# Tables - readmission 180d

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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$numerical_columns){
    group_by_at(vars(one_of(outcome_column))) %>%
    summarise('Mean' = mean(!!sym(column), na.rm = T),
              'Min' = min(!!sym(column), na.rm = T),
              'Median' = medianWithoutNA(!!sym(column)),
              'Max' = max(!!sym(column), na.rm = T),
              'Standard Deviation' = sd(!!sym(column), na.rm = T),
              'N' = n(),
              'Missing' = sum(is.na(!!sym(column)))) %>%
    ungroup %>%
    mutate(Min = ifelse(is.infinite(Min), NA, Min),
           Max = ifelse(is.infinite(Max), NA, Max)) %>%
    kbl(align = "1", booktabs = T, digits = 3, format = 'latex', label = i,
        caption = df_names %>% filter(variable.name == column) %>% .$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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	65.860	0	69.1	110.6	17.542	14277	0
1	63.221	0	67.1	98.8	19.707	1489	0

Table 2: Número de comorbidades

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.215	0	1	8	1.330	14277	0
1	1.599	0	1	8	1.508	1489	0

Table 3: Número de procedimentos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.430	1	1	10	0.812	14277	0
1	1.675	1	1	8	1.058	1489	0

Table 4: Ano do procedimento 1

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2010.611	1999	2010	2021	5.824	14277	0
1	2010.379	1999	2010	2021	5.411	1489	0

Table 5: Idade no Procedimento 1

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	65.860	0	69.1	110.6	17.542	14277	0
1	63.221	0	67.1	98.8	19.707	1489	0

Table 6: Ano do procedimento 2

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2013.372	1999	2013	2022	4.45	14277	10010
1	2011.044	1999	2011	2022	5.70	1489	895

Table 7: Idade no Procedimento 2

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	65.641	0.4	69.6	108.7	19.161	14277	10009
1	61.508	0.0	64.6	97.1	19.611	1489	895

Table 8: Ano do procedimento 3

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2014.769	1999	2015	2022	4.464	14277	13046
1	2012.077	2002	2012	2022	5.630	1489	1243

Table 9: Idade no Procedimento 3

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	62.182	3.9	66.1	101.1	20.770	14277	13046
1	61.115	0.4	65.6	97.6	20.657	1489	1243

Table 10: Ano do procedimento  $4\,$ 

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2014.770	2002	2015	2022	4.538	14277	13899
1	2013.364	2002	2014	2022	5.538	1489	1382

Table 11: Idade no Procedimento 4

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	58.980	4.3	63.0	97.7	21.849	14277	13899
1	61.902	1.9	66.6	96.9	22.125	1489	1382

Table 12: Ano do procedimento 5

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2014.667	2004	2015	2022	3.866	14277	14118
1	2012.152	2003	2012	2021	5.057	1489	1456

Table 13: Idade no Procedimento 5

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	58.075	6.3	62.0	99.7	21.734	14277	14118
1	56.733	3.2	65.4	86.3	23.755	1489	1456

Table 14: Ano do procedimento 6

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2015.508	2004	2017	2021	4.265	14277	14212
1	2011.562	2003	2012	2020	4.396	1489	1473

Table 15: Idade no Procedimento 6

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	56.663	6.6	58.8	101.6	22.270	14277	14212
1	52.625	10.9	60.8	84.2	23.338	1489	1473

Table 16: Ano do procedimento 7

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2016.560	2007	2018	2022	4.341	14277	14252
1	2012.429	2010	2012	2015	1.988	1489	1482

Table 17: Idade no Procedimento 7

${\rm readmission\_180d}$	Mean	$\operatorname{Min}$	Median	Max	Standard Deviation	N	Missing
0	50.248	8.8	55.4	81.8	21.827	14277	14252
1	54.743	28.7	63.9	78.8	17.993	1489	1482

Table 18: Ano do procedimento 8

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2014.7	2008	2014.5	2020	4.296	14277	14267
1	2016.0	2015	2016.0	2017	1.414	1489	1487

Table 19: Idade no Procedimento 8

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	51.66	14.3	52.9	81.8	24.656	14277	14267
1	55.40	42.4	55.4	68.4	18.385	1489	1487

Table 20: Ano do procedimento 9

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2014.8	2009	2016	2022	5.07	14277	14272
1	NaN	NA	NA	NA	NA	1489	1489

Table 21: Idade no Procedimento 9

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	39.86	15	36.6	82.2	26.06	14277	14272
1	NaN	NA	NA	NA	NA	1489	1489

Table 22: Ano do procedimento 10

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2019	2019	2019	2019	NA	14277	14276
1	NaN	NA	NA	NA	NA	1489	1489

Table 23: Idade no Procedimento 10

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	39.7	39.7	39.7	39.7	NA	14277	14276
1	NaN	NA	NA	NA	NA	1489	1489

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	80.376	0	87.9	197.1	35.337	14277	10009
1	22.542	0	3.0	155.5	35.888	1489	895

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	58.271	0	63.6	170.5	38.772	14277	13046
1	42.623	0	32.4	132.5	41.947	1489	1243

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	37.955	0.0	29.1	142.7	38.375	14277	13900
1	45.417	0.1	34.4	137.4	44.245	1489	1382

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	32.078	0.0	7.2	127.6	37.005	14277	14118
1	33.812	0.1	4.9	144.3	45.282	1489	1456

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	29.898	0.0	6.20	110.3	36.230	14277	14212
1	18.762	0.1	2.25	82.4	27.969	1489	1473

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	38.608	0.0	4.0	142.3	45.693	14277	14252
1	6.071	0.1	3.9	24.2	8.540	1489	1482

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	12.92	0.2	1.65	80.9	25.981	14277	14267
1	55.30	52.2	55.30	58.4	4.384	1489	1487

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	21.72	4.8	8.7	63.2	24.892	14277	14272
1	NaN	NA	NA	NA	NA	1489	1489

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	36.8	36.8	36.8	36.8	NA	14277	14276
1	NaN	NA	NA	NA	NA	1489	1489

Table 33: Número de Mudanças do tipo de DCEI

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.084	0	0	3	0.292	14277	10010
1	0.108	0	0	2	0.327	1489	897

Table 34: Número de atendimentos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2.141	1	2	39	1.850	14277	0
1	4.674	2	3	51	3.697	1489	0

Table 35: Número da Admissão T0 (admissão índice)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.376	1	1	32	0.991	14277	0
1	2.000	1	1	17	1.888	1489	0

