

# Pandemic Anxiety & Depression

Natural Chan

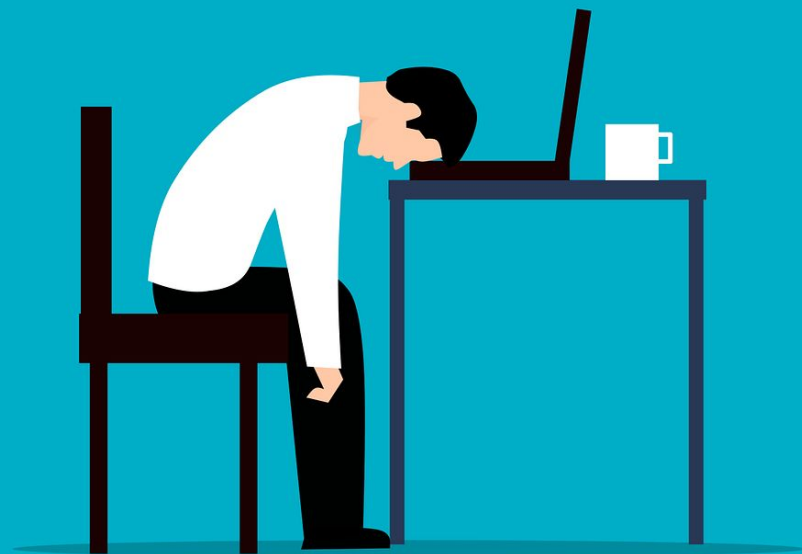


# Background

- 18% Experience Anxiety (ADAA)
- 7% Experience Depression (DBSA)
- Raise Mental Health Awareness
- Xanax and Zoloft (Pfizer)
- Identify Key Demographics
- Classify By Symptom Frequency



