Processing

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Imports

```
library(tidyverse)
library(readxl)
library(yaml)
library(lubridate)
```

Loading files

```
df <- read_csv("../dataset/BD Marcapasso_27jun22.csv", show_col_types = FALSE) %>%
    select(-record_id)
df_names <- read_excel("../dataset/Dicionario_dados_BD Marcapasso_27jun22.xlsx")</pre>
```

Fixing data dictionary

Separating columns by type

```
outcome_columns <- df_names %>%
  filter(str_detect(momento.aquisicao, 'Desfecho')) %>%
    .$variable.name

categorical_columns <- df_names %>%
  filter(stringr::str_detect(options..definition, '\\|')) %>%
    .$variable.name %>%
    setdiff(outcome_columns)

date_columns <- df_names %>%
  filter(options..definition == 'data') %>%
```

```
.$variable.name
location_columns <- c('zipcode', 'patient_city')</pre>
other_columns <- c('record_id')</pre>
numerical_columns <- setdiff(names(df),</pre>
                               c(categorical_columns, date_columns,
                                 location_columns, other_columns))
df[categorical_columns] <- lapply(df[categorical_columns],</pre>
                                     as.character)
df[outcome_columns] <- lapply(df[outcome_columns],</pre>
                                as.numeric)
df[date_columns] <- lapply(df[date_columns],</pre>
## Warning: 1 failed to parse.
columns_list <- list('categorical_columns' = categorical_columns,</pre>
                       'numerical_columns' = numerical_columns,
                       'date_columns' = date_columns,
                       'location_columns' = location_columns,
                       'outcome_columns' = outcome_columns)
con <- file('./auxiliar/columns_list.yaml', "w")</pre>
write_yaml(columns_list, con)
close(con)
```

Recalculating outcome columns for modeling

Saving processed data

```
saveRDS(df, "../dataset/processed_data.rds")
saveRDS(df_names, "../dataset/processed_dictionary.rds")

save(df, file = "../dataset/processed_data.RData")
save(df_names, file = "../dataset/processed_dictionary.RData")
```