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.680	0	0	24	1.365	14277	0
1	2.626	0	2	50	2.974	1489	0

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.488	0	0	38	1.125	14277	0
1	1.052	0	0	17	1.966	1489	0

Table 38: Ano da admissão T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2010.605	1999	2010	2021	5.826	14277	16
1	2010.362	1999	2010	2021	5.407	1489	4

Table 39: UTI durante a admissão T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.382	0	0	191.95	5.840	14277	0
1	4.144	0	0	188.00	12.049	1489	0

Table 40: Diálise durante a admissão T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.007	0	0	28	0.307	14277	0
1	0.055	0	0	25	0.973	1489	0

Table 41: Tempo de seguimento total (anos)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	6.027	0	4.6	22.6	5.272	14277	0
1	4.465	0	2.9	22.0	4.700	1489	0

Table 42: Tempo de sobrevida (anos)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	4.842	0	3.8	20.1	4.216	14277	12987
1	2.024	0	0.6	17.3	2.915	1489	1014

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.297	0	0	27	1.289	14277	5392
1	0.492	0	0	28	1.845	1489	537

Table 44: Anticoagulantes orais

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.253	0	0	98.0	2.289	14277	3178
1	0.716	0	0	60.5	3.482	1489	305

Table 45: Antiarritmicos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2.944	0	0	445	14.731	14277	3178
1	10.945	0	0	844	39.162	1489	305

Table 46: Antihipertensivo

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.432	0	0	349	5.162	14277	3178
1	0.811	0	0	160	6.912	1489	305

Table 47: Betabloqueador

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.942	0	0	388	7.289	14277	3178
1	2.463	0	0	238	13.269	1489	305

Table 48: IECA/BRA

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	8.294	0	2	530	19.380	14277	3178
1	14.392	0	4	332	29.424	1489	305

Table 49: DVA

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	4.079	0	0	594	23.956	14277	3178
1	14.180	0	0	1044	57.279	1489	305

Table 50: Digoxina

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.199	0	0	50	1.436	14277	3178
1	0.557	0	0	47	2.897	1489	305

Table 51: Estatinas

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	4.606	0	0	421	14.955	14277	3178
1	10.002	0	0	413	26.834	1489	305

Table 52: Diuretico

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	6.589	0	0	1041.5	31.842	14277	3178
1	26.176	0	2	1290.0	105.087	1489	305

Table 53: Vasodilator

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	7.092	0	0	865.5	38.180	14277	3178
1	26.732	0	0	2408.0	109.432	1489	305

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.861	0	0	426	14.700	14277	3178
1	10.167	0	0	453	27.594	1489	305

Table 55: Antagonista da Aldosterona (espironolactona)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.709	0	0	204	6.713	14277	3178
1	5.117	0	0	141	13.849	1489	305

Table 56: Bloqueador do canal de calcio

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.342	0	0	509	6.797	14277	3178
1	3.184	0	0	370	22.690	1489	305

Table 57: Trombolitico

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.001	0	0	3	0.039	14277	3178
1	0.002	0	0	1	0.041	1489	305

Table 58: Antiplaquetario VO

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0	0	0	0	0	14277	3178
1	0	0	0	0	0	1489	305

Table 59: Antiplaquetario EV

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.008	0	0	8	0.159	14277	3178
1	0.032	0	0	5	0.277	1489	305

Table 60: Insulina

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.088	0	0	16	0.453	14277	3178
1	0.160	0	0	7	0.609	1489	305

Table 61: Hipoglicemiante

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.333	0	0	79	2.541	14277	3178
1	0.606	0	0	90	4.819	1489	305

Table 62: Hormonio tireoidiano

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0	0	0	0	0	14277	3178
1	0	0	0	0	0	1489	305

Table 63: Broncodiltador

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0	0	0	0	0	14277	3178
1	0	0	0	0	0	1489	305

Table 64: Anticonvulsivante

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.608	0	0	334	7.307	14277	3178
1	3.427	0	0	390	25.668	1489	305

Table 65: Psicofármacos (Ansiolítico/ antidepressivo/ antipsicótico)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.183	0	0	387	10.889	14277	3178
1	8.323	0	1	251	21.607	1489	305

Table 66: Antibióticos

${\rm readmission\_180d}$	Mean	$\operatorname{Min}$	Median	Max	Standard Deviation	N	Missing
0	12.114	0	4	1812	56.438	14277	3178
1	25.164	0	4	1459	82.015	1489	305

Table 67: Antifúngicos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.222	0	0	122	2.917	14277	3178
1	0.812	0	0	99	5.316	1489	305

Table 68: Antiviral

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.033	0	0	50	0.998	14277	3178
1	0.763	0	0	131	7.381	1489	305

Table 69: Antiretroviral

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.007	0	0	32	0.428	14277	3178
1	0.023	0	0	20	0.599	1489	305

Table 70: Quantidade de classes medicamentosas utilizadas

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	4.584	_	4	17	2.447	14277	-000
1	6.263	1	6	16	2.900	1489	449

Table 71: Ventilação não invasiva

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.021	0	0	42	0.657	14277	2501
1	0.000	0	0	0	0.000	1489	233

Table 72: Instalação de CEC

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.010	0	0	2	0.102	14277	2501
1	0.027	0	0	1	0.162	1489	233

Table 73: Cirurgia Cardiovascular

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.054	0	0	9	0.363	14277	2501
1	0.073	0	0	6	0.463	1489	233

Table 74: Cirurgia Toracica

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.002	0	0	4	0.062	14277	2501
1	0.006	0	0	2	0.105	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.096	0	0	11	0.496	14277	2501
1	0.201	0	0	9	0.761	1489	233

Table 76: Traqueostomia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.001	0	0	5	0.058	14277	2501
1	0.001	0	0	1	0.028	1489	233

Table 77: Intervenção coronária percutânea

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.009	0	0	3	0.111	14277	2501
1	0.029	0	0	4	0.243	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.007	0	0	3	0.115	14277	2501
1	0.011	0	0	2	0.126	1489	233

Table 79: Stent

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0	0	0	0	0	14277	2501
1	0	0	0	0	0	1489	233

Table 80: Angioplastia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.001	0	0	2	0.037	14277	2501
1	0.003	0	0	1	0.056	1489	233

Table 81: Cateterismo

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.111	0	0	4	0.378	14277	2501
1	0.233	0	0	7	0.576	1489	233

Table 82: Eletrofisiologia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.074	0	0	11	0.45	14277	2501
1	0.157	0	0	7	0.66	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.024	0	0	152	1.613	14277	2501
1	0.877	0	0	535	16.923	1489	233

