

# Tables - readmission\_180d

Eduardo Yuki Yada

## 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)
```

## Numerical variables

```
medianWithoutNA <- function(x) {
  median(x[which(!is.na(x))])
}

i = 0
for (column in columns_list$numerical_columns){
  df %>%
    group_by_at(vars(one_of(outcome_column))) %>%
    summarise('Mean' = mean(!sym(column), na.rm = T),
              'Min' = min(!sym(column), na.rm = T),
              'Median' = medianWithoutNA(!sym(column)),
              'Max' = max(!sym(column), na.rm = T),
              'Standard Deviation' = sd(!sym(column), na.rm = T),
              'N' = n(),
              'Missing' = sum(is.na(!sym(column)))) %>%
    ungroup %>%
    mutate(Min = ifelse(is.infinite(Min), NA, Min),
           Max = ifelse(is.infinite(Max), NA, Max)) %>%
    kbl(align = "l", booktabs = T, digits = 3, format = 'latex', label = i,
        caption = df_names %>% filter(variable.name == column) %>% .$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
```

```
i <- i + 1
}
```

Table 1: Idade no momento do primeiro procedimento

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	65.860	0	69.1	110.6	17.542	14277	0
<b>1</b>	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
<b>0</b>	1.215	0	1	8	1.330	14277	0
<b>1</b>	1.599	0	1	8	1.508	1489	0

Table 3: Ano do procedimento 1

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

Table 4: Idade no Procedimento 1

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

Table 5: Ano do procedimento 2

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

Table 6: Idade no Procedimento 2

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

Table 7: Ano do procedimento 3

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

Table 8: Idade no Procedimento 3

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

Table 9: Ano do procedimento 4

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

Table 10: Idade no Procedimento 4

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

Table 11: Ano do procedimento 5

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

Table 12: Idade no Procedimento 5

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

Table 13: Ano do procedimento 6

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

Table 14: Idade no Procedimento 6

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

Table 15: Ano do procedimento 7

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

Table 16: Idade no Procedimento 7

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	50.248	8.8	55.4	81.8	21.827	14277	14252
<b>1</b>	54.743	28.7	63.9	78.8	17.993	1489	1482

Table 17: Ano do procedimento 8

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

Table 18: Idade no Procedimento 8

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

Table 19: Ano do procedimento 9

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

Table 20: Idade no Procedimento 9

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

Table 21: Ano do procedimento 10

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

Table 22: Idade no Procedimento 10

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

Table 23: Tempo entre o P1 e P2 (meses)

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

Table 24: Tempo entre o P2 e P3 (meses)

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

Table 25: Tempo entre o P3 e P4 (meses)

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

Table 26: Tempo entre o P4 e P5 (meses)

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

Table 27: Tempo entre o P5 e P6 (meses)

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

Table 28: Tempo entre o P6 e P7 (meses)

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

Table 29: Tempo entre o P7 e P8 (meses)

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

Table 30: Tempo entre o P8 e P9 (meses)

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

Table 31: Tempo entre o P9 e P10 (meses)

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

Table 32: Número de Mudanças do tipo de DCEI

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

Table 33: Número de atendimentos

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

Table 34: Número da Admissão T0 (admissão índice)

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

Table 35: Núm. de episódios de hospitalizações pós-procedimento

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

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

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

Table 37: Ano da admissão T0

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

Table 38: UTI durante a admissão T0

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

Table 39: Diálise durante a admissão T0

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

Table 40: Readmissão em até 30 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.000	0	0	0	0.000	14277	0
<b>1</b>	0.405	0	0	1	0.491	1489	0

Table 41: Readmissão entre 31 a 60 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.000	0	0	0	0.000	14277	0
<b>1</b>	0.608	0	1	1	0.488	1489	0

Table 42: Readmissão entre 61 a 180 dias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	0	0	14277	0
<b>1</b>	1	1	1	1	0	1489	0

Table 43: Readmissão em até 1 ano

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.037	0	0	1	0.188	14277	0
