

Data Analysis with Visuals using R

Abdulwahid

4/21/2022

Load libraries

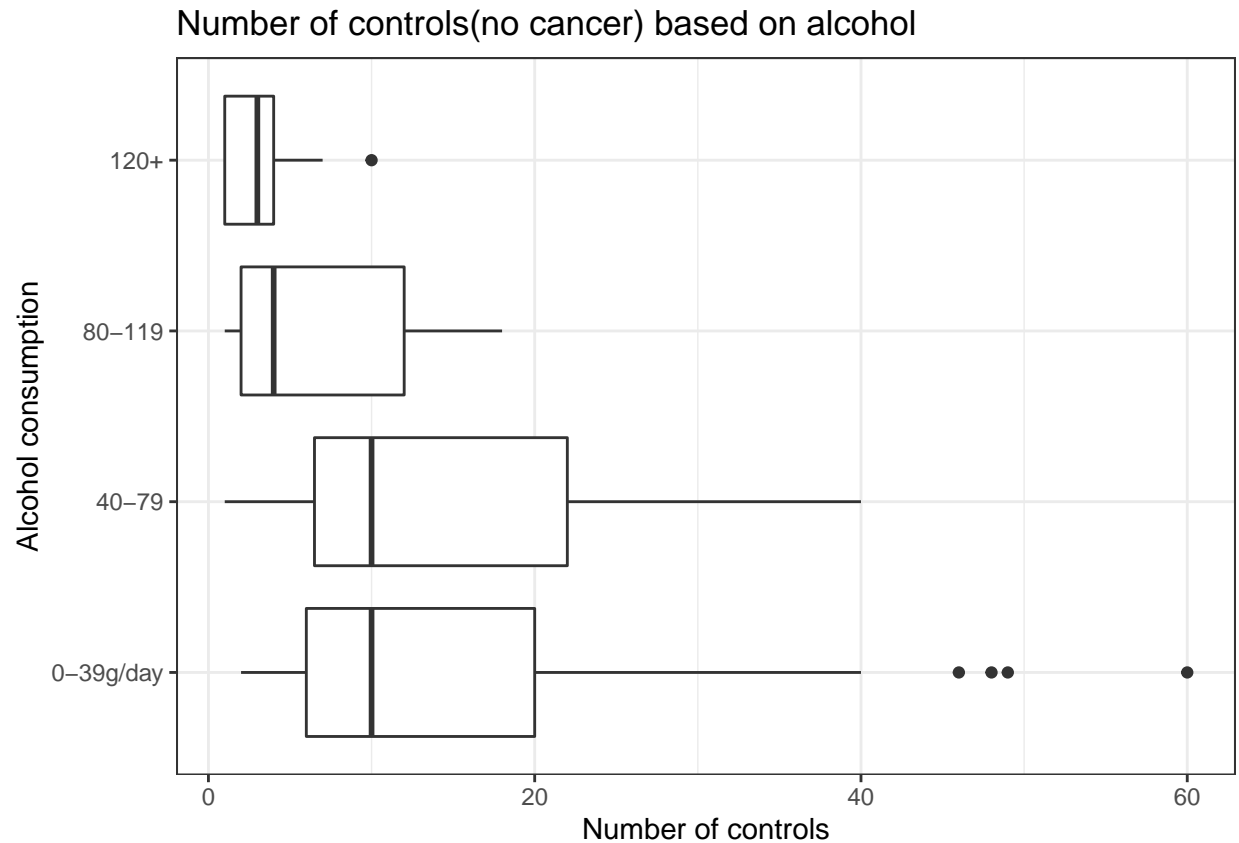
The libraries contain functions that will be used for accessing various visuals. The library used is ggplot2 a famous visualization based library.

```
library("ggplot2")
```

The number of people who consume Alcohol daily

- Around 40 people consume 0-79g of alcohol daily in Ile-et-Vilaine, France
- Less than 20 people consume 80-119g of alcohol daily
- About 5 people consume 120+ grams of alcohol daily

```
ggplot(esoph, aes(x=ncontrols, y=alcgp))+  
  theme_bw()+  
  geom_boxplot()+  
  labs(y="Alcohol consumption",  
        x="Number of controls",  
        title="Number of controls(no cancer) based on alcohol")
```

