## Tables - split

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## **Imports**

```
library(tidyverse)
library(yaml)
library(kableExtra)
```

## Loading data

```
load('dataset/processed_data.RData')
load('dataset/processed_dictionary.RData')

columns_list <- yaml.load_file("./auxiliar/columns_list.yaml")

outcome_column <- params$outcome_column

if (outcome_column == 'general') {
    df <- df %>% mutate(general = 'All')
}

df[columns_list$outcome_columns] <- lapply(df[columns_list$outcome_columns], as.character)
df[columns_list$outcome_columns] <- lapply(df[columns_list$outcome_columns], as.integer)</pre>
```

#### Numerical variables

```
medianWithoutNA <- function(x) {</pre>
   median(x[which(!is.na(x))])
}
i = 0
for (column in columns_list$numerical_columns) {
    group_by_at(vars(one_of(outcome_column))) %>%
    summarise('Mean' = mean(!!sym(column), na.rm = T),
              'Min' = min(!!sym(column), na.rm = T),
              'Median' = medianWithoutNA(!!sym(column)),
              'Max' = max(!!sym(column), na.rm = T),
              'Standard Deviation' = sd(!!sym(column), na.rm = T),
              'N' = n(),
              'Missing' = sum(is.na(!!sym(column)))) %>%
    ungroup %>%
    mutate(Min = ifelse(is.infinite(Min), NA, Min),
           Max = ifelse(is.infinite(Max), NA, Max)) %>%
    kbl(align = "l", booktabs = T, digits = 3, format = 'latex', label = i,
        caption = df_names %>% filter(variable.name == column) %>% .$field.label) %>%
    column_spec(1, bold = T, width = "8em") %>%
    row_spec(c(1) - 1, extra_latex_after = "\\rowcolor{gray!6}") %>%
    collapse_rows(1, latex_hline = "none") %>%
    kable_styling(latex_options = c("HOLD_position", "repeat_header")) %>%
    print
```

Table 1: Idade no momento do primeiro procedimento

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 65.781 | 0   | 69.1   | 110.6 | 17.691             | 11036 | 0       |
| test  | 65.212 | 0   | 68.7   | 103.9 | 17.960             | 4730  | 0       |

Table 2: Número de comorbidades

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.241 | 0   | 1      | 8   | 1.347              | 11036 | 0       |
| test  | 1.275 | 0   | 1      | 8   | 1.365              | 4730  | 0       |

Table 3: Número de procedimentos

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.445 | 1   | 1      | 10  | 0.837              | 11036 | 0       |
| test  | 1.474 | 1   | 1      | 9   | 0.851              | 4730  | 0       |

Table 4: Ano do procedimento 1

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2010.602 | 1999 | 2010   | 2021 | 5.775              | 11036 | 0       |
| test  | 2010.558 | 1999 | 2010   | 2021 | 5.815              | 4730  | 0       |

Table 5: Idade no Procedimento 1

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 65.781 | 0   | 69.1   | 110.6 | 17.691             | 11036 | 0       |
| test  | 65.212 | 0   | 68.7   | 103.9 | 17.960             | 4730  | 0       |

Table 6: Ano do procedimento 2

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2013.025 | 1999 | 2013   | 2022 | 4.715              | 11036 | 7720    |
| test  | 2013.221 | 1999 | 2014   | 2022 | 4.612              | 4730  | 3185    |

Table 7: Idade no Procedimento 2

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 64.986 | 0.0 | 68.9   | 100.9 | 19.137             | 11036 | 7719    |
| test  | 65.458 | 0.4 | 69.5   | 108.7 | 19.530             | 4730  | 3185    |

Table 8: Ano do procedimento 3

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2014.256 | 1999 | 2015   | 2022 | 4.826              | 11036 | 9999    |
| test  | 2014.475 | 1999 | 2015   | 2022 | 4.681              | 4730  | 4290    |

Table 9: Idade no Procedimento 3

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 62.207 | 0.4 | 65.9   | 97.2  | 20.459             | 11036 | 9999    |
| test  | 61.527 | 1.8 | 66.2   | 101.1 | 21.429             | 4730  | 4290    |

Table 10: Ano do procedimento  $4\,$ 

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2014.442 | 2002 | 2015   | 2022 | 4.861              | 11036 | 10706   |
| test  | 2014.497 | 2002 | 2015   | 2022 | 4.703              | 4730  | 4575    |

Table 11: Idade no Procedimento 4

| split | Mean   | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|------|--------------------|-------|---------|
| train | 59.786 | 6.3 | 63.0   | 97.7 | 21.108             | 11036 | 10706   |
| test  | 59.282 | 1.9 | 65.8   | 96.9 | 23.626             | 4730  | 4575    |

Table 12: Ano do procedimento 5

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2014.000 | 2003 | 2013   | 2022 | 4.211              | 11036 | 10907   |
| test  | 2014.714 | 2005 | 2015   | 2021 | 4.136              | 4730  | 4667    |

Table 13: Idade no Procedimento 5

| split | Mean   | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|------|--------------------|-------|---------|
| train | 57.718 | 6.3 | 59.8   | 99.7 | 21.162             | 11036 | 10907   |
| test  | 58.105 | 3.2 | 63.5   | 88.2 | 23.898             | 4730  | 4667    |

Table 14: Ano do procedimento 6

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2014.644 | 2003 | 2014.0 | 2021 | 4.634              | 11036 | 10977   |
| test  | 2014.955 | 2005 | 2016.5 | 2021 | 4.402              | 4730  | 4708    |

Table 15: Idade no Procedimento 6

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 56.878 | 6.6 | 58.7   | 101.6 | 21.050             | 11036 | 10977   |
| test  | 53.150 | 7.8 | 60.8   | 88.7  | 26.001             | 4730  | 4708    |

Table 16: Ano do procedimento 7

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2015.409 | 2007 | 2015.5 | 2022 | 4.055              | 11036 | 11014   |
| test  | 2016.200 | 2008 | 2018.0 | 2021 | 4.940              | 4730  | 4720    |

Table 17: Idade no Procedimento 7

| split | Mean   | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|------|--------|------|--------------------|-------|---------|
| train | 53.205 | 14.2 | 57.10  | 79.1 | 18.103             | 11036 | 11014   |
| test  | 46.890 | 8.8  | 58.25  | 81.8 | 26.522             | 4730  | 4720    |

Table 18: Ano do procedimento 8

| split | Mean    | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|---------|------|--------|------|--------------------|-------|---------|
| train | 2016.50 | 2013 | 2016.5 | 2020 | 2.777              | 11036 | 11028   |
| test  | 2011.75 | 2008 | 2010.5 | 2018 | 4.349              | 4730  | 4726    |

Table 19: Idade no Procedimento 8

| split | Mean  | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|------|--------|------|--------------------|-------|---------|
| train | 55.35 | 36.2 | 52.90  | 79.4 | 16.449             | 11036 | 11028   |
| test  | 46.15 | 14.3 | 44.25  | 81.8 | 35.181             | 4730  | 4726    |

Table 20: Ano do procedimento 9

| split | Mean | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|------|------|--------|------|--------------------|-------|---------|
| train | 2019 | 2016 | 2019   | 2022 | 4.243              | 11036 | 11034   |
| test  | 2012 | 2009 | 2011   | 2016 | 3.606              | 4730  | 4727    |

Table 21: Idade no Procedimento 9

| split | Mean   | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|------|--------|------|--------------------|-------|---------|
| train | 39.600 | 36.6 | 39.6   | 42.6 | 4.243              | 11036 | 11034   |
| test  | 40.033 | 15.0 | 22.9   | 82.2 | 36.730             | 4730  | 4727    |

Table 22: Ano do procedimento 10

| split | Mean | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|------|------|--------|------|--------------------|-------|---------|
| train | 2019 | 2019 | 2019   | 2019 | NA                 | 11036 | 11035   |
| test  | NaN  | NA   | NA     | NA   | NA                 | 4730  | 4730    |

Table 23: Idade no Procedimento 10

| split | Mean | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|------|------|--------|------|--------------------|-------|---------|
| train | 39.7 | 39.7 | 39.7   | 39.7 | NA                 | 11036 | 11035   |
| test  | NaN  | NA   | NA     | NA   | NA                 | 4730  | 4730    |

Table 24: Tempo entre o P1 e P2 (meses)

| split | Mean   | $\operatorname{Min}$ | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|----------------------|--------|-------|--------------------|-------|---------|
| train | 72.824 | 0                    | 83.5   | 197.1 | 40.257             | 11036 | 7719    |
| test  | 74.353 | 0                    | 84.1   | 174.1 | 39.913             | 4730  | 3185    |

Table 25: Tempo entre o P2 e P3 (meses)

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 56.060 | 0   | 61.00  | 170.5 | 40.187             | 11036 | 9999    |
| test  | 54.735 | 0   | 60.35  | 150.4 | 38.676             | 4730  | 4290    |

Table 26: Tempo entre o P3 e P4 (meses)

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 41.491 | 0   | 34.1   | 142.7 | 40.540             | 11036 | 10707   |
| test  | 35.599 | 0   | 22.4   | 129.4 | 38.066             | 4730  | 4575    |

Table 27: Tempo entre o P4 e P5 (meses)

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 33.734 | 0.1 | 11.9   | 144.3 | 38.865             | 11036 | 10907   |
| test  | 29.595 | 0.0 | 4.9    | 127.6 | 37.672             | 4730  | 4667    |

Table 28: Tempo entre o P5 e P6 (meses)

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 29.425 | 0.0 | 6.80   | 110.3 | 36.067             | 11036 | 10977   |
| test  | 23.068 | 0.2 | 5.05   | 104.9 | 31.799             | 4730  | 4708    |

Table 29: Tempo entre o P6 e P7 (meses)

| split | Mean   | Min | Median | Max   | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|-------|--------------------|-------|---------|
| train | 33.186 | 0.1 | 4.9    | 142.3 | 44.228             | 11036 | 11014   |
| test  | 27.760 | 0.0 | 2.3    | 93.3  | 40.899             | 4730  | 4720    |

Table 30: Tempo entre o P7 e P8 (meses)

| split           | Mean   | Min | Median | Max  | Standard Deviation | N     | Missing |
|-----------------|--------|-----|--------|------|--------------------|-------|---------|
| train           | 28.975 | 0.2 | 18.40  | 80.9 | 31.896             | 11036 | 11028   |
| $\mathbf{test}$ | 2.000  | 0.3 | 0.65   | 6.4  | 2.938              | 4730  | 4726    |

Table 31: Tempo entre o P8 e P9 (meses)

| split | Mean   | $\operatorname{Min}$ | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|----------------------|--------|------|--------------------|-------|---------|
| train | 15.950 | 5.1                  | 15.95  | 26.8 | 15.344             | 11036 | 11034   |
| test  | 25.567 | 4.8                  | 8.70   | 63.2 | 32.650             | 4730  | 4727    |

Table 32: Tempo entre o P9 e P10 (meses)

| split | Mean | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|------|------|--------|------|--------------------|-------|---------|
| train | 36.8 | 36.8 | 36.8   | 36.8 | NA                 | 11036 | 11035   |
| test  | NaN  | NA   | NA     | NA   | NA                 | 4730  | 4730    |

Table 33: Número de Mudanças do tipo de DCEI

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.088 | 0   | 0      | 3   | 0.293              | 11036 | 7719    |
| test  | 0.084 | 0   | 0      | 3   | 0.303              | 4730  | 3188    |

Table 34: Número de atendimentos

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 2.371 | 1   | 2      | 51  | 2.234              | 11036 | 0       |
| test  | 2.402 | 1   | 2      | 32  | 2.194              | 4730  | 0       |

