01-Analisis Exploratorio

knitr::opts\_chunk$set(echo = TRUE)  
  
##### Abrir librerias ####  
library(dplyr) ### Es una libreria para la gestion de datos

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library(skimr) ### Descripcion de datos continuos  
library(janitor) ### Descripcion de datos cualitativos

##   
## Attaching package: 'janitor'

## The following objects are masked from 'package:stats':  
##   
## chisq.test, fisher.test

library(readxl) ### Leer el excel de la base de datos  
library(ggplot2) ### Para hacer dibujos bonitos  
  
  
#### Cargar la base de datos  
traqueo <- read\_excel("Data/Base Datos TRAQUEO analisis.xlsx",   
 sheet = "Hoja1")

## Warning in read\_fun(path = enc2native(normalizePath(path)), sheet\_i = sheet, :  
## Expecting numeric in AF3 / R3C32: got a date

## Warning in read\_fun(path = enc2native(normalizePath(path)), sheet\_i = sheet, :  
## Expecting numeric in AF6 / R6C32: got a date

## Warning in read\_fun(path = enc2native(normalizePath(path)), sheet\_i = sheet, :  
## Expecting numeric in AF7 / R7C32: got a date

## New names:  
## \* `` -> ...1

#### Limpiar la base de datos  
traqueo <- traqueo %>%  
 filter(Sexo >= 0)  
  
  
##### Analisis exploratorio  
  
#### Variables CUALITATIVAS  
### Se describen como frecuencias absolutas y relativas = n (%)  
traqueo %>%  
 tabyl(Sexo)

## Sexo n percent  
## 0 49 0.3288591  
## 1 100 0.6711409

##### Variables CUANTITATIVAS  
#### Se describen como media o mediana y desviacion estandar o rango intercuartil   
traqueo %>%  
 skim(Edad)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Edad | 0 | 1 | 65.06 | 13.15 | 22 | 58 | 66 | 74 | 89 | ▁▂▅▇▅ |

###3 Talla  
traqueo$Talla <- as.numeric(traqueo$Talla)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(Talla)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Talla | 1 | 0.99 | 165.16 | 8.96 | 144 | 160 | 165 | 172 | 189 | ▂▆▇▆▁ |

### Peso  
traqueo$Peso <- as.numeric(traqueo$Peso)  
  
traqueo %>%  
 skim(Peso)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Peso | 0 | 1 | 80.57 | 19.45 | 45 | 70 | 78 | 85 | 164 | ▃▇▂▁▁ |

traqueo %>%  
 tabyl(`Ant. HTA`)

## Ant. HTA n percent  
## 0 70 0.4697987  
## 1 79 0.5302013

### obesidad  
traqueo %>%  
 tabyl(`Ant. Obesidad`)

## Ant. Obesidad n percent  
## 0 98 0.657718121  
## 1 50 0.335570470  
## NA 1 0.006711409

traqueo$`Ant. Obesidad`[traqueo$`Ant. Obesidad` == "NA"] <- 0  
class(traqueo$`Ant. Obesidad`)

## [1] "character"

### DM  
traqueo %>%  
 tabyl(`Ant. DM`)

## Ant. DM n percent  
## 0 102 0.6845638  
## 1 47 0.3154362

### EPOC  
traqueo %>%  
 tabyl(`Ant. EPOC/Asma`)

## Ant. EPOC/Asma n percent  
## 0 141 0.94630872  
## 1 8 0.05369128

### Tabaquismo  
traqueo%>%  
 tabyl(Tabaquismo)

## Tabaquismo n percent  
## 0 137 0.91946309  
## 1 12 0.08053691

### severidad APACHE  
traqueo %>%  
 skim(`Grado de severidad`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Grado de severidad | 0 | 1 | 22.13 | 7.7 | 1 | 17 | 23 | 27 | 40 | ▁▃▇▇▂ |

### IMC  
traqueo$IMC <- as.numeric(traqueo$IMC)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(IMC)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| IMC | 1 | 0.99 | 12873.86 | 20137.87 | 21.6 | 27.34 | 32.13 | 44014.75 | 44469 | ▇▁▁▁▃ |