Table 84: Cateter venoso central

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.022	0	0	4	0.173	14277	2501
1	0.084	0	0	4	0.380	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.006	0	0	6	0.105	14277	2501
1	0.005	0	0	4	0.120	1489	233

Table 86: Quantidade de procedimentos invasivos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.417	0	0	159	2.131	14277	2501
1	1.723	0	0	554	17.722	1489	233

Table 87: Cardioversão/ Desfibrilação (sessão)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.005	0	0	5	0.115	14277	3250
1	0.014	0	0	3	0.165	1489	316

Table 88: Transfusão de hemoderivados

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.024	0	0	34	0.484	14277	2501
1	0.086	0	0	18	0.840	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.282	0	0	72	1.655	14277	2501
1	0.994	0	0	199	7.359	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2.582	0	0	365	11.241	14277	2501
1	6.884	0	1	328	23.067	1489	233

Table 91: ECG

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.625	0	2	84	5.143	14277	2501
1	6.408	0	3	140	9.491	1489	233

Table 92: Holter

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.096	0	0	5	0.340	14277	2501
1	0.186	0	0	5	0.451	1489	233

Table 93: Teste de esforço

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.010	0	0	3	0.103	14277	2501
1	0.018	0	0	2	0.143	1489	233

Table 94: Espirometria / Ergoespirometria

${\rm readmission\_180d}$	Mean	$\operatorname{Min}$	Median	Max	Standard Deviation	N	Missing
0	0.004	0	0	2	0.066	14277	2501
1	0.010	0	0	1	0.097	1489	233

Table 95: Tilt Test

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.002	0	0	2	0.048	14277	2501
1	0.006	0	0	1	0.074	1489	233

Table 96: Polissonografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.001	0	0	2	0.040	14277	2501
1	0.003	0	0	2	0.069	1489	233

Table 97: Quantidade de exames por métodos gráficos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.738	0	2	86	5.285	14277	2501
1	6.630	0	4	140	9.620	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	51.215	0	9.0	3474	143.026	14277	2501
1	133.752	0	29.5	3238	299.149	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.253	0	0	25	1.01	14277	2501
1	0.670	0	0	19	1.92	1489	233

Table 100: Quantidade de exames de análises clínicas

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	51.468	0	9	3487	143.770	14277	2501
1	134.422	0	30	3253	300.762	1489	233

Table 101: Citologias

${\rm readmission\_180d}$	Mean	$\operatorname{Min}$	Median	Max	Standard Deviation	N	Missing
0	0.004	0	0	5	0.076	14277	2501
1	0.025	0	0	4	0.226	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.006	0	0	6	0.134	14277	2501
1	0.101	0	0	10	0.714	1489	233

Table 103: Quantidade de exames histopatológicos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.010	0	0	6	0.154	14277	2501
1	0.126	0	0	10	0.779	1489	233

Table 104: Angio RM

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.003	0	0	3	0.072	14277	2501
1	0.012	0	0	4	0.162	1489	233

Table 105: Angio TC

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.032	0	0	6	0.225	14277	2501
1	0.053	0	0	5	0.297	1489	233

Table 106: Angiografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.002	0	0	3	0.051	14277	2501
1	0.002	0	0	1	0.049	1489	233

Table 107: Aortografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.002	0	0	2	0.047	14277	2501
1	0.004	0	0	2	0.075	1489	233

Table 108: Arteriografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.000	0	0	1	0.021	14277	2501
1	0.002	0	0	2	0.063	1489	233

Table 109: Cavografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.007	0	0	1	0.083	14277	2501
1	0.009	0	0	1	0.093	1489	233

Table 110: Cintilografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.058	0	0	5	0.336	14277	2501
1	0.135	0	0	4	0.489	1489	233

Table 111: Ecocardiograma

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.479	0	0	23	1.002	14277	2501
1	1.043	0	0	24	2.324	1489	233

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

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.011	0	0	6	0.147	14277	2501
1	0.053	0	0	3	0.297	1489	233

Table 113: Flebografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.033	0	0	5	0.276	14277	2501
1	0.056	0	0	5	0.383	1489	233

Table 114: PET-CT

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.004	0	0	3	0.071	14277	2501
1	0.010	0	0	2	0.109	1489	233

Table 115: Ultrassom

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.141	0	0	14	0.672	14277	2501
1	0.455	0	0	14	1.377	1489	233

Table 116: Tomografia

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.137	0	0	15	0.593	14277	2501
1	0.340	0	0	12	1.063	1489	233

Table 117: Radiografias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	2.687	0	1	192	6.146	14277	2501
1	5.521	0	2	184	12.651	1489	233

Table 118: Ressonancia magnetica

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.066	0	0	6	0.292	14277	2501
1	0.146	0	0	3	0.425	1489	233

Table 119: Quantidade de exames diagnóstico por imagem

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.663	0	2	232	7.696	14277	2501
1	7.840	0	3	200	15.752	1489	233

Table 120: Dieta enteral (frasco)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.027	0	0	115	1.443	14277	3252
1	0.115	0	0	111	3.293	1489	316

Table 121: Dieta parenteral (frasco)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.001	0	0	5	0.064	14277	3252
1	0.000	0	0	0	0.000	1489	316

Table 122: Bomba de infusão contínua (horas)

${\rm readmission\_180d}$	Mean	$\operatorname{Min}$	Median	Max	Standard Deviation	N	Missing
0	0.745	0	0	1527	21.436	14277	3252
1	2.768	0	0	743	34.405	1489	316

Table 123: Marca-passo temporário (por hora)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.149	0	0	180	2.999	14277	3252
1	0.246	0	0	66	3.196	1489	316

Table 124: Número de procedimentos na admissão T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	1.015	1	1	5	0.137	14277	0
1	1.020	1	1	3	0.154	1489	0

Table 125: Número de procedimentos em até 30 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.000	0	0	1	0.017	14277	0
1	0.083	0	0	3	0.303	1489	0

Table 126: Número de procedimentos em até 60 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.000	0	0	1	0.014	14277	0
1	0.093	0	0	3	0.320	1489	0

Table 127: Número de procedimentos em até 180 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.000	0	0	1	0.012	14277	0
1	0.132	0	0	4	0.407	1489	0

Table 128: Número de procedimentos em até 1 ano

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	0.009	0	0	3	0.114	14277	0
1	0.034	0	0	3	0.203	1489	0