<b>1</b>	1.000	1	1	1	0.000	1489	0

Table 44: Tempo de seguimento total (anos)

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

Table 45: Óbito intraoperatório

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	1	0.017	14277	0
<b>1</b>	0	0	0	0	0.000	1489	0

Table 46: Óbito hospitalar (intraoperatório ou admissao T0)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	1	0.017	14277	0
<b>1</b>	0	0	0	0	0.000	1489	0

Table 47: Óbito durante algum episódio de readmissão hospitalar

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.061	0	0	1	0.240	14277	0
<b>1</b>	0.289	0	0	1	0.454	1489	0

Table 48: Óbito em até 30 dias após a alta T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.002	0	0	1	0.045	14277	0
<b>1</b>	0.028	0	0	1	0.166	1489	0

Table 49: Óbito em até 180 dias após a alta T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.008	0	0	1	0.09	14277	0
<b>1</b>	0.143	0	0	1	0.35	1489	0



Table 50: Óbito em até 1 ano após a alta T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.016	0	0	1	0.125	14277	0
<b>1</b>	0.195	0	0	1	0.396	1489	0

Table 51: Óbito em até 2 anos após a alta T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.029	0	0	1	0.168	14277	0
<b>1</b>	0.230	0	0	1	0.421	1489	0

Table 52: Óbito em até 3 anos após a alta T0

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.038	0	0	1	0.192	14277	0
<b>1</b>	0.247	0	0	1	0.431	1489	0

Table 53: Óbito (status final)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.142	0	0	1	0.349	14277	0
<b>1</b>	0.346	0	0	1	0.476	1489	0

Table 54: Tempo de sobrevida (anos)

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

Table 55: Diárias no serviço de Emergência na admissão T0

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

Table 56: Anticoagulantes orais

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

Table 57: Antiarritmicos

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

Table 58: Antihipertensivo

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

Table 59: Betabloqueador

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

Table 60: IECA/BRA

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

Table 61: DVA

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

Table 62: Digoxina

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

Table 63: Estatinas

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

Table 64: Diuretico

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

Table 65: Vasodilator

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

Table 66: Insuficiência cardíaca (ivabradina, levosimendan, milrinona, nesiritida, carvedilol)

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

Table 67: Antagonista da Aldosterona (espironolactona)

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

Table 68: Bloqueador do canal de calcio

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

Table 69: Trombolitico

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

Table 70: Antiplaquetario VO

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	0	0	14277	3178
<b>1</b>	0	0	0	0	0	1489	305

Table 71: Antiplaquetario EV

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

Table 72: Insulina

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

Table 73: Hipoglicemiante

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

Table 74: Hormonio tireoidiano

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	0	0	14277	3178
<b>1</b>	0	0	0	0	0	1489	305

Table 75: Broncodilador

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	0	0	14277	3178
<b>1</b>	0	0	0	0	0	1489	305

Table 76: Anticonvulsivante

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

Table 77: Psicofármacos (Ansiolítico/ antidepresivo/ antipsicótico)

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

Table 78: Antibióticos

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	12.114	0	4	1812	56.438	14277	3178
<b>1</b>	25.164	0	4	1459	82.015	1489	305

Table 79: Antifúngicos

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

Table 80: Antiviral

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

Table 81: Antiretroviral

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

Table 82: Quantidade de classes medicamentosas utilizadas

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	4.584	1	4	17	2.447	14277	4506
<b>1</b>	6.263	1	6	16	2.900	1489	449

Table 83: Ventilação não invasiva

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

Table 84: Instalação de CEC

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

Table 85: Cirurgia Cardiovascular

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

Table 86: Transplante cardíaco

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.000	0	0	1	0.016	14277	2501
<b>1</b>	0.014	0	0	1	0.119	1489	233

Table 87: Cirurgia Toracica

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

Table 88: Outros procedimentos cirúrgicos (cir geral, gastrocir, plástica, uro, vascular)

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

Table 89: Traqueostomia

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

Table 90: Intervenção coronária percutânea

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

Table 91: Intervenção cardiovascular em laboratório de hemodinâmica (alcoolização septal, valvoplastia percutânea, stent em vasos pulmonares)

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