Table 35: Número da Admissão T0 (admissão índice)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.443 | 1   | 1      | 32  | 1.147              | 11036 | 0       |
| test  | 1.415 | 1   | 1      | 17  | 1.060              | 4730  | 0       |

Table 36: Núm. de episódios de hospitalizações pós-procedimento

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.843 | 0   | 0      | 50  | 1.671              | 11036 | 0       |
| test  | 0.912 | 0   | 0      | 25  | 1.721              | 4730  | 0       |

Table 37: Núm. de episódios de hospitalizações pré-procedimento

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.552 | 0   | 0      | 38  | 1.285              | 11036 | 0       |
| test  | 0.515 | 0   | 0      | 16  | 1.130              | 4730  | 0       |

Table 38: Ano da admissão T0

| split | Mean     | Min  | Median | Max  | Standard Deviation | N     | Missing |
|-------|----------|------|--------|------|--------------------|-------|---------|
| train | 2010.596 | 1999 | 2010   | 2021 | 5.775              | 11036 | 15      |
| test  | 2010.549 | 1999 | 2010   | 2021 | 5.817              | 4730  | 5       |

Table 39: UTI durante a admissão T0

| split | Mean  | Min | Median | Max    | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|--------|--------------------|-------|---------|
| train | 1.642 | 0   | 0      | 191.95 | 6.950              | 11036 | 0       |
| test  | 1.643 | 0   | 0      | 90.00  | 6.172              | 4730  | 0       |

Table 40: Diálise durante a admissão T0

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.014 | 0   | 0      | 28  | 0.486              | 11036 | 0       |
| test  | 0.005 | 0   | 0      | 8   | 0.176              | 4730  | 0       |

Table 41: Tempo de seguimento total (anos)

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 5.822 | 0   | 4.3    | 22.5 | 5.231              | 11036 | 0       |
| test  | 6.015 | 0   | 4.6    | 22.6 | 5.260              | 4730  | 0       |

Table 42: Tempo de sobrevida (anos)

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 4.037 | 0   | 2.6    | 20.1 | 4.066              | 11036 | 9799    |
| test  | 4.194 | 0   | 2.8    | 19.7 | 4.190              | 4730  | 4202    |

Table 43: Diárias no serviço de Emergência na admissão T $\!0$ 

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.313 | 0   | 0      | 28  | 1.31               | 11036 | 4147    |
| test  | 0.321 | 0   | 0      | 21  | 1.45               | 4730  | 1782    |

Table 44: Anticoagulantes orais

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 0.284 | 0   | 0      | 80.5 | 2.260              | 11036 | 2433    |
| test  | 0.327 | 0   | 0      | 98.0 | 2.796              | 4730  | 1050    |

Table 45: Antiarritmicos

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 3.609 | 0   | 0      | 844 | 18.375             | 11036 | 2433    |
| test  | 3.963 | 0   | 0      | 445 | 19.413             | 4730  | 1050    |

Table 46: Antihipertensivo

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.468 | 0   | 0      | 349 | 5.311              | 11036 | 2433    |
| test  | 0.469 | 0   | 0      | 160 | 5.462              | 4730  | 1050    |

 ${\bf Table~47:~Betable queador}$ 

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.084 | 0   | 0      | 388 | 8.003              | 11036 | 2433    |
| test  | 1.099 | 0   | 0      | 238 | 8.235              | 4730  | 1050    |

Table 48: IECA/BRA

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 8.792 | 0   | 2      | 393 | 20.036             | 11036 | 2433    |
| test  | 9.091 | 0   | 3      | 530 | 21.987             | 4730  | 1050    |

Table 49: DVA

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 5.021 | 0   | 0      | 1044 | 28.735             | 11036 | 2433    |
| test  | 5.127 | 0   | 0      | 606  | 29.755             | 4730  | 1050    |

Table 50: Digoxina

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.228 | 0   | 0      | 50  | 1.601              | 11036 | 2433    |
| test  | 0.246 | 0   | 0      | 39  | 1.720              | 4730  | 1050    |

Table 51: Estatinas

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 5.083 | 0   | 0      | 421 | 16.537             | 11036 | 2433    |
| test  | 5.225 | 0   | 0      | 340 | 16.592             | 4730  | 1050    |

Table 52: Diuretico

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 8.345 | 0   | 0      | 1290 | 44.514             | 11036 | 2433    |
| test  | 8.785 | 0   | 0      | 1245 | 45.693             | 4730  | 1050    |

Table 53: Vasodilator

| split | Mean  | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|------|--------------------|-------|---------|
| train | 9.449 | 0   | 0      | 2408 | 52.969             | 11036 | 2433    |
| test  | 7.901 | 0   | 0      | 1278 | 42.408             | 4730  | 1050    |

Table 54: Insuficiência cardíaca (ivabradina, levosimedan, milrinona, nesiritida, carvedilol)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 4.565 | 0   | 0      | 453 | 17.134             | 11036 | 2433    |
| test  | 4.243 | 0   | 0      | 422 | 14.892             | 4730  | 1050    |

Table 55: Antagonista da Aldosterona (espironolactona)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.971 | 0   | 0      | 204 | 7.490              | 11036 | 2433    |
| test  | 2.193 | 0   | 0      | 130 | 8.353              | 4730  | 1050    |

Table 56: Bloqueador do canal de calcio

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.466 | 0   | 0      | 281 | 6.862              | 11036 | 2433    |
| test  | 0.966 | 0   | 0      | 509 | 14.036             | 4730  | 1050    |

Table 57: Trombolitico

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.001 | 0   | 0      | 1   | 0.026              | 11036 | 2433    |
| test  | 0.001 | 0   | 0      | 3   | 0.059              | 4730  | 1050    |

Table 58: Antiplaquetario VO

| split           | Mean | Min | Median | Max | Standard Deviation | N     | Missing |
|-----------------|------|-----|--------|-----|--------------------|-------|---------|
| train           | 0    | 0   | 0      | 0   | 0                  | 11036 | 2433    |
| $\mathbf{test}$ | 0    | 0   | 0      | 0   | 0                  | 4730  | 1050    |

Table 59: Antiplaquetario EV

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.011 | 0   | 0      | 8   | 0.178              | 11036 | 2433    |
| test  | 0.010 | 0   | 0      | 5   | 0.166              | 4730  | 1050    |

Table 60: Insulina

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.093 | 0   | 0      | 7   | 0.436              | 11036 | 2433    |
| test  | 0.099 | 0   | 0      | 16  | 0.544              | 4730  | 1050    |

Table 61: Hipoglicemiante

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.356 | 0   | 0      | 90  | 2.940              | 11036 | 2433    |
| test  | 0.366 | 0   | 0      | 63  | 2.601              | 4730  | 1050    |

Table 62: Hormonio tireoidiano

| split | Mean | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|------|-----|--------|-----|--------------------|-------|---------|
| train | 0    | 0   | 0      | 0   | 0                  | 11036 | 2433    |
| test  | 0    | 0   | 0      | 0   | 0                  | 4730  | 1050    |

Table 63: Broncodiltador

| split | Mean | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|------|-----|--------|-----|--------------------|-------|---------|
| train | 0    | 0   | 0      | 0   | 0                  | 11036 | 2433    |
| test  | 0    | 0   | 0      | 0   | 0                  | 4730  | 1050    |

Table 64: Anticonvulsivante

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.843 | 0   | 0      | 390 | 9.798              | 11036 | 2433    |
| test  | 0.966 | 0   | 0      | 334 | 12.279             | 4730  | 1050    |

Table 65: Psicofármacos (Ansiolítico/ antidepressivo/ antipsicótico)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 3.666 | 0   | 0      | 251 | 12.092             | 11036 | 2433    |
| test  | 3.707 | 0   | 0      | 387 | 13.175             | 4730  | 1050    |

Table 66: Antibióticos

| split | Mean   | $\operatorname{Min}$ | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|----------------------|--------|------|--------------------|-------|---------|
| train | 13.163 | 0                    | 4      | 1626 | 57.573             | 11036 | 2433    |
| test  | 13.860 | 0                    | 4      | 1812 | 63.800             | 4730  | 1050    |

Table 67: Antifúngicos

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.292 | 0   | 0      | 104 | 3.142              | 11036 | 2433    |
| test  | 0.249 | 0   | 0      | 122 | 3.432              | 4730  | 1050    |

Table 68: Antiviral

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.090 | 0   | 0      | 103 | 2.051              | 11036 | 2433    |
| test  | 0.135 | 0   | 0      | 131 | 3.292              | 4730  | 1050    |

Table 69: Antiretroviral

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.009 | 0   | 0      | 32  | 0.488              | 11036 | 2433    |
| test  | 0.007 | 0   | 0      | 20  | 0.334              | 4730  | 1050    |

Table 70: Quantidade de classes medicamentosas utilizadas

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 4.746 | 1   | 4      | 17  | 2.536              | 11036 | 3466    |
| test  | 4.743 | 1   | 5      | 15  | 2.558              | 4730  | 1489    |

Table 71: Ventilação não invasiva

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.018 | 0   | 0      | 32  | 0.564              | 11036 | 1909    |
| test  | 0.021 | 0   | 0      | 42  | 0.746              | 4730  | 825     |

Table 72: Instalação de CEC

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.011 | 0   | 0      | 2   | 0.108              | 11036 | 1909    |
| test  | 0.013 | 0   | 0      | 1   | 0.112              | 4730  | 825     |

Table 73: Cirurgia Cardiovascular

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.058 | 0   | 0      | 9   | 0.389              | 11036 | 1909    |
| test  | 0.051 | 0   | 0      | 6   | 0.335              | 4730  | 825     |

Table 74: Cirurgia Toracica

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.003 | 0   | 0      | 4   | 0.075              | 11036 | 1909    |
| test  | 0.002 | 0   | 0      | 2   | 0.045              | 4730  | 825     |

Table 75: Outros procedimentos cirúrgicos (cir geral, gastrocir, plástica, uro, vascular)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.103 | 0   | 0      | 11  | 0.517              | 11036 | 1909    |
| test  | 0.112 | 0   | 0      | 9   | 0.552              | 4730  | 825     |

Table 76: Traqueostomia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.000 | 0   | 0      | 1   | 0.021              | 11036 | 1909    |
| test  | 0.004 | 0   | 0      | 5   | 0.096              | 4730  | 825     |

Table 77: Intervenção coronária percutânea

| split         | Mean             | Min | Median | Max | Standard Deviation | N             | Missing     |
|---------------|------------------|-----|--------|-----|--------------------|---------------|-------------|
| train<br>test | $0.009 \\ 0.015$ | 0   | 0      | 3 4 | 0.114<br>0.161     | 11036<br>4730 | 1909<br>825 |

Table 78: Intervenção cardiovascular em laboratório de hemodinâmica (alcoolização septal, valvoplastia percutânea, stent em vasos pulmonares)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.006 | 0   | 0      | 3   | 0.112              | 11036 | 1909    |
| test  | 0.009 | 0   | 0      | 3   | 0.127              | 4730  | 825     |

Table 79: Stent

| split | Mean | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|------|-----|--------|-----|--------------------|-------|---------|
| train | 0    | 0   | 0      | 0   | 0                  | 11036 | 1909    |
| test  | 0    | 0   | 0      | 0   | 0                  | 4730  | 825     |

Table 80: Angioplastia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.001 | 0   | 0      | 1   | 0.031              | 11036 | 1909    |
| test  | 0.002 | 0   | 0      | 2   | 0.053              | 4730  | 825     |

Table 81: Cateterismo

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.124 | 0   | 0      | 7   | 0.409              | 11036 | 1909    |
| test  | 0.119 | 0   | 0      | 4   | 0.388              | 4730  | 825     |