Table 129: Quantidade de classes medicamentosas de ação cardiovascular

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	3.005	1	3	10	1.706	14277	6030
1	4.008	1	4	10	2.021	1489	505

Table 130: Quantidade de medicamentos de ação cardiovascular

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	36.481	0	9.00	1813	102.748	14277	3178
1	114.723	0	25.75	5140	281.745	1489	305

Table 131: Quantidade de antimicrobianos (antibióticos e antifúngicos)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
0	12.336	0	4	1812	57.372	14277	3178
1	25.976	0	4	1459	84.386	1489	305

## Categorical variables

```
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)
for (column in columns_list$categorical_columns){
  if (length(unique(df[[column]])) > 5) next
  variable_name <- df_names %>%
    filter(variable.name == column) %>%
    .$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 (column %in% transpose_columns){
    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) %>%
      row_spec(length(unique(df %>% .[[column]] %>% replace_na("NA"))),
               hline_after = T) %>%
      collapse_rows(1, latex_hline = "none") %>%
```

```
column_spec(4, border_right = T) %>%
      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 132: Contingency table between readmission 180d and Sexo

	Sexo						
${\rm readmission}\_180{\rm d}$	0	1	Total				
0	6805 (91%)	7472 (90%)	14277				
1	644~(9%)	845~(10%)	1489				
Total	7449 (100%)	8317 (100%)	15766				

Table 133: Contingency table between readmission 180d and Doença cardíaca

		Doença cardíaca			
${\rm readmission\_180d}$	0	1	2	NA	Total
0	8359 (91%)	994 (87%)	3084 (89%)	1840 (92%)	14277
1	797 (9%)	149 (13%)	379 (11%)	164 (8%)	1489
Total	9156 (100%)	1143 (100%)	3463 (100%)	2004 (100%)	15766

Table 134: Contingency table between readmission 180d and Classe funcional de IC (NYHA)

	Classe fr	Classe funcional de IC (NYHA)			
${\rm readmission\_180d}$	1	2	NA	Total	
0	5494 (92%)	1160 (86%)	7623 (90%)	14277	
1	501 (8%)	$186 \ (14\%)$	$802\ (10\%)$	1489	
Total	5995 (100%)	1346 (100%)	8425 (100%)	15766	

Table 135: Contingency table between readmission 180d and Hipertensão arterial

	Hipertensão arterial			
${\rm readmission\_180d}$	0	1	Total	
0	10814 (91%)		14277	
1	1119 (9%)	370 (10%)	1489	
Total	11933 (100%)	3833 (100%)	15766	

Table 136: Contingency table between readmission 180d and Infarto do miocárdio prévio / Doença arterial coronariana

	Infarto do miocárdio prévio / Doença arterial coronariana		
${\rm readmission\_180d}$	0	1	Total
0	13028 (91%)	1249 (87%)	14277
1	1295~(9%)	194 (13%)	1489
Total	14323 (100%)	1443 (100%)	15766

Table 137: Contingency table between readmission 180d and Insuficiência cardíaca

	Insuficiênci	Insuficiência cardíaca		
${\rm readmission\_180d}$	0	1	Total	
0	9383 (93%)	4894 (87%)	14277	
1	742 (7%)	747 (13%)	1489	
Total	10125 (100%)	5641 (100%)	15766	

Table 138: Contingency table between readmission 180d and Fibrilação / flutter atrial

	Fibrilação /	Fibrilação / flutter atrial			
${\rm readmission\_180d}$	0	1	Total		
0	12171 (91%)	2106 (88%)	14277		
1	1212 (9%)	$277 \ (12\%)$	1489		
Total	13383 (100%)	2383 (100%)	15766		

Table 139: Contingency table between readmission 180d and Parada cardíaca prévia/ Taquicardia ventricular instável

	Parada cardíaca prévia/ Taquicardia ventricular instável		
${\rm readmission}\_180{\rm d}$	0	1	Total
0	12615 (91%)	1662 (88%)	14277
1	1258 (9%)	231 (12%)	1489
Total	13873 (100%)	1893 (100%)	15766

Table 140: Contingency table between readmission 180d and Transplante cardíaco prévio

	Transplante car		
${\rm readmission\_180d}$	0	1	Total
0	14271 (91%)	6 (50%)	14277
1	1483 (9%)	6 (50%)	1489
Total	15754 (100%)	12 (100%)	15766

Table 141: Contingency table between readmission 180d and Valvopatias/ Prótese valvares

	Valvopatias/ P	Valvopatias/ Prótese valvares		
${\rm readmission\_180d}$	0	1	Total	
0	13359 (91%)	918 (87%)	14277	
1	1353 (9%)	$136 \ (13\%)$	1489	
Total	14712 (100%)	1054 (100%)	15766	

Table 142: Contingency table between readmission 180d and Endocardite prévia

	Endocardi	Endocardite prévia		
${\rm readmission}\_180{\rm d}$	0	1	Total	
0	14164 (91%)	113 (85%)	14277	
1	1469 (9%)	20 (15%)	1489	
Total	15633 (100%)	133 (100%)	15766	

Table 143: Contingency table between readmission 180d and Diabetes melittus

	Diabetes	Diabetes melittus			
${\rm readmission\_180d}$	0	1	Total		
0	12622 (91%)	1655 (88%)	14277		
1	1268 (9%)	$221\ (12\%)$	1489		
Total	13890 (100%)	1876 (100%)	15766		

Table 144: Contingency table between readmission 180d and Insuficiência renal crônica

	Insuficiência r		
${\rm readmission\_180d}$	0	1	Total
0	13734 (91%)	543 (88%)	14277
1	1412 (9%)	77~(12%)	1489
Total	15146 (100%)	620 (100%)	15766

Table 145: Contingency table between readmission 180d and Hemodiálise

	Hemodi	Hemodiálise			
${\rm readmission\_180d}$	0	1	Total		
0	14264 (91%)	13 (68%)	14277		
1	1483 (9%)	$ 13 (68\%) \\ 6 (32\%) $	1489		
