# EDA

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### Read File

### **Summary Statistics:**

- 299 patients of heart failure comprising of 105 women and 194 men.
- All the patients were more than 40 years old.

Discrete Variable: event (indicator), gender, smoking, diabetes, bp and anaemia.

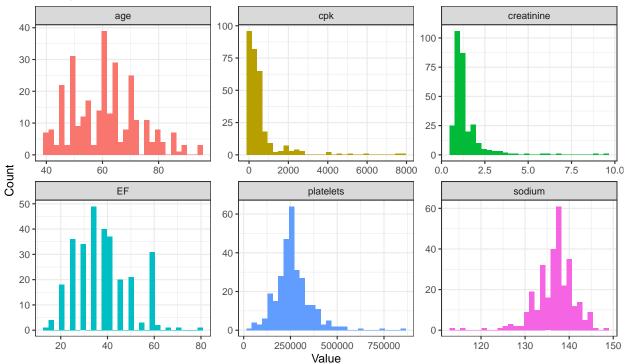
Continuous Variable: age, ejection\_fraction (EF), sodium, creatinine, pletelets and cpk.

```
Overall
     (N=299)
Event indicator (censored = 0, event = 1)
     203 (67.9\%)
     96 (32.1%)
Gender (female = 0, male = 1)
     105 (35.1%)
     194 (64.9%)
Smoking status (non-smoker = 0, smoker = 1)
    203 (67.9%)
  1
     96 (32.1%)
Diabetes (no diabetes = 0, diabetes = 1)
     174 (58.2%)
     125 (41.8%)
  1
Blood Pressure (normal = 0, hypertension = 1)
     194 (64.9%)
  1
     105 (35.1%)
Anaemia (no anaemia = 0, anaemia = 1)
     170 (56.9%)
     129 (43.1%)
                      Overall
                      (N=299)
Age
  Mean (SD)
                      60.8 (11.9)
  Median [Min, Max]
                      60.0 [40.0, 95.0]
Ejection Fraction (EF)
  Mean (SD)
                      38.1 (11.8)
  Median [Min, Max]
                      38.0 [14.0, 80.0]
Serum Sodium
  Mean (SD)
                      137 (4.41)
  Median [Min, Max]
                      137 [113, 148]
Serum creatinine
  Mean (SD)
                      1.39(1.03)
                      1.10 [0.500, 9.40]
  Median [Min, Max]
Plateletes
  Mean (SD)
                      263000 (97800)
                      262000 [25100, 850000]
  Median [Min, Max]
CPK
  Mean (SD)
                      582 (970)
  Median [Min, Max]
                      250 [23.0, 7860]
```

#### Check distributions for all covariates:

Note: Use histograms for continuous variables and bar charts for categorical variables.

## Histograms of Continuous Covariates



# **Bar Charts of Categorical Covariates**