###sato2 al ingreso  
traqueo %>%  
 skim(`SO2 al ingreso`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| SO2 al ingreso | 0 | 1 | 80.11 | 16.05 | 30 | 70 | 85 | 92 | 99 | ▁▁▃▅▇ |

### sofa en intubacion  
traqueo$`SOFA día intubación` <-as.numeric(traqueo$`SOFA día intubación`)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(`SOFA día intubación`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| SOFA día intubación | 3 | 0.98 | 7.78 | 3.25 | 1 | 5 | 8 | 10 | 16 | ▇▇▇▆▁ |

### sofa en traqueo  
traqueo %>%  
 skim(`SOFA día traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| SOFA día traqueostomía | 1 | 0.99 | 8.62 | 2.56 | 1 | 7 | 9 | 10 | 18 | ▁▅▇▂▁ |

### goteo vcasoactivo  
traqueo %>%  
 tabyl(`Goteo de vasoactivos`)

## Goteo de vasoactivos n percent  
## 0 81 0.5436242  
## 1 68 0.4563758

### vasoactivos POP  
traqueo %>%  
 tabyl(`Vasoactivos POP`)

## Vasoactivos POP n percent  
## 0 100 0.6711409  
## 1 49 0.3288591

### medicamentos sedacion  
traqueo %>%  
 tabyl(`Medicamentos de sedación`)

## Medicamentos de sedación n percent  
## 0 3 0.020134228  
## 1 9 0.060402685  
## 2 37 0.248322148  
## 3 22 0.147651007  
## 4 6 0.040268456  
## 4: dexmedetomidina + propofol 2 0.013422819  
## 4: fentanyl + dexmedetomidina 9 0.060402685  
## 4: fentanyl + dexmedetomidina + propofol 3 0.020134228  
## 4: fentanyl + ketamina 1 0.006711409  
## 4: fentanyl + propofol + ketamina 1 0.006711409  
## 4: ketamina 5 0.033557047  
## 4: midazolam + dexmedetomidina + fentanyl 1 0.006711409  
## 4: midazolam + fentanyl 13 0.087248322  
## 4: midazolam + fentanyl + propofol 5 0.033557047  
## 4: midazolam + propofol 1 0.006711409  
## 4: Ninguno 2 0.013422819  
## 4: propofol + fentanyl 28 0.187919463  
## 4: tiopental + hidromorfona 1 0.006711409

### aumento de parametros  
traqueo %>%  
 tabyl(`Aumento de los parámetros ventilatorios`)

## Aumento de los parámetros ventilatorios n percent valid\_percent  
## 0 75 0.503355705 0.50675676  
## 1 37 0.248322148 0.25000000  
## 2 30 0.201342282 0.20270270  
## 3 6 0.040268456 0.04054054  
## NA 1 0.006711409 NA

### tiempo intub-traqueo  
traqueo$`Tiempo entre la intubación y la traqueostomía` <- as.numeric(traqueo$`Tiempo entre la intubación y la traqueostomía`)  
  
traqueo %>%  
 skim(`Tiempo entre la intubación y la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Tiempo entre la intubación y la traqueostomía | 1 | 0.99 | 15.05 | 4.83 | 0 | 12 | 14 | 17 | 34 | ▁▆▇▁▁ |

### peep previo  
traqueo %>%  
 skim(`PEEP previo a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| PEEP previo a la traqueostomía | 0 | 1 | 8.5 | 2.22 | 0 | 8 | 8 | 10 | 14 | ▁▂▇▇▂ |

### peep posterior  
traqueo %>%  
 skim(`PEEP posterior a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| PEEP posterior a la traqueostomía | 0 | 1 | 8.72 | 2.07 | 5 | 8 | 8 | 10 | 14 | ▃▇▇▂▁ |

### so2 previo  
traqueo %>%  
 skim(`SO2 previo a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| SO2 previo a la traqueostomía | 0 | 1 | 95.44 | 5.04 | 60 | 94 | 96 | 99 | 100 | ▁▁▁▁▇ |