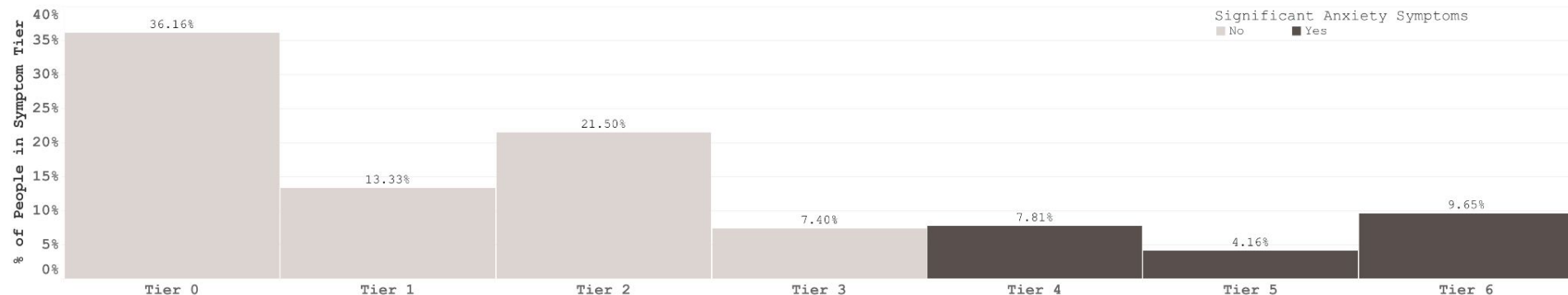
# Data



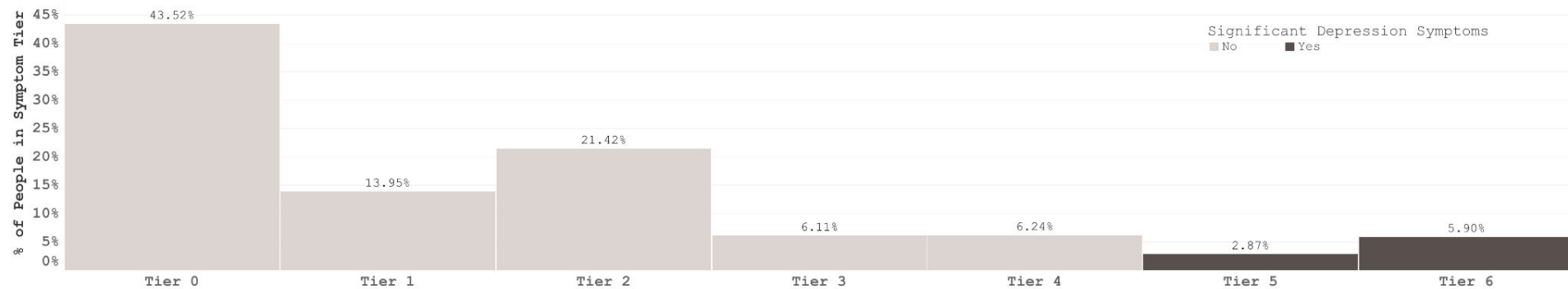
- Survey by CDC
- Sample the Data
- Create labels using symptom frequency