Table 82: Eletrofisiologia

| split         | Mean             | Min | Median | Max     | Standard Deviation | N             | Missing     |
|---------------|------------------|-----|--------|---------|--------------------|---------------|-------------|
| train<br>test | $0.080 \\ 0.085$ | •   | 0      | 11<br>6 | 0.472<br>0.480     | 11036<br>4730 | 1909<br>825 |

Table 83: Suporte cardiocirculatório (ECMO, BIA, Bio-PUMP)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.059 | 0   | 0      | 177 | 2.564              | 11036 | 1909    |
| test  | 0.216 | 0   | 0      | 535 | 9.205              | 4730  | 825     |

Table 84: Cateter venoso central

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.029 | 0   | 0      | 4   | 0.210              | 11036 | 1909    |
| test  | 0.026 | 0   | 0      | 4   | 0.187              | 4730  | 825     |

Table 85: Drenagem de tórax (instalação /troca) e punção pericárdica ou pleural

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.005 | 0   | 0      | 6   | 0.107              | 11036 | 1909    |
| test  | 0.006 | 0   | 0      | 3   | 0.105              | 4730  | 825     |

Table 86: Quantidade de procedimentos invasivos

| split                 | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-----------------------|-------|-----|--------|-----|--------------------|-------|---------|
| train                 | 0.492 | 0   | 0      | 197 | 3.089              | 11036 | 1909    |
| $\operatorname{test}$ | 0.663 | 0   | 0      | 554 | 9.635              | 4730  | 825     |

Table 87: Cardioversão/ Desfibrilação (sessão)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.006 | 0   | 0      | 5   | 0.123              | 11036 | 2490    |
| test  | 0.006 | 0   | 0      | 4   | 0.117              | 4730  | 1076    |

Table 88: Transfusão de hemoderivados

| split | Mean | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|------|-----|--------|-----|--------------------|-------|---------|
| train | 0.03 | 0   | 0      | 34  | 0.550              | 11036 | 1909    |
| test  | 0.03 | 0   | 0      | 18  | 0.477              | 4730  | 825     |

Table 89: Interconsulta médica (Especialidades cirúrgicas, infecto, uro, nefro, psiquiatra, dermato, alergista, oncologista, geriatra, etc)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.335 | 0   | 0      | 72  | 2.087              | 11036 | 1909    |
| test  | 0.387 | 0   | 0      | 199 | 3.954              | 4730  | 825     |

Table 90: Equipe Multiprofissional (enf, fono, fisio, nutri, serviço social, psicologia)

| split           | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-----------------|-------|-----|--------|-----|--------------------|-------|---------|
| train           | 2.953 | 0   | 0      | 365 | 12.796             | 11036 | 1909    |
| $\mathbf{test}$ | 3.098 | 0   | 0      | 328 | 13.220             | 4730  | 825     |

Table 91: ECG

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 3.892 | 0   | 2      | 140 | 5.759              | 11036 | 1909    |
| test  | 3.895 | 0   | 2      | 97  | 5.785              | 4730  | 825     |

Table 92: Holter

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.104 | 0   | 0      | 5   | 0.348              | 11036 | 1909    |
| test  | 0.108 | 0   | 0      | 5   | 0.365              | 4730  | 825     |

Table 93: Teste de esforço

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.011 | 0   | 0      | 3   | 0.111              | 11036 | 1909    |
| test  | 0.009 | 0   | 0      | 2   | 0.098              | 4730  | 825     |

Table 94: Espirometria / Ergoespirometria

| split | Mean  | $\operatorname{Min}$ | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|----------------------|--------|-----|--------------------|-------|---------|
| train | 0.005 | 0                    | 0      | 2   | 0.072              | 11036 | 1909    |
| test  | 0.003 | 0                    | 0      | 2   | 0.062              | 4730  | 825     |

Table 95: Tilt Test

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.003 | 0   | 0      | 2   | 0.052              | 11036 | 1909    |
| test  | 0.002 | 0   | 0      | 1   | 0.048              | 4730  | 825     |

Table 96: Polissonografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.002 | 0   | 0      | 2   | 0.048              | 11036 | 1909    |
| test  | 0.001 | 0   | 0      | 1   | 0.032              | 4730  | 825     |

Table 97: Quantidade de exames por métodos gráficos

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 4.016 | 0   | 2      | 140 | 5.893              | 11036 | 1909    |
| test  | 4.019 | 0   | 2      | 97  | 5.937              | 4730  | 825     |

Table 98: Exames laboratoriais (exames bioquímicos, exames hematologia/coagulação, anticorpos, dosagem sérica de fármacos)

| split | Mean   | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|------|--------------------|-------|---------|
| train | 59.274 | 0   | 10     | 3474 | 167.706            | 11036 | 1909    |
| test  | 58.926 | 0   | 10     | 2125 | 163.406            | 4730  | 825     |

Table 99: Culturas (hemocultura, cultura de secreções, urocultura e cultura de cateteres)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.296 | 0   | 0      | 25  | 1.145              | 11036 | 1909    |
| test  | 0.286 | 0   | 0      | 21  | 1.118              | 4730  | 825     |

Table 100: Quantidade de exames de análises clínicas

| split         | Mean             | Min | Median   | Max    | Standard Deviation | N             | Missing     |
|---------------|------------------|-----|----------|--------|--------------------|---------------|-------------|
| train<br>test | 59.570<br>59.212 |     | 10<br>10 | 0 -0 . | 168.593<br>164.255 | 11036<br>4730 | 1909<br>825 |

Table 101: Citologias

| split | Mean  | $\operatorname{Min}$ | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|----------------------|--------|-----|--------------------|-------|---------|
| train | 0.006 | 0                    | 0      | 5   | 0.104              | 11036 | 1909    |
| test  | 0.005 | 0                    | 0      | 4   | 0.093              | 4730  | 825     |

Table 102: Biopsias (cardíaca, esterno, parede torácica, tumor em mediastino, pulmonar)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.014 | 0   | 0      | 10  | 0.237              | 11036 | 1909    |
| test  | 0.017 | 0   | 0      | 8   | 0.299              | 4730  | 825     |

Table 103: Quantidade de exames histopatológicos

| split           | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-----------------|-------|-----|--------|-----|--------------------|-------|---------|
| train           | 0.020 | 0   | 0      | 10  | 0.266              | 11036 | 1909    |
| $\mathbf{test}$ | 0.022 | 0   | 0      | 8   | 0.325              | 4730  | 825     |

Table 104: Angio RM

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.003 | 0   | 0      | 4   | 0.082              | 11036 | 1909    |
| test  | 0.005 | 0   | 0      | 2   | 0.093              | 4730  | 825     |

Table 105: Angio TC

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.033 | 0   | 0      | 4   | 0.22               | 11036 | 1909    |
| test  | 0.036 | 0   | 0      | 6   | 0.26               | 4730  | 825     |

Table 106: Angiografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.002 | 0   | 0      | 3   | 0.055              | 11036 | 1909    |
| test  | 0.002 | 0   | 0      | 1   | 0.039              | 4730  | 825     |

Table 107: Aortografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.002 | 0   | 0      | 2   | 0.049              | 11036 | 1909    |
| test  | 0.002 | 0   | 0      | 2   | 0.053              | 4730  | 825     |

Table 108: Arteriografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.001 | 0   | 0      | 1   | 0.023              | 11036 | 1909    |
| test  | 0.001 | 0   | 0      | 2   | 0.036              | 4730  | 825     |

Table 109: Cavografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.007 | 0   | 0      | 1   | 0.081              | 11036 | 1909    |
| test  | 0.008 | 0   | 0      | 1   | 0.090              | 4730  | 825     |

Table 110: Cintilografia

| split           | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-----------------|-------|-----|--------|-----|--------------------|-------|---------|
| train           | 0.065 | 0   | 0      | 4   | 0.350              | 11036 | 1909    |
| $\mathbf{test}$ | 0.065 | 0   | U      | 9   | 0.364              | 4730  | 825     |

Table 111: Ecocardiograma

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.529 | 0   | 0      | 24  | 1.197              | 11036 | 1909    |
| test  | 0.544 | 0   | 0      | 22  | 1.227              | 4730  | 825     |

Table 112: Exames endoscópicos (EDA, colonoscopia, retossigmoidoscopia, broncoscopia)

| split         | Mean          | Min | Median | Max | Standard Deviation | N             | Missing     |
|---------------|---------------|-----|--------|-----|--------------------|---------------|-------------|
| train<br>test | 0.015 $0.015$ | •   | 0      | 6   | 0.168<br>0.167     | 11036<br>4730 | 1909<br>825 |

Table 113: Flebografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.037 | 0   | 0      | 5   | 0.296              | 11036 | 1909    |
| test  | 0.031 | 0   | 0      | 5   | 0.268              | 4730  | 825     |

Table 114: PET-CT

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.005 | 0   | 0      | 2   | 0.074              | 11036 | 1909    |
| test  | 0.005 | 0   | 0      | 3   | 0.078              | 4730  | 825     |

Table 115: Ultrassom

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.172 | 0   | 0      | 14  | 0.779              | 11036 | 1909    |
| test  | 0.171 | 0   | 0      | 14  | 0.764              | 4730  | 825     |

Table 116: Tomografia

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.158 | 0   | 0      | 12  | 0.645              | 11036 | 1909    |
| test  | 0.154 | 0   | 0      | 15  | 0.679              | 4730  | 825     |

Table 117: Radiografias

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 2.985 | 0   | 2      | 192 | 7.209              | 11036 | 1909    |
| test  | 2.901 | 0   | 1      | 148 | 6.799              | 4730  | 825     |

Table 118: Ressonancia magnetica

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.073 | 0   | 0      | 4   | 0.304              | 11036 | 1909    |
| test  | 0.074 | 0   | 0      | 6   | 0.319              | 4730  | 825     |

Table 119: Quantidade de exames diagnóstico por imagem

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 4.089 | 0   | 2      | 232 | 9.003              | 11036 | 1909    |
| test  | 4.013 | 0   | 2      | 166 | 8.603              | 4730  | 825     |

Table 120: Dieta enteral (frasco)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.020 | 0   | 0      | 111 | 1.240              | 11036 | 2491    |
| test  | 0.072 | 0   | 0      | 115 | 2.484              | 4730  | 1077    |

Table 121: Dieta parenteral (frasco)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.001 | 0   | 0      | 3   | 0.048              | 11036 | 2491    |
| test  | 0.001 | 0   | 0      | 5   | 0.083              | 4730  | 1077    |

Table 122: Bomba de infusão contínua (horas)

| split | Mean  | $\operatorname{Min}$ | Median | Max  | Standard Deviation | N     | Missing |
|-------|-------|----------------------|--------|------|--------------------|-------|---------|
| train | 0.886 | 0                    | 0      | 1527 | 24.386             | 11036 | 2491    |
| test  | 1.063 | 0                    | 0      | 672  | 19.413             | 4730  | 1077    |

Table 123: Marca-passo temporário (por hora)

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.147 | 0   | 0      | 180 | 2.934              | 11036 | 2491    |
| test  | 0.183 | 0   | 0      | 102 | 3.207              | 4730  | 1077    |

Table 124: Número de procedimentos na admissão T0

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 1.014 | 1   | 1      | 5   | 0.136              | 11036 | 0       |
| test  | 1.017 | 1   | 1      | 3   | 0.145              | 4730  | 0       |

Table 125: Número de procedimentos em até 30 dias

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.008 | 0   | 0      | 3   | 0.101              | 11036 | 0       |
| test  | 0.008 | 0   | 0      | 2   | 0.089              | 4730  | 0       |

