read_dataset

Bo

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load library

```
library(ggplot2)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

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

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

```
library(haven)
library(tidyr)
library(readr)
library(stringr)
library(readxl)
library(gt)
```

read dataset

```
scd_data_yr2 <- read_sas("data/curesc_year2_v2.sas7bdat")
scd_data_yr3 <- read_sas("data/curesc_year3_v3.sas7bdat")
```

check yr3 yr3 data

```
bind_rows(scd_data_yr2[which(scd_data_yr2$DUMMYID == 75505098),],scd_data_yr3[which(scd_data_yr2$DUMMYI
```

```
## # A tibble: 2 x 163
##    DUMMYID STROKEHI ACSPSHI VOCPSHI RCMVPR TXNUM TXTYPE   SEX ETHNICIT DONORF
##      <dbl>    <dbl>   <dbl>   <dbl>  <dbl> <dbl>  <dbl> <dbl>    <dbl>  <dbl>
## 1 75505098        0       0       0      1     1      1     2        2      1
## 2 75505098        0       0       0      1     1      1     2        2      1
## # i 153 more variables: GRAFTYPE <dbl>, YEARTX <dbl>, COUNTRY <dbl>, AGE <dbl>,
## #   INTXSURV <dbl>, AGEGPFF <dbl>, KPS <dbl>, HCTCIGPF <dbl>, SUBDIS1F <dbl>,
## #   ATGF <dbl>, YEARGPF <dbl>, DEAD <dbl>, GVHD_FINAL <dbl>, CONDGRPF <dbl>,
## #   CONDGRP_FINAL <dbl>, HLA_FINAL <dbl>, FLAG_LANCET <dbl>, FLAG_BLOOD <dbl>,
## #   AGVHD <dbl>, INTXAGVHD <dbl>, CGVHD <dbl>, INTXCGVHD <dbl>, ANC <dbl>,
## #   INTXANC <dbl>, PLATELET <dbl>, INTXPLATELET <dbl>, GF <dbl>, INTXGF <dbl>,
## #   EFS <dbl>, DWOAGVHD <dbl>, DWOCGVHD <dbl>, DWOANC <dbl>, ...
```

```
yr2col_idx <- which(!colnames(scd_data_yr2) %in%  colnames(scd_data_yr3))
colnames(scd_data_yr2)[yr2col_idx]
```

```
## [1] "HCTFPR"    "INTXCDIAL"
```

```
scd_data_yr2[, yr2col_idx] #both contain more than 50% NA
```

```
## # A tibble: 1,492 x 2
##    HCTFPR INTXCDIAL
##     <dbl>     <dbl>
##  1     99        NA
##  2     99        NA
##  3     99        NA
##  4     99        NA
##  5     NA        NA
##  6     NA        NA
##  7     NA        NA
##  8     NA        NA
##  9      0        NA
## 10     99        NA
## # i 1,482 more rows
```

process metadata information

```
meta_yr3 <- readxl::read_excel("data/Codebook 2021 Year 3.xlsx",
                                        col_names = T)
meta_yr3 <- meta_yr3 %>%
  fill(`Variable name`, .direction = "down")

#cutoffs_3 <- stringr::str_which(meta_yr3$`Variable name`, ":")
cutoffs_3 <- which(rowSums(!is.na(meta_yr3)) == 1) #these are section titles

cutoff_names3 <- str_replace(meta_yr3$`Variable name`[cutoffs_3], ":", "")

group_yr3 <- c(rep(cutoff_names3[1], cutoffs_3[2] - 1),
               rep(cutoff_names3[2], cutoffs_3[3] - cutoffs_3[2]),
               rep(cutoff_names3[3], cutoffs_3[4] - cutoffs_3[3]),
```

```
               rep(cutoff_names3[4], cutoffs_3[5] - cutoffs_3[4]),
               rep(cutoff_names3[5], nrow(meta_yr3) -  cutoffs_3[5] + 1))

meta_yr3_lst <- split(meta_yr3, group_yr3)


meta_yr3_lst <- lapply(meta_yr3_lst, function(data_i){
  data_name <- str_replace(data_i$`Variable name`[1], ":", "")
  data <- data_i[-1, ]
  return(data)
})

meta_yr3_indata_lst <- lapply(meta_yr3_lst, function(data_i){
  indata_idx <- which(tolower(data_i$`Variable name`) %in% tolower(colnames(scd_data_yr3))|data_i$`Varia
  data <- data_i[indata_idx, ]
  return(unique(data$`Variable name`))
})
```

```
#remove variables that had a high missing rate, defined as greater than 80% (won't apply to outcome dat
# scd_data_yr2 <- scd_data_yr2 %>%
#   mutate(across(everything(), ~na_if(.x, 99))) %>%
#   mutate(across(everything(), ~na_if(.x, 98))) %>%
#   mutate(across(everything(), ~na_if(.x, -9))) %>%
#   select_if(~sum(is.na(.)) / nrow(scd_data_yr2) <= 0.2) %>%
#   select(where(~n_distinct(.x, na.rm = TRUE) > 1))

outcomevars <- meta_yr3_indata_lst$Outcomes
outcomevar_idx <- which(tolower(colnames(scd_data_yr3)) %in% tolower(outcomevars))


crfvars <- meta_yr3_indata_lst$`CRF data collection track only`
crf_idx <-  which(tolower(colnames(scd_data_yr3)) %in% tolower(crfvars))

scd_data_yr3 <- scd_data_yr3 %>%
  select(-all_of(crf_idx)) %>%
  mutate(across(!all_of(outcomevar_idx), ~na_if(.x, 99))) %>%
  mutate(across(!all_of(outcomevar_idx), ~na_if(.x, 98))) %>%
  mutate(across(!all_of(outcomevar_idx), ~na_if(.x, -9))) %>%
  select_if(~sum(is.na(.)) / nrow(scd_data_yr3) <= 0.2) %>%
  select(where(~n_distinct(.x, na.rm = TRUE) > 1))



meta_yr3_indata_lst_final <- setNames(lapply(1:length(meta_yr3_lst), function(i){
  data_i <- meta_yr3_lst[[i]]
  indata_idx <- which(tolower(data_i$`Variable name`) %in% tolower(colnames(scd_data_yr3))|data_i$`Varia
  data <- data_i[indata_idx, c("Variable name", "Description")] %>%
    drop_na() %>%
    distinct() %>%
    mutate(Category = names(meta_yr3_lst)[i]) %>%
    select(Category, everything())
  return(data)
}), names(meta_yr3_lst))
```

```
var_full <- data.frame(do.call(rbind, meta_yr3_indata_lst_final))

pred_full <- var_full %>% filter(Category != "Outcomes")
time_full <- var_full %>%
  filter(Category == "Outcomes" &
           str_detect(Description, "^Time"))
other_outcome_full <-  var_full %>%
  filter(Category == "Outcomes" &
           !str_detect(Description, "^Time"))


pred_full %>% knitr::kable(caption = "List of Predictors")
```

Table 1: List of Predictors

Category	Variable.name	Description
Disease-related	subdis1f	Disease genotype
Patient-related	Dummyid	Unique patient identifier
Patient-related	flag_lancet	Cases from 2019 Lancet Heamatology publication
Patient-related	flag_blood	Cases from 2016 Blood publication
Patient-related	flag_0601	Cases from BMT CTN 0601
Patient-related	age	Patient age at transplant, years
Patient-related	agegpff	Patient age at transplant, years
Patient-related	sex	Sex
Patient-related	ethnicit	Ethnicity
Patient-related	kps	Karnofsky/Lansky score at HCT
Patient-related	hctcigpf	HCT-comorbidity index
Tranplant-related	donorf	Donor type
Tranplant-related	graftype	Graft type
Tranplant-related	condgrpf	Conditioning intensity
Tranplant-related	condgrp_final	Conditioning regimen
Tranplant-related	atgf	ATG/Alemtuzumab given as conditioning regimen/GVHD prophylaxis
Tranplant-related	gvhd_final	GVHD prophylaxis
Tranplant-related	hla_final	Donor-recipient HLA matching
Tranplant-related	rcmvpr	Recipient CMV serostatus
Tranplant-related	yeargpf	Year of transplant
Tranplant-related	yeartx	Year of transplant

