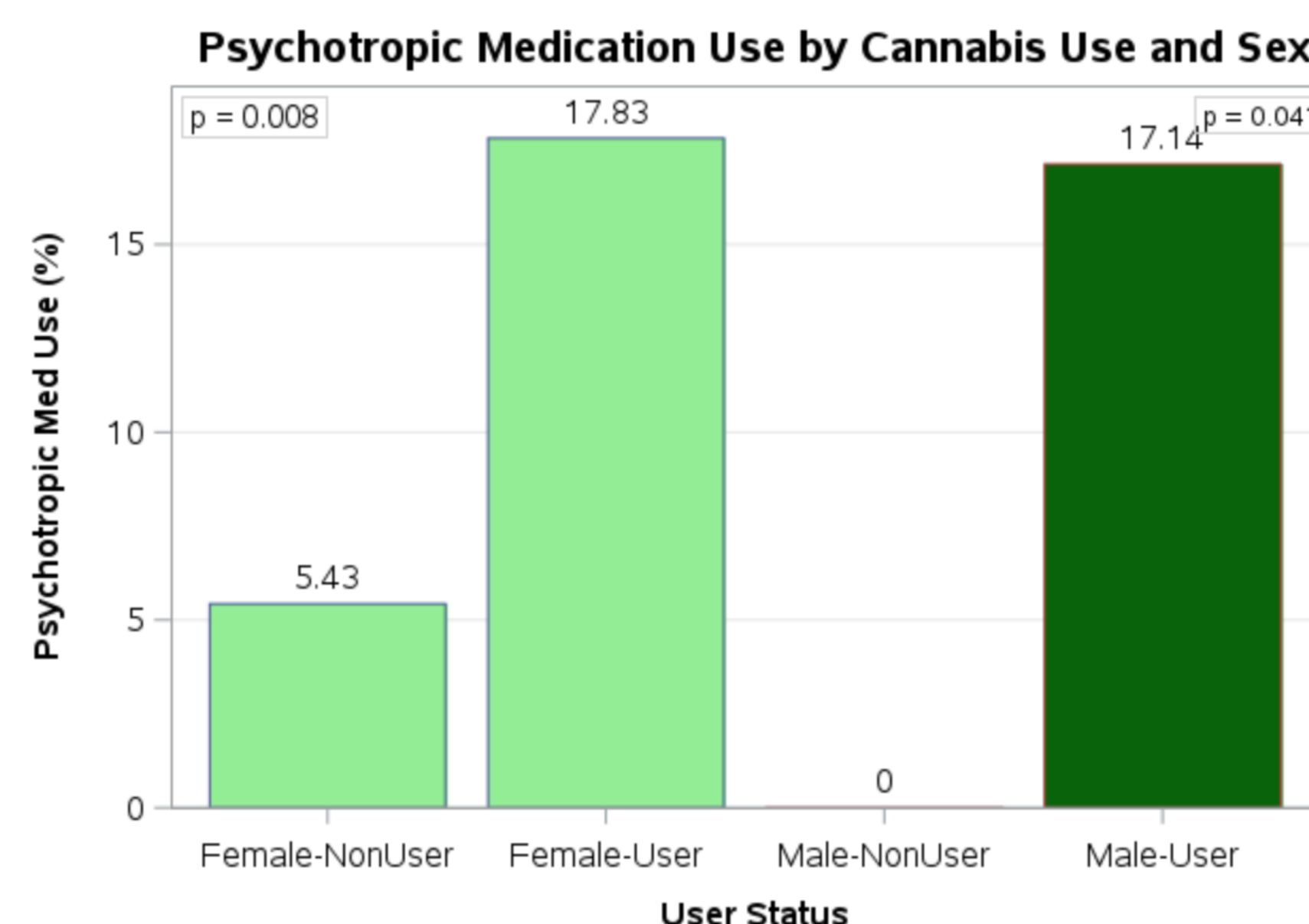
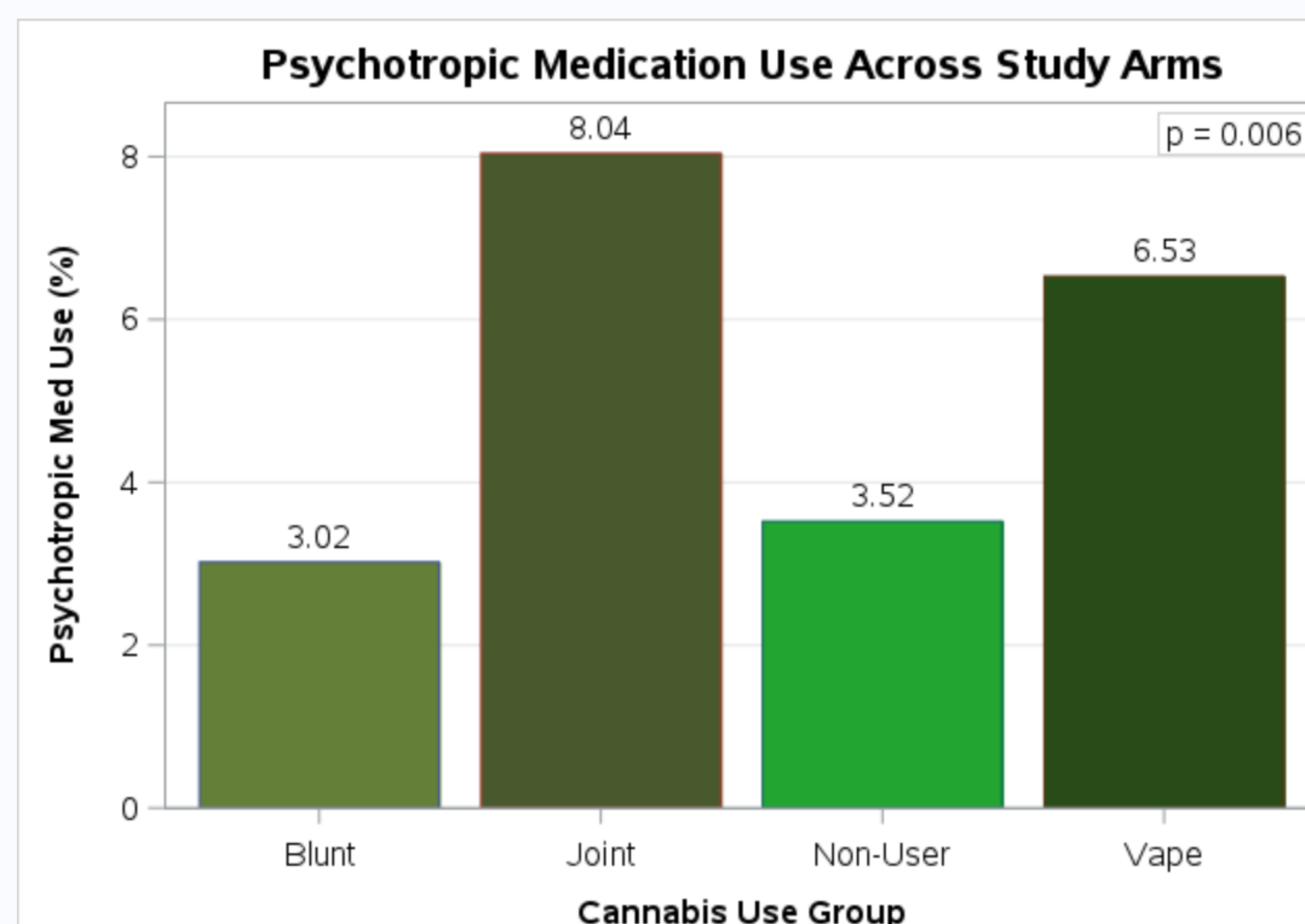
OBJECTIVE

