Heart Disease Exploratory Analysis

Title	Objective	Total Heart Disease	Heart Disease by State	Heart Disease by Sex	Heart Disease by Sex and Age	Heart Disease and ..

Heart Disease Exploratory Analysis

Heart Disease Exploratory Analysis

Title	Objective	Total Heart Disease	Heart Disease by State	Heart Disease by Sex	Heart Disease by Sex and Age	Heart Disease and ..

Objective: Identify major indicators of heart disease to improve targeted public health campaigns.

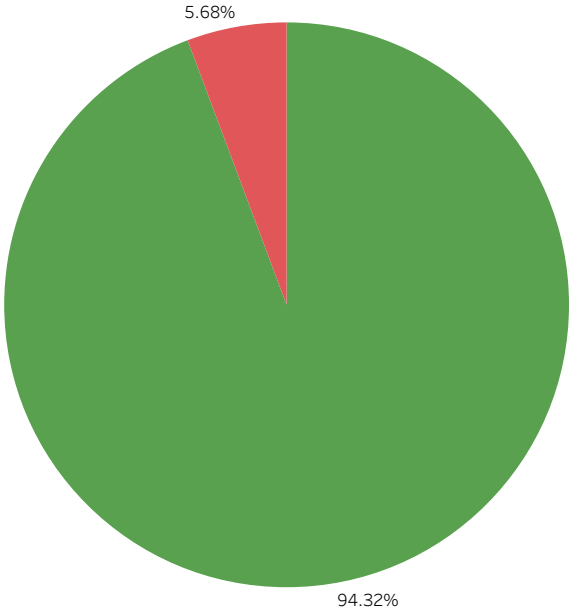
Data: 2022 medical data featuring a survey of 445,000+ patients.
Data source: https://www.kaggle.com/datasets/kamilpytlak/personal-key-indicators-of-heart-disease

Heart Disease Exploratory Analysis

Title	Objective	Total Heart Disease	Heart Disease by State	Heart Disease by Sex	Heart Disease by Sex and Age	Heart Disease and ..