Table 92: Stent

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0	0	0	0	0	14277	2501
<b>1</b>	0	0	0	0	0	1489	233

Table 93: Angioplastia

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

Table 94: Cateterismo

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

Table 95: Eletrofisiologia

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

Table 96: Suporte cardiocirculatório (ECMO, BIA, Bio-PUMP)

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

Table 97: Cateter venoso central

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

Table 98: Drenagem de tórax (instalação /troca) e punção pericárdica ou pleural

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

Table 99: Quantidade de procedimentos invasivos

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

Table 100: Cardioversão/ Desfibrilação (sessão)

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

Table 101: Transfusão de hemoderivados

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

Table 102: Interconsulta médica (Especialidades cirúrgicas, infecto, uro, nefro, psiquiatra, dermatol, alergista, oncologista, geriatra, etc)

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

Table 103: Equipe Multiprofissional (enf, fono, fisio, nutri, serviço social, psicologia)

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

Table 104: ECG

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

Table 105: Holter

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



Table 106: Teste de esforço

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

Table 107: Espirometria / Ergoespirometria

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.004	0	0	2	0.066	14277	2501
<b>1</b>	0.010	0	0	1	0.097	1489	233

Table 108: Tilt Test

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

Table 109: Polissonografia

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

Table 110: Quantidade de exames por métodos gráficos

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

Table 111: Exames laboratoriais (exames bioquímicos, exames hematologia/coagulação, anticorpos, dosagem sérica de fármacos)

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

Table 112: Culturas (hemocultura, cultura de secreções, urocultura e cultura de cateteres)

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

Table 113: Quantidade de exames de análises clínicas

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

Table 114: Citologias

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.004	0	0	5	0.076	14277	2501
<b>1</b>	0.025	0	0	4	0.226	1489	233

Table 115: Biopsias (cardíaca, esterno, parede torácica, tumor em mediastino, pulmonar)

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

Table 116: Quantidade de exames histopatológicos

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

Table 117: Angio RM

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

Table 118: Angio TC

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

Table 119: Angiografia

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

Table 120: Aortografia

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

Table 121: Arteriografia

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

Table 122: Cavografia

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

Table 123: Cintilografia

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

Table 124: Ecocardiograma

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

Table 125: Exames endoscópicos (EDA, colonoscopia, retossigmoidoscopia, broncoscopia)

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

Table 126: Flebografia

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

Table 127: PET-CT

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

Table 128: Ultrassom

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

Table 129: Tomografia

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

Table 130: Radiografias

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

Table 131: Ressonancia magnetica

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

Table 132: Quantidade de exames diagnóstico por imagem

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

Table 133: Dieta enteral (frasco)

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

Table 134: Dieta parenteral (frasco)

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

Table 135: Bomba de infusão contínua (horas)

readmission_180d	Mean	Min	Median	Max	Standard Deviation	N	Missing
<b>0</b>	0.745	0	0	1527	21.436	14277	3252
<b>1</b>	2.768	0	0	743	34.405	1489	316

Table 136: Marca-passo temporário (por hora)

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

Table 137: Número de procedimentos na admissão T0

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

Table 138: Número de procedimentos em até 30 dias

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

Table 139: Número de procedimentos em até 60 dias

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

Table 140: Número de procedimentos em até 180 dias

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

Table 141: 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 142: 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 143: 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 144: 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

