

Package ‘gtreg’

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Title Regulatory Tables for Clinical Research

Version 0.4.1

Description Creates tables suitable for regulatory agency submission by leveraging the 'gtsummary' package as the back end. Tables can be exported to HTML, Word, PDF and more. Highly customized outputs are available by utilizing existing styling functions from 'gtsummary' as well as custom options designed for regulatory tables.

License GPL (>= 3)

URL <https://github.com/shannonpileggi/gtreg>,
<https://shannonpileggi.github.io/gtreg/>

BugReports <https://github.com/shannonpileggi/gtreg/issues>

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.complete_ae_data	Create a complete and expanded data frame for tabulating adverse events
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Description

Returns a data frame that has an observation for each patient in the study, with combinations for each ID, SOC, and AE. The returned data frame includes new logical columns ". . ae . ." and ". . soc . ." indicating whether that row should be included when tabulating the AE table. When multiple AEs of the same type are observed, the AE with the largest by= value is the observation to be used in the tabulation.

Usage

```
.complete_ae_data(  
  data,  
  id,  
  ae,  
  soc = NULL,  
  by = NULL,  
  strata = NULL,  
  id_df = NULL,  
  by_values = NULL,  
  missing_text = "Unknown",  
  missing_location = "first"  
)
```

Arguments

data	Data frame
id	String variable name of the patient ID
ae	String variable name of the adverse event column
soc	Optional string variable name of the system organ class column
by	Optional string variable to split results by, e.g. report AEs by grade or attribution
strata	Optional string variable to stratify results by, e.g. report AEs summaries by treatment group
id_df	Optional data frame of complete id values and strata to achieve correct base n for the situation in which not all subjects experience adverse events
by_values	Optional vector of complete by values, listed in desired order, to achieve correct table structure for the situation in which an adverse event of a certain grade is not observed for a given soc
missing_text	String that will be shown for missing levels of by=, Default is "Unknown"
missing_location	location where the column summarizing values with missing levels by= will be located in the final table. Must be one of c("first", "last", "hide). Default is "first"

Value

a tibble

Examples

```
df_adverse_events %>%
  .complete_ae_data(
    id = "patient_id",
    ae = "adverse_event",
    soc = "system_organ_class",
    by = "grade",
    strata = "trt"
  )
```

add_overall_tbl_ae *Tabulate Overall Summary*

Description

Tabulate Overall Summary

Usage

```
## S3 method for class 'tbl_ae'
add_overall(x, across = NULL, ...)

## S3 method for class 'tbl_ae_count'
add_overall(x, across = NULL, ...)

## S3 method for class 'tbl_ae_focus'
add_overall(x, across = NULL, ...)
```

Arguments

x	Object of class "tbl_ae", "tbl_ae_focus", or "tbl_ae_count"
across	Specify the type of overall statistics to include. <ul style="list-style-type: none"> • "both" adds summaries across both the by= and strata= levels • "by" adds summaries across the by= levels • "strata" adds summaries across the strata= levels • "overall-only" adds a single overall column Default is all possible over-all types.
...	Not used

Value

Summary object of same input class

Notes

If the spanning headers are modified prior to the call of `add_overall()`, the ordering of the columns may not be correct.

Example Output**Examples**

```
# Example 1 -----
add_overall_ex1 <-
  df_adverse_events %>%
  tbl_ae_count(
    ae = adverse_event,
    soc = system_organ_class,
    by = grade,
    strata = trt
  ) %>%
  add_overall() %>%
  modify_header(all_ae_cols() ~ "**Grade {by}**") %>%
  bold_labels()
```

```

# Example 2 -----
add_overall_ex2 <-
  df_adverse_events %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    by = grade
  ) %>%
  add_overall(across = 'by') %>%
  modify_header(all_ae_cols() ~ "**Grade {by}**") %>%
  bold_labels()

# Example 3 -----
add_overall_ex3 <-
  df_adverse_events %>%
  tbl_ae_focus(
    id = patient_id,
    include = c(any_complication, grade3_complication),
    ae = adverse_event,
    strata = trt
  ) %>%
  add_overall(across = 'strata')

# Example 4 -----
add_overall_ex4 <-
  df_adverse_events %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    by = grade,
    strata = trt
  ) %>%
  add_overall(across = 'overall-only') %>%
  modify_header(all_ae_cols() ~ "**Grade {by}**") %>%
  bold_labels()

```

df_adverse_events

Simulated Adverse Event Database

Description

A data set containing reported AEs from a trial.