- To explore whether medication use and history of medical conditions (HxMC +/-) differ between sex and between CB+ and CB-.

METHODS

- Data are from the Herbal Heart Study which investigates cannabis use and cardiovascular risk
- Participants (N=200) were 18-35 years old.
- CB+ was defined as use by blunt, joint, vape, bowl, or bong at least once a week during the past year.
- HxMC+ includes participants with a history of a medical condition such as diabetes, asthma, or heart disease.
- Medications/supplements were classified into three categories: psychotropic, non-psychotropic, and mixed-use, based on FDA clinical indications.
- Chi-Square tests were conducted to examine: 1) cannabis use, medication use, and HxMC; 2) if these variables were associated with sex.
- Mann-Whitney tests compared medication use between CB+/CB- and HxMC+/-.
- Kruskal-Wallis tests evaluated differences in medication use by route of cannabis administration (blunt vs joint vs vape/mixed).

RESULTS



KEY FINDINGS

- Most of the sample (mean age = 25.62y, SD = 4.81) were female (64.8%), Hispanic/Latino (57.3%), and CB+ (62.8%).
- 58.3% used medications or supplements; 29.2% were HxMC+.
- CB+ was associated with psychotropic medication use (p = 0.002) but not HxMC, or use of other medications.
- Psychotropic medication use was higher among CB+ (17.6% vs 3.5%) and highest in the joint group (p = 0.006).
- Females had higher total (42.2% vs 16.1%, p=0.008) and non-psychotropic medication use (36.2% vs 12.1%, p=0.007) than males.
- Psychotropic medication use was higher for both female (17.8% vs 5.43%, p=0.008) and male (17.4% vs 0.0%, p=0.042) CB+ than CB-.
- Among males, psychotropic medication use was highest among joint consumers (p=0.045).

CONCLUSIONS

- Sex differences in medication and cannabis use were observed in this cohort.
- Findings highlight the need to examine interactions between cannabis and psychotropic medications.
- Future research should explore the impact of cannabis use on broader medication profiles and consider sex differences in medication patterns.

ACKNOWLEDGMENTS

Funding for this research was made possible by the National Heart, Lung, And Blood Institute of the National Institutes of Health under Award Number R01HL153467