```
time_full %>% knitr::kable(caption = "List of Time-to-Event Variables")
```

Table 2: List of Time-to-Event Variables

Category	Variable.name	Description
Outcomes	intxsurv	Time from HCT to date of last contact or death, months
Outcomes	intxgf	Time from HCT to graft failure, months
Outcomes	intxanc	Time from HCT to neutrophil engraftment, months
Outcomes	intxplatelet	Time from HCT to platelet recovery, months
Outcomes	intxagvhd	Time from HCT to acute graft-vs-host disease, months
Outcomes	intxcgvhd	Time from HCT to chronic graft-vs-host disease, months

Category	Variable.name	Description
Outcomes	intxptld	Time from HCT to PTLD, months
Outcomes	intxscdmal	Time from HCT to second malignancy, months

```
other_outcome_full %>% knitr::kable(caption = "List of Outcome Varaibles (Exclude Time-to-Event)")
```

Table 3: List of Outcome Varaibles (Exclude Time-to-Event)

Category	Variable.name	Description
Outcomes	dead	Survival status at last contact
Outcomes	efs	Event-free survival (Graft failure or death are the events)
Outcomes	gf	Graft failure
Outcomes	dwogf	Death without graft failure
Outcomes	anc	Neutrophil engraftment
Outcomes	dwoanc	Death without neutrophil engraftment
Outcomes	platelet	Platelet recovery
Outcomes	dwoplatelet	Death without platelet recovery
Outcomes	agvhd	Acute graft versus host disease, grades II-IV
Outcomes	dwoagvhd	Death without acute graft versus host disease, grades II-IV
Outcomes	cgvhd	Chronic graft-vs-host disease
Outcomes	dwocgvhd	Death without chronic graft-vs-host disease
Outcomes	ptld	Post-transplant lymphoproliferative disorder (PTLD)
Outcomes	scdmal_final	Secondary malignancy

```
## COMMENTED OFF after deciding not use yr2 data

# meta_yr2 <- readxl::read_excel("data/Codebook 2020 Year 2.xlsx",
#                                           col_names = T)
#
# meta_yr2 <- meta_yr2 %>%
#   fill(`Variable name`, .direction = "down")
#
# cutoffs_2 <- stringr::str_which(meta_yr2$`Variable name`, ":")
# cutoff_names2 <- str_replace(meta_yr2$`Variable name`[cutoffs_2], ":", "")
#
# group_yr2 <- c(rep(cutoff_names2[1], cutoffs_2[2] - 1),
#                rep(cutoff_names2[2], cutoffs_2[3] - cutoffs_2[2]),
#                rep(cutoff_names2[3], nrow(meta_yr2) -  cutoffs_2[3] + 1))
#
# meta_yr2_lst <- split(meta_yr2, group_yr2)
#
#
# meta_yr2_lst <- lapply(meta_yr2_lst, function(data_i){
#   data_name <- str_replace(data_i$`Variable name`[1], ":", "")
#   data <- data_i[-1, ]
#   return(data)
# })

# scd_data_yr2_label <- lapply(colnames(scd_data_yr2), function(col_i){
#   if(col_i == "RACEG"){
```

```
#     label_df <- meta_yr2[which(tolower(meta_yr2$`Variable name`) ==
#                                  tolower("RACEGP")), ]
#   } else{
#     label_df <- meta_yr2[which(tolower(meta_yr2$`Variable name`) == tolower(col_i)), ]
#   }
#
#
#   if(nrow(label_df) > 0 & !all(is.na(label_df$Value))){
#     ret <- scd_data_yr2[, col_i, drop = T]
#     ret <- tibble(label_df$Label[match(as.character(ret), label_df$Value)])
#     names(ret) <- col_i
#   } else{
#     if(nrow(label_df) == 0){print(col_i)}
#     ret <- scd_data_yr2[, col_i]
#   }
#   ret
# })
#
# scd_data_yr2_label <- do.call(cbind, scd_data_yr2_label)
```

```
scd_data_yr3_label <- lapply(colnames(scd_data_yr3), function(col_i){
  if(col_i == "RACEG"){
    label_df <- meta_yr3[which(tolower(meta_yr3$`Variable name`) ==
                                 tolower("RACEGP")), ]
  } else{
    label_df <- meta_yr3[which(tolower(meta_yr3$`Variable name`) == tolower(col_i)), ]
  }

  if(nrow(label_df) > 0 & !all(is.na(label_df$Value))){
    ret <- scd_data_yr3[, col_i, drop = T]
    ret <- tibble(label_df$Label[match(as.character(ret), label_df$Value)])
    names(ret) <- col_i
  } else{
    if(nrow(label_df) == 0){print(col_i)}
    ret <- scd_data_yr3[, col_i]
  }
  ret
})

scd_data_yr3_label <- do.call(cbind, scd_data_yr3_label)
```

```
summarize_data <- function(df, id_cols){
num_vars <- purrr::map_lgl(df %>% select(-all_of(id_cols), -RACEG),
                           is.numeric)

cont_vars <- names(num_vars)[num_vars]
cat_vars <- colnames(df %>%
                       select(-all_of(id_cols)))[which(!colnames(df %>%
                       select(-all_of(id_cols))) %in% cont_vars)]

cont_sum <- df %>%
  select(all_of(cont_vars))%>%
  mutate(across(c(cont_vars),
```

```
                    list(`mean (sd)` = ~ paste0(round(mean(.x, na.rm = T),2) ,
                                                " (",
                                           round(sd(.x, na.rm = T), 2),  ")")
                                ),
                    .names = "{.col}")) %>%
  distinct() %>%
  t(.) %>%
  data.frame(.)

#colnames(cont_sum) <- cont_sum[1, ]
#cont_sum <- cont_sum[-1, ]

cat_sum <- df %>%
  select(all_of(cat_vars)) %>%
  mutate(across(c(cat_vars), as.factor))

cat_sum_wide <- cat_sum %>%
  mutate(id = row_number())%>%
  select(id)

 purrr::walk(seq_len(length(cat_vars)), function(i){
    covar_i <- cat_vars[i]
    temp_df_cat <- cat_sum[ , covar_i, drop = FALSE]
    temp_df_wide <- temp_df_cat %>%
      dplyr::mutate(value = 1, id = row_number()) %>%
      pivot_wider(id_cols = c(id),
                  values_from = value,
                  names_from = !!sym(covar_i),
                  names_prefix = paste0(covar_i, ":"),
                  values_fill = 0)

      cat_sum_wide <<- cat_sum_wide %>%
      left_join(temp_df_wide, by = c("id" = "id"))
    })

#cat_sum_wide

cat_sum <- cat_sum_wide %>%
  select(-id) %>%
  mutate(across(everything(),
                list(`n (%)` = ~paste0(sum(.x) , " (",
                                       round(mean(.x) * 100, 2),
                                       "%)")
                    ),
                .names = "{.col}")) %>%
  distinct() %>%
  t(.) %>%
  data.frame(.)

colnames(cont_sum) <- "value"
colnames(cat_sum) <- "value"

ret1 <- cont_sum %>%
```

```
  mutate(var = rownames(.)) %>%
  gt::gt(rowname_col = "var")

ret2 <- cat_sum %>%
  mutate(cat = rownames(.),
         group_cat = str_split(cat, ":", simplify = T)[, 1],
         cat_label = str_split(cat, ":", simplify = T)[, 2]) %>%
  select(-cat) %>%
  gt::gt(rowname_col = "cat_label",
     groupname_col = "group_cat")


return(list(ret1, ret2))
}
```

```
summarize_data(scd_data_yr3_label, "DUMMYID")
```

```
## Warning: There was 1 warning in `mutate()`.
## i In argument: `across(...)`.
## Caused by warning:
## ! Using an external vector in selections was deprecated in tidyselect 1.1.0.
## i Please use `all_of()` or `any_of()` instead.
##   # Was:
##   data %>% select(cont_vars)
##
##   # Now:
##   data %>% select(all_of(cont_vars))
##
## See <https://tidyselect.r-lib.org/reference/faq-external-vector.html>.