Usage

```
df_adverse_events
```

Format

A data frame with 100 rows—one row per patient per AE

patient_id Patient ID

trt Treatment Group

system_organ_class System Organ Class

adverse_event Adverse Event

grade Grade

drug_attribution Drug Attribution

any_complication Any Grade Complication

grade3_complication Grade 3+ Complication

df_patient_characteristics

Simulated Patient Characteristics Database

Description

Simulated Patient Characteristics Database

Usage

df_patient_characteristics

Format

A data frame with 100 rows—one row per patient

patient_id Patient ID

trt Treatment Group

age Patient Age

marker Biological Marker

status Study Status

discontinued Discontinued from Study

off_trt_ae Off Treatment Adverse Event

inline_text_tbl_ae	<i>Report Values from greg tables in-line</i>
--------------------	---

Description

Function allows users to report formatted and styled results from greg tables in-line.

Usage

```
## S3 method for class 'tbl_ae'
inline_text(x, row, column = NULL, ...)

## S3 method for class 'tbl_ae_count'
inline_text(x, row, column = NULL, ...)

## S3 method for class 'tbl_ae_focus'
inline_text(x, row, column = NULL, ...)
```

Arguments

x	an object of class <code>tbl_ae()</code> , <code>tbl_ae_count()</code> , <code>tbl_ae_focus()</code>
row	string indicating the AE or SOC to report
column	column name of cell to report. Use <code>show_header_names(x)</code> to print all column names beside the current header.
...	not used

Value

string

Examples

```
tbl <-
  df_adverse_events %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    by = grade
  )
show_header_names(tbl)

inline_text(tbl, "Anaemia", column = stat_5)
```

 selectors

Column Selectors

Description

See the [Table modifications article](#) for examples.

- `all_ae_cols(overall, unknown)` selects all columns summarizing AE statistics. By default, unknown and overall columns are not selected.
- `all_cols_in_strata(strata)` selects all columns from specified stratum.
- `all_overall_cols()` selects all overall columns
- `all_unknown_cols()` selects all unknown columns

Usage

```
all_ae_cols(overall = FALSE, unknown = FALSE)
```

```
all_cols_in_strata(strata)
```

```
all_overall_cols()
```

```
all_unknown_cols()
```

Arguments

<code>overall</code>	logical indicating whether to include the overall columns. Default is FALSE
<code>unknown</code>	logical indicating whether to include the unknown or missing columns. Default is FALSE
<code>strata</code>	character vector of the selected stratum

Value

selected columns

Example Output

See Also

```
gtsummary::all_stat_cols()
```

Examples

```
selectors_ex1 <-
  df_adverse_events %>%
  dplyr::mutate(grade = ifelse(dplyr::row_number() == 1L, NA, grade)) %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    by = grade
  ) %>%
  add_overall(across = 'by') %>%
  modify_header(
    all_ae_cols() ~ "**Grade {by}**",
    all_overall_cols() ~ "**Total**",
    all_unknown_cols() ~ "**Unknown Grade**"
  )
```

style_xxx	<i>Style numbers as x's</i>
-----------	-----------------------------

Description

The purpose of style_xxx() is to convert numeric values in summary tables to x's of consistent length for mock tables. See the [Table shells vignette](#) for detailed examples.

Usage

```
style_xxx(x, width = digits + 2, digits = 0)
```

Arguments

- x a numeric or character vector
- width the width of output field of x's, including the decimal place
- digits the number of digits displayed after the decimal place

Value

a character vector

Examples

```
style_xxx(7:10, digits = 0)
style_xxx(7:10, digits = 1)
style_xxx(7:10, width = 2, digits = 0)
style_xxx(7:10, width = 5, digits = 2)
```

tbl_ae

*Tabulate Adverse Events***Description**

The function tabulates adverse events. One AE per ID will be counted in the resulting table. If a by= variable is passed and a patient experienced more than one of the same AE, the AE associated with the highest by= level will be included. For example, if a patient has two of the same AE and by = grade, the AE with the highest grade will be included. Similarly, if tabulations within system organ class are requested, the AE within SOC associated with the highest grade will be tabulated.