# Generating Labels

## Anxiety Likelihood

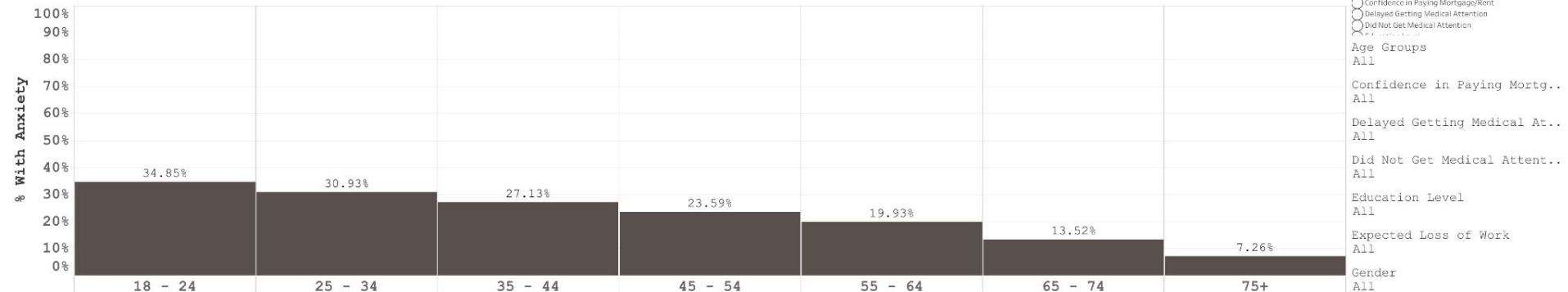


## Depression Likelihood

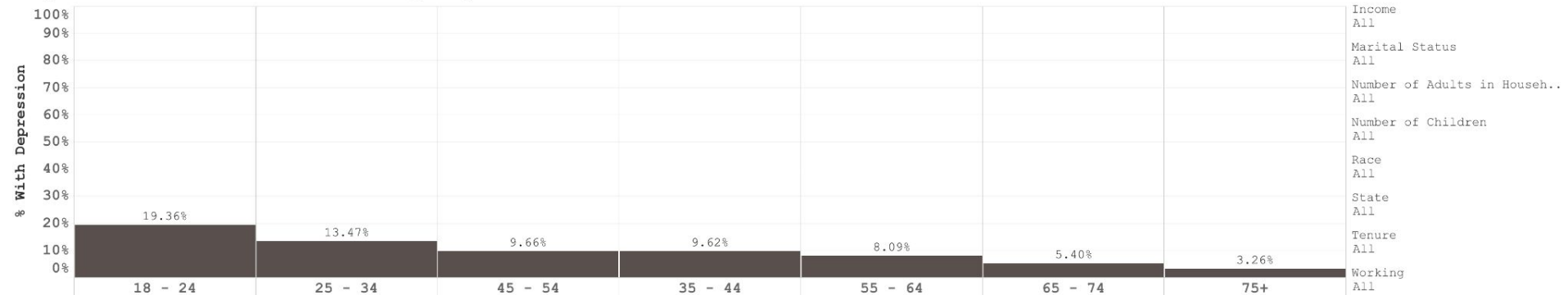


# Results

## Anxiety Within Demographic

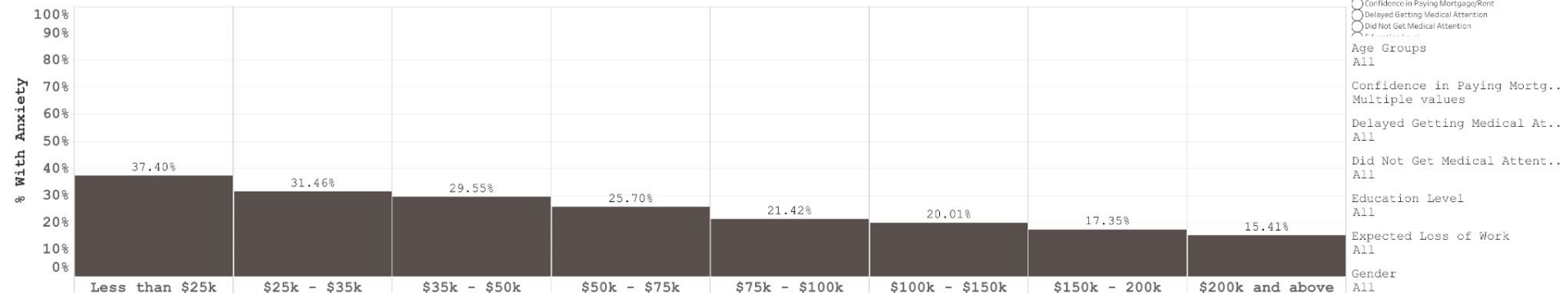


## Depression Within Demographic

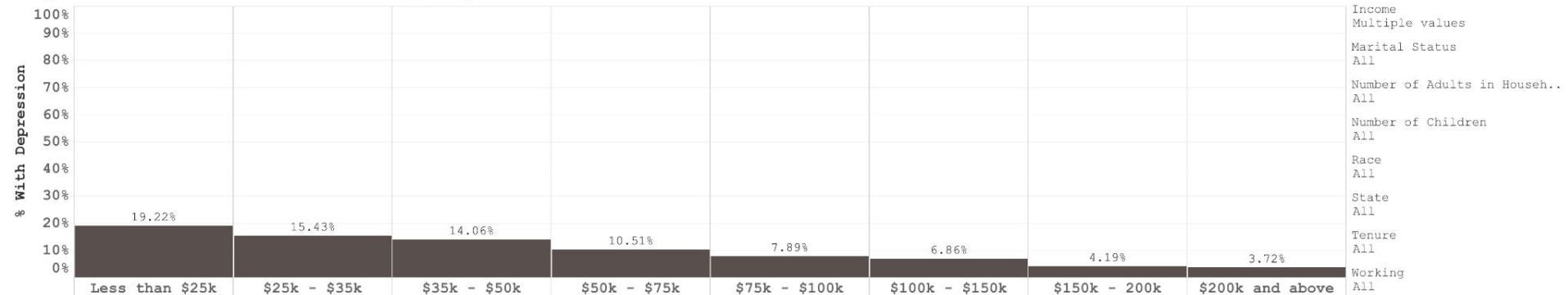


# Results

## Anxiety Within Demographic

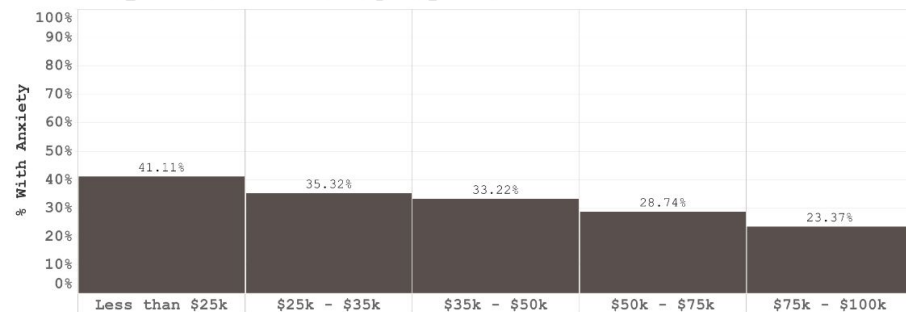


## Depression Within Demographic

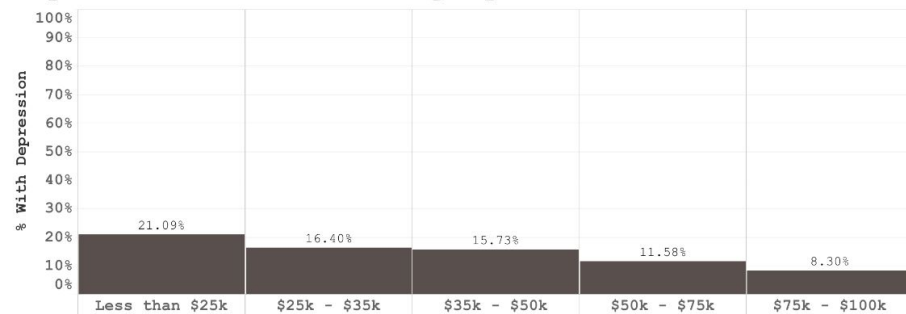


# Results

## Anxiety Within Demographic



## Depression Within Demographic



- Individuals **Between 25 and 64**
- **Gen Z, Millennials** and **Gen X**
- **Gen Z and Millennials** have high usage of **social media**
- **81% of Gen X** used **Facebook** (2017)

# Conclusion

- Target **low/middle income** and **younger** groups
- Partner with **Influencers** to **Raise Awareness**
- **Mental Health Posts** on **Facebook**