## Warning: There was 1 warning in `mutate()`.
## i In argument: `across(c(cat_vars), as.factor)`.
## Caused by warning:
## ! Using an external vector in selections was deprecated in tidyselect 1.1.0.
## i Please use `all_of()` or `any_of()` instead.
##   # Was:
##   data %>% select(cat_vars)
##
##   # Now:
##   data %>% select(all_of(cat_vars))
##
## See <https://tidyselect.r-lib.org/reference/faq-external-vector.html>.

## [[1]]
## <div id="bbudvkndaj" style="padding-left:0px;padding-right:0px;padding-top:10px;padding-bottom:10px;
##   <style>#bbudvkndaj table {
##   font-family: system-ui, 'Segoe UI', Roboto, Helvetica, Arial, sans-serif, 'Apple Color Emoji', 'Se
##   -webkit-font-smoothing: antialiased;
##   -moz-osx-font-smoothing: grayscale;
## }
##
## #bbudvkndaj thead, #bbudvkndaj tbody, #bbudvkndaj tfoot, #bbudvkndaj tr, #bbudvkndaj td, #bbudvkndaj
```

```
##   border-style: none;
## }
##
## #bbudvkndaj p {
##   margin: 0;
##   padding: 0;
## }
##
## #bbudvkndaj .gt_table {
##   display: table;
##   border-collapse: collapse;
##   line-height: normal;
##   margin-left: auto;
##   margin-right: auto;
##   color: #333333;
##   font-size: 16px;
##   font-weight: normal;
##   font-style: normal;
##   background-color: #FFFFFF;
##   width: auto;
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #A8A8A8;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #A8A8A8;
##   border-left-style: none;
##   border-left-width: 2px;
##   border-left-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_caption {
##   padding-top: 4px;
##   padding-bottom: 4px;
## }
##
## #bbudvkndaj .gt_title {
##   color: #333333;
##   font-size: 125%;
##   font-weight: initial;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-color: #FFFFFF;
##   border-bottom-width: 0;
## }
##
## #bbudvkndaj .gt_subtitle {
##   color: #333333;
##   font-size: 85%;
```

```
##   font-weight: initial;
##   padding-top: 3px;
##   padding-bottom: 5px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-top-color: #FFFFFF;
##   border-top-width: 0;
## }
##
## #bbudvkndaj .gt_heading {
##   background-color: #FFFFFF;
##   text-align: center;
##   border-bottom-color: #FFFFFF;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_bottom_border {
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_col_headings {
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_col_heading {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: normal;
##   text-transform: inherit;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
```

```
##   vertical-align: bottom;
##   padding-top: 5px;
##   padding-bottom: 6px;
##   padding-left: 5px;
##   padding-right: 5px;
##   overflow-x: hidden;
## }
##
## #bbudvkndaj .gt_column_spanner_outer {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: normal;
##   text-transform: inherit;
##   padding-top: 0;
##   padding-bottom: 0;
##   padding-left: 4px;
##   padding-right: 4px;
## }
##
## #bbudvkndaj .gt_column_spanner_outer:first-child {
##   padding-left: 0;
## }
##
## #bbudvkndaj .gt_column_spanner_outer:last-child {
##   padding-right: 0;
## }
##
## #bbudvkndaj .gt_column_spanner {
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   vertical-align: bottom;
##   padding-top: 5px;
##   padding-bottom: 5px;
##   overflow-x: hidden;
##   display: inline-block;
##   width: 100%;
## }
##
## #bbudvkndaj .gt_spanner_row {
##   border-bottom-style: hidden;
## }
##
## #bbudvkndaj .gt_group_heading {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
```

```
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
##   vertical-align: middle;
##   text-align: left;
## }
##
## #bbudvkndaj .gt_empty_group_heading {
##   padding: 0.5px;
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   vertical-align: middle;
## }
##
## #bbudvkndaj .gt_from_md > :first-child {
##   margin-top: 0;
## }
##
## #bbudvkndaj .gt_from_md > :last-child {
##   margin-bottom: 0;
## }
##
## #bbudvkndaj .gt_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   margin: 10px;
##   border-top-style: solid;
##   border-top-width: 1px;
##   border-top-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
```

```
##   vertical-align: middle;
##   overflow-x: hidden;
## }
##
## #bbudvkndaj .gt_stub {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
##   border-right-style: solid;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #bbudvkndaj .gt_stub_row_group {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
##   border-right-style: solid;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   padding-left: 5px;
##   padding-right: 5px;
##   vertical-align: top;
## }
##
## #bbudvkndaj .gt_row_group_first td {
##   border-top-width: 2px;
## }
##
## #bbudvkndaj .gt_row_group_first th {
##   border-top-width: 2px;
## }
##
## #bbudvkndaj .gt_summary_row {
##   color: #333333;
##   background-color: #FFFFFF;
##   text-transform: inherit;
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #bbudvkndaj .gt_first_summary_row {
##   border-top-style: solid;
##   border-top-color: #D3D3D3;
## }
##
```

```
## #bbudvkndaj .gt_first_summary_row.thick {
##   border-top-width: 2px;
## }
##
## #bbudvkndaj .gt_last_summary_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_grand_summary_row {
##   color: #333333;
##   background-color: #FFFFFF;
##   text-transform: inherit;
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #bbudvkndaj .gt_first_grand_summary_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-top-style: double;
##   border-top-width: 6px;
##   border-top-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_last_grand_summary_row_top {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-style: double;
##   border-bottom-width: 6px;
##   border-bottom-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_striped {
##   background-color: rgba(128, 128, 128, 0.05);
## }
##
## #bbudvkndaj .gt_table_body {
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
```

```
##   border-bottom-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_footnotes {
##   color: #333333;
##   background-color: #FFFFFF;
##   border-bottom-style: none;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 2px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_footnote {
##   margin: 0px;
##   font-size: 90%;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #bbudvkndaj .gt_sourcenotes {
##   color: #333333;
##   background-color: #FFFFFF;
##   border-bottom-style: none;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 2px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
## }
##
## #bbudvkndaj .gt_sourcenote {
##   font-size: 90%;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #bbudvkndaj .gt_left {
##   text-align: left;
## }
##
## #bbudvkndaj .gt_center {
##   text-align: center;
```

```
## }
##
## #bbudvkndaj .gt_right {
##   text-align: right;
##   font-variant-numeric: tabular-nums;
## }
##
## #bbudvkndaj .gt_font_normal {
##   font-weight: normal;
## }
##
## #bbudvkndaj .gt_font_bold {
##   font-weight: bold;
## }
##
## #bbudvkndaj .gt_font_italic {
##   font-style: italic;
## }
##
## #bbudvkndaj .gt_super {
##   font-size: 65%;
## }
##
## #bbudvkndaj .gt_footnote_marks {
##   font-size: 75%;
##   vertical-align: 0.4em;
##   position: initial;
## }
##
## #bbudvkndaj .gt_asterisk {
##   font-size: 100%;
##   vertical-align: 0;
## }
##
## #bbudvkndaj .gt_indent_1 {
##   text-indent: 5px;
## }
##
## #bbudvkndaj .gt_indent_2 {
##   text-indent: 10px;
## }
##
## #bbudvkndaj .gt_indent_3 {
##   text-indent: 15px;
## }
##
## #bbudvkndaj .gt_indent_4 {
##   text-indent: 20px;
## }
##
## #bbudvkndaj .gt_indent_5 {
##   text-indent: 25px;
## }
## </style>
```