Total	15747 (100%)	19 (100%)	15766		

Table 146: Contingency table between readmission 180d and Acidente Vascular Cerebral/ Acidente isquêmico transitório prévios

	Acidente Vascula	ar Cerebral/ Acidente isquêmico transitório prévios	
${\rm readmission\_180d}$	0	1	Total
0	13831 (91%)	446 (89%)	14277
1	1436 (9%)	53 (11%)	1489
Total	15267 (100%)	499 (100%)	15766

Table 147: Contingency table between readmission 180d and Doença pulmonar obstrutiva crônica

	Doença pulmona	Doença pulmonar obstrutiva crônica			
${\rm readmission\_180d}$	0	1	Total		
0	14092 (91%)	185 (87%)	14277		
1	1461 (9%)	$28 \ (13\%)$	1489		
Total	15553 (100%)	213 (100%)	15766		

Table 148: Contingency table between readmission 180d and Neoplasia em tratamento ou tratada recentemente (12 meses)

	Neoplasia em trata	Neoplasia em tratamento ou tratada recentemente (12 meses)		
${\rm readmission\_180d}$	0	1	Total	
0	14179 (91%)	98 (87%)	14277	
1	1474 (9%)	15 (13%)	1489	
Total	15653 (100%)	113 (100%)	15766	

Table 149: Contingency table between readmission 180d and Tipo de Procedimento 1

	Tipo de Pro		
${\rm readmission\_180d}$	1	2	Total
0	9691 (89%)	4586 (94%)	14277
1	$1221\ (11\%)$	268~(6%)	1489
Total	10912 (100%)	4854 (100%)	15766

Table 150: Contingency table between readmission 180d and Tipo de Reoperação 1

		Tipo de Reoperação 1			
${\rm readmission\_180d}$	1	2	3	NA	Total
0	3731 (95%)	825 (91%)	30 (91%)	9691 (89%)	14277
1	181~(5%)	84 (9%)	3 (9%)	$1221\ (11\%)$	1489
Total	3912 (100%)	909 (100%)	33 (100%)	10912 (100%)	15766

Table 151: Contingency table between readmission 180d and Tipo de Procedimento 1 (merge: procedure type com reop type)

	Tipo de Proceo	Tipo de Procedimento 1 (merge: procedure type com reop type)				
${\rm readmission\_180d}$	1	2	3	4	Total	
0	9691 (89%)	3731 (95%)	825 (91%)	30 (91%)	14277	
1	1221 (11%)	181 (5%)	84 (9%)	3 (9%)	1489	
Total	10912 (100%)	3912 (100%)	909 (100%)	33 (100%)	15766	

Table 152: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 1

	Tipo de I	Tipo de Dispositivo ao final do procedimento 1				
${\rm readmission\_180d}$	1	2	3	4	Total	
0	11353 (92%)	1501 (85%)	1071 (85%)	352 (79%)	14277	
1	942 (8%)	$271\ (15\%)$	183~(15%)	93~(21%)	1489	
Total	12295 (100%)	1772 (100%)	1254 (100%)	445 (100%)	15766	

Table 153: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 1

	Tipo de Disposit		
${\rm readmission}\_180{\rm d}$	1	2	Total
0	12854 (91%)	1423 (84%)	14277
1	1213~(9%)	$276 \ (16\%)$	1489
Total	14067 (100%)	1699 (100%)	15766

Table 154: Contingency table between readmission 180d and Óbito intraoperatório 1

	Óbito intraoperatório 1	
${\rm readmission\_180d}$	0	Total
0	14277 (91%)	14277
1	1489 (9%)	1489
Total	15766 (100%)	15766

Table 155: Contingency table between readmission 180d and Tipo de Reoperação 2

		Tipo de Reoperação 2				
${\rm readmission\_180d}$	1	2	3	NA	Total	
0	3118 (96%)	1087 (74%)	56 (46%)	10016 (92%)	14277	
1	141 (4%)	$387\ (26\%)$	65~(54%)	896 (8%)	1489	
Total	3259 (100%)	1474 (100%)	121 (100%)	10912 (100%)	15766	

Table 156: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 2

	Т	Tipo de Dispositivo ao final do procedimento 2				
${\rm readmission}\_180{\rm d}$	1	2	3	4	NA	Total
0	3244 (90%)	533 (83%)	325 (84%)	162 (80%)	10013 (92%)	14277
1	379 (10%)	109 (17%)	62~(16%)	41 (20%)	898 (8%)	1489
Total	3623 (100%)	642 (100%)	387 (100%)	203 (100%)	10911 (100%)	15766

Table 157: Contingency table between readmission 180d and Óbito intraoperatório 2

	Óbito intra		
${\rm readmission\_180d}$	0	NA	Total
0	4267 (88%)	10010 (92%)	14277
1	594 (12%)	895 (8%)	1489
Total	4861 (100%)	10905 (100%)	15766

Table 158: Contingency table between readmission 180d and Tipo de Reoperação 3

		Tipo de Reoperação 3					
${\rm readmission\_180d}$	1	2	3	NA	Total		
0	627 (87%)	475 (82%)	45 (73%)	13130 (91%)	14277		
1	96 (13%)	103~(18%)	17~(27%)	1273~(9%)	1489		
Total	723 (100%)	578 (100%)	62 (100%)	14403 (100%)	15766		

Table 159: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 3

	Т	Tipo de Dispositivo ao final do procedimento 3					
${\rm readmission\_180d}$	1	2	3	4	NA	Total	
0	818 (85%)	204 (81%)	131 (82%)	78 (79%)	13046 (91%)	14277	
1	148 (15%)	47 (19%)	29 (18%)	21 (21%)	1244~(9%)	1489	
Total	966 (100%)	251 (100%)	160 (100%)	99 (100%)	14290 (100%)	15766	

Table 160: Contingency table between readmission 180d and Óbito intraoperatório 3

	Óbito	Óbito intraoperatório 3				
${\rm readmission\_180d}$	0	1	NA	Total		
0	1227 (83%)	4 (100%)	13046 (91%)	14277		
1	$246\ (17\%)$	0 (0%)	1243~(9%)	1489		
Total	1473 (100%)	4 (100%)	14289 (100%)	15766		

Table 161: Contingency table between readmission 180d and Tipo de Reoperação  $4\,$ 

		Tipo de Reoperação $4$					
${\rm readmission\_180d}$	1	2	3	NA	Total		
0	144 (75%)	197 (78%)	28 (85%)	13908 (91%)	14277		
1	48~(25%)	54~(22%)	5 (15%)	1382 (9%)	1489		
Total	192 (100%)	251 (100%)	33 (100%)	15290 (100%)	15766		

Table 162: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 4