# Future Work

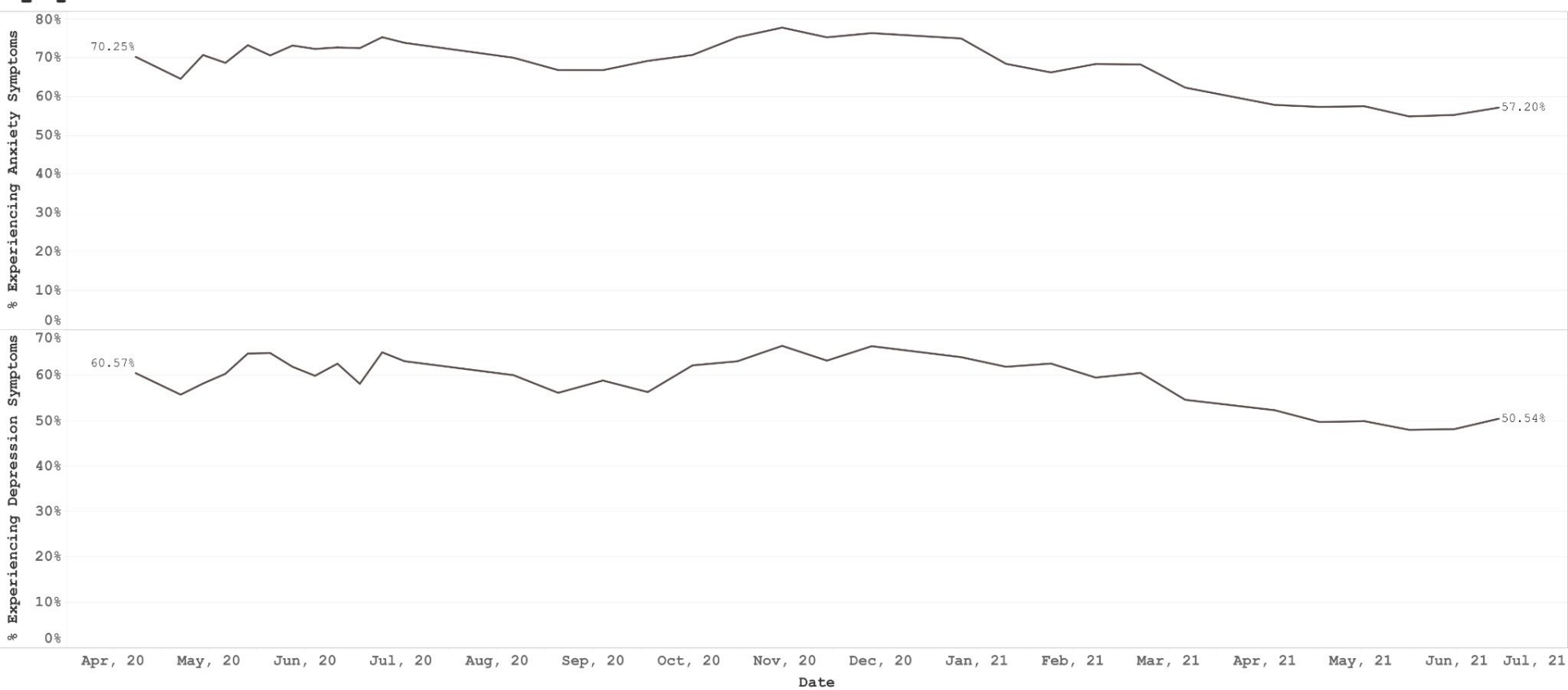


- Classify into Likelihood
- Adjust data sample
- More data
- Updated survey
- Ask questions

