

# TLG-cat-demogra-tbl.R

Admin

2024-10-23

```
# Table _ Demography
```

```
library(tern)
```

```
## Loading required package: rtables
```

```
## Loading required package: formatters
```

```
##  
## Attaching package: 'formatters'
```

```
## The following object is masked from 'package:base':  
##  
##      %||%
```

```
## Loading required package: magrittr
```

```
##  
## Attaching package: 'rtables'
```

```
## The following object is masked from 'package:utils':  
##  
##      str
```

```
## Registered S3 method overwritten by 'tern':  
##      method      from  
##      tidy.glm broom
```

```
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(tidyr)
```

```
##  
## Attaching package: 'tidyr'
```

```
## The following object is masked from 'package:magrittr':  
##  
##      extract
```

```

adsl <- random.cdisc.data::cadsl
advs <- random.cdisc.data::cadvs
adsub <- random.cdisc.data::cadsub

# Ensure character variables are converted to factors and empty strings and NAs are explicit
missing levels.
adsl <- df_explicit_na(adsl)
advs <- df_explicit_na(advs)
adsub <- df_explicit_na(adsub)

# Change description in variable SEX.
adsl <- adsl %>%
  mutate(
    SEX = factor(case_when(
      SEX == "M" ~ "Male",
      SEX == "F" ~ "Female",
      SEX == "U" ~ "Unknown",
      SEX == "UNDIFFERENTIATED" ~ "Undifferentiated"
    )),
    AGEGR1 = factor(
      case_when(
        between(AGE, 18, 40) ~ "18-40",
        between(AGE, 41, 64) ~ "41-64",
        AGE > 64 ~ ">=65"
      ),
      levels = c("18-40", "41-64", ">=65")
    ),
    BMRKR1_CAT = factor(
      case_when(
        BMRKR1 < 3.5 ~ "LOW",
        BMRKR1 >= 3.5 & BMRKR1 < 10 ~ "MEDIUM",
        BMRKR1 >= 10 ~ "HIGH"
      ),
      levels = c("LOW", "MEDIUM", "HIGH")
    )
  ) %>%
  var_relabel(
    BMRKR1_CAT = "Biomarker 1 Categories"
  )
# The developer needs to do pre-processing to add necessary variables based on ADVS to analysis
dataset.
# Obtain SBP, DBP and weight.
get_param_advs <- function(pname, plabel) {
  ds <- advs %>%
    filter(PARAM == plabel & AVISIT == "BASELINE") %>%
    select(USUBJID, AVAL)

  colnames(ds) <- c("USUBJID", pname)

  ds
}
# The developer needs to do pre-processing to add necessary variables based on ADSUB to analysis
dataset.
# Obtain baseline BMI (BBMISI).
get_param_adsub <- function(pname, plabel) {

```

```

ds <- adsub %>%
  filter(PARAM == plabel) %>%
  select(USUBJID, AVAL)

colnames(ds) <- c("USUBJID", pname)

ds
}
adsl <- adsl %>%
  left_join(get_param_advs("SBP", "Systolic Blood Pressure"), by = "USUBJID") %>%
  left_join(get_param_advs("DBP", "Diastolic Blood Pressure"), by = "USUBJID") %>%
  left_join(get_param_advs("WGT", "Weight"), by = "USUBJID") %>%
  left_join(get_param_adsub("BBMISI", "Baseline BMI"), by = "USUBJID")

vars <- c("AGE", "AGEGR1", "SEX", "ETHNIC", "RACE", "BMRKR1")
var_labels <- c(
  "Age (yr)",
  "Age Group",
  "Sex",
  "Ethnicity",
  "Race",
  "Continous Level Biomarker 1"
)

result <- basic_table(show_colcounts = TRUE) %>%
  split_cols_by(var = "ACTARM") %>%
  add_overall_col("All Patients") %>%
  analyze_vars(
    vars = vars,
    var_labels = var_labels
  ) %>%
  build_table(adsl)

result

```

##	A: Drug X	B: Placebo	C: Combination
All Patients			
##	(N=134)	(N=134)	(N=132)
(N=400)			
##			
<hr/>			
## Age (yr)			
## n	134	134	132
400			
## Mean (SD)	33.8 (6.6)	35.4 (7.9)	35.4 (7.7)
34.9 (7.4)			
## Median	33.0	35.0	35.0
34.0			
## Min - Max	21.0 - 50.0	21.0 - 62.0	20.0 - 69.0
20.0 - 69.0			
## Age Group			
## n	134	134	132
400			
## 18-40	113 (84.3%)	103 (76.9%)	106 (80.3%)
322 (80.5%)			
## 41-64	21 (15.7%)	31 (23.1%)	25 (18.9%)
77 (19.2%)			
## >=65	0	0	1 (0.8%)
1 (0.2%)			
## Sex			
## n	134	134	132
400			
## Female	79 (59%)	82 (61.2%)	70 (53%)
231 (57.8%)			
## Male	55 (41%)	52 (38.8%)	62 (47%)
169 (42.2%)			
## Ethnicity			
## n	134	134	132
400			
## HISPANIC OR LATINO	15 (11.2%)	18 (13.4%)	15 (11.4%)
48 (12%)			
## NOT HISPANIC OR LATINO	104 (77.6%)	103 (76.9%)	101 (76.5%)
308 (77%)			
## NOT REPORTED	6 (4.5%)	10 (7.5%)	11 (8.3%)
27 (6.8%)			
## UNKNOWN	9 (6.7%)	3 (2.2%)	5 (3.8%)
17 (4.2%)			
## Race			
## n	134	134	132
400			
## ASIAN	68 (50.7%)	67 (50%)	73 (55.3%)
208 (52%)			
## BLACK OR AFRICAN AMERICAN	31 (23.1%)	28 (20.9%)	32 (24.2%)
91 (22.8%)			
## WHITE	27 (20.1%)	26 (19.4%)	21 (15.9%)
74 (18.5%)			
## AMERICAN INDIAN OR ALASKA NATIVE	8 (6%)	11 (8.2%)	6 (4.5%)
25 (6.2%)			
## MULTIPLE	0	1 (0.7%)	0

1 (0.2%)			
## NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER	0	1 (0.7%)	0
1 (0.2%)			
## OTHER	0	0	0
0			
## UNKNOWN	0	0	0
0			
## Continous Level Biomarker 1			
## n	134	134	132
400			
## Mean (SD)	6.0 (3.6)	5.7 (3.3)	5.6 (3.5)
5.8 (3.4)			
## Median	5.4	4.8	4.6
4.8			
## Min - Max	0.4 - 17.7	0.6 - 14.2	0.2 - 21.4
0.2 - 21.4			