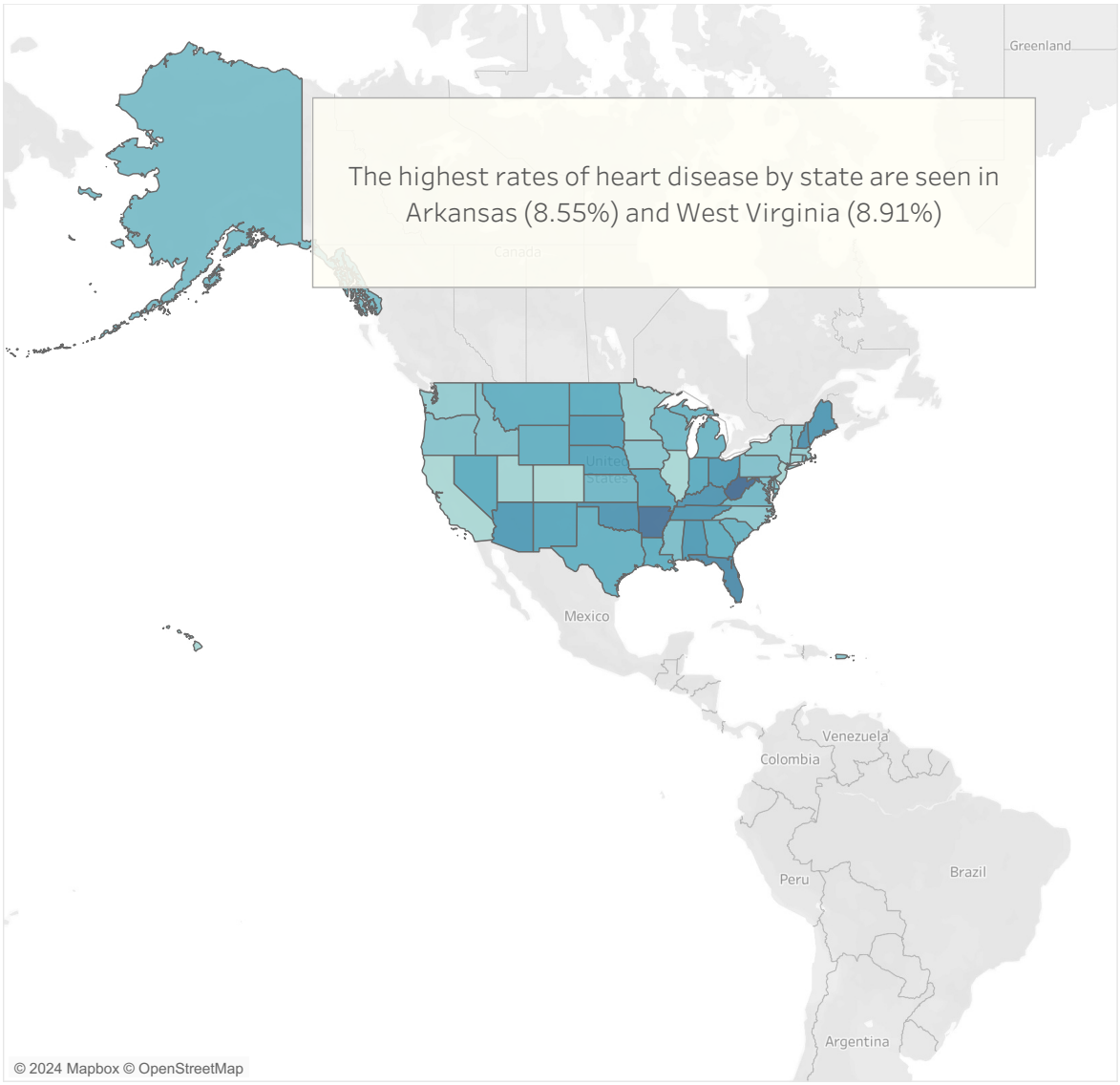
Had Heart Attack
No
Yes

5.68% of patients had a heart attack. This is used as our identifier of heart disease throughout this analysis.



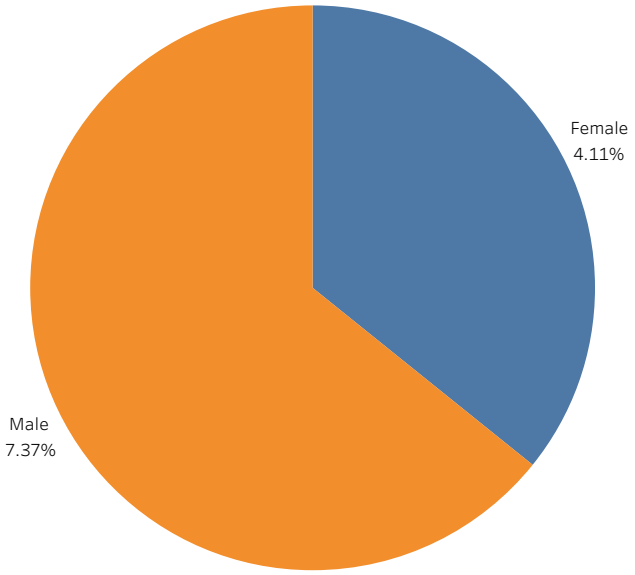
Heart Disease Exploratory Analysis

Title | Objective | Total Heart Disease | **Heart Disease by State** | Heart Disease by Sex | Heart Disease by Sex and Age | Heart Disease and Smoking



Heart Disease Exploratory Analysis

The majority of heart disease patients are male (7.37%)

