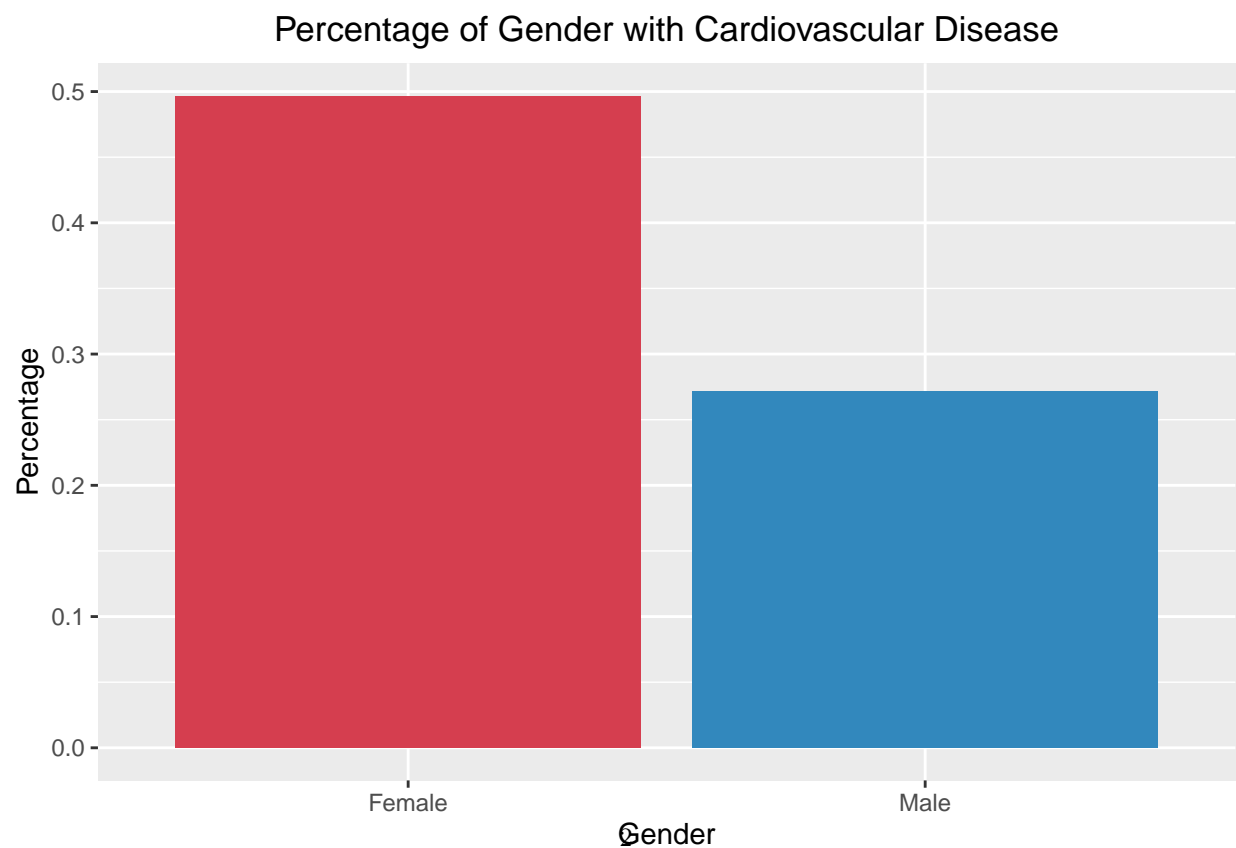