### so2 posterior  
traqueo$`SO2 inmediatamente posterior a la traqueostomía` <- as.numeric(traqueo$`SO2 inmediatamente posterior a la traqueostomía`)  
  
traqueo %>%  
 skim(`SO2 inmediatamente posterior a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| SO2 inmediatamente posterior a la traqueostomía | 0 | 1 | 93.19 | 9.3 | 42 | 92 | 95 | 98 | 100 | ▁▁▁▁▇ |

### tipo de canula  
traqueo$`Tipo de cánula` <- as.numeric(traqueo$`Tipo de cánula`)

## Warning: NAs introduced by coercion

traqueo %>%  
 tabyl(`Tipo de cánula`)

## Tipo de cánula n percent valid\_percent  
## 0 113 0.758389262 0.7635135  
## 1 35 0.234899329 0.2364865  
## NA 1 0.006711409 NA

###tecnica quirurgica  
traqueo %>%  
 tabyl(`Técnica quirúrgica`)

## Técnica quirúrgica n percent  
## 0 104 0.697986577  
## 1 1 0.006711409  
## 2 44 0.295302013

### calibre canula  
traqueo %>%  
 skim(`Calibre de la cánula (French)`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Calibre de la cánula (French) | 0 | 1 | 893.11 | 6194.12 | 7 | 8 | 8 | 9 | 43959 | ▇▁▁▁▁ |

### metodo de identificacion traquea  
traqueo %>%  
 tabyl(`Método de identificación de la tráquea`)

## Método de identificación de la tráquea n percent  
## 0 149 1

### complicaciones intraquirurgicas  
traqueo$`Complicaciones intraoperatorias` <- as.numeric(traqueo$`Complicaciones intraoperatorias`)

## Warning: NAs introduced by coercion

traqueo %>%  
 tabyl(`Complicaciones intraoperatorias`)

## Complicaciones intraoperatorias n percent valid\_percent  
## 0 140 0.939597315 0.965517241  
## 2 4 0.026845638 0.027586207  
## 6 1 0.006711409 0.006896552  
## NA 4 0.026845638 NA

### pafi dia antes  
traqueo %>%  
 skim(`PAFi día anterior a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| character | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: character**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | min | max | empty | n\_unique | whitespace |
| PAFi día anterior a la traqueostomía | 0 | 1 | 2 | 3 | 0 | 110 | 0 |

### pafi dia despues   
traqueo$`PAFi día posterior a la traqueostomía` <-as.numeric(traqueo$`PAFi día posterior a la traqueostomía`)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(`PAFi día posterior a la traqueostomía`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| PAFi día posterior a la traqueostomía | 1 | 0.99 | 183.68 | 79.19 | 56 | 129.75 | 170.5 | 225 | 447 | ▆▇▃▂▁ |

