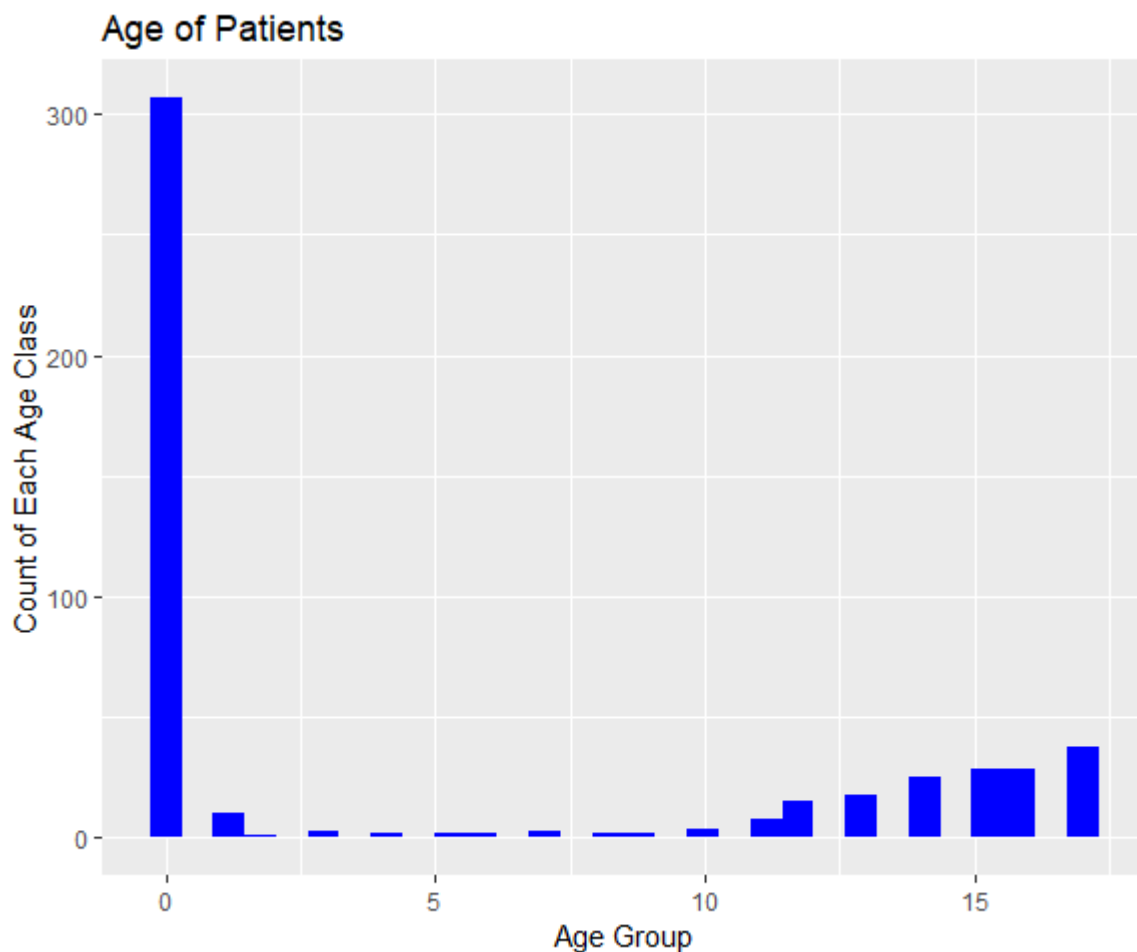# DATA UNDERSTANDING
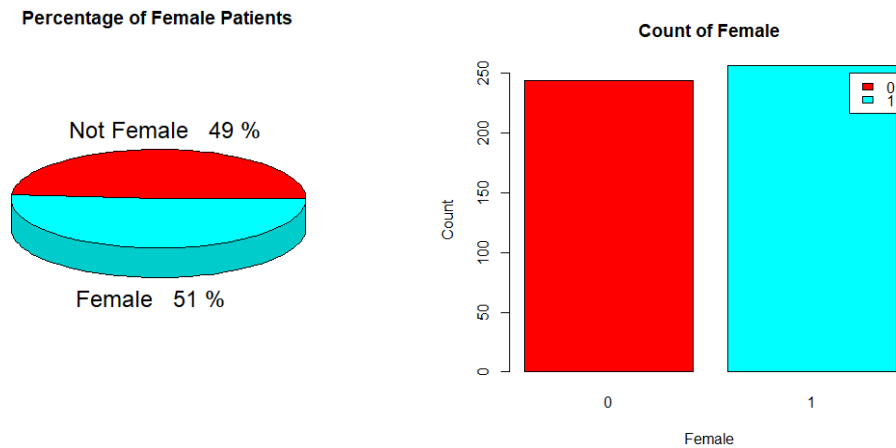
1. INTRODUCTION: Hospital cost for healthcare industry restricted to the city of Wisconsin:-The patients are in the age group of 0 to 17 years. Survey of hospital cost was conducted by us agency for healthcare. There are 500 Observations of 6 Variables. All the variables are of Numeric Datatype. Dependent Variable is TOTCHG (Hospital Discharge Cost and remaining Variables are Independent.