Table 126: Número de procedimentos em até 60 dias

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.009 | 0   | 0      | 3   | 0.102              | 11036 | 0       |
| test  | 0.009 | 0   | 0      | 2   | 0.104              | 4730  | 0       |

Table 127: Número de procedimentos em até 180 dias

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.014 | 0   | 0      | 4   | 0.140              | 11036 | 0       |
| test  | 0.010 | 0   | 0      | 3   | 0.108              | 4730  | 0       |

Table 128: Número de procedimentos em até 1 ano

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 0.011 | 0   | 0      | 3   | 0.122              | 11036 | 0       |
| test  | 0.012 | 0   | 0      | 3   | 0.132              | 4730  | 0       |

Table 129: Quantidade de classes medicamentosas de ação cardiovascular

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 3.097 | 1   | 3      | 10  | 1.773              | 11036 | 4545    |
| test  | 3.146 | 1   | 3      | 10  | 1.761              | 4730  | 1990    |

Table 130: Quantidade de medicamentos de ação cardiovascular

| split | Mean   | Min | Median | Max     | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|---------|--------------------|-------|---------|
| train | 43.997 | 0   | 9.5    | 5140.00 | 134.716            | 11036 | 2433    |
| test  | 44.085 | 0   | 10.0   | 2089.25 | 129.299            | 4730  | 1050    |

Table 131: Quantidade de antimicrobianos (antibióticos e antifúngicos)

| split | Mean   | Min | Median | Max  | Standard Deviation | N     | Missing |
|-------|--------|-----|--------|------|--------------------|-------|---------|
| train | 13.454 | 0   | 4      | 1626 | 58.787             | 11036 | 2433    |
| test  | 14.109 | 0   | 4      | 1812 | 64.748             | 4730  | 1050    |

Table 132: Tempo de permanência hospitalar

| split | Mean  | Min | Median | Max | Standard Deviation | N     | Missing |
|-------|-------|-----|--------|-----|--------------------|-------|---------|
| train | 7.938 | 0   | 3      | 241 | 13.119             | 11036 | 0       |
| test  | 8.097 | 0   | 3      | 360 | 14.158             | 4730  | 0       |

# Categorical variables

```
paste_matrix <- function(...,sep = " ", collapse = NULL){
    n <- max(sapply(list(...),nrow))
    p <- max(sapply(list(...),ncol))

matrix(paste(...,sep = sep,collapse = collapse),n,p)
}

percent <- function(x) pasteO("(", lapply(x, as.character), "%)")</pre>
```

```
addpercentage <- function(df, horizontal = FALSE) {</pre>
  if (horizontal) {
    x <- df %>%
      prop.table(margin = 1) %>%
      addmargins(FUN = list(Total = sum), quiet = TRUE) %>%
      round(2) * 100
    x[nrow(x),] \leftarrow ""
    x[-(nrow(x)),] \leftarrow lapply(x[-(nrow(x)),], percent)
  } else {
    x <- df %>%
      prop.table(margin = 2) %>%
      addmargins(FUN = list(Total = sum), quiet = TRUE) %>%
      round(2) * 100
    x[, ncol(x)] <- " "
    x[, -(ncol(x))] \leftarrow lapply(x[, -(ncol(x))], percent)
  y \leftarrow matrix(x, nrow = nrow(df) + 1)
  df <- df %>%
    addmargins(FUN = list(Total = sum), quiet = TRUE)
  df_final <- paste_matrix(df, y)</pre>
  rownames(df_final) <- rownames(df)</pre>
  colnames(df_final) <- colnames(df)</pre>
  return(df_final)
transpose_columns <- c()</pre>
df[columns_list$outcome_columns] <- lapply(df[columns_list$outcome_columns], as.character)</pre>
for (column in columns_list$categorical_columns) {
  transpose <- FALSE
  if (length(unique(df[[column]])) > 5) transpose <- TRUE</pre>
  variable_name <- df_names %>%
    filter(variable.name == column) %>%
    .$field.label
  abbreviated_name <- df_names %>%
    filter(variable.name == column) %>%
    .$field.label
  caption <- sprintf('Contingency table between %s and %s',
                      str_replace(outcome_column, "_", " "),
                      variable_name)
  if (transpose) {
    temp_table <- table(df[[column]],</pre>
                         df[[outcome_column]],
                         useNA = "ifany") %>%
      addpercentage(horizontal = TRUE)
    has_na <- df[[column]] %>% is.na() %>% sum > 0
    if (has na) {
      rownames(temp_table)[nrow(temp_table) - 1] <- "NA"
    }
```

```
t <- temp_table %>%
    as.data.frame %>%
    rownames_to_column(var = abbreviated_name) %>%
    kbl(align = "c", booktabs = T, digits = 2, format = 'latex',
        caption = caption, label = i) %>%
    row_spec(length(unique(df %>% .[[column]] %>% replace_na("NA"))),
             hline_after = T) %>%
    column_spec(3, border_right = T) %>%
    collapse_rows(1, latex_hline = "none") %>%
    add_header_above(c(setNames(1, ' '),
                       setNames(length(unique(df[[outcome_column]])),
                                outcome_column))) %>%
    kable_styling(latex_options = c("HOLD_position", "repeat_header"))
} else {
  temp_table <- table(df[[outcome_column]],</pre>
                      df[[column]],
                      useNA = "ifany") %>%
    addpercentage
  has_na <- df[[column]] %>% is.na() %>% sum > 0
  if (has_na) {
    colnames(temp_table) [ncol(temp_table) - 1] <- "NA"</pre>
  t <- temp_table %>%
    as.data.frame %>%
    rownames_to_column(var = outcome_column) %>%
    kbl(align = "c", booktabs = T, digits = 2, format = 'latex',
        caption = caption, label = i) %>%
    row_spec(2, hline_after = T) %>%
    column_spec(length(unique(df %>% .[[column]] %>% replace_na("NA"))) + 1,
                border_right = T) %>%
    collapse_rows(1, latex_hline = "none") %>%
    add_header_above(c(' ' = 1,
                       setNames(length(unique(df[[column]])),
                                abbreviated_name))) %>%
    kable_styling(latex_options = c("HOLD_position", "repeat_header"))
}
print(t)
i <- i + 1
```

Table 133: Contingency table between split and Sexo

|                        | XO                       |                          |               |
|------------------------|--------------------------|--------------------------|---------------|
| $\operatorname{split}$ | 0                        | 1                        | Total         |
| train<br>test          | 5209 (70%)<br>2240 (30%) | 5827 (70%)<br>2490 (30%) | 11036<br>4730 |
| Total                  | 7449 (100%)              | 8317 (100%)              | 15766         |

Table 134: Contingency table between split and Raça

|       | sp         |            |              |
|-------|------------|------------|--------------|
| Raça  | train      | test       | Total        |
| 1     | 9427 (70%) | 4026 (30%) | 13453 (100%) |
| 2     | 514~(66%)  | 270 (34%)  | 784 (100%)   |
| 3     | 483~(72%)  | 188 (28%)  | 671 (100%)   |
| 4     | 162~(74%)  | 56~(26%)   | 218 (100%)   |
| 5     | 2(100%)    | 0 (0%)     | 2 (100%)     |
| 999   | 397 (70%)  | 168 (30%)  | 565 (100%)   |
| NA    | 51 (70%)   | 22 (30%)   | 73 (100%)    |
| Total | 11036      | 4730       | 15766        |

Table 135: Contingency table between split and Escolaridade

|              | split          |            |             |  |  |  |
|--------------|----------------|------------|-------------|--|--|--|
| Escolaridade | train          | test       | Total       |  |  |  |
| 0            | 499 (69%)      | 228 (31%)  | 727 (100%)  |  |  |  |
| 1            | $657\ (70\%)$  | 278 (30%)  | 935 (100%)  |  |  |  |
| 2            | $2661\ (70\%)$ | 1160 (30%) | 3821 (100%) |  |  |  |
| 3            | $478 \ (71\%)$ | 193~(29%)  | 671 (100%)  |  |  |  |
| 4            | 849~(71%)      | 355~(29%)  | 1204 (100%) |  |  |  |
| 999          | 5579 (70%)     | 2370 (30%) | 7949 (100%) |  |  |  |
| NA           | 313~(68%)      | 146 (32%)  | 459 (100%)  |  |  |  |
| Total        | 11036          | 4730       | 15766       |  |  |  |

Table 136: Contingency table between split and Estado de residência

|                      | spl              |            |              |
|----------------------|------------------|------------|--------------|
| Estado de residência | train            | test       | Total        |
| 11                   | 9 (75%)          | 3 (25%)    | 12 (100%)    |
| 12                   | 9~(69%)          | 4 (31%)    | 13 (100%)    |
| 13                   | 5 (42%)          | 7~(58%)    | 12 (100%)    |
| 14                   | 1 (50%)          | 1~(50%)    | 2 (100%)     |
| 15                   | 7~(58%)          | 5~(42%)    | 12 (100%)    |
| 16                   | 2(100%)          | 0 (0%)     | 2 (100%)     |
| 17                   | 2(100%)          | 0 (0%)     | 2 (100%)     |
| 21                   | 3~(50%)          | 3~(50%)    | 6 (100%)     |
| 22                   | 9~(82%)          | 2(18%)     | 11 (100%)    |
| 23                   | 7 (78%)          | 2(22%)     | 9 (100%)     |
| 24                   | 5 (83%)          | 1(17%)     | 6 (100%)     |
| 25                   | 5~(62%)          | 3(38%)     | 8 (100%)     |
| 26                   | 14~(78%)         | 4(22%)     | 18 (100%)    |
| 27                   | 2(40%)           | 3~(60%)    | 5 (100%)     |
| 28                   | 5 (83%)          | 1(17%)     | 6 (100%)     |
| 29                   | 65~(65%)         | 35 (35%)   | 100 (100%)   |
| 31                   | 194~(72%)        | 76~(28%)   | 270 (100%)   |
| 32                   | 10~(91%)         | 1 (9%)     | 11 (100%)    |
| 33                   | 61~(71%)         | 25~(29%)   | 86 (100%)    |
| 35                   | $10141 \ (70\%)$ | 4306 (30%) | 14447 (100%) |
| 41                   | 36~(55%)         | 29~(45%)   | 65 (100%)    |
| 42                   | 17~(61%)         | 11 (39%)   | 28 (100%)    |
| 43                   | 4 (100%)         | 0 (0%)     | 4 (100%)     |
| 50                   | 10~(71%)         | 4(29%)     | 14 (100%)    |
| 51                   | 11 (69%)         | 5 (31%)    | 16 (100%)    |
| 52                   | 15~(65%)         | 8 (35%)    | 23 (100%)    |
| 53                   | 13~(76%)         | 4(24%)     | 17 (100%)    |
| NA                   | 374 (67%)        | 187 (33%)  | 561 (100%)   |
| Total                | 11036            | 4730       | 15766        |

Table 137: Contingency table between split and Doença cardíaca

|                 | sp         | lit        |             |
|-----------------|------------|------------|-------------|
| Doença cardíaca | train      | test       | Total       |
| 1               | 5719 (71%) | 2386 (29%) | 8105 (100%) |
| 2               | 734 (70%)  | 317 (30%)  | 1051 (100%) |
| 3               | 811 (71%)  | 332 (29%)  | 1143 (100%) |
| 4               | 870 (70%)  | 381 (30%)  | 1251 (100%) |
| 5               | 1208 (69%) | 544 (31%)  | 1752 (100%) |
| 6               | 230~(67%)  | 114 (33%)  | 344 (100%)  |
| 7               | 58 (65%)   | 31 (35%)   | 89 (100%)   |
| 8               | 19 (70%)   | 8 (30%)    | 27 (100%)   |
| 9               | 175~(71%)  | 71 (29%)   | 246 (100%)  |
| NA              | 1212~(69%) | 546 (31%)  | 1758 (100%) |
| Total           | 11036      | 4730       | 15766       |