Usage

```
tbl_ae(
  data,
  id,
  ae,
  soc = NULL,
  by = NULL,
  strata = NULL,
  id_df = NULL,
  statistic = "{n} ({p})",
  by_values = NULL,
  digits = NULL,
  sort = NULL,
  zero_symbol = "\U2014",
  missing_location = c("first", "last", "hide")
)
```

Arguments

data	Data frame
id	Variable name of the patient ID
ae	Variable name of the adverse event column
soc	Variable name of the system organ class column
by	Variable to split results by, e.g. report AEs by grade
strata	Variable to stratify results by, e.g. report AEs summaries by treatment group
id_df	Optional data frame of complete id values and strata to achieve correct base n for the situation in which not all subjects experience adverse events. See df_patient_characteristics for an example id_df that pairs with df_adverse_events .
statistic	String indicating the statistics that will be reported. The default is "{n} ({p})"
by_values	Optional vector of complete by values, listed in desired order, to achieve correct table structure for the situation in which an adverse event of a certain grade is not observed for a given soc

digits	Specifies the number of decimal places to round the summary statistics. By default integers are shown to zero decimal places, and percentages are formatted with <code>style_percent()</code> . If you would like to modify either of these, pass a vector of integers indicating the number of decimal places to round the statistics. For example, if the statistic being calculated is " <code>{n} ({p}%)</code> " and you want the percent rounded to 2 decimal places use <code>digits = c(0, 2)</code> . User may also pass a styling function: <code>digits = style_sigfig</code>
sort	Controls order of AEs and SOC in output table. The default is <code>NULL</code> , where AEs and SOC are sorted alphanumerically (and factors sorted according to their factor level). Use <code>sort = "ae"</code> to sort AEs in decreasing frequency order, <code>sort = "soc"</code> to sort SOC in decreasing order, and <code>sort = c("ae", "soc")</code> to sort both. AEs are sorted within SOC.
zero_symbol	String used to represent cells with zero counts. Default is the em-dash (" <code>\U2014</code> "). Using <code>zero_symbol = NULL</code> will print the zero count statistics, e.g. " <code>0 (0)</code> "
missing_location	location where the column summarizing values with missing levels <code>by=</code> will be located in the final table. Must be one of <code>c("first", "last", "hide")</code> . Default is " <code>first</code> "

Value

a 'tbl_ae' object

Example Output**Examples**

```
# Example 1 -----
tbl_ae_ex1 <-
  df_adverse_events %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    by = grade,
    strata = trt
  ) %>%
  modify_header(all_ae_cols() ~ "**Grade {by}**")

# Example 2 -----
tbl_ae_ex2 <-
  df_adverse_events %>%
  tbl_ae(
    id = patient_id,
    ae = adverse_event,
    by = grade
  ) %>%
  modify_header(all_ae_cols() ~ "**Grade {by}**")
```

tbl_ae_count

*Tabulate Raw AE Counts***Description**

Create a table counting all AEs.

Usage

```
tbl_ae_count(
  data,
  ae,
  soc = NULL,
  by = NULL,
  strata = NULL,
  by_values = NULL,
  digits = NULL,
  sort = NULL,
  zero_symbol = "\U2014",
  missing_location = c("first", "last", "hide")
)
```

Arguments

data	Data frame
ae	Variable name of the adverse event column
soc	Variable name of the system organ class column
by	Variable to split results by, e.g. report AEs by grade
strata	Variable to stratify results by, e.g. report AEs summaries by treatment group
by_values	Optional vector of complete by values, listed in desired order, to achieve correct table structure for the situation in which an adverse event of a certain grade is not observed for a given soc
digits	Specifies the number of decimal places to round the summary statistics. By default integers are shown to zero decimal places, and percentages are formatted with <code>style_percent()</code> . If you would like to modify either of these, pass a vector of integers indicating the number of decimal places to round the statistics. For example, if the statistic being calculated is " <code>{n} ({p}%)</code> " and you want the percent rounded to 2 decimal places use <code>digits = c(0, 2)</code> . User may also pass a styling function: <code>digits = style_sigfig</code>
sort	Controls order of AEs and SOC in output table. The default is <code>NULL</code> , where AEs and SOC are sorted alphanumerically (and factors sorted according to their factor level). Use <code>sort = "ae"</code> to sort AEs in decreasing frequency order, <code>sort = "soc"</code> to sort SOC in decreasing order, and <code>sort = c("ae", "soc")</code> to sort both. AEs are sorted within SOC.

zero_symbol String used to represent cells with zero counts. Default is the em-dash ("\\U2014"). Using `zero_symbol = NULL` will print the zero count statistics, e.g. "0 (0)"

missing_location location where the column summarizing values with missing levels `by=` will be located in the final table. Must be one of `c("first", "last", "hide")`. Default is "first"

Details

`tbl_ae_count` counts all AEs (whereas [tbl_ae](#) counts by maximum grade). Thus, `tbl_ae_count` does not provide percentages as multiple AEs can be counted per subject.