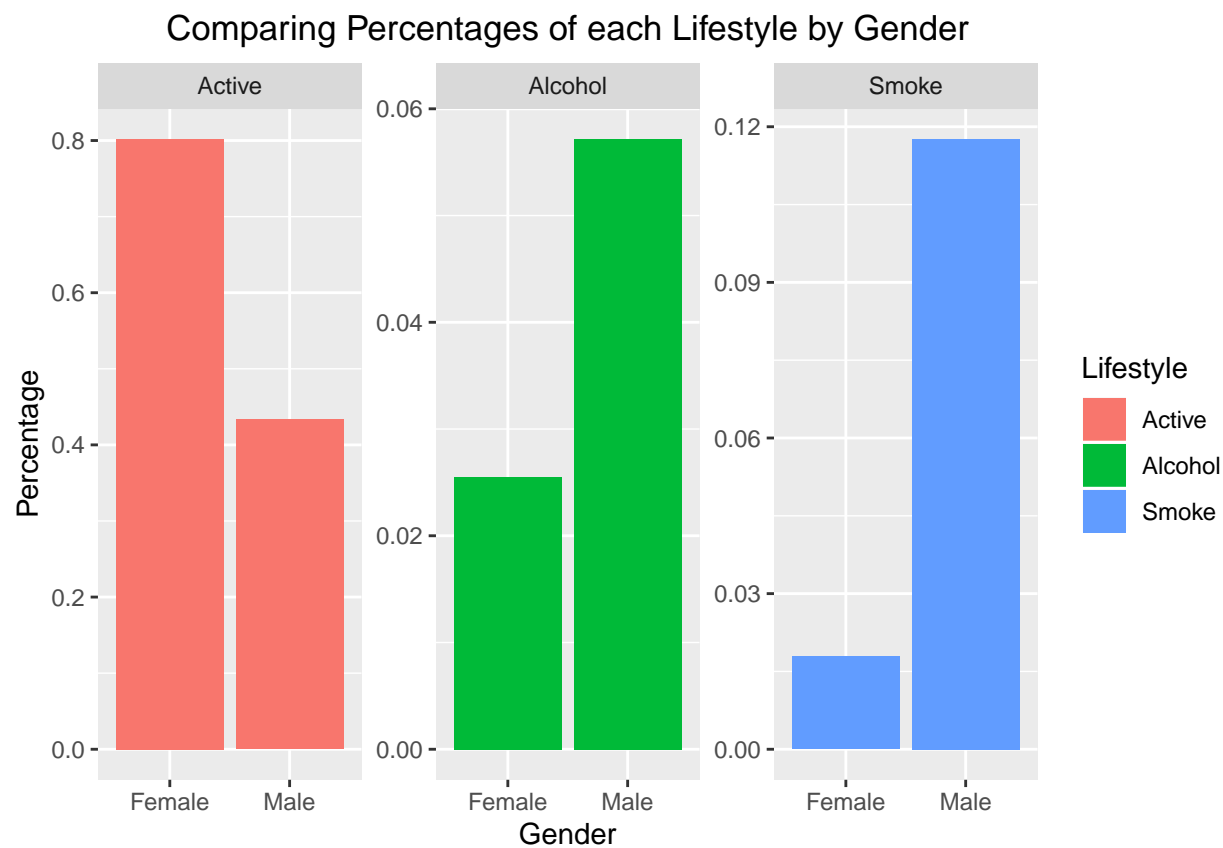