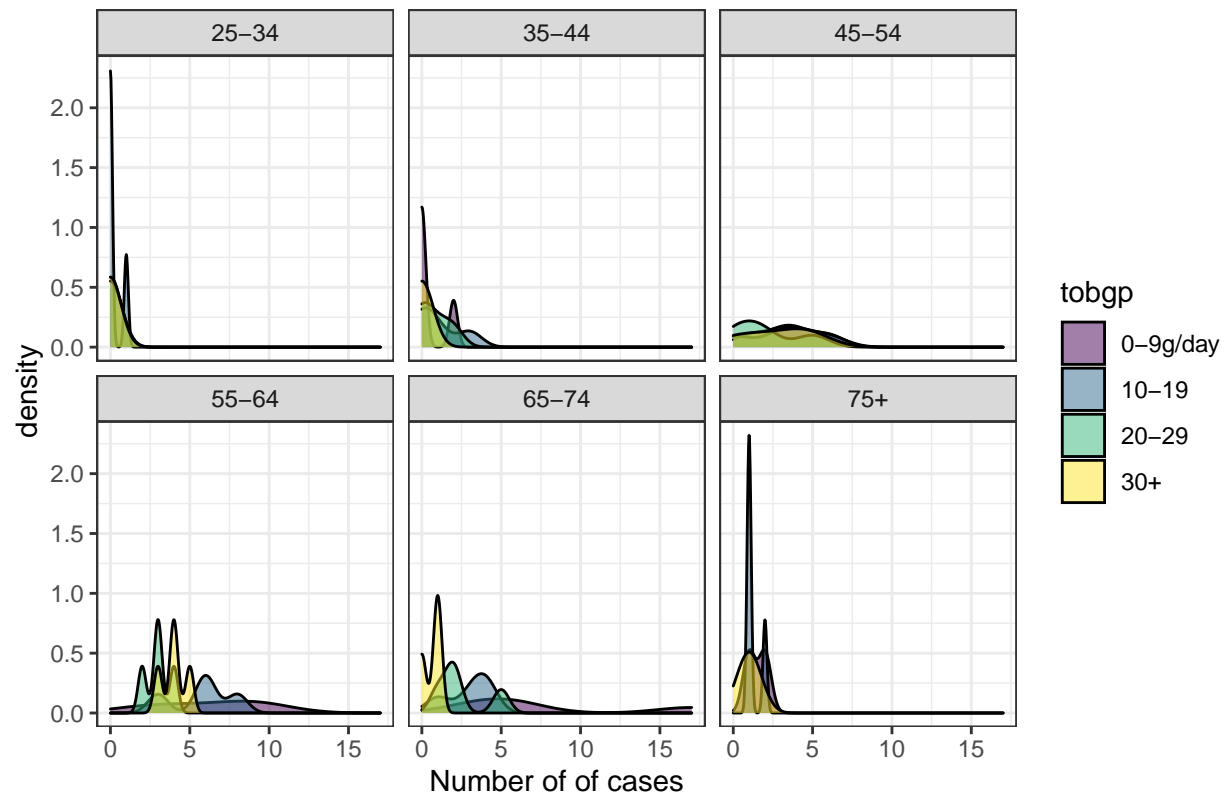


The age groups of people who consume tobacco daily

- Age range of 25-34 consume 30+ grams of tobacco daily in Ile-et-Vilaine, France
- Age range of 35-44,45-54,55-64,65-74 consume less tobacco of about 20-30 grams daily
- Age range of 75+ consume 30+ grams of tobacco daily on very high density

```
ggplot(esoph, aes(x=ncases, fill=tobgp))+
  theme_bw()+
  facet_wrap(~agegp)+
  geom_density(alpha=0.5)+
  labs(x="Number of of cases",
       title="Tobacco consumption based on age groups")
```

Tobacco consumption based on age groups



The age groups of people who consume alcohol daily

- Age range of 25-34, 35-44 consume similar levels of alcohol daily in Ille-et-Vilaine, France
- Age range of 45-54, 55-64 consume more alcohol compared to other groups
- Age range of 75+ consume the least alcohol compared to others

```
ggplot(esoph, aes(x=agegp, fill=alcgp))+
  theme_bw()+
  geom_bar()+
  labs(x="Age group",
       y="Alcohol count",
       title="Alcohol consumption based on Age")
```