Value

a 'tbl_ae_count' object

Example Output

See Also

[tbl_ae](#)

Examples

```
# Example 1 -----
tbl_ae_count_ex1 <-
tbl_ae_count(
  data = df_adverse_events,
  ae = adverse_event,
  soc = system_organ_class,
  strata = trt,
  by = grade
) %>%
modify_header(all_ae_cols() ~ "**Grade {by}**")
```

tbl_ae_focus

Tabulate AE Focused (Dichotomous) Summaries

Description

Summarize dichotomous AE data. For example, report the rate of patients that have an AE of Grade 3 or higher.

Usage

```
tbl_ae_focus(
  data,
  include,
  id,
  ae,
  soc = NULL,
  strata = NULL,
  label = NULL,
  id_df = NULL,
  statistic = "{n} ({p})",
  digits = NULL,
  sort = NULL,
  zero_symbol = "\U2014"
)
```

Arguments

<code>data</code>	Data frame
<code>include</code>	Vector of column names to summarize. Column names may be quoted or unquoted. All columns must be class 'logical'.
<code>id</code>	Variable name of the patient ID
<code>ae</code>	Variable name of the adverse event column
<code>soc</code>	Variable name of the system organ class column
<code>strata</code>	Variable to stratify results by, e.g. report AEs summaries by treatment group
<code>label</code>	A named list of labels that will be applied in the resulting table. Names must be those passed in <code>include</code> . Default is <code>NULL</code> , and either the label attribute or the column name will be used.
<code>id_df</code>	Optional data frame of complete id values and strata to achieve correct base n for the situation in which not all subjects experience adverse events. See df_patient_characteristics for an example <code>id_df</code> that pairs with df_adverse_events .
<code>statistic</code>	String indicating the statistics that will be reported. The default is "{n} ({p})"
<code>digits</code>	Specifies the number of decimal places to round the summary statistics. By default integers are shown to zero decimal places, and percentages are formatted with <code>style_percent()</code> . If you would like to modify either of these, pass a vector of integers indicating the number of decimal places to round the statistics. For example, if the statistic being calculated is "{n} ({p}%)" and you want the percent rounded to 2 decimal places use <code>digits = c(0, 2)</code> . User may also pass a styling function: <code>digits = style_sigfig</code>
<code>sort</code>	Controls order of AEs and SOC in output table. The default is <code>NULL</code> , where AEs and SOC are sorted alphanumerically (and factors sorted according to their factor level). Use <code>sort = "ae"</code> to sort AEs in decreasing frequency order, <code>sort = "soc"</code> to sort SOC in decreasing order, and <code>sort = c("ae", "soc")</code> to sort both. AEs are sorted within SOC.
<code>zero_symbol</code>	String used to represent cells with zero counts. Default is the em-dash ("\U2014"). Using <code>zero_symbol = NULL</code> will print the zero count statistics, e.g. "0 (0)"

Value

a 'tbl_ae_focus' object

Example Output

Examples

```
# Example 1 -----
tbl_ae_focus_ex1 <-
  df_adverse_events %>%
  tbl_ae_focus(
    include = c(any_complication, grade3_complication),
    id = patient_id,
    ae = adverse_event,
    soc = system_organ_class,
    label =
      list(any_complication = "Any Grade Complication",
           grade3_complication = "Grade 3+ Complication")
  ) %>%
  bold_labels()
```

tbl_listing	<i>Data Listing Table</i>
-------------	---------------------------

Description

Function creates a gtsummary-class listing of data. Column labels are used as column headers, when present. The listing prints observations in the order of the input data.

Usage

```
tbl_listing(data, group_by = NULL, bold_headers = TRUE)
```

Arguments

- data a data frame
- group_by Single variable name indicating a grouping variable. Default is NULL for no grouping variable. When specified, a grouping row will be added to the first column. See details below.
- bold_headers logical indicating whether to bold column headers. Default is TRUE

Value

gtsummary data listing

group_by

The grouping column and the first column in the table will be combined and the type/class may be converted to common type/class for both columns. However, if either the `group_by=` column or the first column are factors, the factor column(s) will first be converted to character.

The groups are ordered according to the grouping variable's type (i.e., character, numeric, or factor).

Details

The purpose of `tbl_listing()` is to add support for printing data frames, while taking advantage of the `{gtsummary}` defaults, e.g. ability to print to most output formats, using print themes to have a common style to all tables in a document, etc.