Mortality and Lifestyle in the US related to Cardiovascular diseases

Diego Reyes, Isaiah Vaughnn, James Tweedle

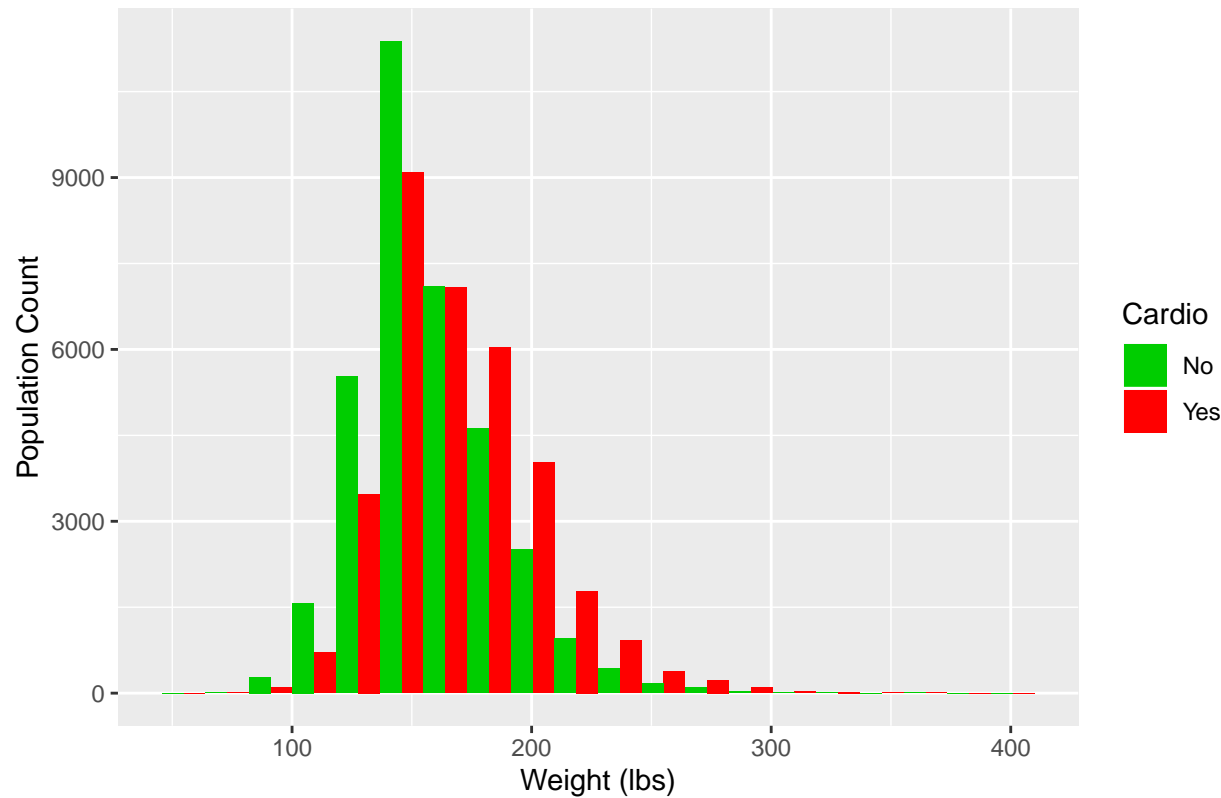
12/2/2019

What are lifestyle percentages by gender, and what factors affect Cardiovascular disease incidence?