```
##   <table class="gt_table" data-quarto-disable-processing="false" data-quarto-bootstrap="false">
##   <thead>
##     <tr class="gt_col_headings">
##       <th class="gt_col_heading gt_columns_bottom_border gt_left" rowspan="1" colspan="1" scope="col
##       <th class="gt_col_heading gt_columns_bottom_border gt_right" rowspan="1" colspan="1" scope="co
##     </tr>
##   </thead>
##   <tbody class="gt_table_body">
##     <tr><th id="stub_1_1" scope="row" class="gt_row gt_left gt_stub">YEARTX</th>
## <td headers="stub_1_1 value" class="gt_row gt_right">2012.92 (5.88)</td></tr>
##     <tr><th id="stub_1_2" scope="row" class="gt_row gt_left gt_stub">AGE</th>
## <td headers="stub_1_2 value" class="gt_row gt_right">13.82 (9.77)</td></tr>
##     <tr><th id="stub_1_3" scope="row" class="gt_row gt_left gt_stub">INTXSURV</th>
## <td headers="stub_1_3 value" class="gt_row gt_right">55.2 (49.05)</td></tr>
##     <tr><th id="stub_1_4" scope="row" class="gt_row gt_left gt_stub">INTXGF</th>
## <td headers="stub_1_4 value" class="gt_row gt_right">46.49 (47.15)</td></tr>
##     <tr><th id="stub_1_5" scope="row" class="gt_row gt_left gt_stub">INTXANC</th>
## <td headers="stub_1_5 value" class="gt_row gt_right">0.58 (0.57)</td></tr>
##     <tr><th id="stub_1_6" scope="row" class="gt_row gt_left gt_stub">INTXPLATELET</th>
## <td headers="stub_1_6 value" class="gt_row gt_right">1.47 (8.02)</td></tr>
##     <tr><th id="stub_1_7" scope="row" class="gt_row gt_left gt_stub">INTXAGVHD</th>
## <td headers="stub_1_7 value" class="gt_row gt_right">45.24 (48.4)</td></tr>
##     <tr><th id="stub_1_8" scope="row" class="gt_row gt_left gt_stub">INTXCGVHD</th>
## <td headers="stub_1_8 value" class="gt_row gt_right">44.93 (48.8)</td></tr>
##     <tr><th id="stub_1_9" scope="row" class="gt_row gt_left gt_stub">INTXSCDMAL</th>
## <td headers="stub_1_9 value" class="gt_row gt_right">55 (48.83)</td></tr>
##     <tr><th id="stub_1_10" scope="row" class="gt_row gt_left gt_stub">INTXPTLD</th>
## <td headers="stub_1_10 value" class="gt_row gt_right">55.11 (49.2)</td></tr>
##   </tbody>
##
##
## </table>
## </div>
##
## [[2]]
## <div id="nrqychctnn" style="padding-left:0px;padding-right:0px;padding-top:10px;padding-bottom:10px;
##   <style>#nrqychctnn table {
##   font-family: system-ui, 'Segoe UI', Roboto, Helvetica, Arial, sans-serif, 'Apple Color Emoji', 'Seg
##   -webkit-font-smoothing: antialiased;
##   -moz-osx-font-smoothing: grayscale;
## }
##
## #nrqychctnn thead, #nrqychctnn tbody, #nrqychctnn tfoot, #nrqychctnn tr, #nrqychctnn td, #nrqychctnn
##   border-style: none;
## }
##
## #nrqychctnn p {
##   margin: 0;
##   padding: 0;
## }
##
## #nrqychctnn .gt_table {
##   display: table;
##   border-collapse: collapse;
```

```
##   line-height: normal;
##   margin-left: auto;
##   margin-right: auto;
##   color: #333333;
##   font-size: 16px;
##   font-weight: normal;
##   font-style: normal;
##   background-color: #FFFFFF;
##   width: auto;
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #A8A8A8;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #A8A8A8;
##   border-left-style: none;
##   border-left-width: 2px;
##   border-left-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_caption {
##   padding-top: 4px;
##   padding-bottom: 4px;
## }
##
## #nrqychctnn .gt_title {
##   color: #333333;
##   font-size: 125%;
##   font-weight: initial;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-color: #FFFFFF;
##   border-bottom-width: 0;
## }
##
## #nrqychctnn .gt_subtitle {
##   color: #333333;
##   font-size: 85%;
##   font-weight: initial;
##   padding-top: 3px;
##   padding-bottom: 5px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-top-color: #FFFFFF;
##   border-top-width: 0;
## }
##
## #nrqychctnn .gt_heading {
##   background-color: #FFFFFF;
```

```
##   text-align: center;
##   border-bottom-color: #FFFFFF;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_bottom_border {
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_col_headings {
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_col_heading {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: normal;
##   text-transform: inherit;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
##   vertical-align: bottom;
##   padding-top: 5px;
##   padding-bottom: 6px;
##   padding-left: 5px;
##   padding-right: 5px;
##   overflow-x: hidden;
## }
##
## #nrqychctnn .gt_column_spanner_outer {
##   color: #333333;
##   background-color: #FFFFFF;
```

```
##   font-size: 100%;
##   font-weight: normal;
##   text-transform: inherit;
##   padding-top: 0;
##   padding-bottom: 0;
##   padding-left: 4px;
##   padding-right: 4px;
## }
##
## #nrqychctnn .gt_column_spanner_outer:first-child {
##   padding-left: 0;
## }
##
## #nrqychctnn .gt_column_spanner_outer:last-child {
##   padding-right: 0;
## }
##
## #nrqychctnn .gt_column_spanner {
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   vertical-align: bottom;
##   padding-top: 5px;
##   padding-bottom: 5px;
##   overflow-x: hidden;
##   display: inline-block;
##   width: 100%;
## }
##
## #nrqychctnn .gt_spanner_row {
##   border-bottom-style: hidden;
## }
##
## #nrqychctnn .gt_group_heading {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
```

```
##   border-right-color: #D3D3D3;
##   vertical-align: middle;
##   text-align: left;
## }
##
## #nrqychctnn .gt_empty_group_heading {
##   padding: 0.5px;
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   vertical-align: middle;
## }
##
## #nrqychctnn .gt_from_md > :first-child {
##   margin-top: 0;
## }
##
## #nrqychctnn .gt_from_md > :last-child {
##   margin-bottom: 0;
## }
##
## #nrqychctnn .gt_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   margin: 10px;
##   border-top-style: solid;
##   border-top-width: 1px;
##   border-top-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 1px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 1px;
##   border-right-color: #D3D3D3;
##   vertical-align: middle;
##   overflow-x: hidden;
## }
##
## #nrqychctnn .gt_stub {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
##   border-right-style: solid;
```

```
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #nrqychctnn .gt_stub_row_group {
##   color: #333333;
##   background-color: #FFFFFF;
##   font-size: 100%;
##   font-weight: initial;
##   text-transform: inherit;
##   border-right-style: solid;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
##   padding-left: 5px;
##   padding-right: 5px;
##   vertical-align: top;
## }
##
## #nrqychctnn .gt_row_group_first td {
##   border-top-width: 2px;
## }
##
## #nrqychctnn .gt_row_group_first th {
##   border-top-width: 2px;
## }
##
## #nrqychctnn .gt_summary_row {
##   color: #333333;
##   background-color: #FFFFFF;
##   text-transform: inherit;
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #nrqychctnn .gt_first_summary_row {
##   border-top-style: solid;
##   border-top-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_first_summary_row.thick {
##   border-top-width: 2px;
## }
##
## #nrqychctnn .gt_last_summary_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
```

```
##   border-bottom-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_grand_summary_row {
##   color: #333333;
##   background-color: #FFFFFF;
##   text-transform: inherit;
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #nrqychctnn .gt_first_grand_summary_row {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-top-style: double;
##   border-top-width: 6px;
##   border-top-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_last_grand_summary_row_top {
##   padding-top: 8px;
##   padding-bottom: 8px;
##   padding-left: 5px;
##   padding-right: 5px;
##   border-bottom-style: double;
##   border-bottom-width: 6px;
##   border-bottom-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_striped {
##   background-color: rgba(128, 128, 128, 0.05);
## }
##
## #nrqychctnn .gt_table_body {
##   border-top-style: solid;
##   border-top-width: 2px;
##   border-top-color: #D3D3D3;
##   border-bottom-style: solid;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_footnotes {
##   color: #333333;
##   background-color: #FFFFFF;
##   border-bottom-style: none;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 2px;
```

