

TLG-catalogue-Medical-history-table.R

Admin

2024-10-23

```
# Medical History  
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
```

```

adsl <- random.cdisc.data::cads1
admh <- random.cdisc.data::cadmh

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

adsl_f <- adsl %>%
  filter(SAFFL == "Y") %>%
  select(USUBJID, ACTARM)

admh_f <- admh %>%
  filter(SAFFL == "Y" & MHBODSYS != "" & MHDECOD != "") %>%
  var_relabel(
    MHBODSYS = "MedDRA System Organ Class",
    MHDECOD = "MedDRA Preferred Term"
  )

split_fun <- drop_split_levels

lyt <- basic_table(show_colcounts = TRUE) %>%
  split_cols_by("ACTARM") %>%
  add_overall_col("All Patients") %>%
  analyze_num_patients(
    "USUBJID",
    .stats = c("unique", "nonunique"),
    .labels = c(unique = "Total number of patients with at least one event", nonunique = "Total number of conditions")
  ) %>%
  split_rows_by(
    var = "MHBODSYS",
    split_fun = split_fun,
    child_labels = "visible",
    label_pos = "topleft",
    split_label = obj_label(admh_f$MHBODSYS)
  ) %>%
  summarize_num_patients(
    "USUBJID",
    .stats = c("unique", "nonunique"),
    .labels = c(unique = "Total number of patients with at least one event", nonunique = "Total number of conditions")
  ) %>%
  count_occurrences(vars = "MHDECOD", .indent_mods = -1L) %>%
  append_varlabels(admh_f, "MHDECOD", indent = 1L)

scorefun_hlt <- cont_n_allcols
scorefun_llt <- score_occurrences_cols(col_indices = nlevels(adsl_f$ACTARM) + 1)

result <- build_table(lyt, admh_f, alt_counts_df = adsl_f) %>%
  prune_table() %>%
  sort_at_path(path = c("MHBODSYS"), scorefun = scorefun_hlt) %>%
  sort_at_path(path = c("MHBODSYS", "*", "MHDECOD"), scorefun = scorefun_llt)

result

```

## MedDRA System Organ Class ation All Patients	A: Drug X	B: Placebo	C: Combin
## MedDRA Preferred Term 2) (N=400)	(N=134)	(N=134)	(N=13
##			
## Total number of patients with at least one event 9%) 365 (91.2%)	122 (91.0%)	123 (91.8%)	120 (90.
## Total number of conditions 1934	609	622	703
## cl D			
## Total number of patients with at least one event 2%) 284 (71.0%)	96 (71.6%)	90 (67.2%)	98 (74.
## Total number of conditions 576	189	178	209
## trm D_3/3 2%) 162 (40.5%)	47 (35.1%)	58 (43.3%)	57 (43.
## trm D_1/3 6%) 143 (35.8%)	50 (37.3%)	42 (31.3%)	51 (38.
## trm D_2/3 9%) 140 (35.0%)	48 (35.8%)	42 (31.3%)	50 (37.
## cl B			
## Total number of patients with at least one event 5%) 282 (70.5%)	96 (71.6%)	89 (66.4%)	97 (73.
## Total number of conditions 588	185	198	205
## trm B_3/3 6%) 153 (38.2%)	48 (35.8%)	54 (40.3%)	51 (38.
## trm B_2/3 4%) 145 (36.2%)	49 (36.6%)	44 (32.8%)	52 (39.
## trm B_1/3 6%) 139 (34.8%)	47 (35.1%)	49 (36.6%)	43 (32.
## cl A			
## Total number of patients with at least one event 4%) 242 (60.5%)	78 (58.2%)	75 (56.0%)	89 (67.
## Total number of conditions 422	132	130	160
## trm A_1/2 7%) 158 (39.5%)	50 (37.3%)	45 (33.6%)	63 (47.
## trm A_2/2 9%) 146 (36.5%)	48 (35.8%)	48 (35.8%)	50 (37.
## cl C			
## Total number of patients with at least one event 8%) 221 (55.2%)	67 (50.0%)	75 (56.0%)	79 (59.
## Total number of conditions 348	103	116	129
## trm C_2/2 7%) 138 (34.5%)	35 (26.1%)	48 (35.8%)	55 (41.
## trm C_1/2 6%) 132 (33.0%)	43 (32.1%)	46 (34.3%)	43 (32.