### pafi 3 dias  
traqueo %>%  
 tabyl(`PAFi a las 72 posteriores a la traqueostomía`)

## PAFi a las 72 posteriores a la traqueostomía n percent  
## 100 1 0.006711409  
## 101 1 0.006711409  
## 103 1 0.006711409  
## 105 1 0.006711409  
## 106 1 0.006711409  
## 108 1 0.006711409  
## 110 1 0.006711409  
## 114 1 0.006711409  
## 116 3 0.020134228  
## 117 1 0.006711409  
## 119 1 0.006711409  
## 124 1 0.006711409  
## 125 1 0.006711409  
## 128 2 0.013422819  
## 132 1 0.006711409  
## 133 1 0.006711409  
## 134 2 0.013422819  
## 135 2 0.013422819  
## 139 2 0.013422819  
## 140 3 0.020134228  
## 143 1 0.006711409  
## 144 3 0.020134228  
## 145 2 0.013422819  
## 147 1 0.006711409  
## 148 1 0.006711409  
## 152 1 0.006711409  
## 153 1 0.006711409  
## 154 1 0.006711409  
## 155 1 0.006711409  
## 159 1 0.006711409  
## 164 1 0.006711409  
## 166 2 0.013422819  
## 167 1 0.006711409  
## 168 1 0.006711409  
## 169 1 0.006711409  
## 170 3 0.020134228  
## 174 1 0.006711409  
## 175 1 0.006711409  
## 181 1 0.006711409  
## 183 2 0.013422819  
## 184 1 0.006711409  
## 185 1 0.006711409  
## 186 1 0.006711409  
## 189 2 0.013422819  
## 190 1 0.006711409  
## 191 1 0.006711409  
## 193 1 0.006711409  
## 194 1 0.006711409  
## 195 1 0.006711409  
## 197 1 0.006711409  
## 198 2 0.013422819  
## 199 2 0.013422819  
## 201 1 0.006711409  
## 202 1 0.006711409  
## 204 1 0.006711409  
## 205 2 0.013422819  
## 206 2 0.013422819  
## 207 2 0.013422819  
## 208 1 0.006711409  
## 213 2 0.013422819  
## 218 3 0.020134228  
## 220 1 0.006711409  
## 228 1 0.006711409  
## 229 1 0.006711409  
## 230 3 0.020134228  
## 233 1 0.006711409  
## 234 2 0.013422819  
## 235 1 0.006711409  
## 236 1 0.006711409  
## 237 1 0.006711409  
## 240 1 0.006711409  
## 241 1 0.006711409  
## 243 1 0.006711409  
## 246 1 0.006711409  
## 248 1 0.006711409  
## 250 1 0.006711409  
## 252 1 0.006711409  
## 253 2 0.013422819  
## 267 2 0.013422819  
## 274 1 0.006711409  
## 276 1 0.006711409  
## 279 2 0.013422819  
## 280 1 0.006711409  
## 291 1 0.006711409  
## 299 1 0.006711409  
## 300 1 0.006711409  
## 317 1 0.006711409  
## 318 1 0.006711409  
## 320 1 0.006711409  
## 330 1 0.006711409  
## 333 1 0.006711409  
## 336 1 0.006711409  
## 363 1 0.006711409  
## 364 1 0.006711409  
## 392 1 0.006711409  
## 409 1 0.006711409  
## 420 1 0.006711409  
## 48 2 0.013422819  
## 57 1 0.006711409  
## 60 1 0.006711409  
## 63 1 0.006711409  
## 65 1 0.006711409  
## 67 1 0.006711409  
## 72 1 0.006711409  
## 74 1 0.006711409  
## 76 1 0.006711409  
## 78 1 0.006711409  
## 86 1 0.006711409  
## 89 1 0.006711409  
## 93 1 0.006711409  
## 94 1 0.006711409  
## 95 1 0.006711409  
## 96 1 0.006711409  
## 98 1 0.006711409  
## NA 4 0.026845638

### fallece antes retiro ventilador  
traqueo$`Fallece antes de retiro del ventilador` <- as.numeric(traqueo$`Fallece antes de retiro del ventilador`)

## Warning: NAs introduced by coercion

traqueo %>%  
 tabyl(`Fallece antes de retiro del ventilador`)

## Fallece antes de retiro del ventilador n percent valid\_percent  
## 0 95 0.637583893 0.6418919  
## 1 53 0.355704698 0.3581081  
## NA 1 0.006711409 NA

### aun continua canula  
traqueo%>%  
 tabyl(`Aún continúa con cánula de traqueostomía`)

## Aún continúa con cánula de traqueostomía n  
## . 59  
## 0 70  
## 1 17  
## 1 (14.04.2021) 1  
## 1 al 14.04.21 1  
## Se desconoce. Se remitio el 29.10.2020 con VMI a otra institucion 1  
## percent  
## 0.395973154  
## 0.469798658  
## 0.114093960  
## 0.006711409  
## 0.006711409  
## 0.006711409