```
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_footnote {
##   margin: 0px;
##   font-size: 90%;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #nrqychctnn .gt_sourcenotes {
##   color: #333333;
##   background-color: #FFFFFF;
##   border-bottom-style: none;
##   border-bottom-width: 2px;
##   border-bottom-color: #D3D3D3;
##   border-left-style: none;
##   border-left-width: 2px;
##   border-left-color: #D3D3D3;
##   border-right-style: none;
##   border-right-width: 2px;
##   border-right-color: #D3D3D3;
## }
##
## #nrqychctnn .gt_sourcenote {
##   font-size: 90%;
##   padding-top: 4px;
##   padding-bottom: 4px;
##   padding-left: 5px;
##   padding-right: 5px;
## }
##
## #nrqychctnn .gt_left {
##   text-align: left;
## }
##
## #nrqychctnn .gt_center {
##   text-align: center;
## }
##
## #nrqychctnn .gt_right {
##   text-align: right;
##   font-variant-numeric: tabular-nums;
## }
##
## #nrqychctnn .gt_font_normal {
##   font-weight: normal;
## }
##
```

```
## #nrqychctnn .gt_font_bold {
##   font-weight: bold;
## }
##
## #nrqychctnn .gt_font_italic {
##   font-style: italic;
## }
##
## #nrqychctnn .gt_super {
##   font-size: 65%;
## }
##
## #nrqychctnn .gt_footnote_marks {
##   font-size: 75%;
##   vertical-align: 0.4em;
##   position: initial;
## }
##
## #nrqychctnn .gt_asterisk {
##   font-size: 100%;
##   vertical-align: 0;
## }
##
## #nrqychctnn .gt_indent_1 {
##   text-indent: 5px;
## }
##
## #nrqychctnn .gt_indent_2 {
##   text-indent: 10px;
## }
##
## #nrqychctnn .gt_indent_3 {
##   text-indent: 15px;
## }
##
## #nrqychctnn .gt_indent_4 {
##   text-indent: 20px;
## }
##
## #nrqychctnn .gt_indent_5 {
##   text-indent: 25px;
## }
## </style>
##   <table class="gt_table" data-quarto-disable-processing="false" data-quarto-bootstrap="false">
##   <thead>
##     <tr class="gt_col_headings">
##       <th class="gt_col_heading gt_columns_bottom_border gt_left" rowspan="1" colspan="1" scope="col
##       <th class="gt_col_heading gt_columns_bottom_border gt_right" rowspan="1" colspan="1" scope="co
##     </tr>
##   </thead>
##   <tbody class="gt_table_body">
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="RCMVPR">RCMVPR</th>
##     </tr>
```