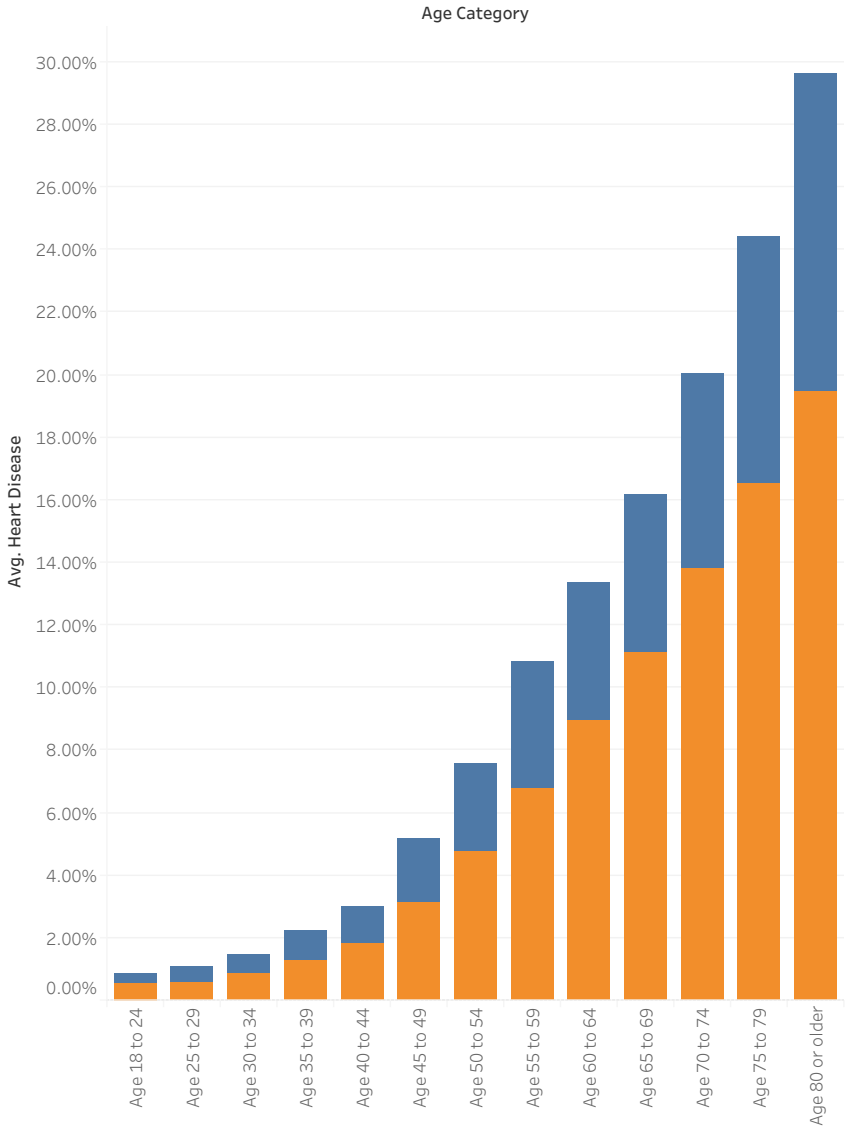


Sex
Female
Male

Avg. Heart Disease
11.48%

Heart Disease Exploratory Analysis

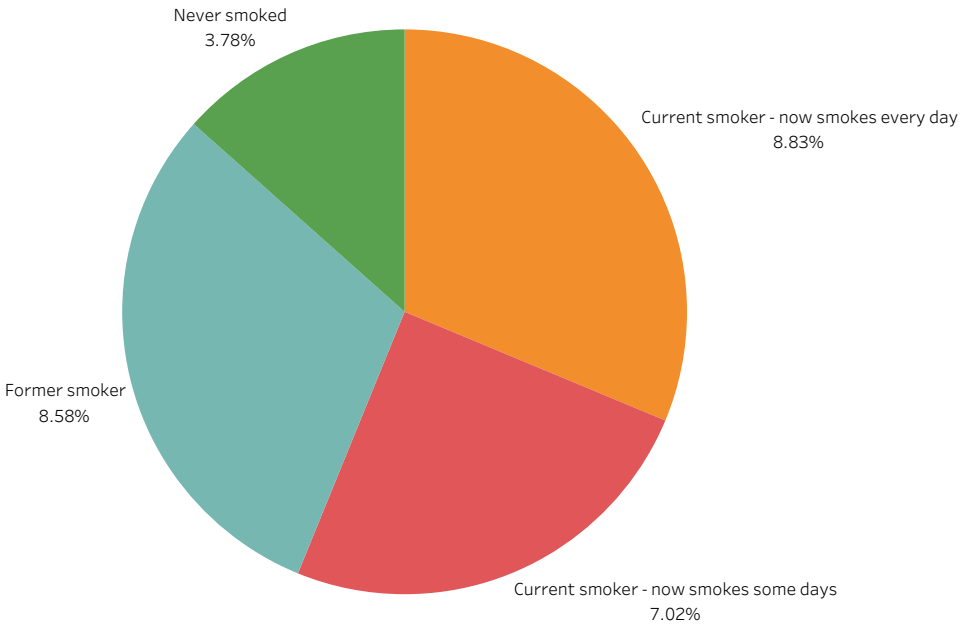
Total Heart Disease | Heart Disease by State | Heart Disease by Sex | **Heart Disease by Sex and Age** | Heart Disease and Smoking | Heart Disease and Diabetes | Heart Disease and Overall Health



Heart disease risk increases with age shown here with +30% of 80+ year-olds surveyed suffering from heart disease. Throughout the age brackets, men still have a higher development of heart disease.