# Appendix

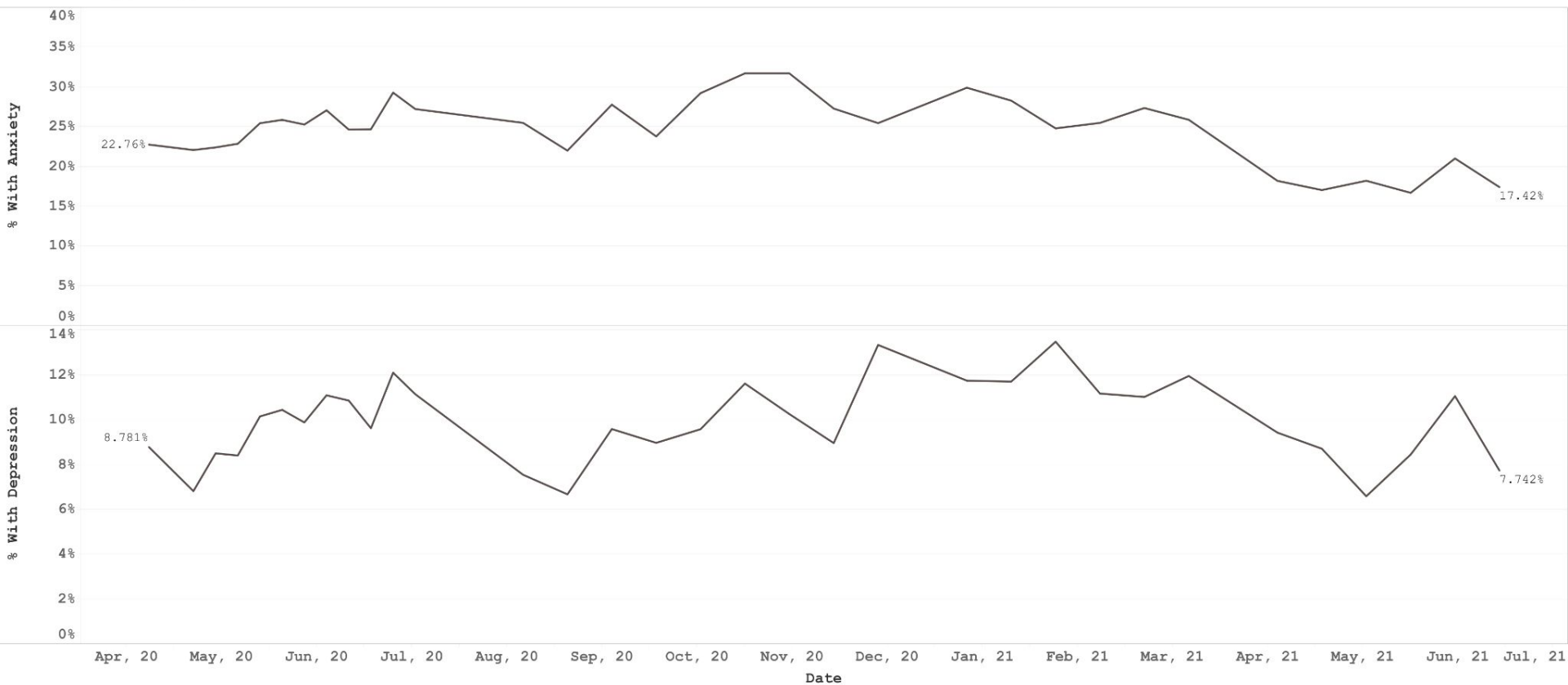
# Occurrence of Symptoms Over Time

Symptoms Over Time



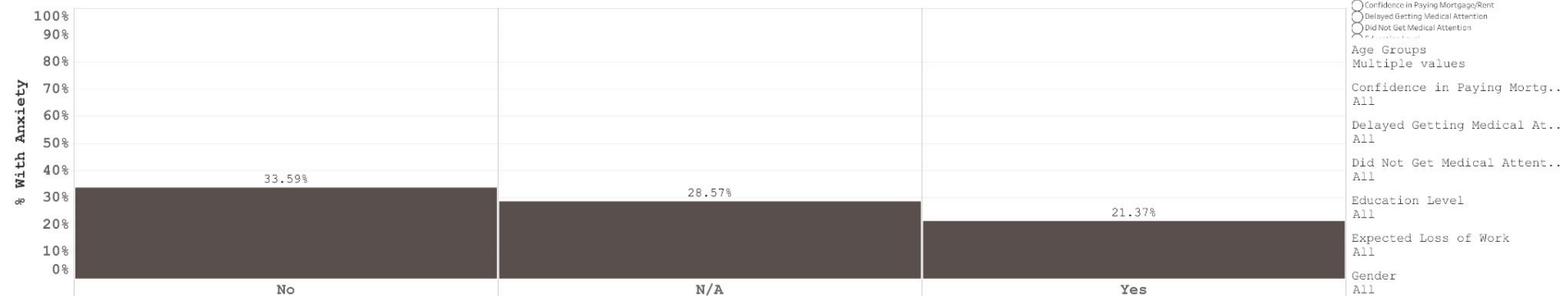
# Anxiety & Depression Over Time

Anxiety/Depression Over Time

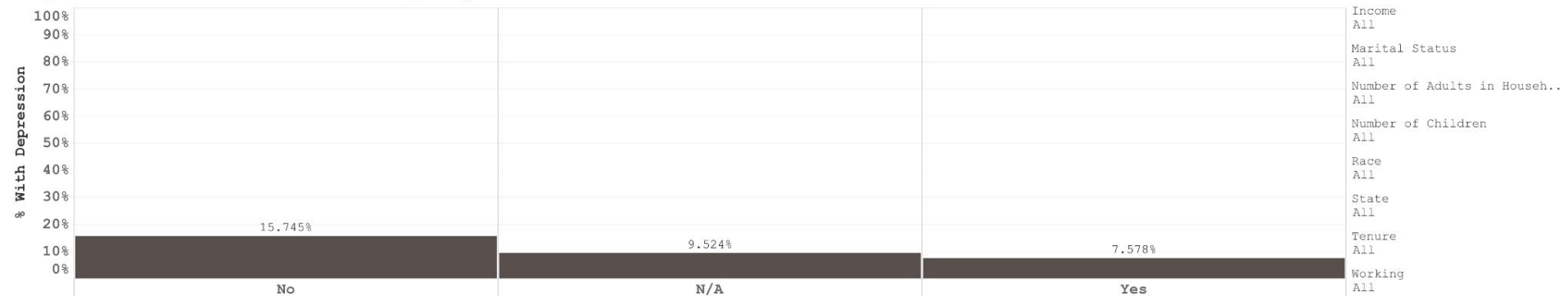