```
##     <tr class="gt_row_group_first"><th id="stub_1_1" scope="row" class="gt_row gt_left gt_stub">Posi
## <td headers="RCMVPR stub_1_1 value" class="gt_row gt_right">765 (46.62%)</td></tr>
##     <tr><th id="stub_1_2" scope="row" class="gt_row gt_left gt_stub">Negative</th>
## <td headers="RCMVPR stub_1_2 value" class="gt_row gt_right">745 (45.4%)</td></tr>
##     <tr><th id="stub_1_3" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="RCMVPR stub_1_3 value" class="gt_row gt_right">131 (7.98%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="SEX">SEX</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_4" scope="row" class="gt_row gt_left gt_stub">Femal
## <td headers="SEX stub_1_4 value" class="gt_row gt_right">752 (45.83%)</td></tr>
##     <tr><th id="stub_1_5" scope="row" class="gt_row gt_left gt_stub">Male</th>
## <td headers="SEX stub_1_5 value" class="gt_row gt_right">889 (54.17%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="ETHNICIT">ETHNICIT</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_6" scope="row" class="gt_row gt_left gt_stub">Non-H
## <td headers="ETHNICIT stub_1_6 value" class="gt_row gt_right">1258 (76.66%)</td></tr>
##     <tr><th id="stub_1_7" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="ETHNICIT stub_1_7 value" class="gt_row gt_right">226 (13.77%)</td></tr>
##     <tr><th id="stub_1_8" scope="row" class="gt_row gt_left gt_stub">Hispanic or Latino</th>
## <td headers="ETHNICIT stub_1_8 value" class="gt_row gt_right">126 (7.68%)</td></tr>
##     <tr><th id="stub_1_9" scope="row" class="gt_row gt_left gt_stub">Non-resident of the U.S.</th>
## <td headers="ETHNICIT stub_1_9 value" class="gt_row gt_right">31 (1.89%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DONORF">DONORF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_10" scope="row" class="gt_row gt_left gt_stub">HLA
## <td headers="DONORF stub_1_10 value" class="gt_row gt_right">1010 (61.55%)</td></tr>
##     <tr><th id="stub_1_11" scope="row" class="gt_row gt_left gt_stub">Mismatched unrelated donor and
## <td headers="DONORF stub_1_11 value" class="gt_row gt_right">175 (10.66%)</td></tr>
##     <tr><th id="stub_1_12" scope="row" class="gt_row gt_left gt_stub">Matched unrelated donor</th>
## <td headers="DONORF stub_1_12 value" class="gt_row gt_right">167 (10.18%)</td></tr>
##     <tr><th id="stub_1_13" scope="row" class="gt_row gt_left gt_stub">HLA mismatch relative</th>
## <td headers="DONORF stub_1_13 value" class="gt_row gt_right">289 (17.61%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="GRAFTYPE">GRAFTYPE</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_14" scope="row" class="gt_row gt_left gt_stub">Peri
## <td headers="GRAFTYPE stub_1_14 value" class="gt_row gt_right">333 (20.29%)</td></tr>
##     <tr><th id="stub_1_15" scope="row" class="gt_row gt_left gt_stub">Bone marrow</th>
## <td headers="GRAFTYPE stub_1_15 value" class="gt_row gt_right">1137 (69.29%)</td></tr>
##     <tr><th id="stub_1_16" scope="row" class="gt_row gt_left gt_stub">Umbilical cord blood</th>
## <td headers="GRAFTYPE stub_1_16 value" class="gt_row gt_right">171 (10.42%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="AGEGPFF">AGEGPFF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_17" scope="row" class="gt_row gt_left gt_stub">18-1
## <td headers="AGEGPFF stub_1_17 value" class="gt_row gt_right">309 (18.83%)</td></tr>
##     <tr><th id="stub_1_18" scope="row" class="gt_row gt_left gt_stub">&amp;lt;=10</th>
## <td headers="AGEGPFF stub_1_18 value" class="gt_row gt_right">718 (43.75%)</td></tr>
##     <tr><th id="stub_1_19" scope="row" class="gt_row gt_left gt_stub">11-17</th>
## <td headers="AGEGPFF stub_1_19 value" class="gt_row gt_right">487 (29.68%)</td></tr>
##     <tr><th id="stub_1_20" scope="row" class="gt_row gt_left gt_stub">30-49</th>
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## <td headers="AGEGPFF stub_1_20 value" class="gt_row gt_right">114 (6.95%)</td></tr>
##     <tr><th id="stub_1_21" scope="row" class="gt_row gt_left gt_stub">&gt;=50</th>
## <td headers="AGEGPFF stub_1_21 value" class="gt_row gt_right">13 (0.79%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="KPS">KPS</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_22" scope="row" class="gt_row gt_left gt_stub">&lt
## <td headers="KPS stub_1_22 value" class="gt_row gt_right">256 (15.6%)</td></tr>
##     <tr><th id="stub_1_23" scope="row" class="gt_row gt_left gt_stub">&gt;=90</th>
## <td headers="KPS stub_1_23 value" class="gt_row gt_right">1226 (74.71%)</td></tr>
##     <tr><th id="stub_1_24" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="KPS stub_1_24 value" class="gt_row gt_right">159 (9.69%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="HCTCIGPF">HCTCIGPF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_25" scope="row" class="gt_row gt_left gt_stub">NA<
## <td headers="HCTCIGPF stub_1_25 value" class="gt_row gt_right">263 (16.03%)</td></tr>
##     <tr><th id="stub_1_26" scope="row" class="gt_row gt_left gt_stub">0-2</th>
## <td headers="HCTCIGPF stub_1_26 value" class="gt_row gt_right">903 (55.03%)</td></tr>
##     <tr><th id="stub_1_27" scope="row" class="gt_row gt_left gt_stub">3+</th>
## <td headers="HCTCIGPF stub_1_27 value" class="gt_row gt_right">475 (28.95%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="SUBDIS1F">SUBDIS1F</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_28" scope="row" class="gt_row gt_left gt_stub">Hem
## <td headers="SUBDIS1F stub_1_28 value" class="gt_row gt_right">1558 (94.94%)</td></tr>
##     <tr><th id="stub_1_29" scope="row" class="gt_row gt_left gt_stub">Hemoglobin Sß-thalassemia</th>
## <td headers="SUBDIS1F stub_1_29 value" class="gt_row gt_right">83 (5.06%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="ATGF">ATGF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_30" scope="row" class="gt_row gt_left gt_stub">Ale
## <td headers="ATGF stub_1_30 value" class="gt_row gt_right">700 (42.66%)</td></tr>
##     <tr><th id="stub_1_31" scope="row" class="gt_row gt_left gt_stub">None</th>
## <td headers="ATGF stub_1_31 value" class="gt_row gt_right">134 (8.17%)</td></tr>
##     <tr><th id="stub_1_32" scope="row" class="gt_row gt_left gt_stub">ATG</th>
## <td headers="ATGF stub_1_32 value" class="gt_row gt_right">780 (47.53%)</td></tr>
##     <tr><th id="stub_1_33" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="ATGF stub_1_33 value" class="gt_row gt_right">27 (1.65%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="YEARGPF">YEARGPF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_34" scope="row" class="gt_row gt_left gt_stub">&lt
## <td headers="YEARGPF stub_1_34 value" class="gt_row gt_right">264 (16.09%)</td></tr>
##     <tr><th id="stub_1_35" scope="row" class="gt_row gt_left gt_stub">2008-2012</th>
## <td headers="YEARGPF stub_1_35 value" class="gt_row gt_right">339 (20.66%)</td></tr>
##     <tr><th id="stub_1_36" scope="row" class="gt_row gt_left gt_stub">2013-2017</th>
## <td headers="YEARGPF stub_1_36 value" class="gt_row gt_right">640 (39%)</td></tr>
##     <tr><th id="stub_1_37" scope="row" class="gt_row gt_left gt_stub">2018-2020</th>
## <td headers="YEARGPF stub_1_37 value" class="gt_row gt_right">398 (24.25%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="GVHD_FINAL">GVHD_FINAL</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_38" scope="row" class="gt_row gt_left gt_stub">CNI
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## <td headers="GVHD_FINAL stub_1_38 value" class="gt_row gt_right">110 (6.7%)</td></tr>
##     <tr><th id="stub_1_39" scope="row" class="gt_row gt_left gt_stub">CNI + MTX</th>
## <td headers="GVHD_FINAL stub_1_39 value" class="gt_row gt_right">710 (43.27%)</td></tr>
##     <tr><th id="stub_1_40" scope="row" class="gt_row gt_left gt_stub">MTX alone</th>
## <td headers="GVHD_FINAL stub_1_40 value" class="gt_row gt_right">12 (0.73%)</td></tr>
##     <tr><th id="stub_1_41" scope="row" class="gt_row gt_left gt_stub">CNI + MMF</th>
## <td headers="GVHD_FINAL stub_1_41 value" class="gt_row gt_right">308 (18.77%)</td></tr>
##     <tr><th id="stub_1_42" scope="row" class="gt_row gt_left gt_stub">Ex-vivo T-cell depletion</th>
## <td headers="GVHD_FINAL stub_1_42 value" class="gt_row gt_right">25 (1.52%)</td></tr>
##     <tr><th id="stub_1_43" scope="row" class="gt_row gt_left gt_stub">CD 34 selection</th>
## <td headers="GVHD_FINAL stub_1_43 value" class="gt_row gt_right">61 (3.72%)</td></tr>
##     <tr><th id="stub_1_44" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="GVHD_FINAL stub_1_44 value" class="gt_row gt_right">34 (2.07%)</td></tr>
##     <tr><th id="stub_1_45" scope="row" class="gt_row gt_left gt_stub">Post-CY + MMF + CNI</th>
## <td headers="GVHD_FINAL stub_1_45 value" class="gt_row gt_right">59 (3.6%)</td></tr>
##     <tr><th id="stub_1_46" scope="row" class="gt_row gt_left gt_stub">MMF + MTX</th>
## <td headers="GVHD_FINAL stub_1_46 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_47" scope="row" class="gt_row gt_left gt_stub">MMF alone</th>
## <td headers="GVHD_FINAL stub_1_47 value" class="gt_row gt_right">5 (0.3%)</td></tr>
##     <tr><th id="stub_1_48" scope="row" class="gt_row gt_left gt_stub">Post-CY + siro +/- MMF</th>
## <td headers="GVHD_FINAL stub_1_48 value" class="gt_row gt_right">189 (11.52%)</td></tr>
##     <tr><th id="stub_1_49" scope="row" class="gt_row gt_left gt_stub">Siro alone</th>
## <td headers="GVHD_FINAL stub_1_49 value" class="gt_row gt_right">115 (7.01%)</td></tr>
##     <tr><th id="stub_1_50" scope="row" class="gt_row gt_left gt_stub">CNI + siro</th>
## <td headers="GVHD_FINAL stub_1_50 value" class="gt_row gt_right">6 (0.37%)</td></tr>
##     <tr><th id="stub_1_51" scope="row" class="gt_row gt_left gt_stub">MMF + siro</th>
## <td headers="GVHD_FINAL stub_1_51 value" class="gt_row gt_right">4 (0.24%)</td></tr>
##     <tr><th id="stub_1_52" scope="row" class="gt_row gt_left gt_stub">MTX + siro</th>
## <td headers="GVHD_FINAL stub_1_52 value" class="gt_row gt_right">2 (0.12%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="CONDGRPF">CONDGRPF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_53" scope="row" class="gt_row gt_left gt_stub">Redu
## <td headers="CONDGRPF stub_1_53 value" class="gt_row gt_right">378 (23.03%)</td></tr>
##     <tr><th id="stub_1_54" scope="row" class="gt_row gt_left gt_stub">Myeloablative</th>
## <td headers="CONDGRPF stub_1_54 value" class="gt_row gt_right">833 (50.76%)</td></tr>
##     <tr><th id="stub_1_55" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="CONDGRPF stub_1_55 value" class="gt_row gt_right">64 (3.9%)</td></tr>
##     <tr><th id="stub_1_56" scope="row" class="gt_row gt_left gt_stub">Non-myeloablative</th>
## <td headers="CONDGRPF stub_1_56 value" class="gt_row gt_right">366 (22.3%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="CONDGRP_FINAL">CONDGRP_FINAL</thi
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_57" scope="row" class="gt_row gt_left gt_stub">Flu/
## <td headers="CONDGRP_FINAL stub_1_57 value" class="gt_row gt_right">264 (16.09%)</td></tr>
##     <tr><th id="stub_1_58" scope="row" class="gt_row gt_left gt_stub">Bu/Cy</th>
## <td headers="CONDGRP_FINAL stub_1_58 value" class="gt_row gt_right">546 (33.27%)</td></tr>
##     <tr><th id="stub_1_59" scope="row" class="gt_row gt_left gt_stub">TBI/Cy</th>
## <td headers="CONDGRP_FINAL stub_1_59 value" class="gt_row gt_right">23 (1.4%)</td></tr>
##     <tr><th id="stub_1_60" scope="row" class="gt_row gt_left gt_stub">TBI/Flu</th>
## <td headers="CONDGRP_FINAL stub_1_60 value" class="gt_row gt_right">13 (0.79%)</td></tr>
##     <tr><th id="stub_1_61" scope="row" class="gt_row gt_left gt_stub">TBI/Cy/Flu</th>
## <td headers="CONDGRP_FINAL stub_1_61 value" class="gt_row gt_right">110 (6.7%)</td></tr>
##     <tr><th id="stub_1_62" scope="row" class="gt_row gt_left gt_stub">Flu/Mel</th>
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## <td headers="CONDGRP_FINAL stub_1_62 value" class="gt_row gt_right">274 (16.7%)</td></tr>
##     <tr><th id="stub_1_63" scope="row" class="gt_row gt_left gt_stub">Bu/Mel</th>
## <td headers="CONDGRP_FINAL stub_1_63 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_64" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="CONDGRP_FINAL stub_1_64 value" class="gt_row gt_right">31 (1.89%)</td></tr>
##     <tr><th id="stub_1_65" scope="row" class="gt_row gt_left gt_stub">Cy/Flu</th>
## <td headers="CONDGRP_FINAL stub_1_65 value" class="gt_row gt_right">9 (0.55%)</td></tr>
##     <tr><th id="stub_1_66" scope="row" class="gt_row gt_left gt_stub">Flu/Mel/TT</th>
## <td headers="CONDGRP_FINAL stub_1_66 value" class="gt_row gt_right">114 (6.95%)</td></tr>
##     <tr><th id="stub_1_67" scope="row" class="gt_row gt_left gt_stub">Flu/Bu/TT</th>
## <td headers="CONDGRP_FINAL stub_1_67 value" class="gt_row gt_right">21 (1.28%)</td></tr>
##     <tr><th id="stub_1_68" scope="row" class="gt_row gt_left gt_stub">TBI alone (300/400cGy)</th>
## <td headers="CONDGRP_FINAL stub_1_68 value" class="gt_row gt_right">121 (7.37%)</td></tr>
##     <tr><th id="stub_1_69" scope="row" class="gt_row gt_left gt_stub">Treosulfan</th>
## <td headers="CONDGRP_FINAL stub_1_69 value" class="gt_row gt_right">8 (0.49%)</td></tr>
##     <tr><th id="stub_1_70" scope="row" class="gt_row gt_left gt_stub">TBI/Mel</th>
## <td headers="CONDGRP_FINAL stub_1_70 value" class="gt_row gt_right">6 (0.37%)</td></tr>
##     <tr><th id="stub_1_71" scope="row" class="gt_row gt_left gt_stub">TBI/Cy/Flu/TT</th>
## <td headers="CONDGRP_FINAL stub_1_71 value" class="gt_row gt_right">98 (5.97%)</td></tr>
##     <tr><th id="stub_1_72" scope="row" class="gt_row gt_left gt_stub">Cy alone</th>
## <td headers="CONDGRP_FINAL stub_1_72 value" class="gt_row gt_right">2 (0.12%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="HLA_FINAL">HLA_FINAL</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_73" scope="row" class="gt_row gt_left gt_stub">8/8
## <td headers="HLA_FINAL stub_1_73 value" class="gt_row gt_right">1177 (71.72%)</td></tr>
##     <tr><th id="stub_1_74" scope="row" class="gt_row gt_left gt_stub">&lt;=6/8</th>
## <td headers="HLA_FINAL stub_1_74 value" class="gt_row gt_right">383 (23.34%)</td></tr>
##     <tr><th id="stub_1_75" scope="row" class="gt_row gt_left gt_stub">7/8</th>
## <td headers="HLA_FINAL stub_1_75 value" class="gt_row gt_right">80 (4.88%)</td></tr>
##     <tr><th id="stub_1_76" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="HLA_FINAL stub_1_76 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="FLAG_LANCET">FLAG_LANCET</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_77" scope="row" class="gt_row gt_left gt_stub">No<
## <td headers="FLAG_LANCET stub_1_77 value" class="gt_row gt_right">731 (44.55%)</td></tr>
##     <tr><th id="stub_1_78" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="FLAG_LANCET stub_1_78 value" class="gt_row gt_right">910 (55.45%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="FLAG_BLOOD">FLAG_BLOOD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_79" scope="row" class="gt_row gt_left gt_stub">No<
## <td headers="FLAG_BLOOD stub_1_79 value" class="gt_row gt_right">1482 (90.31%)</td></tr>
##     <tr><th id="stub_1_80" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="FLAG_BLOOD stub_1_80 value" class="gt_row gt_right">159 (9.69%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DEAD">DEAD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_81" scope="row" class="gt_row gt_left gt_stub">Ali
## <td headers="DEAD stub_1_81 value" class="gt_row gt_right">1489 (90.74%)</td></tr>
##     <tr><th id="stub_1_82" scope="row" class="gt_row gt_left gt_stub">Dead</th>
## <td headers="DEAD stub_1_82 value" class="gt_row gt_right">152 (9.26%)</td></tr>
##     <tr class="gt_group_heading_row">
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##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="GF">GF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_83" scope="row" class="gt_row gt_left gt_stub">Yes<
## <td headers="GF stub_1_83 value" class="gt_row gt_right">288 (17.55%)</td></tr>
##     <tr><th id="stub_1_84" scope="row" class="gt_row gt_left gt_stub">No</th>
## <td headers="GF stub_1_84 value" class="gt_row gt_right">1323 (80.62%)</td></tr>
##     <tr><th id="stub_1_85" scope="row" class="gt_row gt_left gt_stub">Not evaluable (Neutrophil recov
## <td headers="GF stub_1_85 value" class="gt_row gt_right">30 (1.83%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="EFS">EFS</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_86" scope="row" class="gt_row gt_left gt_stub">Even
## <td headers="EFS stub_1_86 value" class="gt_row gt_right">404 (24.62%)</td></tr>
##     <tr><th id="stub_1_87" scope="row" class="gt_row gt_left gt_stub">No event</th>
## <td headers="EFS stub_1_87 value" class="gt_row gt_right">1212 (73.86%)</td></tr>
##     <tr><th id="stub_1_88" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="EFS stub_1_88 value" class="gt_row gt_right">25 (1.52%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="ANC">ANC</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_89" scope="row" class="gt_row gt_left gt_stub">Yes<
## <td headers="ANC stub_1_89 value" class="gt_row gt_right">1584 (96.53%)</td></tr>
##     <tr><th id="stub_1_90" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="ANC stub_1_90 value" class="gt_row gt_right">36 (2.19%)</td></tr>
##     <tr><th id="stub_1_91" scope="row" class="gt_row gt_left gt_stub">No</th>
## <td headers="ANC stub_1_91 value" class="gt_row gt_right">21 (1.28%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="PLATELET">PLATELET</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_92" scope="row" class="gt_row gt_left gt_stub">Yes<
## <td headers="PLATELET stub_1_92 value" class="gt_row gt_right">1468 (89.46%)</td></tr>
##     <tr><th id="stub_1_93" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="PLATELET stub_1_93 value" class="gt_row gt_right">104 (6.34%)</td></tr>
##     <tr><th id="stub_1_94" scope="row" class="gt_row gt_left gt_stub">No</th>
## <td headers="PLATELET stub_1_94 value" class="gt_row gt_right">69 (4.2%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="AGVHD">AGVHD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_95" scope="row" class="gt_row gt_left gt_stub">No</
## <td headers="AGVHD stub_1_95 value" class="gt_row gt_right">1280 (78%)</td></tr>
##     <tr><th id="stub_1_96" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="AGVHD stub_1_96 value" class="gt_row gt_right">300 (18.28%)</td></tr>
##     <tr><th id="stub_1_97" scope="row" class="gt_row gt_left gt_stub">Not reported</th>
## <td headers="AGVHD stub_1_97 value" class="gt_row gt_right">22 (1.34%)</td></tr>
##     <tr><th id="stub_1_98" scope="row" class="gt_row gt_left gt_stub">Acute GVHD present, grade unkn
## <td headers="AGVHD stub_1_98 value" class="gt_row gt_right">39 (2.38%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="CGVHD">CGVHD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_99" scope="row" class="gt_row gt_left gt_stub">No</
## <td headers="CGVHD stub_1_99 value" class="gt_row gt_right">1245 (75.87%)</td></tr>
##     <tr><th id="stub_1_100" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="CGVHD stub_1_100 value" class="gt_row gt_right">366 (22.3%)</td></tr>
##     <tr><th id="stub_1_101" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
```