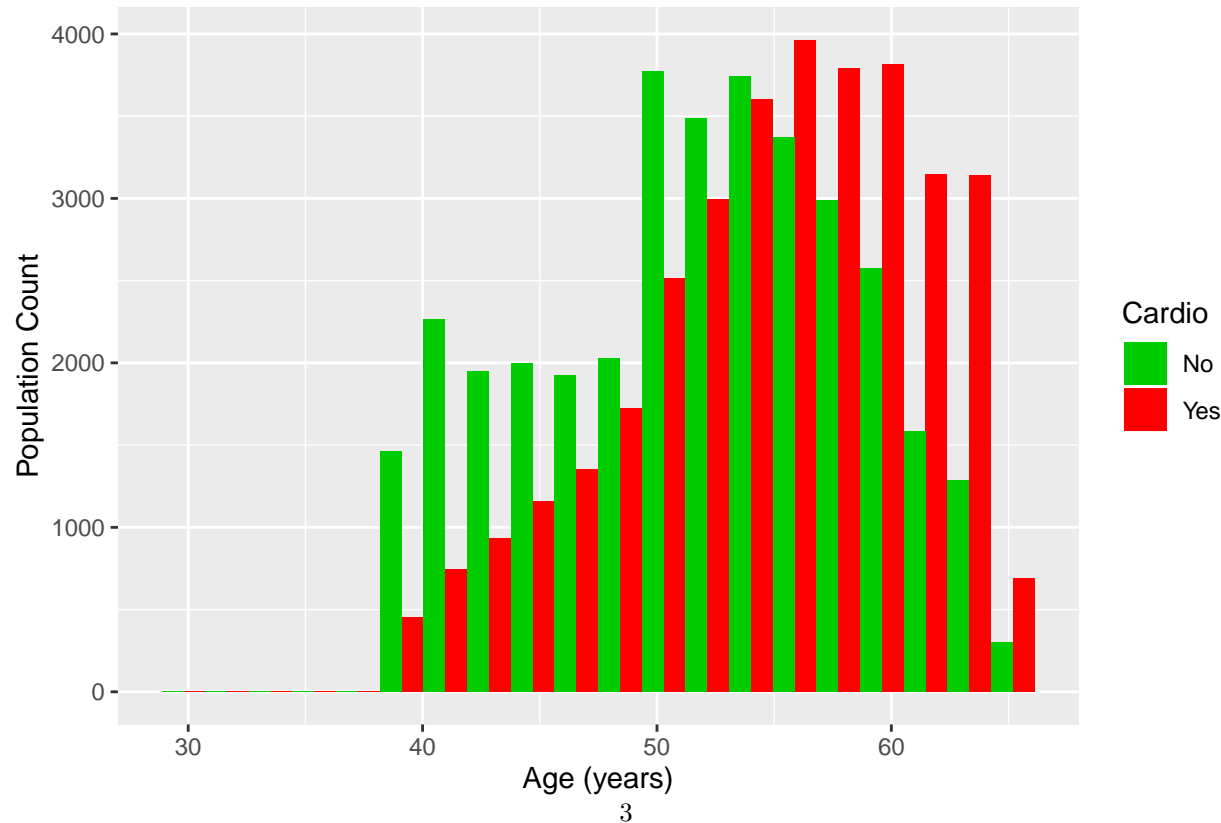


Distributions of Lifestyles with Cardiovascular Disease

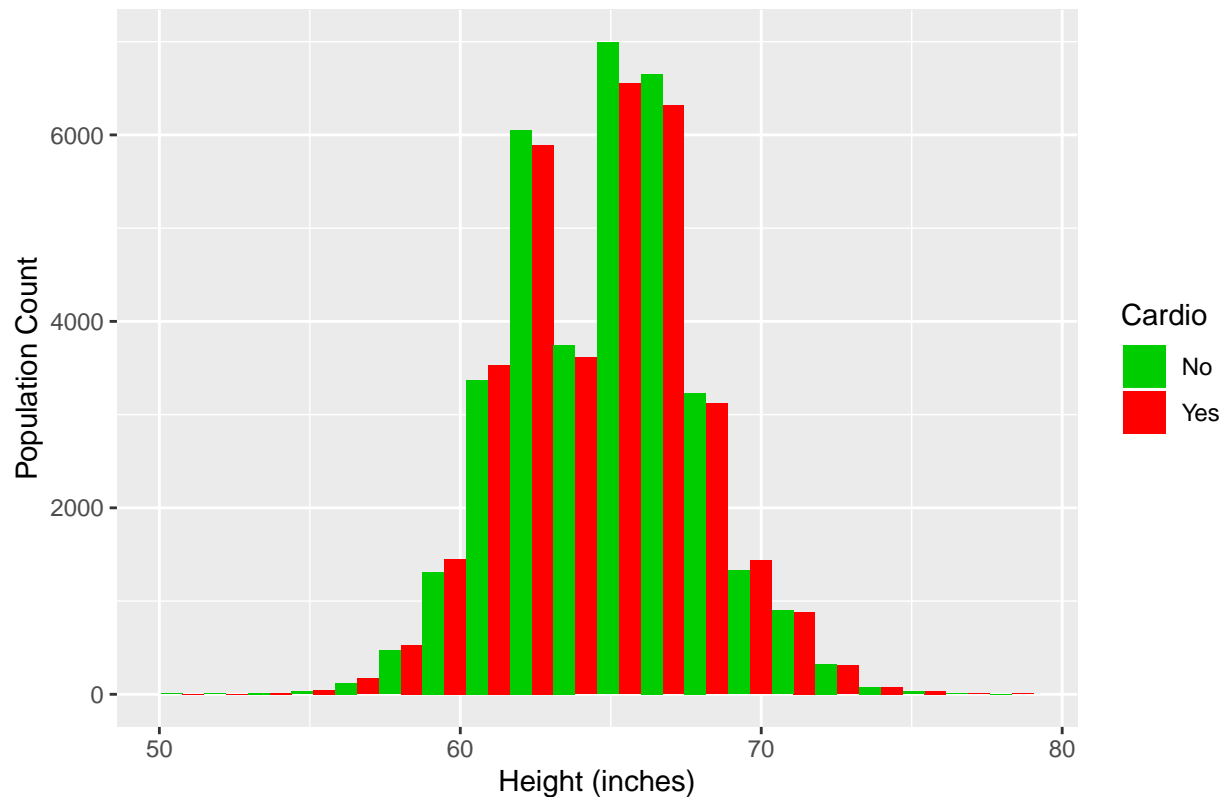
Weight Distribution Relative to Cardiovascular Disease