	Ti	Tipo de Dispositivo ao final do procedimento 4						
${\rm readmission\_180d}$	1	2	3	4	NA	Total		
0	217 (75%)	89 (81%)	39 (87%)	33 (79%)	13899 (91%)	14277		
1	71~(25%)	$21\ (19\%)$	6 (13%)	9 (21%)	1382 (9%)	1489		
Total	288 (100%)	110 (100%)	45 (100%)	42 (100%)	15281 (100%)	15766		

Table 163: Contingency table between readmission 180d and Óbito intraoperatório 4

	Óbito intra		
${\rm readmission\_180d}$	0	NA	Total
0	378 (78%)	13899 (91%)	14277
1	107~(22%)	1382 (9%)	1489
Total	485 (100%)	15281 (100%)	15766

Table 164: Contingency table between readmission 180d and Tipo de Reoperação  $5\,$ 

		Tipo de Reoperação 5				
${\rm readmission\_180d}$	1	2	3	NA	Total	
0	60 (85%)	90 (85%)	9 (64%)	14118 (91%)	14277	
1	11 (15%)	16 (15%)	5 (36%)	1457 (9%)	1489	
Total	71 (100%)	106 (100%)	14 (100%)	15575 (100%)	15766	

 $\begin{tabular}{l} Table 165: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 5 \\ \end{tabular}$ 

	Tip	Tipo de Dispositivo ao final do procedimento 5					
${\rm readmission\_180d}$	1	2	3	4	NA	Total	
0	80 (80%)	46 (82%)	21 (95%)	11 (85%)	14119 (91%)	14277	
1	20 (20%)	10 (18%)	1 (5%)	2 (15%)	1456 (9%)	1489	
Total	100 (100%)	56 (100%)	22 (100%)	13 (100%)	15575 (100%)	15766	

Table 166: Contingency table between readmission 180d and Óbito intraoperatório 5

	Óbito intra		
${\rm readmission\_180d}$	0	NA	Total
0	159 (83%)	14118 (91%)	14277
1	33~(17%)	1456 (9%)	1489
Total	192 (100%)	15574 (100%)	15766

Table 167: Contingency table between readmission 180d and Tipo de Reoperação  $6\,$ 

		Tipo de Reoperação 6				
${\rm readmission\_180d}$	1	2	3	NA	Total	
0	22 (85%)	36 (78%)	4 (67%)	14215 (91%)	14277	
1	4 (15%)	10~(22%)	2(33%)	1473 (9%)	1489	
Total	26 (100%)	46 (100%)	6 (100%)	15688 (100%)	15766	

 $\begin{table} Table 168: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 6 \\ \end{table}$ 

	Tip	Tipo de Dispositivo ao final do procedimento 6					
${\rm readmission\_180d}$	1	2	3	4	NA	Total	
0	31 (78%)	19 (76%)	7 (100%)	8 (89%)	14212 (91%)	14277	
1	9 (22%)	6(24%)	0 (0%)	1 (11%)	1473 (9%)	1489	
Total	40 (100%)	25 (100%)	7 (100%)	9 (100%)	15685 (100%)	15766	

Table 169: Contingency table between readmission 180d and Óbito intraoperatório 6

	Óbito intr		
${\rm readmission\_180d}$	0	NA	Total
0	65 (80%)	14212 (91%) 1473 (9%)	14277
1	16 (20%)	1473 (9%)	1489
Total	81 (100%)	15685 (100%)	15766

Table 170: Contingency table between readmission 180d and Tipo de Reoperação 7

		Tipo de Reoperação 7				
${\rm readmission}\_180{\rm d}$	1	2	3	NA	Total	
0	9 (90%)	14 (78%)	2 (50%)	14252 (91%)	14277	
1	1 (10%)	4(22%)	2(50%)	1482 (9%)	1489	
Total	10 (100%)	18 (100%)	4 (100%)	15734 (100%)	15766	

Table 171: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 7

	Tip	Tipo de Dispositivo ao final do procedimento 7				
${\rm readmission}\_180{\rm d}$	1	2	3	4	NA	Total
0	12 (92%)	9 (69%)	1 (100%)	2 (50%)	14253 (91%)	14277
1	1 (8%)	4 (31%)	0(0%)	2(50%)	1482 (9%)	1489
Total	13 (100%)	13 (100%)	1 (100%)	4 (100%)	15735 (100%)	15766

Table 172: Contingency table between readmission 180d and Óbito intraoperatório 7

	Óbito intraoperatório 7			
${\rm readmission\_180d}$	0	NA	Total	
0	25 (78%)		14277	
1	7 (22%)	1482 (9%)	1489	
Total	32 (100%)	15734 (100%)	15766	

Table 173: Contingency table between readmission 180d and Tipo de Reoperação 8

	Ti	Tipo de Reoperação 8			
${\rm readmission\_180d}$	1	2	NA	Total	
0	1 (33%)	9 (100%)	14267 (91%)	14277	
1	2(67%)	0 (0%)	1487 (9%)	1489	
Total	3 (100%)	9 (100%)	15754 (100%)	15766	

Table 174: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 8

	Tipo de I	Tipo de Dispositivo ao final do procedimento 8			
${\rm readmission\_180d}$	1	2	4	NA	Total
0	7 (100%)	3 (75%)	0 (0%)	14267 (91%)	14277
1	0 (0%)	1(25%)	1 (100%)	1487 (9%)	1489
Total	7 (100%)	4 (100%)	1 (100%)	15754 (100%)	15766

Table 175: Contingency table between readmission 180d and Óbito intraoperatório 8

	Óbito intr	Óbito intraoperatório 8		
${\rm readmission\_180d}$	0	NA	Total	
0	10 (83%)	14267 (91%) 1487 (9%)	14277	
1	2(17%)	1487 (9%)	1489	
Total	12 (100%)	15754 (100%)	15766	

Table 176: Contingency table between readmission 180d and Tipo de Reoperação 9

	Tipo de		
${\rm readmission\_180d}$	2	NA	Total
0	5 (100%)	14272 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	5 (100%)	15761 (100%)	15766

Table 177: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 9

	Tipo de D	Γipo de Dispositivo ao final do procedimento 9			
${\rm readmission\_180d}$	1	2	NA	Total	
0	3 (100%)	2 (100%)	14272 (91%)	14277	
1	0 (0%)	0 (0%)	1489 (9%)	1489	
Total	3 (100%)	2 (100%)	15761 (100%)	15766	

Table 178: Contingency table between readmission 180d and Óbito intraoperatório 9

	Óbito int		
${\rm readmission\_180d}$	0	NA	Total
0	5 (100%)	14272 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	5 (100%)	15761 (100%)	15766

Table 179: Contingency table between readmission 180d and Tipo de Reoperação 10

	Tipo de I	Tipo de Reoperação 10		
${\rm readmission\_180d}$	2	NA	Total	
0	1 (100%)	14276 (91%)	14277	