```
## <td headers="CGVHD stub_1_101 value" class="gt_row gt_right">30 (1.83%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="SCDMAL_FINAL">SCDMAL_FINAL</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_102" scope="row" class="gt_row gt_left gt_stub">Nor
## <td headers="SCDMAL_FINAL stub_1_102 value" class="gt_row gt_right">1610 (98.11%)</td></tr>
##     <tr><th id="stub_1_103" scope="row" class="gt_row gt_left gt_stub">Acute myelogenous leukemia</th
## <td headers="SCDMAL_FINAL stub_1_103 value" class="gt_row gt_right">6 (0.37%)</td></tr>
##     <tr><th id="stub_1_104" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="SCDMAL_FINAL stub_1_104 value" class="gt_row gt_right">9 (0.55%)</td></tr>
##     <tr><th id="stub_1_105" scope="row" class="gt_row gt_left gt_stub">Medulloblastoma</th>
## <td headers="SCDMAL_FINAL stub_1_105 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_106" scope="row" class="gt_row gt_left gt_stub">Embryonal rhabdomyosarcoma</th
## <td headers="SCDMAL_FINAL stub_1_106 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_107" scope="row" class="gt_row gt_left gt_stub">Myelodysplastic syndrome</th>
## <td headers="SCDMAL_FINAL stub_1_107 value" class="gt_row gt_right">4 (0.24%)</td></tr>
##     <tr><th id="stub_1_108" scope="row" class="gt_row gt_left gt_stub">Ependymoma grade 2</th>
## <td headers="SCDMAL_FINAL stub_1_108 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_109" scope="row" class="gt_row gt_left gt_stub">Myofibroblastic tumor</th>
## <td headers="SCDMAL_FINAL stub_1_109 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_110" scope="row" class="gt_row gt_left gt_stub">Clonal cytogenetic abnormality
## <td headers="SCDMAL_FINAL stub_1_110 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_111" scope="row" class="gt_row gt_left gt_stub">TP53 mutation</th>
## <td headers="SCDMAL_FINAL stub_1_111 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_112" scope="row" class="gt_row gt_left gt_stub">T-cell large granular lymphocy
## <td headers="SCDMAL_FINAL stub_1_112 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr><th id="stub_1_113" scope="row" class="gt_row gt_left gt_stub">Acute lymphoblastic leukemia</
## <td headers="SCDMAL_FINAL stub_1_113 value" class="gt_row gt_right">2 (0.12%)</td></tr>
##     <tr><th id="stub_1_114" scope="row" class="gt_row gt_left gt_stub">Sarcoma</th>
## <td headers="SCDMAL_FINAL stub_1_114 value" class="gt_row gt_right">2 (0.12%)</td></tr>
##     <tr><th id="stub_1_115" scope="row" class="gt_row gt_left gt_stub">Kaposi sarcoma</th>
## <td headers="SCDMAL_FINAL stub_1_115 value" class="gt_row gt_right">1 (0.06%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DWOAGVHD">DWOAGVHD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_116" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="DWOAGVHD stub_1_116 value" class="gt_row gt_right">1573 (95.86%)</td></tr>
##     <tr><th id="stub_1_117" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="DWOAGVHD stub_1_117 value" class="gt_row gt_right">59 (3.6%)</td></tr>
##     <tr><th id="stub_1_118" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="DWOAGVHD stub_1_118 value" class="gt_row gt_right">9 (0.55%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DWOCGVHD">DWOCGVHD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_119" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="DWOCGVHD stub_1_119 value" class="gt_row gt_right">1555 (94.76%)</td></tr>
##     <tr><th id="stub_1_120" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="DWOCGVHD stub_1_120 value" class="gt_row gt_right">75 (4.57%)</td></tr>
##     <tr><th id="stub_1_121" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="DWOCGVHD stub_1_121 value" class="gt_row gt_right">11 (0.67%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DWOANC">DWOANC</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_122" scope="row" class="gt_row gt_left gt_stub">No
```

