

# 2016-2017 National Epidemiologic Survey on Alcohol and Related Conditions - III

How nicotine dependency is unrelated individuals across age groups in US

# The problem

## Sample population

The dataset is based on cross-sectional study and covers a lot of values regarding substance abuse by 40093 US residents, the data set is vast and covers a lot of questions that can help derive relevant information.

## Context

Chosen SECTION 3A: TOBACCO USE AND DEPENDENCE, to get data regarding the nicotine dependence and remittance across the population. Age group is not a factor contributing to a life long nicotine addiction.

## Hypothesis

Nicotine dependence is subjected to the early exposure. To figure out if life long nicotine dependence is co related to the age of individual starting to smoke we compare the nicotine remittance across teens and young adults

# Analysis on the data set

Link to the [data set](#) (refer to the codebook for the sections)

Link to the python [implementation](#) (refer to the implementation for python script)

Across the population of around 43,000 people in the survey it can be seen that

COUNT OF PEOPLE HAVING DEVELOPED NICOTINE DEPENDENCE IN TEENAGE

**1364**

COUNT OF PEOPLE HAVING DEVELOPED NICOTINE DEPENDENCE IN TEENAGE AND ATTAINED FULL REMISSION LATER

**346**

PERCENTAGE TEENAGE NICOTINE DEPENDENTS SUCCESSFULLY REMISSIONED

**25.36%**

COUNT OF PEOPLE HAVING DEVELOPED NICOTINE DEPENDENCE IN YOUNG ADULthood

**2126**

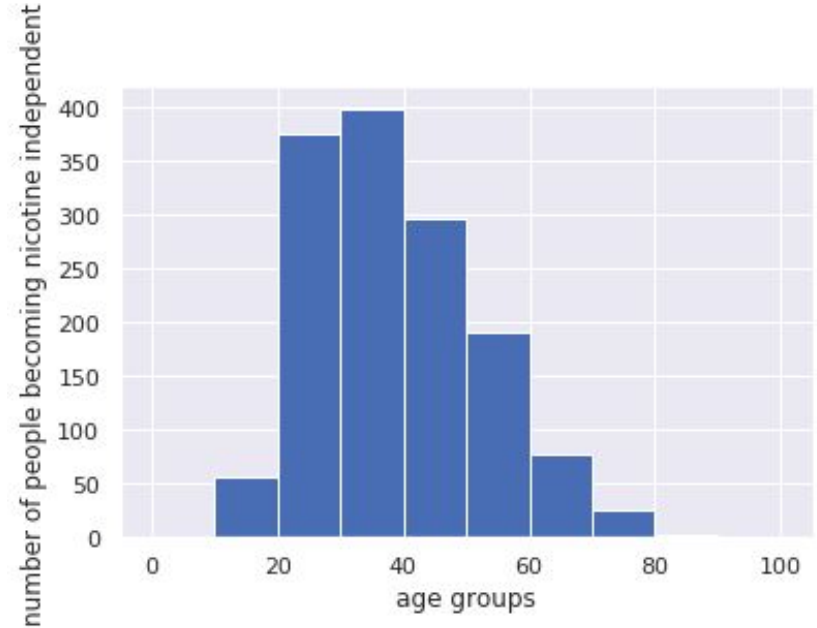
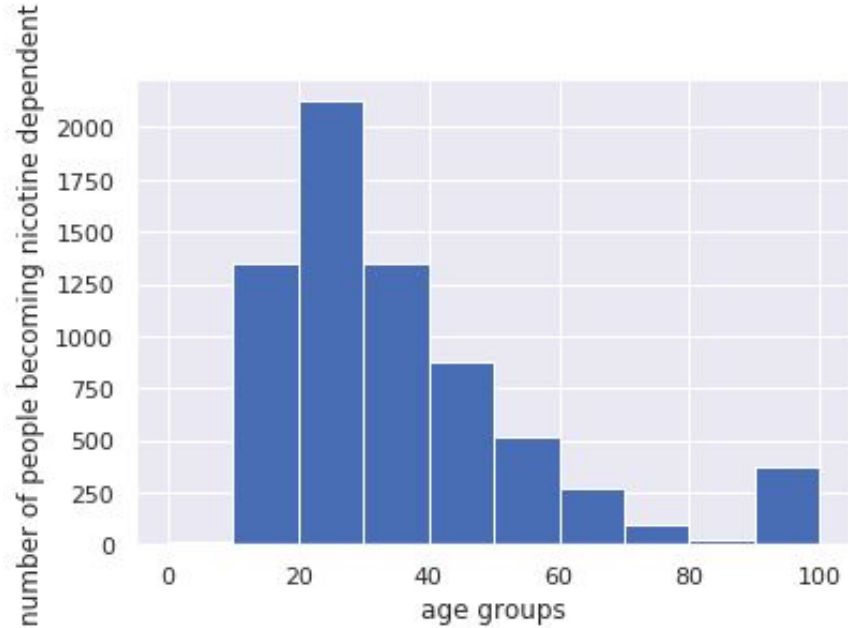
COUNT OF PEOPLE HAVING DEVELOPED NICOTINE DEPENDENCE IN YOUNG ADULthood AND ATTAINED FULL REMISSION LATER

**533**

PERCENTAGE YOUNG-ADULT NICOTINE DEPENDENTS SUCCESSFULLY REMISSIONED

**25.07%**

## Comparison of nicotine dependence vs remittance



# Conclusion

With a mere difference of 0.29 percentage points we see the values to be almost identical and hence conclude that nicotine remission is independent of the age of nicotine dependence. Also, 1 out of 4 people in teenage and young adulthood can quit nicotine addiction.