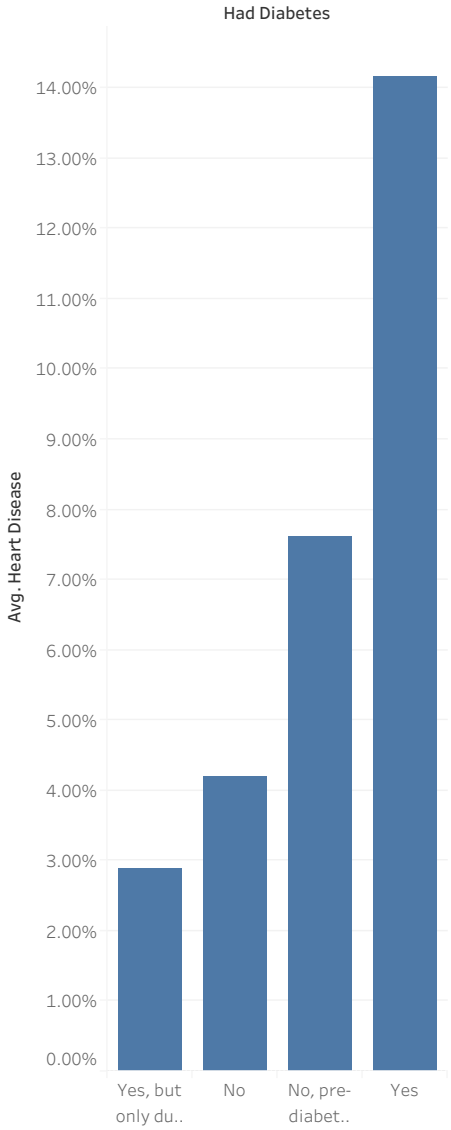
Heart Disease Exploratory Analysis

Smoking is a key indicator of heart disease. Of our heart disease patients, +24% had some history of smoking.



Heart Disease Exploratory Analysis

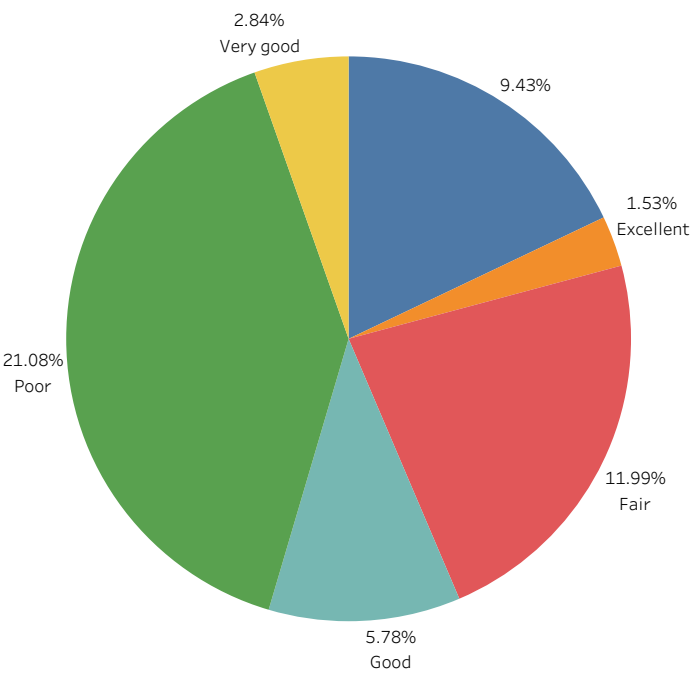
Heart Disease by State | Heart Disease by Sex | Heart Disease by Sex and Age | Heart Disease and Smoking | **Heart Disease and Diabetes** | Heart Disease and Overall Health



+21% of patients surveyed with heart disease are either pre-diabetic or diabetic and had BMI scores of over 31. This shows that diabetes and higher weight can be signs of heart ..

Heart Disease Exploratory Analysis

Overall health is another key indicator of heart disease with 21.08% of heart disease patients marked as in poor overall health.



General Health
- Null
- Excellent
- Fair
- Good
- Poor
- Very good

Avg. Heart Disease
52.64%

Heart Disease Exploratory Analysis

Conclusions

To ensure heart disease prevention messaging reaches the most vulnerable audiences we should target those discussed with the highest levels of heart disease.

This includes aging men, residents of Arkansas and West Virginia, current and former smokers, people diagnosed with diabetes, and those considered to be in poor health.