Age Distribution relative to Cardiovascular Disease



Height Distribution relative to Cardiovascular Disease



How are systolic and diastolic blood pressure indicators of Cardiovascular Disease?

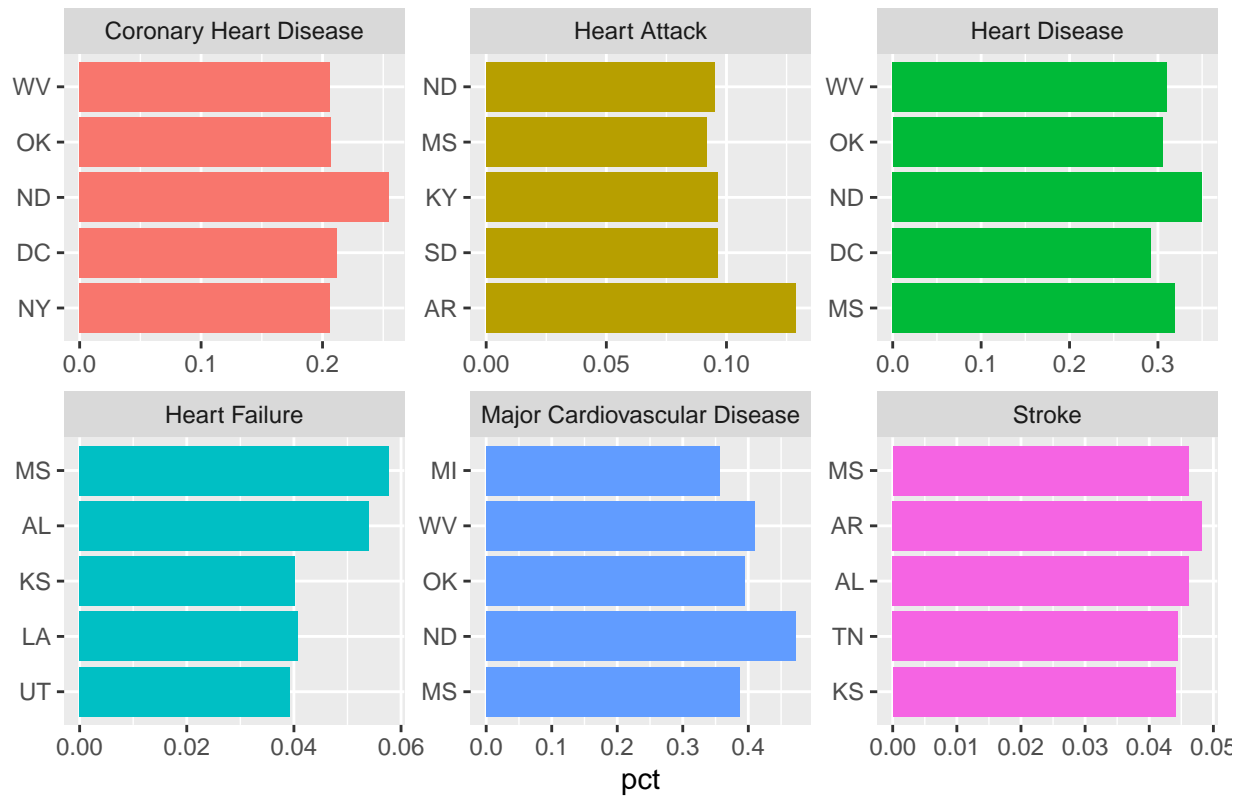
```
“{r bloodpressureGraph,echo=FALSE,warning=FALSE,message=FALSE mycolors <- c(“green”, “red”)
```

```
mycardio %>% filter(Diastolic blood pressure < 200 & Systolic blood pressure < 300 & Diastolic
blood pressure > 30 & Systolic blood pressure > 30) %>% filter(Weight < 500) %>% ggplot() +
geom_point(mapping = aes(x = Systolic blood pressure, y = Diastolic blood pressure, color =
Cardio), alpha = 0.1) + scale_color_manual(values = mycolors) + theme(plot.title = element_text(hjust
= 0.5)) + labs(title = “Blood Pressure with Cardiovascular Disease”, x = “Systolic blood pressure (mmHg)”,
y = “Diastolic blood pressure (mmHg)”)
```

```
mycardio %>% filter(Diastolic blood pressure < 200 & Systolic blood pressure < 300 & Diastolic
blood pressure > 30 & Systolic blood pressure > 30) %>% filter(Weight < 500) %>% ggplot() +
geom_point(mapping = aes(x = Systolic blood pressure, y = Height, color = Cardio), alpha = 0.1)
+ scale_color_manual(values = mycolors) + labs(title = “Heights affect on Cardiovascular Disease”, x =
“Systolic blood pressure (mmHg)”, y = “Height (inches)”)
```