```
## <td headers="DWOANC stub_1_122 value" class="gt_row gt_right">1630 (99.33%)</td></tr>
##     <tr><th id="stub_1_123" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="DWOANC stub_1_123 value" class="gt_row gt_right">8 (0.49%)</td></tr>
##     <tr><th id="stub_1_124" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="DWOANC stub_1_124 value" class="gt_row gt_right">3 (0.18%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DWOPLATELET">DWOPLATELET</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_125" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="DWOPLATELET stub_1_125 value" class="gt_row gt_right">1586 (96.65%)</td></tr>
##     <tr><th id="stub_1_126" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="DWOPLATELET stub_1_126 value" class="gt_row gt_right">27 (1.65%)</td></tr>
##     <tr><th id="stub_1_127" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="DWOPLATELET stub_1_127 value" class="gt_row gt_right">28 (1.71%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="DWOGF">DWOGF</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_128" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="DWOGF stub_1_128 value" class="gt_row gt_right">1525 (92.93%)</td></tr>
##     <tr><th id="stub_1_129" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="DWOGF stub_1_129 value" class="gt_row gt_right">111 (6.76%)</td></tr>
##     <tr><th id="stub_1_130" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="DWOGF stub_1_130 value" class="gt_row gt_right">5 (0.3%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="PTLD">PTLD</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_131" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="PTLD stub_1_131 value" class="gt_row gt_right">1618 (98.6%)</td></tr>
##     <tr><th id="stub_1_132" scope="row" class="gt_row gt_left gt_stub">Not Reported</th>
## <td headers="PTLD stub_1_132 value" class="gt_row gt_right">9 (0.55%)</td></tr>
##     <tr><th id="stub_1_133" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="PTLD stub_1_133 value" class="gt_row gt_right">14 (0.85%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="FLAG_0601">FLAG_0601</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_134" scope="row" class="gt_row gt_left gt_stub">No
## <td headers="FLAG_0601 stub_1_134 value" class="gt_row gt_right">1605 (97.81%)</td></tr>
##     <tr><th id="stub_1_135" scope="row" class="gt_row gt_left gt_stub">Yes</th>
## <td headers="FLAG_0601 stub_1_135 value" class="gt_row gt_right">36 (2.19%)</td></tr>
##     <tr class="gt_group_heading_row">
##       <th colspan="2" class="gt_group_heading" scope="colgroup" id="RACEG">RACEG</th>
##     </tr>
##     <tr class="gt_row_group_first"><th id="stub_1_136" scope="row" class="gt_row gt_left gt_stub">Af
## <td headers="RACEG stub_1_136 value" class="gt_row gt_right">1403 (85.5%)</td></tr>
##     <tr><th id="stub_1_137" scope="row" class="gt_row gt_left gt_stub">NA</th>
## <td headers="RACEG stub_1_137 value" class="gt_row gt_right">80 (4.88%)</td></tr>
##     <tr><th id="stub_1_138" scope="row" class="gt_row gt_left gt_stub">Caucasian</th>
## <td headers="RACEG stub_1_138 value" class="gt_row gt_right">118 (7.19%)</td></tr>
##     <tr><th id="stub_1_139" scope="row" class="gt_row gt_left gt_stub">Asian</th>
## <td headers="RACEG stub_1_139 value" class="gt_row gt_right">17 (1.04%)</td></tr>
##     <tr><th id="stub_1_140" scope="row" class="gt_row gt_left gt_stub">Others</th>
## <td headers="RACEG stub_1_140 value" class="gt_row gt_right">23 (1.4%)</td></tr>
##   </tbody>
##
```

```
##
## </table>
## </div>
```

```
#remove useless variables
#scd_data_clean<- select(scd_data_clean, -c(AGEGPFF, YEARGPF))
```

```
#time to events variables:
#INTXAGVHD, INTXCGVHD, INTXSCDMAL, INTXANC, INTXPLA_TELET, INTXGF, INTXSURV,death
columns_to_check <-toupper(c("intxsurv", "intxgf", "intxanc", "intxplatelet", "intxagvhd", "intxcgvhd",
dataset_column_names <- colnames(scd_data_yr3)

columns_exist <- columns_to_check %in% dataset_column_names

existing_columns <- columns_to_check[columns_exist]
print(existing_columns)
```

```
## [1] "INTXSURV"     "INTXGF"       "INTXANC"      "INTXPLATELET" "INTXAGVHD"
## [6] "INTXCGVHD"    "INTXPTLD"     "INTXSCDMAL"
```

```
columns_exist_meta <- tolower(existing_columns)
time_to_event <- meta_yr3[which(meta_yr3$`Variable name` %in% columns_exist_meta),]
```