```
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) paste0("(", lapply(x, as.character), "%)")
```

```
addpercentage <- function(df, horizontal = FALSE){
  if (horizontal){
    x <- df %>%
      prop.table(margin = 1) %>%
      addmargins(FUN = list(Total = sum), quiet = TRUE) %>%
      round(2) * 100

    x[nrow(x),] <- " "
    x[-(nrow(x)),] <- 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))] <- lapply(x[, -(ncol(x))], percent)
```

```

}

y <- matrix(x, nrow = nrow(df) + 1)

df <- df %>%
  addmargins(FUN = list(Total = sum), quiet = TRUE)

df_final <- paste_matrix(df, y)
rownames(df_final) <- rownames(df)
colnames(df_final) <- colnames(df)
return(df_final)
}

transpose_columns <- c()

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]],
      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]],
      df[[column]],
      useNA = "ifany") %>%

```

```

addpercentage

has_na <- df[[column]] %>% is.na() %>% sum > 0

if (has_na){
  colnames(temp_table)[ncol(temp_table) - 1] <- "NA"
}

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 145: Contingency table between readmission 180d and Sexo

readmission_180d	Sexo		Total
	0	1	
0	6805 (91%)	7472 (90%)	14277
1	644 (9%)	845 (10%)	1489
Total	7449 (100%)	8317 (100%)	15766

Table 146: Contingency table between readmission 180d and Doença cardíaca

readmission_180d	Doença cardíaca				Total
	0	1	2	NA	
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 147: Contingency table between readmission 180d and Classe funcional de IC (NYHA)

readmission_180d	Classe funcional de IC (NYHA)			Total
	1	2	NA	
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 148: Contingency table between readmission 180d and Hipertensão arterial

readmission_180d	Hipertensão arterial		Total
	0	1	
0	10814 (91%)	3463 (90%)	14277
1	1119 (9%)	370 (10%)	1489
Total	11933 (100%)	3833 (100%)	15766

Table 149: Contingency table between readmission 180d and Infarto do miocárdio prévio / Doença arterial coronariana

readmission_180d	Infarto do miocárdio prévio / Doença arterial coronariana		Total
	0	1	
0	13028 (91%)	1249 (87%)	14277
1	1295 (9%)	194 (13%)	1489
Total	14323 (100%)	1443 (100%)	15766

Table 150: Contingency table between readmission 180d and Insuficiência cardíaca

readmission_180d	Insuficiência cardíaca		Total
	0	1	
0	9383 (93%)	4894 (87%)	14277
1	742 (7%)	747 (13%)	1489
Total	10125 (100%)	5641 (100%)	15766

Table 151: Contingency table between readmission 180d and Fibrilação / flutter atrial

readmission_180d	Fibrilação / flutter atrial		Total
	0	1	
0	12171 (91%)	2106 (88%)	14277
1	1212 (9%)	277 (12%)	1489
Total	13383 (100%)	2383 (100%)	15766

Table 152: Contingency table between readmission 180d and Parada cardíaca prévia/ Taquicardia ventricular instável

readmission_180d	Parada cardíaca prévia/ Taquicardia ventricular instável		Total
	0	1	
0	12615 (91%)	1662 (88%)	14277
1	1258 (9%)	231 (12%)	1489
Total	13873 (100%)	1893 (100%)	15766

Table 153: Contingency table between readmission 180d and Transplante cardíaco prévio

readmission_180d	Transplante cardíaco prévio		Total
	0	1	
0	14271 (91%)	6 (50%)	14277
1	1483 (9%)	6 (50%)	1489
Total	15754 (100%)	12 (100%)	15766

Table 154: Contingency table between readmission 180d and Valvopatias/ Prótese valvares

readmission_180d	Valvopatias/ Prótese valvares		Total
	0	1	
0	13359 (91%)	918 (87%)	14277
1	1353 (9%)	136 (13%)	1489
Total	14712 (100%)	1054 (100%)	15766

Table 155: Contingency table between readmission 180d and Endocardite prévia

readmission_180d	Endocardite prévia		Total
	0	1	
0	14164 (91%)	113 (85%)	14277
1	1469 (9%)	20 (15%)	1489
Total	15633 (100%)	133 (100%)	15766

Table 156: Contingency table between readmission 180d and Diabetes melittus

readmission_180d	Diabetes melittus		Total
	0	1	
0	12622 (91%)	1655 (88%)	14277
1	1268 (9%)	221 (12%)	1489
Total	13890 (100%)	1876 (100%)	15766

Table 157: Contingency table between readmission 180d and Insuficiência renal crônica

readmission_180d	Insuficiência renal crônica		Total
	0	1	
0	13734 (91%)	543 (88%)	14277
1	1412 (9%)	77 (12%)	1489
Total	15146 (100%)	620 (100%)	15766

Table 158: Contingency table between readmission 180d and Hemodiálise

readmission_180d	Hemodiálise		Total
	0	1	
0	14264 (91%)	13 (68%)	14277
1	1483 (9%)	6 (32%)	1489
Total	15747 (100%)	19 (100%)	15766