Table 138: Contingency table between split and Doença cardíaca

|                        | Doença cardíaca  |                  |                  |                  |       |
|------------------------|------------------|------------------|------------------|------------------|-------|
| $\operatorname{split}$ | 0                | 1                | 2                | NA               | Total |
| train                  | 6453 (70%)       | 811 (71%)        | 2385 (69%)       | 1387 (69%)       | 11036 |
| test                   | 2703 (30%)       | 332 (29%)        | 1078 (31%)       | 617 (31%)        | 4730  |
| Total                  | $9156 \ (100\%)$ | $1143 \ (100\%)$ | $3463 \ (100\%)$ | $2004 \ (100\%)$ | 15766 |

Table 139: Contingency table between split and Classe funcional de IC (NYHA)

|                               | split      |            |             |  |  |
|-------------------------------|------------|------------|-------------|--|--|
| Classe funcional de IC (NYHA) | train      | test       | Total       |  |  |
| 1                             | 2330 (70%) | 1010 (30%) | 3340 (100%) |  |  |
| 2                             | 1883 (71%) | 772 (29%)  | 2655 (100%) |  |  |
| 3                             | 800 (68%)  | 382 (32%)  | 1182 (100%) |  |  |
| 4                             | 119 (73%)  | 45~(27%)   | 164 (100%)  |  |  |
| 999                           | 7 (70%)    | 3 (30%)    | 10 (100%)   |  |  |
| NA                            | 5897 (70%) | 2518 (30%) | 8415 (100%) |  |  |
| Total                         | 11036      | 4730       | 15766       |  |  |

Table 140: Contingency table between split and Classe funcional de IC (NYHA)

|                        | Classe funcional de IC (NYHA) |                        |                          |               |  |
|------------------------|-------------------------------|------------------------|--------------------------|---------------|--|
| $\operatorname{split}$ | 1                             | 2                      | NA                       | Total         |  |
| train<br>test          | 4213 (70%)<br>1782 (30%)      | 919 (68%)<br>427 (32%) | 5904 (70%)<br>2521 (30%) | 11036<br>4730 |  |
| Total                  | 5995 (100%)                   | 1346 (100%)            | 8425 (100%)              | 15766         |  |

Table 141: Contingency table between split and Hipertensão arterial

|                        | Hipertensâ        |             |       |  |  |
|------------------------|-------------------|-------------|-------|--|--|
| $\operatorname{split}$ | 0                 | 0 1         |       |  |  |
| train                  | 8361 (70%)        | 2675 (70%)  | 11036 |  |  |
| test                   | 3572 (30%)        | 1158 (30%)  | 4730  |  |  |
| Total                  | $11933 \ (100\%)$ | 3833 (100%) | 15766 |  |  |

Table 142: Contingency table between split and Infarto do miocárdio prévio / Doença arterial coronariana

|               | Infarto do mioc           | árdio prévio / Doença arterial coronariana |               |
|---------------|---------------------------|--|---------------|
| split         | 0                         | 1  | Total         |
| train<br>test | 10017 (70%)<br>4306 (30%) | 1019 (71%)<br>424 (29%)                    | 11036<br>4730 |
| Total         | 14323 (100%)              | 1443 (100%)                                | 15766         |

Table 143: Contingency table between split and Insuficiência cardíaca

|   | $\operatorname{split}$ | 0                        | 1                        | Total         |
|---|------------------------|--------------------------|--------------------------|---------------|
|   | train<br>test          | 7122 (70%)<br>3003 (30%) | 3914 (69%)<br>1727 (31%) | 11036<br>4730 |
| - | Total                  | 10125 (100%)             | 5641 (100%)              | 15766         |

Table 144: Contingency table between split and Fibrilação / flutter atrial

|                        | Fibrilação /             | flutter atrial          |               |
|------------------------|--------------------------|-------------------------|---------------|
| $\operatorname{split}$ | 0                        | 1                       | Total         |
| train<br>test          | 9404 (70%)<br>3979 (30%) | 1632 (68%)<br>751 (32%) | 11036<br>4730 |
| Total                  | 13383 (100%)             | 2383 (100%)             | 15766         |

Table 145: Contingency table between split and Parada cardíaca prévia/ Taquicardia ventricular instável

|               | Parada cardíaca          |                         |               |
|---------------|--------------------------|-------------------------|---------------|
| split         | 0                        | 1                       | Total         |
| train<br>test | 9737 (70%)<br>4136 (30%) | 1299 (69%)<br>594 (31%) | 11036<br>4730 |
| Total         | 13873 (100%)             | 1893 (100%)             | 15766         |

Table 146: Contingency table between split and Transplante cardíaco prévio

|               | Transplante car           |                    |               |
|---------------|---------------------------|--------------------|---------------|
| split         | 0                         | 1                  | Total         |
| train<br>test | 11027 (70%)<br>4727 (30%) | 9 (75%)<br>3 (25%) | 11036<br>4730 |
| Total         | 15754 (100%)              | 12 (100%)          | 15766         |

Table 147: Contingency table between split and Valvopatias/ Prótese valvares

|               | Valvopatias/ P            |                        |               |
|---------------|---------------------------|------------------------|---------------|
| split         | 0                         | 1                      | Total         |
| train<br>test | 10307 (70%)<br>4405 (30%) | 729 (69%)<br>325 (31%) | 11036<br>4730 |
| Total         | 14712 (100%)              | 1054 (100%)            | 15766         |

Table 148: Contingency table between split and Endocardite prévia

| split         | 0                         | 1                    | Total         |
|---------------|---------------------------|----------------------|---------------|
| train<br>test | 10945 (70%)<br>4688 (30%) | 91 (68%)<br>42 (32%) | 11036<br>4730 |
| Total         | 15633 (100%)              | 133 (100%)           | 15766         |

Table 149: Contingency table between split and Diabetes melittus

|               | Diabetes                 | melittus                |               |
|---------------|--------------------------|-------------------------|---------------|
| split         | 0                        | 1                       | Total         |
| train<br>test | 9720 (70%)<br>4170 (30%) | 1316 (70%)<br>560 (30%) | 11036<br>4730 |
| Total         | 13890 (100%)             | 1876 (100%)             | 15766         |

Table 150: Contingency table between split and Insuficiência renal crônica

|               | Insuficiência r           |                        |               |
|---------------|---------------------------|------------------------|---------------|
| split         | 0                         | 1                      | Total         |
| train<br>test | 10594 (70%)<br>4552 (30%) | 442 (71%)<br>178 (29%) | 11036<br>4730 |
| Total         | 15146 (100%)              | 620 (100%)             | 15766         |

Table 151: Contingency table between split and Hemodiálise

| Hemodiálise            |                           |                     |               |  |  |  |
|------------------------|---------------------------|---------------------|---------------|--|--|--|
| $\operatorname{split}$ | 0                         | 1                   | Total         |  |  |  |
| train<br>test          | 11022 (70%)<br>4725 (30%) | 14 (74%)<br>5 (26%) | 11036<br>4730 |  |  |  |
| Total                  | 15747 (100%)              | 19 (100%)           | 15766         |  |  |  |

Table 152: Contingency table between split and Acidente Vascular Cerebral/ Acidente isquêmico transitório prévios

|                        | Acidente Vascula | ar Cerebral/ Acidente isquêmico transitório prévios |       |
|------------------------|------------------|---|-------|
| $\operatorname{split}$ | 0                | 1   | Total |
| train                  | 10694 (70%)      | 342 (69%)   | 11036 |
| test                   | 4573 (30%)       | 157 (31%)   | 4730  |
| Total                  | $15267\ (100\%)$ | 499~(100%)  | 15766 |

Table 153: Contingency table between split and Doença pulmonar obstrutiva crônica

|               | Doença pulmona            |                       |               |
|---------------|---------------------------|-----------------------|---------------|
| split         | 0                         | 1                     | Total         |
| train<br>test | 10884 (70%)<br>4669 (30%) | 152 (71%)<br>61 (29%) | 11036<br>4730 |
| Total         | 15553 (100%)              | 213 (100%)            | 15766         |

Table 154: Contingency table between split and Neoplasia em tratamento ou tratada recentemente (12 meses)

|                        | Neoplasia em tratamento ou tratada recentemente (12 meses) |                      |               |  |  |
|------------------------|--|----------------------|---------------|--|--|
| $\operatorname{split}$ | 0  | 1                    | Total         |  |  |
| train<br>test          | 10969 (70%)<br>4684 (30%)                                  | 67 (59%)<br>46 (41%) | 11036<br>4730 |  |  |
| Total                  | 15653 (100%)   | 113 (100%)           | 15766         |  |  |

Table 155: Contingency table between split and Tipo de Procedimento 1

|               | Tipo de Procedimento 1   |                          |               |  |  |
|---------------|--------------------------|--------------------------|---------------|--|--|
| split         | 1                        | 2                        | Total         |  |  |
| train<br>test | 7634 (70%)<br>3278 (30%) | 3402 (70%)<br>1452 (30%) | 11036<br>4730 |  |  |
| Total         | 10912 (100%)             | 4854 (100%)              | 15766         |  |  |

Table 156: Contingency table between split and Tipo de Reoperação  $1\,$ 

| Tipo de Reoperação 1   |                          |                        |                      |                          |               |
|------------------------|--------------------------|------------------------|----------------------|--------------------------|---------------|
| $\operatorname{split}$ | 1                        | 2                      | 3                    | NA                       | Total         |
| train<br>test          | 2729 (70%)<br>1183 (30%) | 651 (72%)<br>258 (28%) | 22 (67%)<br>11 (33%) | 7634 (70%)<br>3278 (30%) | 11036<br>4730 |
| Total                  | 3912 (100%)              | 909 (100%)             | 33 (100%)            | 10912 (100%)             | 15766         |

Table 157: Contingency table between split and Tipo de Procedimento 1 (merge: procedure type com reop type)

|                        | Tipo de Procedimento 1 (merge: procedure type com reop type) |                 |            |           |       |
|------------------------|--|-----------------|------------|-----------|-------|
| $\operatorname{split}$ | 1  | 2               | 3          | 4         | Total |
| train                  | 7634 (70%)   | 2729 (70%)      | 651 (72%)  | 22 (67%)  | 11036 |
| test                   | 3278 (30%)   | 1183 (30%)      | 258 (28%)  | 11 (33%)  | 4730  |
| Total                  | $10912\ (100\%)$   | $3912\ (100\%)$ | 909~(100%) | 33~(100%) | 15766 |

Table 158: Contingency table between split and Tipo de Dispositivo ao final do procedimento 1

|                        | Tipo de I         | Tipo de Dispositivo ao final do procedimento 1 |                 |                 |       |  |  |
|------------------------|-------------------|--|-----------------|-----------------|-------|--|--|
| $\operatorname{split}$ | 1                 | 2  | 3               | 4               | Total |  |  |
| train                  | 8606 (70%)        | 1236 (70%)                                     | 870 (69%)       | 324 (73%)       | 11036 |  |  |
| test                   | 3689 (30%)        | 536 (30%)                                      | 384 (31%)       | 121 (27%)       | 4730  |  |  |
| Total                  | $12295 \ (100\%)$ | $1772 \ (100\%)$                               | $1254\ (100\%)$ | $445 \ (100\%)$ | 15766 |  |  |

Table 159: Contingency table between split and Tipo de Dispositivo ao final do procedimento 1

|                        | Tipo de Dispositi |             |       |
|------------------------|-------------------|-------------|-------|
| $\operatorname{split}$ | 1                 | 2           | Total |
| train                  | 9842 (70%)        | 1194 (70%)  | 11036 |
| test                   | 4225 (30%)        | 505 (30%)   | 4730  |
| Total                  | 14067 (100%)      | 1699 (100%) | 15766 |

