gtsummary

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Introduction

Data Summaries

Table 1: Example data frame, trial

| colname | label | class | values |
|-------------------------------------|--|--|---|
| trt age marker stage grade response | Chemotherapy Treatment Age Marker Level (ng/mL) T Stage Grade Tumor Response | character numeric numeric factor factor integer | Drug A, Drug B 6, 9, 10, 17, 0.003, 0.005, 0.013, 0.015, T1, T2, T3, T4 I, II, III 0, 1 |
| death ttdeath | Patient Died Months to Death/Censor | integer numeric | 0, 1 3.53, 5.33, 6.32, 7.27, |

tbl_summary()

```
tbl_summary_1 <-
trial %>%
select(age, grade, response, trt) %>%
tbl_summary(by = trt)
```

Table 2: tbl_summary() function arguments

| Argument | Description |
|--------------|--|
| label | specify the variable labels printed in table |
| type | specify the variable type (e.g. continuous, categorical, etc.) |
| statistic | change the summary statistics presented |
| digits | number of digits the summary statistics will be rounded to |
| missing | whether to display a row with the number of missing observations |
| missing_text | text label for the missing number row |
| sort | change the sorting of categorical levels by frequency |
| percent | print column, row, or cell percentages |

```
tbl_summary_2 <-
trial %>%
```

Table 3: tbl_summary() function arguments

| Function | Description |
|------------------|---|
| add_p() | add p-values to the output comparing values across groups |
| add_overall() | add a column with overall summary statistics |
| add_n() | add a column with N (or N missing) for each variable |
| add_difference() | add column for difference between two group, confidence interval, and p-value |
| add_stat_label() | add label for the summary statistics shown in each row |
| add_stat() | generic function to add a column with user-defined values |
| add_q() | add a column of q values to control for multiple comparisons |

Figure 1: Simple 'tbl_summary()' example

| Characteristic | Drug A , $N = 98^{1}$ | Drug B , $N = 102^{3}$ |
|------------------------------|------------------------------|-------------------------------|
| Age | 46 (37, 59) | 48 (39, 56) |
| Unknown | 7 | 4 |
| Grade | | |
| I | 35 (36%) | 33 (32%) |
| II | 32 (33%) | 36 (35%) |
| III | 31 (32%) | 33 (32%) |
| Tumor Response | 28 (29%) | 33 (34%) |
| Unknown | 3 | 4 |
| ¹ Median (IQR); n | (%) | |

tbl_svysummary()

tbl_cross()

tbl_survfit()

Customization

Model Summaries

tbl_regression()

tbl_uvregression()

In-line Reporting

Merging and Stacking

Themes

Print Engines