Table 159: Contingency table between readmission 180d and Acidente Vascular Cerebral/ Acidente isquêmico transitório prévios

readmission_180d	Acidente Vascular Cerebral/ Acidente isquêmico transitório prévios		Total
	0	1	
0	13831 (91%)	446 (89%)	14277
1	1436 (9%)	53 (11%)	1489
Total	15267 (100%)	499 (100%)	15766

Table 160: Contingency table between readmission 180d and Doença pulmonar obstrutiva crônica

readmission_180d	Doença pulmonar obstrutiva crônica		Total
	0	1	
0	14092 (91%)	185 (87%)	14277
1	1461 (9%)	28 (13%)	1489
Total	15553 (100%)	213 (100%)	15766

Table 161: Contingency table between readmission 180d and Neoplasia em tratamento ou tratada recentemente (12 meses)

readmission_180d	Neoplasia em tratamento ou tratada recentemente (12 meses)		Total
	0	1	
0	14179 (91%)	98 (87%)	14277
1	1474 (9%)	15 (13%)	1489
Total	15653 (100%)	113 (100%)	15766

Table 162: Contingency table between readmission 180d and Tipo de Procedimento 1

readmission_180d	Tipo de Procedimento 1		Total
	1	2	
0	9691 (89%)	4586 (94%)	14277
1	1221 (11%)	268 (6%)	1489
Total	10912 (100%)	4854 (100%)	15766

Table 163: Contingency table between readmission 180d and Tipo de Reoperação 1

readmission_180d	Tipo de Reoperação 1				Total
	1	2	3	NA	
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 164: Contingency table between readmission 180d and Tipo de Procedimento 1 (merge: procedure type com reop type)

readmission_180d	Tipo de Procedimento 1 (merge: procedure type com reop type)				Total
	1	2	3	4	
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 165: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 1

readmission_180d	Tipo de Dispositivo ao final do procedimento 1				Total
	1	2	3	4	
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 166: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 1

readmission_180d	Tipo de Dispositivo ao final do procedimento 1		Total
	1	2	
0	12854 (91%)	1423 (84%)	14277
1	1213 (9%)	276 (16%)	1489
Total	14067 (100%)	1699 (100%)	15766

Table 167: Contingency table between readmission 180d and Óbito intraoperatório 1

readmission_180d	Óbito intraoperatório 1	Total
	0	
0	14277 (91%)	14277
1	1489 (9%)	1489
Total	15766 (100%)	15766

Table 168: Contingency table between readmission 180d and Tipo de Reoperação 2

readmission_180d	Tipo de Reoperação 2				Total
	1	2	3	NA	
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 169: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 2

readmission_180d	Tipo de Dispositivo ao final do procedimento 2					Total
	1	2	3	4	NA	
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 170: Contingency table between readmission 180d and Óbito intraoperatório 2

readmission_180d	Óbito intraoperatório 2		Total
	0	NA	
0	4267 (88%)	10010 (92%)	14277
1	594 (12%)	895 (8%)	1489
Total	4861 (100%)	10905 (100%)	15766

Table 171: Contingency table between readmission 180d and Tipo de Reoperação 3

readmission_180d	Tipo de Reoperação 3				Total
	1	2	3	NA	
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 172: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 3

readmission_180d	Tipo de Dispositivo ao final do procedimento 3					Total
	1	2	3	4	NA	
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 173: Contingency table between readmission 180d and Óbito intraoperatório 3

readmission_180d	Óbito intraoperatório 3			Total
	0	1	NA	
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 174: Contingency table between readmission 180d and Tipo de Reoperação 4

readmission_180d	Tipo de Reoperação 4				Total
	1	2	3	NA	
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 175: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 4

readmission_180d	Tipo de Dispositivo ao final do procedimento 4					Total
	1	2	3	4	NA	
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 176: Contingency table between readmission 180d and Óbito intraoperatório 4

readmission_180d	Óbito intraoperatório 4		Total
	0	NA	
0	378 (78%)	13899 (91%)	14277
1	107 (22%)	1382 (9%)	1489
Total	485 (100%)	15281 (100%)	15766