Table 160: Contingency table between split and Óbito intraoperatório 1

|                        | Óbito intraoperatório 1   |               |
|------------------------|---------------------------|---------------|
| $\operatorname{split}$ | 0                         | Total         |
| train<br>test          | 11036 (70%)<br>4730 (30%) | 11036<br>4730 |
| Total                  | 15766 (100%)              | 15766         |

Table 161: Contingency table between split and Tipo de Reoperação 2

| Tipo de Reoperação 2   |                          |                         |                      |                          |               |  |
|------------------------|--------------------------|-------------------------|----------------------|--------------------------|---------------|--|
| $\operatorname{split}$ | 1                        | 2                       | 3                    | NA                       | Total         |  |
| train<br>test          | 2222 (68%)<br>1037 (32%) | 1008 (68%)<br>466 (32%) | 85 (70%)<br>36 (30%) | 7721 (71%)<br>3191 (29%) | 11036<br>4730 |  |
| Total                  | 3259 (100%)              | 1474 (100%)             | 121 (100%)           | 10912 (100%)             | 15766         |  |

Table 162: Contingency table between split and Tipo de Dispositivo ao final do procedimento 2

|                        | Tipo de Dispositivo ao final do procedimento 2 |                |                |                |                  |       |  |
|------------------------|--|----------------|----------------|----------------|------------------|-------|--|
| $\operatorname{split}$ | 1  | 2              | 3              | 4              | NA               | Total |  |
| train                  | 2460 (68%)                                     | 439 (68%)      | 274 (71%)      | 142 (70%)      | 7721 (71%)       | 11036 |  |
| test                   | 1163 (32%)                                     | 203 (32%)      | 113 (29%)      | 61 (30%)       | 3190 (29%)       | 4730  |  |
| Total                  | $3623\ (100\%)$                                | $642\ (100\%)$ | $387\ (100\%)$ | $203\ (100\%)$ | $10911\ (100\%)$ | 15766 |  |

Table 163: Contingency table between split and Óbito intraoperatório 2

| split         | 0                        | NA                       | Total         |
|---------------|--------------------------|--------------------------|---------------|
| train<br>test | 3317 (68%)<br>1544 (32%) | 7719 (71%)<br>3186 (29%) | 11036<br>4730 |
| Total         | 4861 (100%)              | 10905 (100%)             | 15766         |

Table 164: Contingency table between split and Tipo de Reoperação  $3\,$ 

|                        | Tipo de Reoperação 3   |                        |                      |                           |               |  |
|------------------------|------------------------|------------------------|----------------------|---------------------------|---------------|--|
| $\operatorname{split}$ | 1                      | 2                      | 3                    | NA                        | Total         |  |
| train<br>test          | 512 (71%)<br>211 (29%) | 410 (71%)<br>168 (29%) | 42 (68%)<br>20 (32%) | 10072 (70%)<br>4331 (30%) | 11036<br>4730 |  |
| Total                  | 723 (100%)             | 578 (100%)             | 62 (100%)            |                           | 15766         |  |

Table 165: Contingency table between split and Tipo de Dispositivo ao final do procedimento 3

|                        | Tipo de Dispositivo ao final do procedimento 3 |                |            |           |                  |       |  |
|------------------------|--|----------------|------------|-----------|------------------|-------|--|
| $\operatorname{split}$ | 1  | 2              | 3          | 4         | NA               | Total |  |
| train                  | 691 (72%)                                      | 164 (65%)      | 113 (71%)  | 68 (69%)  | 10000 (70%)      | 11036 |  |
| test                   | 275 (28%)                                      | 87 (35%)       | 47 (29%)   | 31 (31%)  | 4290 (30%)       | 4730  |  |
| Total                  | 966~(100%)                                     | $251\ (100\%)$ | 160~(100%) | 99 (100%) | $14290\ (100\%)$ | 15766 |  |

Table 166: Contingency table between split and Óbito intraoperatório 3

| Óbito intraoperatório 3 |                         |                    |                          |               |  |  |  |
|-------------------------|-------------------------|--------------------|--------------------------|---------------|--|--|--|
| split                   | 0                       | 1                  | NA                       | Total         |  |  |  |
| train<br>test           | 1034 (70%)<br>439 (30%) | 3 (75%)<br>1 (25%) | 9999 (70%)<br>4290 (30%) | 11036<br>4730 |  |  |  |
| Total                   | 1473 (100%)             | 4 (100%)           | 14289 (100%)             | 15766         |  |  |  |

Table 167: Contingency table between split and Tipo de Reoperação 4

|                        | Tipo de Reoperação 4  |                       |                      |                           |               |  |
|------------------------|-----------------------|-----------------------|----------------------|---------------------------|---------------|--|
| $\operatorname{split}$ | 1                     | 2                     | 3                    | NA                        | Total         |  |
| train<br>test          | 139 (72%)<br>53 (28%) | 166 (66%)<br>85 (34%) | 21 (64%)<br>12 (36%) | 10710 (70%)<br>4580 (30%) | 11036<br>4730 |  |
| Total                  | 192 (100%)            | 251 (100%)            | 33 (100%)            | 15290 (100%)              | 15766         |  |

Table 168: Contingency table between split and Tipo de Dispositivo ao final do procedimento 4

|                        | Tipo de Dispositivo ao final do procedimento 4 |            |           |               |                  |       |
|------------------------|--|------------|-----------|---------------|------------------|-------|
| $\operatorname{split}$ | 1  | 2          | 3         | 4             | NA               | Total |
| train                  | 199 (69%)                                      | 73 (66%)   | 30 (67%)  | 28 (67%)      | 10706 (70%)      | 11036 |
| test                   | 89 (31%)                                       | 37 (34%)   | 15 (33%)  | 14 (33%)      | 4575 (30%)       | 4730  |
| Total                  | $288 \ (100\%)$                                | 110~(100%) | 45~(100%) | $42\ (100\%)$ | $15281\ (100\%)$ | 15766 |

Table 169: Contingency table between split and Óbito intraoperatório 4

| Óbito intraoperatório 4 |                        |                           |               |  |  |  |
|-------------------------|------------------------|---------------------------|---------------|--|--|--|
| split                   | 0                      | NA                        | Total         |  |  |  |
| train<br>test           | 330 (68%)<br>155 (32%) | 10706 (70%)<br>4575 (30%) | 11036<br>4730 |  |  |  |
| Total                   | 485 (100%)             | 15281 (100%)              | 15766         |  |  |  |

Table 170: Contingency table between split and Tipo de Reoperação  $5\,$ 

|                        | Tipo de Reoperação 5 |                      |                    |                           |               |  |
|------------------------|----------------------|----------------------|--------------------|---------------------------|---------------|--|
| $\operatorname{split}$ | 1                    | 2                    | 3                  | NA                        | Total         |  |
| train<br>test          | 50 (70%)<br>21 (30%) | 69 (65%)<br>37 (35%) | 9 (64%)<br>5 (36%) | 10908 (70%)<br>4667 (30%) | 11036<br>4730 |  |
| Total                  | 71 (100%)            | 106 (100%)           | 14 (100%)          | 15575 (100%)              | 15766         |  |

Table 171: Contingency table between split and Tipo de Dispositivo ao final do procedimento 5

| Tipo de Dispositivo ao final do procedimento 5 |            |           |           |           |                  |       |
|--|------------|-----------|-----------|-----------|------------------|-------|
| $\operatorname{split}$                         | 1          | 2         | 3         | 4         | NA               | Total |
| train  | 70 (70%)   | 36 (64%)  | 16 (73%)  | 6 (46%)   | 10908 (70%)      | 11036 |
| test   | 30 (30%)   | 20 (36%)  | 6~(27%)   | 7 (54%)   | 4667 (30%)       | 4730  |
| Total  | 100 (100%) | 56 (100%) | 22 (100%) | 13 (100%) | $15575\ (100\%)$ | 15766 |

Table 172: Contingency table between split and Óbito intraoperatório 5

| split         | 0                     | NA                        | Total         |
|---------------|-----------------------|---------------------------|---------------|
| train<br>test | 129 (67%)<br>63 (33%) | 10907 (70%)<br>4667 (30%) | 11036<br>4730 |
| Total         | 192 (100%)            | 15574 (100%)              | 15766         |

Table 173: Contingency table between split and Tipo de Reoperação  $6\,$ 

|                        | Tipo de Reoperação 6 |                      |                    |                           |               |  |
|------------------------|----------------------|----------------------|--------------------|---------------------------|---------------|--|
| $\operatorname{split}$ | 1                    | 2                    | 3                  | NA                        | Total         |  |
| train test             | 19 (73%)<br>7 (27%)  | 34 (74%)<br>12 (26%) | 4 (67%)<br>2 (33%) | 10979 (70%)<br>4709 (30%) | 11036<br>4730 |  |
| Total                  | 26 (100%)            | 46 (100%)            | 6 (100%)           | 15688 (100%)              | 15766         |  |

Table 174: Contingency table between split and Tipo de Dispositivo ao final do procedimento 6

| Tipo de Dispositivo ao final do procedimento 6 |           |           |          |          |                   |       |
|--|-----------|-----------|----------|----------|-------------------|-------|
| $\operatorname{split}$                         | 1         | 2         | 3        | 4        | NA                | Total |
| train  | 30 (75%)  | 16 (64%)  | 5 (71%)  | 8 (89%)  | 10977 (70%)       | 11036 |
| test   | 10~(25%)  | 9 (36%)   | 2(29%)   | 1 (11%)  | 4708 (30%)        | 4730  |
| Total  | 40 (100%) | 25~(100%) | 7 (100%) | 9 (100%) | $15685 \ (100\%)$ | 15766 |

Table 175: Contingency table between split and Óbito intraoperatório 6

| Óbito intraoperatório 6 |                      |                           |               |  |  |
|-------------------------|----------------------|---------------------------|---------------|--|--|
| split                   | 0                    | NA                        | Total         |  |  |
| train<br>test           | 59 (73%)<br>22 (27%) | 10977 (70%)<br>4708 (30%) | 11036<br>4730 |  |  |
| Total                   | 81 (100%)            | 15685 (100%)              | 15766         |  |  |

Table 176: Contingency table between split and Tipo de Reoperação 7

| Tipo de Reoperação 7 |                    |                     |                    |                           |               |  |
|----------------------|--------------------|---------------------|--------------------|---------------------------|---------------|--|
| split                | 1                  | 2                   | 3                  | NA                        | Total         |  |
| train                | 7 (70%)<br>3 (30%) | 13 (72%)<br>5 (28%) | 2 (50%)<br>2 (50%) | 11014 (70%)<br>4720 (30%) | 11036<br>4730 |  |
| Total                | 10 (100%)          | 18 (100%)           | 4 (100%)           | 15734 (100%)              | 15766         |  |

Table 177: Contingency table between split and Tipo de Dispositivo ao final do procedimento 7

| Tipo de Dispositivo ao final do procedimento 7 |           |           |          |          |                  |       |
|--|-----------|-----------|----------|----------|------------------|-------|
| $\operatorname{split}$                         | 1         | 2         | 3        | 4        | NA               | Total |
| train  | 9 (69%)   | 9 (69%)   | 0 (0%)   | 4 (100%) | 11014 (70%)      | 11036 |
| test   | 4 (31%)   | 4 (31%)   | 1 (100%) | 0 (0%)   | 4721 (30%)       | 4730  |
| Total  | 13~(100%) | 13~(100%) | 1 (100%) | 4 (100%) | $15735\ (100\%)$ | 15766 |