### tiempo que continua con canula  
traqueo%>%  
 tabyl(`Tiempo que continúa con la cánula de traqueostomía`)

## Tiempo que continúa con la cánula de traqueostomía n  
## . 60  
## 0 67  
## 1 1  
## 2 2  
## 3 2  
## 4 14  
## NI 1  
## Se desconoce. Se remitio el 29.10.2020 con VMI a otra institucion 1  
## <NA> 1  
## percent valid\_percent  
## 0.402684564 0.405405405  
## 0.449664430 0.452702703  
## 0.006711409 0.006756757  
## 0.013422819 0.013513514  
## 0.013422819 0.013513514  
## 0.093959732 0.094594595  
## 0.006711409 0.006756757  
## 0.006711409 0.006756757  
## 0.006711409 NA

### fallece antes de decanulacion  
traqueo%>%  
 tabyl(`Fallece antes de decanulación`)

## Fallece antes de decanulación n  
## 0 88  
## 1 59  
## NA (al 14.04 aun no decanulan) 1  
## Se desconoce. Se remitio el 29.10.2020 con VMI a otra institucion 1  
## percent  
## 0.590604027  
## 0.395973154  
## 0.006711409  
## 0.006711409

### tiempo traqueo-retiro ventilador  
traqueo$`Tiempo entre la traqueostomía y el retiro del ventilador` <-as.numeric(traqueo$`Tiempo entre la traqueostomía y el retiro del ventilador`)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(`Tiempo entre la traqueostomía y el retiro del ventilador`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Tiempo entre la traqueostomía y el retiro del ventilador | 55 | 0.63 | 14.43 | 11.42 | 1 | 6 | 10.5 | 21 | 51 | ▇▃▂▁▁ |

### tiempo traqueostomia-decanulacion  
traqueo$`Tiempo entre la traqueostomía y la decanulación` <- as.numeric(traqueo$`Tiempo entre la traqueostomía y la decanulación`)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(`Tiempo entre la traqueostomía y la decanulación`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Tiempo entre la traqueostomía y la decanulación | 79 | 0.47 | 38.91 | 33.97 | 5 | 20.25 | 29 | 42.5 | 190 | ▇▂▁▁▁ |

### complicaciones estancia hospitalaria  
traqueo %>%  
 tabyl(`Complicaciones a largo plazo`)

## Complicaciones a largo plazo n percent valid\_percent  
## 0 126 0.845637584 0.851351351  
## 1 5 0.033557047 0.033783784  
## 1, 2 1 0.006711409 0.006756757  
## 1.2 1 0.006711409 0.006756757  
## 1y2 2 0.013422819 0.013513514  
## 2 1 0.006711409 0.006756757  
## 2 y 3 1 0.006711409 0.006756757  
## 3 3 0.020134228 0.020270270  
## 5 5 0.033557047 0.033783784  
## 5, 2 1 0.006711409 0.006756757  
## 6 1 0.006711409 0.006756757  
## Otra 1 0.006711409 0.006756757  
## <NA> 1 0.006711409 NA

###estancia global  
traqueo$`Estancia global` <- as.numeric(traqueo$`Estancia global`)

## Warning: NAs introduced by coercion

traqueo %>%  
 skim(`Estancia global`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Estancia global | 2 | 0.99 | 48.28 | 23.41 | 14 | 30.5 | 45 | 57 | 137 | ▆▇▂▂▁ |

###estancia en UCI  
traqueo %>%  
 skim(`Estancia en UCI`)

Data summary

|  |  |
| --- | --- |
| Name | Piped data |
| Number of rows | 149 |
| Number of columns | 54 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| numeric | 1 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Estancia en UCI | 0 | 1 | 34.62 | 15.92 | 4 | 24 | 30 | 44 | 106 | ▅▇▃▁▁ |

### estado egreso UCI  
traqueo%>%  
 tabyl(`Estado del egreso UCI`)

## Estado del egreso UCI n percent  
## 0 93 0.624161074  
## 1 55 0.369127517  
## 2 1 0.006711409

### estado egreso hospi  
traqueo%>%  
 tabyl(`Estado egreso hospitalario`)

## Estado egreso hospitalario n percent  
## 0 85 0.570469799  
## 1 60 0.402684564  
## 2 3 0.020134228  
## 2 al 14.04 1 0.006711409