Table 177: Contingency table between readmission 180d and Tipo de Reoperação 5

readmission_180d	Tipo de Reoperação 5				Total
	1	2	3	NA	
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

Table 178: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 5

readmission_180d	Tipo de Dispositivo ao final do procedimento 5					Total
	1	2	3	4	NA	
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 179: Contingency table between readmission 180d and Óbito intraoperatório 5

readmission_180d	Óbito intraoperatório 5		Total
	0	NA	
0	159 (83%)	14118 (91%)	14277
1	33 (17%)	1456 (9%)	1489
Total	192 (100%)	15574 (100%)	15766

Table 180: Contingency table between readmission 180d and Tipo de Reoperação 6

readmission_180d	Tipo de Reoperação 6				Total
	1	2	3	NA	
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

Table 181: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 6

readmission_180d	Tipo de Dispositivo ao final do procedimento 6					Total
	1	2	3	4	NA	
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 182: Contingency table between readmission 180d and Óbito intraoperatório 6

readmission_180d	Óbito intraoperatório 6		Total
	0	NA	
0	65 (80%)	14212 (91%)	14277
1	16 (20%)	1473 (9%)	1489
Total	81 (100%)	15685 (100%)	15766

Table 183: Contingency table between readmission 180d and Tipo de Reoperação 7

readmission_180d	Tipo de Reoperação 7				Total
	1	2	3	NA	
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 184: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 7

readmission_180d	Tipo de Dispositivo ao final do procedimento 7					Total
	1	2	3	4	NA	
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 185: Contingency table between readmission 180d and Óbito intraoperatório 7

readmission_180d	Óbito intraoperatório 7		Total
	0	NA	
0	25 (78%)	14252 (91%)	14277
1	7 (22%)	1482 (9%)	1489
Total	32 (100%)	15734 (100%)	15766

Table 186: Contingency table between readmission 180d and Tipo de Reoperação 8

readmission_180d	Tipo de Reoperação 8			Total
	1	2	NA	
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 187: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 8

readmission_180d	Tipo de Dispositivo ao final do procedimento 8				Total
	1	2	4	NA	
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 188: Contingency table between readmission 180d and Óbito intraoperatório 8

readmission_180d	Óbito intraoperatório 8		Total
	0	NA	
0	10 (83%)	14267 (91%)	14277
1	2 (17%)	1487 (9%)	1489
Total	12 (100%)	15754 (100%)	15766

Table 189: Contingency table between readmission 180d and Tipo de Reoperação 9

readmission_180d	Tipo de Reoperação 9		Total
	2	NA	
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 Tipo de Dispositivo ao final do procedimento 9

readmission_180d	Tipo de Dispositivo ao final do procedimento 9			Total
	1	2	NA	
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 191: Contingency table between readmission 180d and Óbito intraoperatório 9

readmission_180d	Óbito intraoperatório 9		Total
	0	NA	
0	5 (100%)	14272 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	5 (100%)	15761 (100%)	15766

Table 192: Contingency table between readmission 180d and Tipo de Reoperação 10

readmission_180d	Tipo de Reoperação 10		Total
	2	NA	
0	1 (100%)	14276 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	1 (100%)	15765 (100%)	15766

Table 193: Contingency table between readmission 180d and Tipo de Dispositivo ao final do procedimento 10

readmission_180d	Tipo de Dispositivo ao final do procedimento 10		Total
	2	NA	
0	1 (100%)	14276 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	1 (100%)	15765 (100%)	15766

Table 194: Contingency table between readmission 180d and Óbito intraoperatório 10

readmission_180d	Óbito intraoperatório 10		Total
	0	NA	
0	1 (100%)	14276 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	1 (100%)	15765 (100%)	15766

Table 195: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 1 e Procedimento 2

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 1 e Procedimento 2			Total
	0	1	NA	
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 196: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 2 e Procedimento 3

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 2 e Procedimento 3			Total
	0	1	NA	
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 197: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 3 e Procedimento 4

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 3 e Procedimento 4			Total
	0	1	NA	
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 198: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 4 e Procedimento 5

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 4 e Procedimento 5			Total
	0	1	NA	
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 199: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 5 e Procedimento 6

