

EDA

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```
cirrhosis <- read_csv("data/cirrhosis.csv")|>
  janitor::clean_names()
```

```
## Rows: 418 Columns: 20
## -- Column specification -----
## Delimiter: ","
## chr (7): Status, Drug, Sex, Ascites, Hepatomegaly, Spiders, Edema
## dbl (13): ID, N_Days, Age, Bilirubin, Cholesterol, Albumin, Copper, Alk_Phos...
##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

```
summary(cirrhosis)
```

```
##           id           n_days           status           drug
## Min.      : 1.0   Min.      : 41   Length:418   Length:418
## 1st Qu.:105.2   1st Qu.:1093   Class :character   Class :character
## Median :209.5   Median :1730   Mode  :character   Mode  :character
## Mean    :209.5   Mean    :1918
## 3rd Qu.:313.8   3rd Qu.:2614
## Max.    :418.0   Max.    :4795
##
##           age           sex           ascites           hepatomegaly
## Min.      : 9598   Length:418   Length:418   Length:418
## 1st Qu.:15644   Class :character   Class :character   Class :character
## Median :18628   Mode  :character   Mode  :character   Mode  :character
## Mean     :18533
## 3rd Qu.:21272
## Max.     :28650
##
##           spiders           edema           bilirubin           cholesterol
## Length:418   Length:418   Min.      : 0.300   Min.      : 120.0
## Class :character   Class :character   1st Qu.: 0.800   1st Qu.: 249.5
## Mode  :character   Mode  :character   Median : 1.400   Median : 309.5
##                                     Mean    : 3.221   Mean    : 369.5
##                                     3rd Qu.: 3.400   3rd Qu.: 400.0
##                                     Max.    :28.000   Max.    :1775.0
##                                     NA's    :134
##
##           albumin           copper           alk_phos           sgot
## Min.      :1.960   Min.      : 4.00   Min.      : 289.0   Min.      : 26.35
## 1st Qu.:3.243   1st Qu.: 41.25   1st Qu.: 871.5   1st Qu.: 80.60
```

##	Median :3.530	Median : 73.00	Median : 1259.0	Median :114.70
##	Mean :3.497	Mean : 97.65	Mean : 1982.7	Mean :122.56
##	3rd Qu.:3.770	3rd Qu.:123.00	3rd Qu.: 1980.0	3rd Qu.:151.90
##	Max. :4.640	Max. :588.00	Max. :13862.4	Max. :457.25
##		NA's :108	NA's :106	NA's :106
##	tryglicerides	platelets	prothrombin	stage
##	Min. : 33.00	Min. : 62.0	Min. : 9.00	Min. :1.000
##	1st Qu.: 84.25	1st Qu.:188.5	1st Qu.:10.00	1st Qu.:2.000
##	Median :108.00	Median :251.0	Median :10.60	Median :3.000
##	Mean :124.70	Mean :257.0	Mean :10.73	Mean :3.024
##	3rd Qu.:151.00	3rd Qu.:318.0	3rd Qu.:11.10	3rd Qu.:4.000
##	Max. :598.00	Max. :721.0	Max. :18.00	Max. :4.000
##	NA's :136	NA's :11	NA's :2	NA's :6