1	0 (0%)	1489 (9%)	1489	
Total	1 (100%)	15765 (100%)	15766	

Table 180: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 10

	Tipo de Dis	Tipo de Dispositivo ao final do procedimento 10		
${\rm readmission}\_180{\rm d}$	2	NA	Total	
0	1 (100%)	14276 (91%)	14277	
1	0 (0%)	1489 (9%)	1489	
Total	1 (100%)	15765 (100%)	15766	

Table 181: Contingency table between readmission 180d and Óbito intraoperatório 10

	Óbito intr		
${\rm readmission\_180d}$	0	NA	Total
0	1 (100%)	14276 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	1 (100%)	15765 (100%)	15766

Table 182: Contingency table between readmission 180d 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	
${\rm readmission\_180d}$	0	1	NA	Total
0	4023 (88%)	241 (86%)	10013 (92%)	14277
1	553 (12%)	38 (14%)	898 (8%)	1489
Total	4576 (100%)	279 (100%)	10911 (100%)	15766

 $Table\ 183:\ Contingency\ table\ between\ readmission\ 180d\ and\ Mudança\ do\ tipo\ de\ DCEI:\ entre\ o\ Procedimento\ 2\ e\ Procedimento\ 3$ 

	Mudança do t	ipo de DCEI	: entre o Procedimento 2 e Procedimento 3	
${\rm readmission\_180d}$	0	1	NA	Total
0	1157 (84%)	74 (79%)	13046 (91%)	14277
1	225~(16%)	20 (21%)	1244 (9%)	1489
Total	1382 (100%)	94 (100%)	14290 (100%)	15766

Table 184: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 3 e Procedimento 4

	Mudança do	tipo de DCE	I: entre o Procedimento 3 e Procedimento 4	
${\rm readmission}\_180{\rm d}$	0	1	NA	Total
0	355 (78%)	23 (82%)	13899 (91%)	14277
1	102~(22%)	5 (18%)	1382 (9%)	1489
Total	457 (100%)	28 (100%)	15281 (100%)	15766

Table 185: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 4 e Procedimento 5

	Mudança do	tipo de DCI	EI: entre o Procedimento 4 e Procedimento 5	
${\rm readmission}\_180{\rm d}$	0	1	NA	Total
0	149 (82%)	9 (100%)	14119 (91%)	14277
1	33~(18%)	0 (0%)	1456 (9%)	1489
Total	182 (100%)	9 (100%)	15575 (100%)	15766

Table 186: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 5 e Procedimento 6

	Mudança d	Mudança do tipo de DCEI: entre o Procedimento 5 e Procedimento 6		
${\rm readmission}\_180{\rm d}$	0	1	NA	Total
0	58 (78%)	7 (100%)	14212 (91%)	14277
1	16 (22%)	0 (0%)	1473 (9%)	1489
Total	74 (100%)	7 (100%)	15685 (100%)	15766

Table 187: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 6 e Procedimento 7

	Mudança d	o tipo de DC	CEI: entre o Procedimento 6 e Procedimento 7	
${\rm readmission\_180d}$	0	1	NA	Total
0	22 (79%)	2 (67%)	14253 (91%)	14277
1	6 (21%)	1 (33%)	1482 (9%)	1489
Total	28 (100%)	3 (100%)	15735 (100%)	15766

 $Table\ 188:\ Contingency\ table\ between\ readmission\ 180d\ and\ Mudança\ do\ tipo\ de\ DCEI:\ entre\ o\ Procedimento\ 7\ e\ Procedimento\ 8$ 

	Mudança d	Iudança do tipo de DCEI: entre o Procedimento 7 e Procedimento 8		
${\rm readmission\_180d}$	0	1	NA	Total
0	9 (82%)	1 (100%)	14267 (91%)	14277
1	2(18%)	0 (0%)	1487 (9%)	1489
Total	11 (100%)	1 (100%)	15754 (100%)	15766

Table 189: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9

	Mudança do t	Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9		
${\rm readmission\_180d}$	0	NA	Total	
0	5 (100%)	14272 (91%)	14277	
1	0 (0%)	1489 (9%)	1489	
Total	5 (100%)	15761 (100%)	15766	

Table 190: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 9 e Procedimento 10

	Mudança do tip	Mudança do tipo de DCEI: entre o Procedimento 9 e Procedimento 10		
${\rm readmission}\_180{\rm d}$	0	NA	Total	
0	1 (100%)	14276 (91%)	14277	
1	0 (0%)	1489 (9%)	1489	
Total	1 (100%)	15765 (100%)	15766	

Table 191: Contingency table between readmission 180d and Diálise durante os episódios de hospitalização

	Diálise durante		
${\rm readmission\_180d}$	0	1	Total
0	14246 (91%)	31 (70%)	14277
1	1476 (9%)	13 (30%)	1489
Total	15722 (100%)	44 (100%)	15766

Table 192: Contingency table between readmission 180d and UTI durante os episódios de hospitalização

	UTI durante os	UTI durante os episódios de hospitalização		
${\rm readmission}\_180{\rm d}$	0	1	Total	
0	11603 (92%)	2674 (83%)	14277	
1	952~(8%)	$537 \ (17\%)$	1489	
Total	12555 (100%)	3211 (100%)	15766	

Table 193: Contingency table between readmission 180d and Admissão em até 180 dias antes da T0

	Admissão em até		
${\rm readmission\_180d}$	0	1	Total
0	13432 (91%)	845 (79%)	14277
1	1264 (9%)	225~(21%)	1489
Total	14696 (100%)	1070 (100%)	15766

Table 194: Contingency table between readmission 180d and Readmissões pós-T0 com diálise

	Readr	Readmissões pós-T0 com diálise			
${\rm readmission\_180d}$	0	1	2	3	Total
0	14259 (91%)	16 (84%)	2 (100%)	0 (0%)	14277
1	1485 (9%)	3~(16%)	0 (0%)	1 (100%)	1489
Total	15744 (100%)	19 (100%)	2 (100%)	1 (100%)	15766

Table 195: Contingency table between readmission 180d and Desfecho principal da admissão T0

	Desfecho principal da admissão T0	
${\rm readmission\_180d}$	0	Total
0	14277 (91%)	14277
1	1489 (9%)	1489
Total	15766 (100%)	15766

Table 196: Contingency table between readmission 180d and Readmissão em até 30 dias

	Readmissão en		
${\rm readmission\_180d}$	0	1	Total