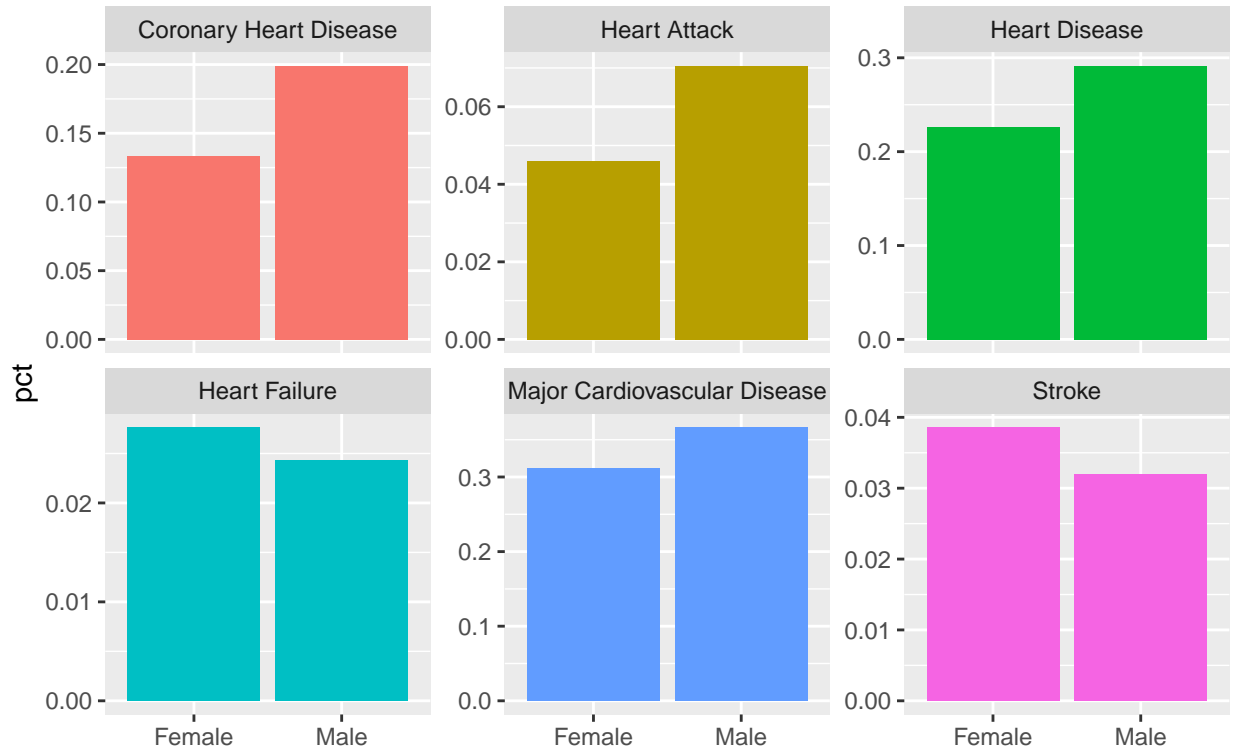
```
mycardio %>% filter(Diastolic blood pressure < 200 & Systolic blood pressure < 300 & Diastolic
blood pressure > 30 & Systolic blood pressure > 30) %>% filter(Weight < 500) %>% ggplot() +
geom_point(mapping = aes(x = Systolic blood pressure, y = Weight, color = Cardio), alpha = 0.1)
+ scale_color_manual(values = mycolors) + labs(title = “Weights affect on Cardiovascular Disease”, x
= “Systolic blood pressure (mmHg)”, y = “Weight (lbs)”) “ ## Which states have the highest average
mortality from various Cardiovascular diseases?
```