Table 178: Contingency table between split and Óbito intraoperatório 7

|               | Óbito intraoperatório 7 |                           |               |  |  |  |
|---------------|-------------------------|---------------------------|---------------|--|--|--|
| split         | 0                       | NA                        | Total         |  |  |  |
| train<br>test | 22 (69%)<br>10 (31%)    | 11014 (70%)<br>4720 (30%) | 11036<br>4730 |  |  |  |
| Total         | 32 (100%)               | 15734 (100%)              | 15766         |  |  |  |

Table 179: Contingency table between split and Tipo de Reoperação  $8\,$ 

|               | Ti                 | eração 8           |                           |               |
|---------------|--------------------|--------------------|---------------------------|---------------|
| split         | 1                  | 2                  | NA                        | Total         |
| train<br>test | 3 (100%)<br>0 (0%) | 5 (56%)<br>4 (44%) | 11028 (70%)<br>4726 (30%) | 11036<br>4730 |
| Total         | 3 (100%)           | 9 (100%)           | 15754 (100%)              | 15766         |

Table 180: Contingency table between split and Tipo de Dispositivo ao final do procedimento 8

|                        | Tipo de I          | Tipo de Dispositivo ao final do procedimento 8 |                    |                           |               |  |
|------------------------|--------------------|--|--------------------|---------------------------|---------------|--|
| $\operatorname{split}$ | 1                  | 2  | 4                  | NA                        | Total         |  |
| train<br>test          | 5 (71%)<br>2 (29%) | 2 (50%)<br>2 (50%)                             | 1 (100%)<br>0 (0%) | 11028 (70%)<br>4726 (30%) | 11036<br>4730 |  |
| Total                  | 7 (100%)           | 4 (100%)                                       | 1 (100%)           | 15754 (100%)              | 15766         |  |

Table 181: Contingency table between split and Óbito intraoperatório 8

| Óbito intraoperatório 8 |                    |                           |               |  |
|-------------------------|--------------------|---------------------------|---------------|--|
| split                   | 0                  | NA                        | Total         |  |
| train<br>test           | 8 (67%)<br>4 (33%) | 11028 (70%)<br>4726 (30%) | 11036<br>4730 |  |
| Total                   | 12 (100%)          | 15754 (100%)              | 15766         |  |

Table 182: Contingency table between split and Tipo de Reoperação 9

| split | 2                  | NA                        | Total         |
|-------|--------------------|---------------------------|---------------|
| train | 2 (40%)<br>3 (60%) | 11034 (70%)<br>4727 (30%) | 11036<br>4730 |
| Total | 5 (100%)           | 15761 (100%)              | 15766         |

Table 183: Contingency table between split and Tipo de Dispositivo ao final do procedimento 9

|                        | Tipo de D |          |                   |       |
|------------------------|-----------|----------|-------------------|-------|
| $\operatorname{split}$ | 1         | 2        | NA                | Total |
| train                  | 1 (33%)   | 1 (50%)  | 11034 (70%)       | 11036 |
| test                   | 2 (67%)   | 1 (50%)  | 4727 (30%)        | 4730  |
| Total                  | 3 (100%)  | 2 (100%) | $15761 \ (100\%)$ | 15766 |

Table 184: Contingency table between split and Óbito intraoperatório 9

| Óbito intraoperatório 9 |                    |                           |               |  |
|-------------------------|--------------------|---------------------------|---------------|--|
| split                   | 0                  | NA                        | Total         |  |
| train<br>test           | 2 (40%)<br>3 (60%) | 11034 (70%)<br>4727 (30%) | 11036<br>4730 |  |
| Total                   | 5 (100%)           | 15761 (100%)              | 15766         |  |

Table 185: Contingency table between split and Tipo de Reoperação 10

|               | Tipo de I          | Tipo de Reoperação 10     |               |  |  |
|---------------|--------------------|---------------------------|---------------|--|--|
| split         | 2                  | NA                        | Total         |  |  |
| train<br>test | 1 (100%)<br>0 (0%) | 11035 (70%)<br>4730 (30%) | 11036<br>4730 |  |  |
| Total         | 1 (100%)           | 15765 (100%)              | 15766         |  |  |

Table 186: Contingency table between split and Tipo de Dispositivo ao final do procedimento 10

|                        | Tipo de Dis        | Tipo de Dispositivo ao final do procedimento $10$ |               |  |  |
|------------------------|--------------------|---|---------------|--|--|
| $\operatorname{split}$ | 2                  | NA  | Total         |  |  |
| train                  | 1 (100%)<br>0 (0%) | 11035 (70%)<br>4730 (30%)                         | 11036<br>4730 |  |  |
|                        | 1 (100%)           | 15765 (100%)                                      | 15766         |  |  |

Table 187: Contingency table between split and Óbito intraoperatório 10

|               | Óbito intr         | aoperatório 10            |               |
|---------------|--------------------|---------------------------|---------------|
| split         | 0                  | NA                        | Total         |
| train<br>test | 1 (100%)<br>0 (0%) | 11035 (70%)<br>4730 (30%) | 11036<br>4730 |
| Total         | 1 (100%)           | 15765 (100%)              | 15766         |

Table 188: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 1 e Procedimento 2

|                        | Mudança do t    | ipo de DCEI:   | entre o Procedimento 1 e Procedimento 2 |       |
|------------------------|-----------------|----------------|---|-------|
| $\operatorname{split}$ | 0               | 1              | NA                                      | Total |
| train                  | 3121 (68%)      | 194 (70%)      | 7721 (71%)                              | 11036 |
| test                   | 1455 (32%)      | 85 (30%)       | 3190 (29%)                              | 4730  |
| Total                  | $4576\ (100\%)$ | $279\ (100\%)$ | 10911 (100%)                            | 15766 |

Table 189: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 2 e Procedimento 3

|                        | Mudança do t | tipo de DCEI | : entre o Procedimento 2 e Procedimento 3 |       |
|------------------------|--------------|--------------|---|-------|
| $\operatorname{split}$ | 0            | 1            | NA  | Total |
| train                  | 971 (70%)    | 65 (69%)     | 10000 (70%)                               | 11036 |
| test                   | 411 (30%)    | 29 (31%)     | 4290 (30%)                                | 4730  |
| Total                  | 1382 (100%)  | 94 (100%)    | 14290 (100%)                              | 15766 |

Table 190: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 3 e Procedimento 4

|                        | Mudança do             | tipo de DCE         | II: entre o Procedimento 3 e Procedimento 4 |  |
|------------------------|------------------------|---------------------|---|--|
| $\operatorname{split}$ | 0                      | 1                   | NA  | Total  |
| train                  | 311 (68%)<br>146 (32%) | 19 (68%)<br>9 (32%) | 10706 (70%)                                 | 11036  |
| Total                  | 457 (100%)             |                     | 4575 (30%)<br>15281 (100%)                  | $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ |

Table 191: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 4 e Procedimento 5

|                        | Mudança do            | tipo de DC         | EI: entre o Procedimento 4 e Procedimento 5 |               |
|------------------------|-----------------------|--------------------|---|---------------|
| $\operatorname{split}$ | 0                     | 1                  | NA  | Total         |
| train                  | 122 (67%)<br>60 (33%) | 6 (67%)<br>3 (33%) | 10908 (70%)<br>4667 (30%)                   | 11036<br>4730 |
| Total                  | 182 (100%)            |                    | 15575 (100%)                                | 15766         |

 $\begin{table} Table 192: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 5 e Procedimento 6 \\ \end{table}$ 

|                        | Mudança d | o tipo de DO | CEI: entre o Procedimento 5 e Procedimento 6 |       |
|------------------------|-----------|--------------|--|-------|
| $\operatorname{split}$ | 0         | 1            | NA   | Total |
| train                  | 54 (73%)  | 5 (71%)      | 10977 (70%)                                  | 11036 |
| test                   | 20 (27%)  | 2 (29%)      | 4708 (30%)                                   | 4730  |
| Total                  | 74 (100%) | 7~(100%)     | $15685\ (100\%)$                             | 15766 |

Table 193: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 6 e Procedimento 7

|                        | Mudança d           | o tipo de DO       | CEI: entre o Procedimento 6 e Procedimento 7 |               |
|------------------------|---------------------|--------------------|--|---------------|
| $\operatorname{split}$ | 0                   | 1                  | NA   | Total         |
| train<br>test          | 20 (71%)<br>8 (29%) | 2 (67%)<br>1 (33%) | 11014 (70%)<br>4721 (30%)                    | 11036<br>4730 |
| Total                  | 28 (100%)           | 3 (100%)           | 15735 (100%)                                 | 15766         |

Table 194: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 7 e Procedimento 8

|                        | Mudança do tipo de DCEI: entre o Procedimento 7 e Procedimento 8 |          |              |       |
|------------------------|--|----------|--------------|-------|
| $\operatorname{split}$ | 0  | 1        | NA           | Total |
| train                  | 8 (73%)  | 0 (0%)   | 11028 (70%)  | 11036 |
| test                   | 3 (27%)  | 1 (100%) | 4726 (30%)   | 4730  |
| Total                  | 11 (100%)  | 1~(100%) | 15754~(100%) | 15766 |

Table 195: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9

|                        | Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9 |              |       |
|------------------------|--|--------------|-------|
| $\operatorname{split}$ | 0  | NA           | Total |
| train                  | 2 (40%)  | 11034 (70%)  | 11036 |
| test                   | 3 (60%)  | 4727 (30%)   | 4730  |
| Total                  | 5~(100%)   | 15761 (100%) | 15766 |

Table 196: Contingency table between split and Mudança do tipo de DCEI: entre o Procedimento 9 e Procedimento 10

|                        | Mudança d    | do tipo de DCEI: entre o Procedimento 9 e Procedimento 10 |       |
|------------------------|--------------|---|-------|
| $\operatorname{split}$ | 0            | NA  | Total |
| train                  | 1 (100%)     | 11035 (70%)   | 11036 |
| test                   | 0 (0%)       | 4730 (30%)  | 4730  |
| Total                  | $1\ (100\%)$ | $15765 \; (100\%)$  | 15766 |

Table 197: Contingency table between split and Diálise durante os episódios de hospitalização

|               | Diálise durante d         |                      |               |
|---------------|---------------------------|----------------------|---------------|
| split         | 0                         | 1                    | Total         |
| train<br>test | 11004 (70%)<br>4718 (30%) | 32 (73%)<br>12 (27%) | 11036<br>4730 |
| Total         | 15722 (100%)              | 44 (100%)            | 15766         |

Table 198: Contingency table between split and UTI durante os episódios de hospitalização

|                        | UTI durante os    |                 |       |
|------------------------|-------------------|-----------------|-------|
| $\operatorname{split}$ | 0                 | 1               | Total |
| train                  | 8823 (70%)        | 2213 (69%)      | 11036 |
| test                   | 3732 (30%)        | 998 (31%)       | 4730  |
| Total                  | $12555 \ (100\%)$ | $3211\ (100\%)$ | 15766 |

Table 199: Contingency table between split and Admissão em até 180 dias antes da T0

|               | Admissão em at            | té 180 dias antes da T0 |               |
|---------------|---------------------------|-------------------------|---------------|
| split         | 0                         | 1                       | Total         |
| train<br>test | 10284 (70%)<br>4412 (30%) | 752 (70%)<br>318 (30%)  | 11036<br>4730 |
| Total         | 14696 (100%)              | 1070 (100%)             | 15766         |