0	14277 (94%)	0 (0%)	14277
1	886~(6%)	603 (100%)	1489
Total	15163 (100%)	603 (100%)	15766

Table 197: Contingency table between readmission 180d and Readmissão em até 60 dias

	Readmissão en		
${\rm readmission\_180d}$	0	1	Total
0	14277 (96%)	0 (0%)	14277
1	583 (4%)	906 (100%)	1489
Total	14860 (100%)	906 (100%)	15766

Table 198: Contingency table between readmission 180d and Readmissão em até 180 dias

	Readmissão en		
${\rm readmission\_180d}$	0	1	Total
0	14277 (100%)	0 (0%)	14277
1	0 (0%)	1489 (100%)	1489
Total	14277 (100%)	1489 (100%)	15766

Table 199: Contingency table between readmission 180d and Readmissão em até 1 ano

	Readmissão e		
${\rm readmission\_180d}$	0	1	Total
0	13754 (100%)	523 (26%)	14277
1	0 (0%)	1489 (74%)	1489
Total	13754 (100%)	2012 (100%)	15766

Table 200: Contingency table between readmission 180d and Readmissão cirúrgica em até 30 dias

	Readmissão cirú		
${\rm readmission\_180d}$	0	1	Total
0	14277 (91%)	0 (0%)	14277
1	1352 (9%)	137 (100%)	1489
Total	15629 (100%)	137 (100%)	15766

Table 201: Contingency table between readmission 180d and Readmissão cirúrgica entre 31 a 60 dias

	Readmissão cirú		
${\rm readmission\_180d}$	0	1	Total
0	14277 (91%)	0 (0%)	14277
1	1396 (9%)	93 (100%)	1489
Total	15673 (100%)	93 (100%)	15766

Table 202: Contingency table between readmission 180d and Readmissão cirúgica entre 61 a 180 dias

	Readmissão cirt		
${\rm readmission\_180d}$	0	1	Total
0	14277 (91%)	0 (0%)	14277
1	1340 (9%)	$149 \ (100\%)$	1489
Total	15617 (100%)	149 (100%)	15766

Table 203: Contingency table between readmission 180d and Readmissão cirúrgica em até  $1\ \mathrm{ano}$ 

	Readmissão cirú		
${\rm readmission\_180d}$	0	1	Total
0	14177 (91%)	100 (76%)	14277
1	1457 (9%)	32 (24%)	1489
Total	15634 (100%)	132 (100%)	15766

Table 204: Contingency table between readmission 180d and Desfecho final do estudo

	Desf	Desfecho final do estudo			
${\rm readmission\_180d}$	1	2	3	Total	
0	2026 (80%)	7207 (93%)	5044 (92%)	14277	
1	515~(20%)	521~(7%)	453~(8%)	1489	
Total	$2541\ (100\%)$	7728 (100%)	5497 (100%)	15766	

Table 205: Contingency table between readmission 180d and Óbito intraoperatório

	Óbito intraop		
${\rm readmission\_180d}$	0	1	Total
0	14273 (91%)	4 (100%)	14277
1	1489 (9%)	0 (0%)	1489
Total	15762 (100%)	4 (100%)	15766

Table 206: Contingency table between readmission 180d and Óbito hospitalar (intraoperatório ou admissao T0)

	Óbito hospitalar (intraoperatório ou admissao T0)		
${\rm readmission\_180d}$	0	1	Total
0	14273 (91%)	4 (100%)	14277
1	1489 (9%)	0 (0%)	1489
Total	15762 (100%)	4 (100%)	15766

Table 207: Contingency table between readmission 180d and Óbito durante algum episódio de readmissão hospitalar

	Óbito durante a	Óbito durante algum episódio de readmissão hospitalar		
${\rm readmission}\_180{\rm d}$	0	1	Total	
0	13404 (93%)	873 (67%)	14277	
1	1058 (7%)	431 (33%)	1489	
Total	14462 (100%)	1304 (100%)	15766	

Table 208: Contingency table between readmission 180d and Óbito em até 30 dias após a alta T0

	Óbito em até 30 dias após a alta T0		
${\rm readmission\_180d}$	0	1	Total
0	14248 (91%)	29 (41%)	14277
1	1447~(9%)	42 (59%)	1489
Total	15695 (100%)	71 (100%)	15766

Table 209: Contingency table between readmission 180d and Óbito em até 180 dias após a alta T0

	Óbito em até 180 dias após a alta T0		
${\rm readmission\_180d}$	0	1	Total
0	14160 (92%)	117 (35%)	14277
1	1276 (8%)	213~(65%)	1489
Total	15436 (100%)	330 (100%)	15766

Table 210: Contingency table between readmission 180d and Óbito em até 1 ano após a alta T0

	Óbito em até 1 ano após a alta $T0$		
${\rm readmission\_180d}$	0	1	Total
0	14050 (92%)	227 (44%)	14277
1	1199 (8%)	290 (56%)	1489
Total	15249 (100%)	517 (100%)	15766

Table 211: Contingency table between readmission 180d and Óbito em até 2 anos após a alta T0

	Óbito em até $2$		
${\rm readmission\_180d}$	0	1	Total
0	13864 (92%)	413 (55%)	14277
1	1147~(8%)	342~(45%)	1489
Total	15011 (100%)	755 (100%)	15766

Table 212: Contingency table between readmission 180d and Óbito em até 3 anos após a alta T0

	Óbito em até 3		
${\rm readmission\_180d}$	0	1	Total
0	13732 (92%)	545 (60%)	14277
1	1121 (8%)	368 (40%)	1489
Total	14853 (100%)	913 (100%)	15766

Table 213: Contingency table between readmission 180d and Óbito (status final)

	Óbito (sta	Óbito (status final)		
${\rm readmission\_180d}$	0	1	Total	
0	12251 (93%)		14277	
1	974 (7%)	515 (20%)	1489	
Total	13225 (100%)	2541 (100%)	15766	

Table 214: Contingency table between readmission 180d and Ventilação mecânica / IOT

	Ventilação mecânica / IOT		
${\rm readmission\_180d}$	1	NA	Total
0	2450 (86%)	11827 (92%)	14277
1	399 (14%)	1090 (8%)	1489
Total	2849 (100%)	12917 (100%)	15766

Table 215: Contingency table between readmission 180d and Transplante cardíaco

	Tran	Transplante cardíaco		
${\rm readmission\_180d}$	0	1	NA	Total
0	11773 (90%)	3 (14%)	2501 (91%)	14277
1	$1238 \ (10\%)$	18~(86%)	233~(9%)	1489
Total	13011 (100%)	21 (100%)	2734 (100%)	15766