# Working or Not

## Anxiety Within Demographic

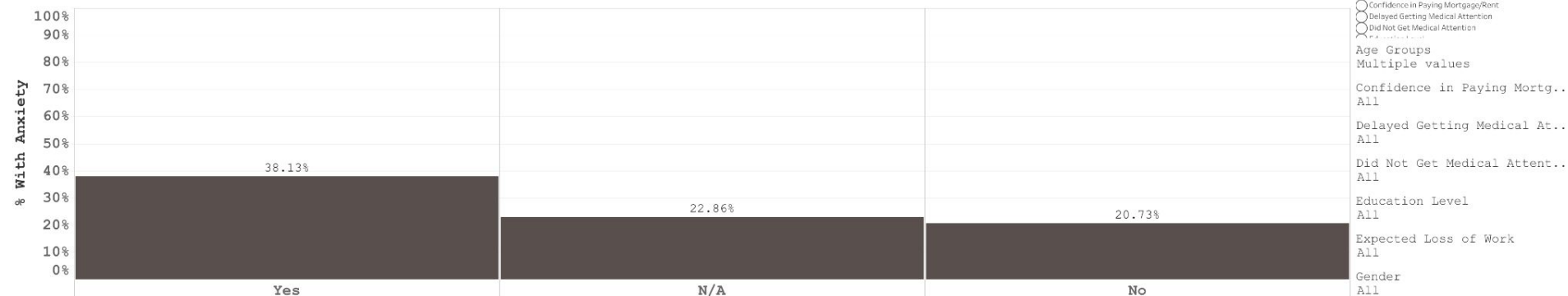


## Depression Within Demographic

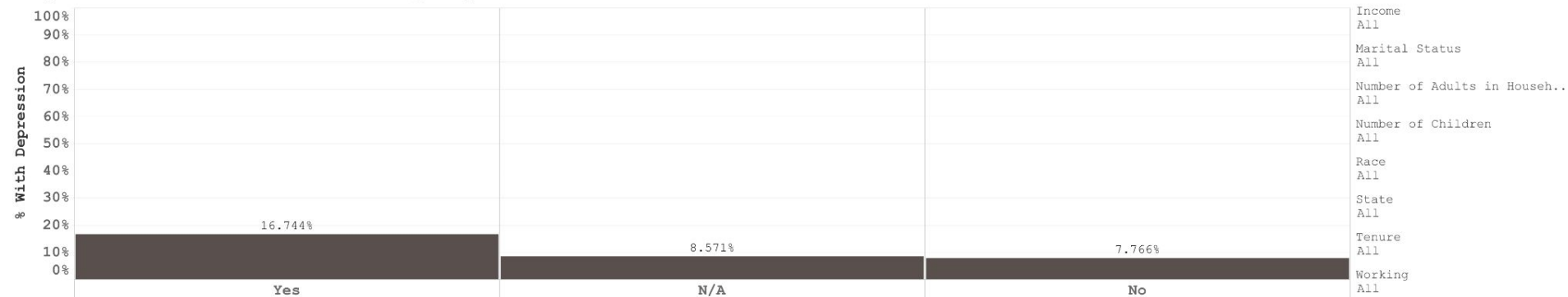


# Expected Loss of Work

## Anxiety Within Demographic

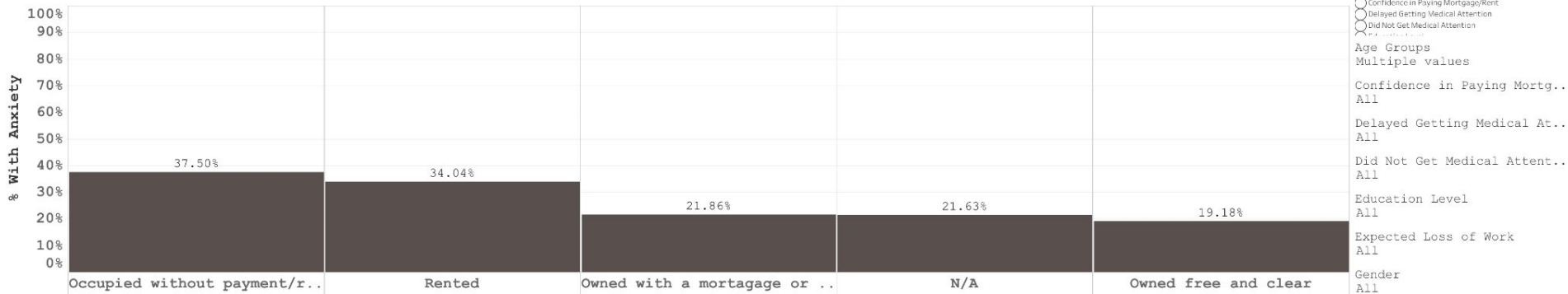