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 5 e Procedimento 6			Total
	0	1	NA	
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 200: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 6 e Procedimento 7

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 6 e Procedimento 7			Total
	0	1	NA	
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 201: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 7 e Procedimento 8

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 7 e Procedimento 8			Total
	0	1	NA	
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 202: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 8 e Procedimento 9			Total
	0	NA		
0	5 (100%)	14272 (91%)		14277
1	0 (0%)	1489 (9%)		1489
Total	5 (100%)	15761 (100%)		15766

Table 203: Contingency table between readmission 180d and Mudança do tipo de DCEI: entre o Procedimento 9 e Procedimento 10

readmission_180d	Mudança do tipo de DCEI: entre o Procedimento 9 e Procedimento 10		Total
	0	NA	
0	1 (100%)	14276 (91%)	14277
1	0 (0%)	1489 (9%)	1489
Total	1 (100%)	15765 (100%)	15766

Table 204: Contingency table between readmission 180d and Diálise durante os episódios de hospitalização

readmission_180d	Diálise durante os episódios de hospitalização		Total
	0	1	
0	14246 (91%)	31 (70%)	14277
1	1476 (9%)	13 (30%)	1489
Total	15722 (100%)	44 (100%)	15766

Table 205: Contingency table between readmission 180d and UTI durante os episódios de hospitalização

readmission_180d	UTI durante os episódios de hospitalização		Total
	0	1	
0	11603 (92%)	2674 (83%)	14277
1	952 (8%)	537 (17%)	1489
Total	12555 (100%)	3211 (100%)	15766

Table 206: Contingency table between readmission 180d and Admissão em até 180 dias antes da T0

readmission_180d	Admissão em até 180 dias antes da T0		Total
	0	1	
0	13432 (91%)	845 (79%)	14277
1	1264 (9%)	225 (21%)	1489
Total	14696 (100%)	1070 (100%)	15766

Table 207: Contingency table between readmission 180d and Readmissões pós-T0 com diálise

readmission_180d	Readmissões pós-T0 com diálise				Total
	0	1	2	3	
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 208: Contingency table between readmission 180d and Desfecho principal da admissão T0

readmission_180d	Desfecho principal da admissão T0	
	0	Total
0	14277 (91%)	14277
1	1489 (9%)	1489
Total	15766 (100%)	15766

Table 209: Contingency table between readmission 180d and Readmissão cirúrgica em até 30 dias

readmission_180d	Readmissão cirúrgica em até 30 dias		Total
	0	1	
0	14277 (91%)	0 (0%)	14277
1	1352 (9%)	137 (100%)	1489
Total	15629 (100%)	137 (100%)	15766

Table 210: Contingency table between readmission 180d and Readmissão cirúrgica entre 31 a 60 dias

readmission_180d	Readmissão cirúrgica entre 31 a 60 dias		Total
	0	1	
0	14277 (91%)	0 (0%)	14277
1	1396 (9%)	93 (100%)	1489
Total	15673 (100%)	93 (100%)	15766

Table 211: Contingency table between readmission 180d and Readmissão cirúrgica entre 61 a 180 dias

readmission_180d	Readmissão cirúrgica entre 61 a 180 dias		Total
	0	1	
0	14277 (91%)	0 (0%)	14277
1	1340 (9%)	149 (100%)	1489
Total	15617 (100%)	149 (100%)	15766

Table 212: Contingency table between readmission 180d and Readmissão cirúrgica em até 1 ano

readmission_180d	Readmissão cirúrgica em até 1 ano		Total
	0	1	
0	14177 (91%)	100 (76%)	14277
1	1457 (9%)	32 (24%)	1489
Total	15634 (100%)	132 (100%)	15766

Table 213: Contingency table between readmission 180d and Desfecho final do estudo

readmission_180d	Desfecho final do estudo			Total
	1	2	3	
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 214: Contingency table between readmission 180d and Ventilação mecânica / IOT

readmission_180d	Ventilação mecânica / IOT		Total
	1	NA	
0	2450 (86%)	11827 (92%)	14277
1	399 (14%)	1090 (8%)	1489
Total	2849 (100%)	12917 (100%)	15766