Average Mortality Among States



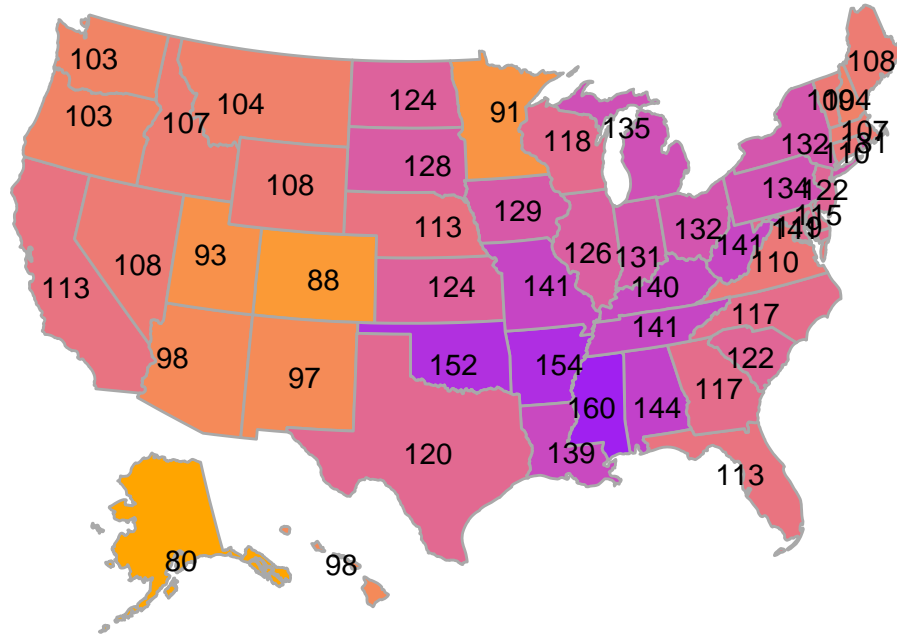
Which gender has the highest average mortality from various Cardiovascular diseases?

