STA413 Data Analysis Assignment Group2(TEAM ALPHA) Report

Team Members And Contribution

Amoo Barakat Simulated Data In R

Edet Mercy Computed Descritives statistics In R

Dada Israel Generated Insights from Data

Olusayo Moses Visualized the Data
Oluyomi Stephen Designed the Report

This report contains the analysis and insight generated from a simulated data(patients-data) of a fictional hospital. Appropriate graphs/plots are used to examine the distribution of the variables and communicate our findings about the data overall.

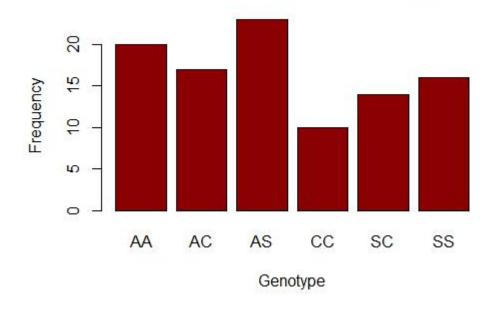
A full version of the analysis consisting the plots, visualization used, source code and this report is available on github.

Data: patients-data

Source code: https://github.com/stephen-lakes/STA413-data-

analysis/tree/master/patients-data

Distribution of patients Genotype

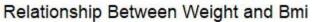


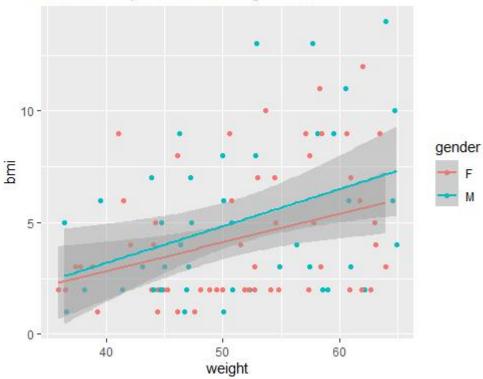
Observations:

- Most patients have an AS genotype.
- Few patients have a genotype of type CC.

Conclusion:

Patients how use this hospital have genotype AS.





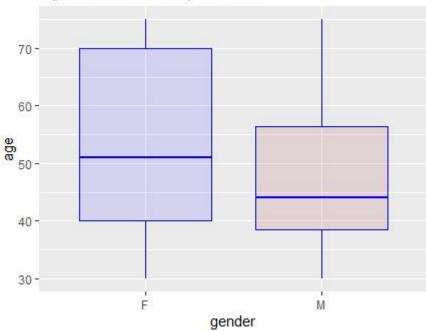
Observations:

- There is a positive relationship between weight and Bmi.
- The positive relationship between weight and Bmi in Males is much stronger than that of the Females.

Conclusion:

 Males Bmi tend to go up as they gain weight compared to Females.

Age distribution of patients

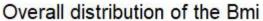


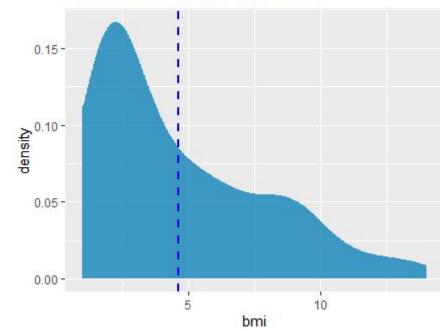
Observations:

- No patient is less than 30 years of age for both categories.
- There are more Male patients than Female patients in the hospital.
- Atleast 75% of the Male patients are 40 years or older.
- Atleast 75% of the Female patients are 40 years or older.

Conclusion:

 Males Bmi tend to go up as they gain weight compared to Females.





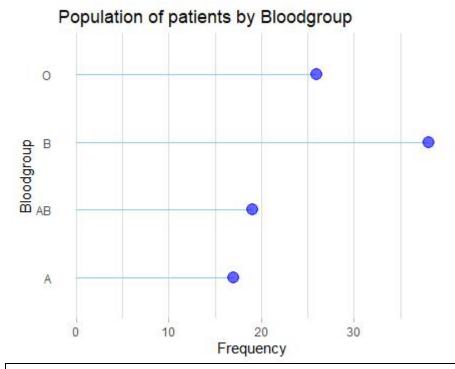
Observations:

- The overall Bmi of patients follows a chi square distribution.
- It's positive skewed.
- Overall average bmi of the patients is less than 5.

Conclusion:

 Males Bmi tend to go up as they gain weight compared to Females.





Observations:

Most patients belong to the B blood type.