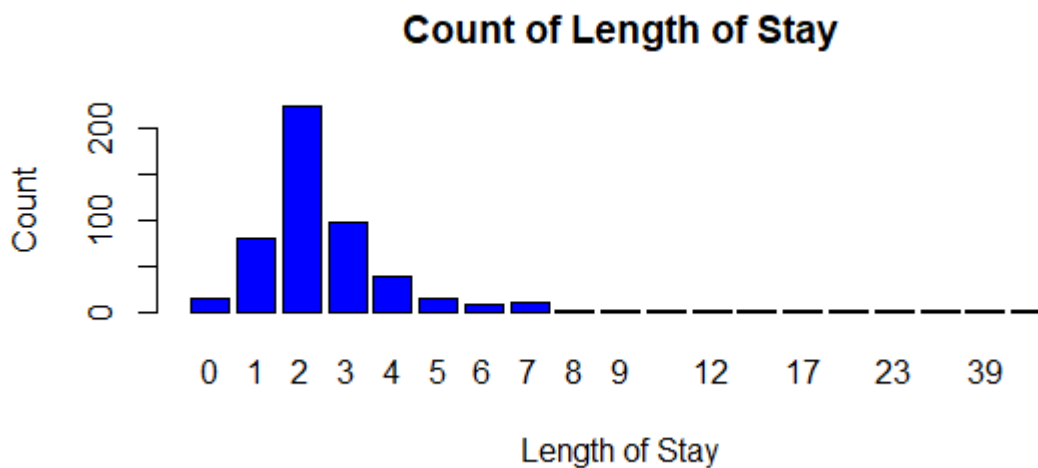Variables ("AGE","FEMALE","LOS","RACE","TOTCHG","APRDRG").

2. Age Variable: Minimum age is 0 and Maximum is 17. Average age of Patients are 5.08 and there is a deviation of 6.94 from mean. With the help of Histogram and factor function we can see, there is more than 307 Patients who lie in age group 0-1.
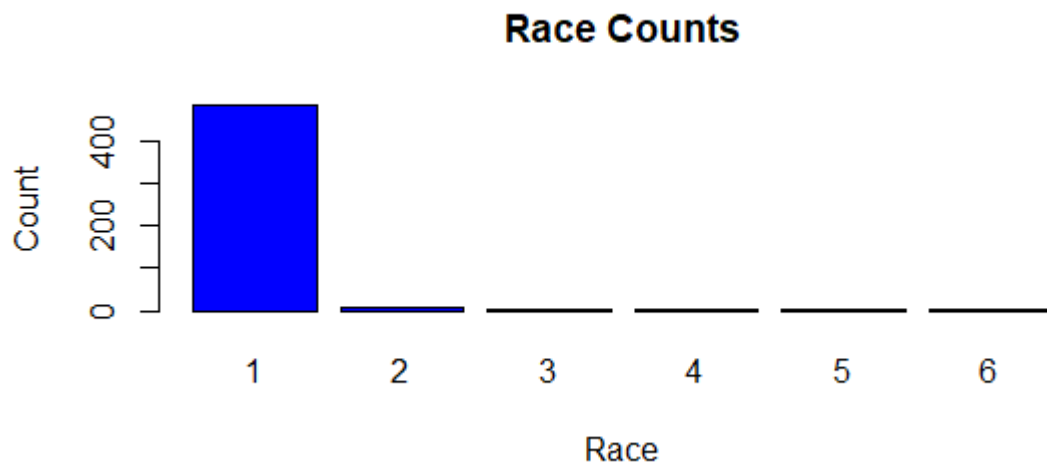

Age of Patients

3. Female Variable: Out of 500 Patients, 256 Patients are Females. Looking at Pie Chart, 51% of Population is Female.

Percentage of Female Patients
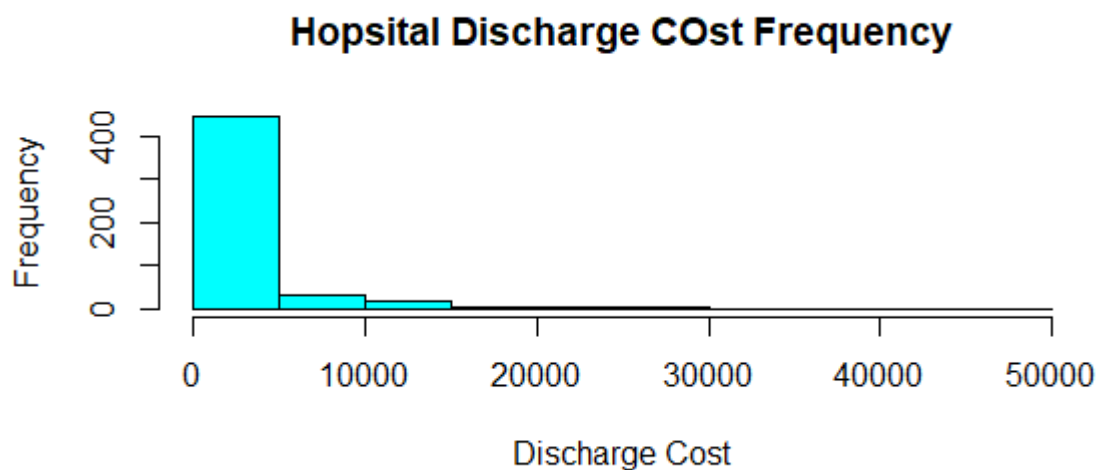
Not Female   49 %

Female   51 %

Count of Female

4. LOS (Length of Stay): 274 Patients stayed for 2 days which is Majority. Maximum (Almost 350 Patients) stayed for 2 to 3 days.

Count of Length of Stay

5. Race Variable: There is 6 type of Races among Patients. 484 patients out of 500(Which is 97% Patients) are of race 1 category.

Race Counts

6. Hospital Discharge Cost: Minimum cost Is 532 and Maximum is 48388. Average cost is 2774 and there is Standard Deviation of 3888.40 from mean. Looking at Histogram we can see that maximum patients are paying between 0 to 5000.

Hopsital Discharge COst Frequency

7. APRDRG: Minimum is 21 unit, maximum is 952 and Average is 616.4. There is standard deviation of 178.316 from mean.