## Depression Within Demographic

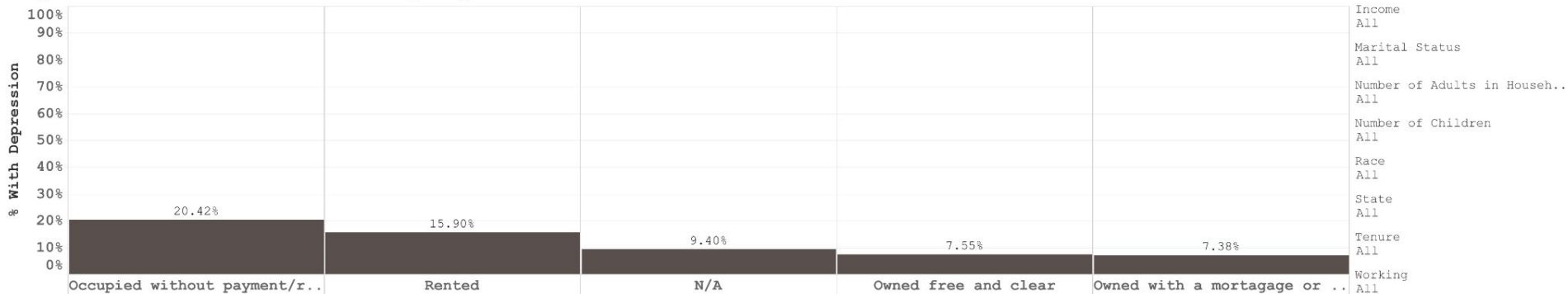


# Home Ownership

## Anxiety Within Demographic



## Depression Within Demographic



# Additional Conclusions

- Some spikes - needs investigating
- Correlation with **No Work**
- Home Ownership correlated with less symptoms