Average Mortality among Gender



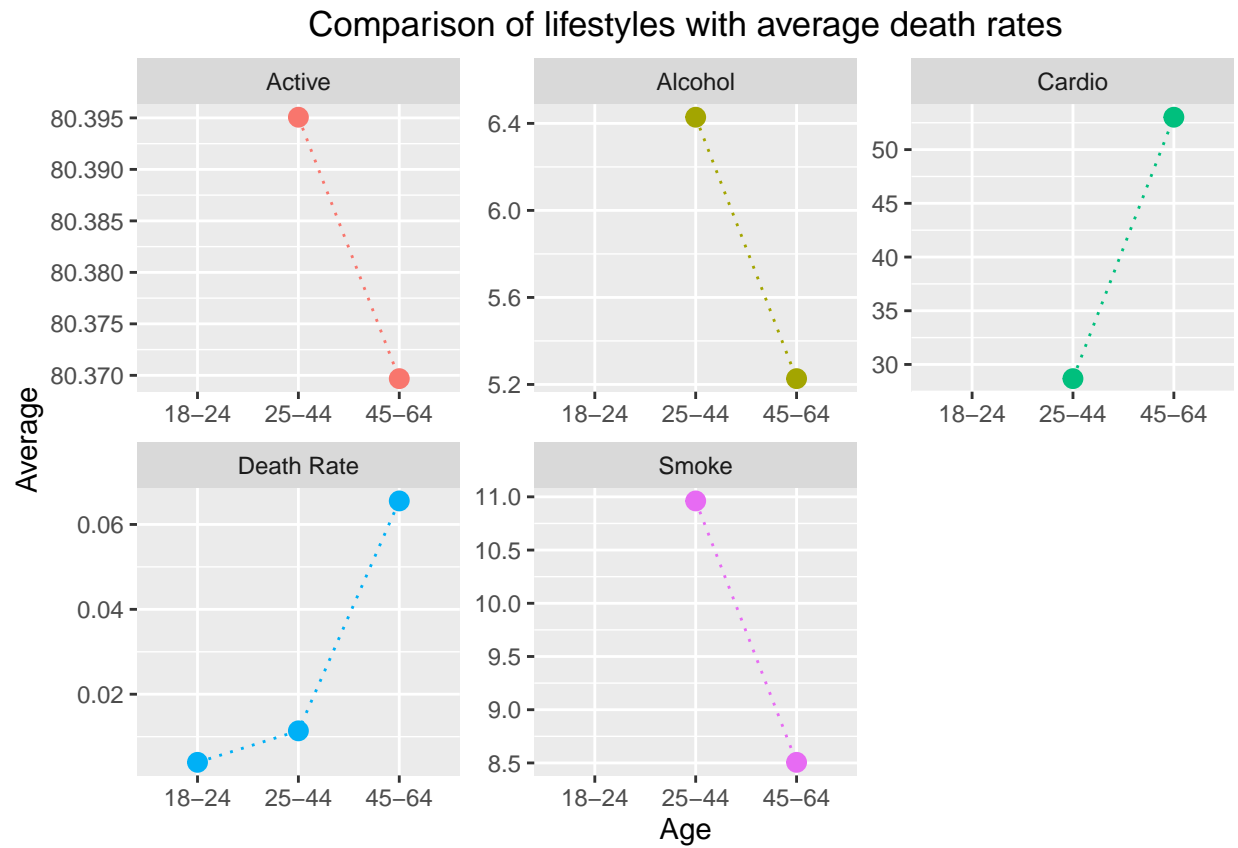
What is the mortality per state due to Cardiovascular diseases?

Average Death Rate – Age standardized

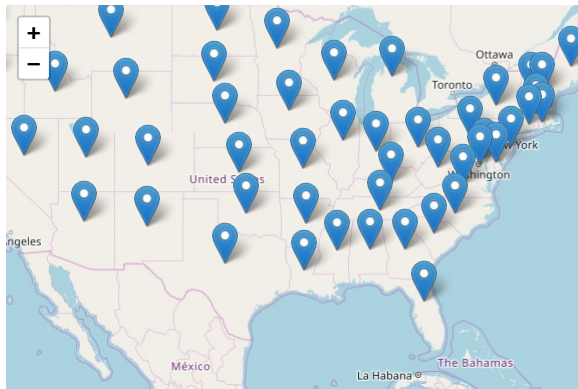


Rate per 100,000 100 120 140

What is the relation between age groups, life styles, Cardiovascular disease and death rates?



What is the average mortality by state?



Rates are expressed as per 100,000 population