Table 200: Contingency table between split and Readmissões pós-T0 com diárias de UTI

|                                       | sp          | split      |              |  |
|---------------------------------------|-------------|------------|--------------|--|
| Readmissões pós-T0 com diárias de UTI | train       | test       | Total        |  |
| 0                                     | 10712 (70%) | 4558 (30%) | 15270 (100%) |  |
| 1                                     | 300 (66%)   | 152 (34%)  | 452 (100%)   |  |
| 2                                     | 20~(57%)    | 15 (43%)   | 35 (100%)    |  |
| 3                                     | 3~(60%)     | 2(40%)     | 5 (100%)     |  |
| 4                                     | 0 (0%)      | 2(100%)    | 2 (100%)     |  |
| 5                                     | 1 (100%)    | 0 (0%)     | 1 (100%)     |  |
| 7                                     | 0 (0%)      | 1 (100%)   | 1 (100%)     |  |
| Total                                 | 11036       | 4730       | 15766        |  |

Table 201: Contingency table between split and Readmissões pós-T0 com diálise

|               | Readmissões pós-T0 com diálise |                     |                    |                    |               |
|---------------|--------------------------------|---------------------|--------------------|--------------------|---------------|
| split         | 0                              | 1                   | 2                  | 3                  | Total         |
| train<br>test | 11020 (70%)<br>4724 (30%)      | 13 (68%)<br>6 (32%) | 2 (100%)<br>0 (0%) | 1 (100%)<br>0 (0%) | 11036<br>4730 |
| Total         | 15744 (100%)                   | 19 (100%)           | 2 (100%)           | 1 (100%)           | 15766         |

Table 202: Contingency table between split and Desfecho principal da admissão T0  $\,$ 

|               | Desfecho principal da admissão T0 |               |
|---------------|-----------------------------------|---------------|
| split         | 0                                 | Total         |
| train<br>test | 11036 (70%)<br>4730 (30%)         | 11036<br>4730 |
| Total         | 15766 (100%)                      | 15766         |

Table 203: Contingency table between split and Readmissão em até 30 dias

|            | Readmissão en             | n até 30 dias          |               |
|------------|---------------------------|------------------------|---------------|
| split      | 0                         | 1                      | Total         |
| train test | 10623 (70%)<br>4540 (30%) | 413 (68%)<br>190 (32%) | 11036<br>4730 |
| Total      | 15163 (100%)              | 603 (100%)             | 15766         |

Table 204: Contingency table between split and Readmissão em até 60 dias

|               | Readmissão en             | n até 60 dias          |               |
|---------------|---------------------------|------------------------|---------------|
| split         | 0                         | 1                      | Total         |
| train<br>test | 10411 (70%)<br>4449 (30%) | 625 (69%)<br>281 (31%) | 11036<br>4730 |
| Total         | 14860 (100%)              | 906 (100%)             | 15766         |

Table 205: Contingency table between split and Readmissão em até 180 dias

|               | Readmissão en             |                         |               |
|---------------|---------------------------|-------------------------|---------------|
| split         | 0                         | 1                       | Total         |
| train<br>test | 10000 (70%)<br>4277 (30%) | 1036 (70%)<br>453 (30%) | 11036<br>4730 |
| Total         | 14277 (100%)              | 1489 (100%)             | 15766         |

Table 206: Contingency table between split and Readmissão em até 1 ano

|               | Readmissão em até 1 ano  |                         |               |  |
|---------------|--------------------------|-------------------------|---------------|--|
| split         | 0                        | 1                       | Total         |  |
| train<br>test | 9640 (70%)<br>4114 (30%) | 1396 (69%)<br>616 (31%) | 11036<br>4730 |  |
| Total         | 13754 (100%)             | 2012 (100%)             | 15766         |  |

Table 207: Contingency table between split and Readmissão cirúrgica em até  $30~\mathrm{dias}$ 

|       | Readmissão cirú   | rgica em até 30 dias |       |
|-------|-------------------|----------------------|-------|
| split | 0                 | 1                    | Total |
| train | 10937 (70%)       | 99 (72%)             | 11036 |
| test  | 4692 (30%)        | 38 (28%)             | 4730  |
| Total | $15629 \ (100\%)$ | $137 \ (100\%)$      | 15766 |

Table 208: Contingency table between split and Readmissão cirúrgica entre 31 a 60 dias

|               | Readmissão cirúr          |                      |               |
|---------------|---------------------------|----------------------|---------------|
| split         | 0                         | 1                    | Total         |
| train<br>test | 10973 (70%)<br>4700 (30%) | 63 (68%)<br>30 (32%) | 11036<br>4730 |
| Total         | 15673 (100%)              | 93 (100%)            | 15766         |

Table 209: Contingency table between split and Readmissão cirúgica entre 61 a 180 dias

|                        | Readmissão cirúg          |                       |               |
|------------------------|---------------------------|-----------------------|---------------|
| $\operatorname{split}$ | 0                         | 1                     | Total         |
| train<br>test          | 10928 (70%)<br>4689 (30%) | 108 (72%)<br>41 (28%) | 11036<br>4730 |
| Total                  | 15617 (100%)              | 149 (100%)            | 15766         |

Table 210: Contingency table between split and Readmissão cirúrgica em até 1 ano

|            | Readmissão cirú           |                      |               |
|------------|---------------------------|----------------------|---------------|
| split      | 0                         | 1                    | Total         |
| train test | 10945 (70%)<br>4689 (30%) | 91 (69%)<br>41 (31%) | 11036<br>4730 |
| Total      | 15634 (100%)              | 132 (100%)           | 15766         |

Table 211: Contingency table between split and Desfecho final do estudo

| Desfecho final do estudo |                         |                          |                          |               |
|--------------------------|-------------------------|--------------------------|--------------------------|---------------|
| split                    | 1                       | 2                        | 3                        | Total         |
| train test               | 1787 (70%)<br>754 (30%) | 5348 (69%)<br>2380 (31%) | 3901 (71%)<br>1596 (29%) | 11036<br>4730 |
| Total                    | 2541 (100%)             | 7728 (100%)              | 5497 (100%)              | 15766         |

Table 212: Contingency table between split and Óbito intraoperatório

|                        | peratório                 |                    |               |
|------------------------|---------------------------|--------------------|---------------|
| $\operatorname{split}$ | 0                         | 1                  | Total         |
| train<br>test          | 11033 (70%)<br>4729 (30%) | 3 (75%)<br>1 (25%) | 11036<br>4730 |
| Total                  | 15762 (100%)              | 4 (100%)           | 15766         |

Table 213: Contingency table between split and Óbito hospitalar (intraoperatório ou admissao T0)

|       | Óbito hospitalar          |                    |               |
|-------|---------------------------|--------------------|---------------|
| split | 0                         | 1                  | Total         |
| train | 11033 (70%)<br>4729 (30%) | 3 (75%)<br>1 (25%) | 11036<br>4730 |
|       | 15762 (100%)              | 4 (100%)           | 15766         |

Table 214: Contingency table between split and Óbito durante algum episódio de readmissão hospitalar

|                        | Óbito durante a           | algum episódio de readmissão hospitalar |               |
|------------------------|---------------------------|---|---------------|
| $\operatorname{split}$ | 0                         | 1                                       | Total         |
| train<br>test          | 10124 (70%)<br>4338 (30%) | 912 (70%)<br>392 (30%)                  | 11036<br>4730 |
| Total                  | 14462 (100%)              | 1304 (100%)                             | 15766         |

Table 215: Contingency table between split and Óbito em até 30 dias após a alta T0

|               | Óbito em até 30           | dias após a alta T0  |               |
|---------------|---------------------------|----------------------|---------------|
| split         | 0                         | 1                    | Total         |
| train<br>test | 10982 (70%)<br>4713 (30%) | 54 (76%)<br>17 (24%) | 11036<br>4730 |
| Total         | 15695 (100%)              | 71 (100%)            | 15766         |

Table 216: Contingency table between split and Óbito em até 180 dias após a alta T0

|               | Óbito em até 18           |                       |               |
|---------------|---------------------------|-----------------------|---------------|
| split         | 0                         | 1                     | Total         |
| train<br>test | 10805 (70%)<br>4631 (30%) | 231 (70%)<br>99 (30%) | 11036<br>4730 |
| Total         | 15436 (100%)              | 330 (100%)            | 15766         |

Table 217: Contingency table between split and Óbito em até 1 ano após a alta T0

|       | Óbito em até 1            |                        |               |
|-------|---------------------------|------------------------|---------------|
| split | 0                         | 1                      | Total         |
| train | 10669 (70%)<br>4580 (30%) | 367 (71%)<br>150 (29%) | 11036<br>4730 |
| Total | 15249 (100%)              | 517 (100%)             | 15766         |

Table 218: Contingency table between split and Óbito em até 2 anos após a alta T0

|               | Óbito em até 2            |                        |               |
|---------------|---------------------------|------------------------|---------------|
| split         | 0                         | 1                      | Total         |
| train<br>test | 10503 (70%)<br>4508 (30%) | 533 (71%)<br>222 (29%) | 11036<br>4730 |
| Total         | 15011 (100%)              | 755 (100%)             | 15766         |

Table 219: Contingency table between split and Óbito em até 3 anos após a alta T0

|               | Óbito em até 3 a          |                        |               |
|---------------|---------------------------|------------------------|---------------|
| split         | 0                         | 1                      | Total         |
| train<br>test | 10393 (70%)<br>4460 (30%) | 643 (70%)<br>270 (30%) | 11036<br>4730 |
| Total         | 14853 (100%)              | 913 (100%)             | 15766         |

Table 220: Contingency table between split and Óbito (status final)

| Óbito (status final) |                          |                         |               |  |
|----------------------|--------------------------|-------------------------|---------------|--|
| split                | 0                        | 1                       | Total         |  |
| train<br>test        | 9249 (70%)<br>3976 (30%) | 1787 (70%)<br>754 (30%) | 11036<br>4730 |  |
| Total                | 13225 (100%)             | 2541 (100%)             | 15766         |  |

Table 221: Contingency table between split and Causa do óbito

|                | sp              |            |              |
|----------------|-----------------|------------|--------------|
| Causa do óbito | train           | test       | Total        |
| 1              | 205 (70%)       | 87 (30%)   | 292 (100%)   |
| 2              | 7 (88%)         | 1 (12%)    | 8 (100%)     |
| 3              | 19 (61%)        | 12 (39%)   | 31 (100%)    |
| 4              | 56 (74%)        | 20~(26%)   | 76 (100%)    |
| 5              | 109~(67%)       | 54 (33%)   | 163 (100%)   |
| 777            | 20~(65%)        | 11 (35%)   | 31 (100%)    |
| 888            | 21 (72%)        | 8~(28%)    | 29 (100%)    |
| 999            | $1350 \ (71\%)$ | 561~(29%)  | 1911 (100%)  |
| NA             | 9249 (70%)      | 3976 (30%) | 13225 (100%) |
| Total          | 11036           | 4730       | 15766        |

Table 222: Contingency table between split and Ventilação mecânica / IOT

|                        | Ventilação m            |                          |               |
|------------------------|-------------------------|--------------------------|---------------|
| $\operatorname{split}$ | 1                       | NA                       | Total         |
| train                  | 1994 (70%)<br>855 (30%) | 9042 (70%)<br>3875 (30%) | 11036<br>4730 |
| Total                  | 2849 (100%)             | 12917 (100%)             | 15766         |

Table 223: Contingency table between split and Transplante cardíaco

| Transplante cardíaco |                          |                     |                         |               |
|----------------------|--------------------------|---------------------|-------------------------|---------------|
| split                | 0                        | 1                   | NA                      | Total         |
| train test           | 9114 (70%)<br>3897 (30%) | 13 (62%)<br>8 (38%) | 1909 (70%)<br>825 (30%) | 11036<br>4730 |
| Total                | 13011 (100%)             | 21 (100%)           | 2734 (100%)             | 15766         |