While the output of `tbl_listing()` is class `'gtsummary'`, these tables are not meant to be merged with other `'gtsummary'` tables with `tbl_merge()`, or reporting table contents with `inline_text()`. The reason is that a proper `'gtsummary'` contains **additional, hidden structure** not present in the result of `tbl_listing()`. If you do need to report the results of `tbl_listing()` in-line, it's recommended to convert the table to a data frame, then extract the needed cell, e.g.

```
tbl_listing() |>
  as_tibble(col_names = FALSE) |>
  dplyr::slice(1) |>
  dplyr::pull(colname)`
```

Example Output**Examples**

```
library(dplyr, warn.conflicts = FALSE)

tbl_listing_ex1 <-
  head(df_adverse_events, n = 10) %>%
  select(system_organ_class, adverse_event, grade, drug_attribution, patient_id) %>%
  arrange(adverse_event, desc(grade)) %>%
  tbl_listing(group_by = system_organ_class) %>%
  bold_labels()

set.seed(11234)
tbl_listing_ex2 <-
df_patient_characteristics %>%
  dplyr::slice_sample(n = 10) %>%
  select(patient_id, status, discontinued, off_trt_ae) %>%
  tbl_listing() %>%
  as_gt() %>%
  gt::opt_row_striping()
```

tbl_reg_summary *Data Summary Table*

Description

Function wraps `gtsummary::tbl_summary()` to create a data summary table often seen in regulatory submissions. Continuous variable summaries are shown on multiple lines with additional summary statistics and percentages are shown for categorical variables; precision levels estimated based on values observed.

Usage

```
tbl_reg_summary(
  data,
  by = NULL,
  label = NULL,
  statistic = list(all_continuous() ~ c("{N_nonmiss}", "{mean} ({sd})",
    "{median} ({p25}, {p75})", "{min}, {max}", "{N_miss}"), all_categorical() ~
    "{n} ({p}%)" ),
  digits = NULL,
  type = NULL,
  value = NULL,
  missing = c("no", "yes", "ifany"),
  missing_text = "Unknown",
  missing_stat = "{N_miss}",
  sort = all_categorical(FALSE) ~ "alphanumeric",
  percent = c("column", "row", "cell"),
  include = everything()
)
```

Arguments

<code>data</code>	(data.frame) A data frame.
<code>by</code>	A column name (quoted or unquoted) in data. Summary statistics will be calculated separately for each level of the by variable (e.g. <code>by = trt</code>). If NULL, summary statistics are calculated using all observations.
<code>label</code>	(formula-list-selector) Used to override default labels in summary table, e.g. <code>list(age = "Age, years")</code> . The default for each variable is the column label attribute, <code>attr(, 'label')</code> . If no label has been set, the column name is used.
<code>statistic</code>	List of formulas specifying types of summary statistics to display for each variable.
<code>digits</code>	(formula-list-selector) Specifies how summary statistics are rounded. Values may be either integer(s) or function(s). If not specified, default formatting is assigned via <code>assign_summary_digits()</code> . See below for details.

type	List of formulas specifying variable types. Accepted values are <code>c("continuous", "continuous2", "categorical", "dichotomous")</code> , e.g. <code>type = list(age ~ "continuous", female ~ "dichotomous")</code> . If type not specified for a variable, the function will default to an appropriate summary type.
value	List of formulas specifying the value to display for dichotomous variables. <code>gt-summary</code> selectors, e.g. <code>all_dichotomous()</code> , cannot be used with this argument.
missing, missing_text, missing_stat	Arguments dictating how and if missing values are presented: <ul style="list-style-type: none"> • <code>missing</code>: must be one of <code>c("ifany", "no", "always")</code> • <code>missing_text</code>: string indicating text shown on missing row. Default is "Unknown" • <code>missing_stat</code>: statistic to show on missing row. Default is "{N_miss}". Possible values are <code>N_miss</code>, <code>N_obs</code>, <code>N_nonmiss</code>, <code>p_miss</code>, <code>p_nonmiss</code>.
sort	(formula-list-selector) Specifies sorting to perform for categorical variables. Values must be one of <code>c("alphanumeric", "frequency")</code> . Default is <code>all_categorical(FALSE) ~ "alphanumeric"</code> .
percent	(string) Indicates the type of percentage to return. Must be one of <code>c("column", "row", "cell")</code> . Default is "column".
include	(tidy-select) Variables to include in the summary table. Default is <code>everything()</code> .

Value

a 'tbl_reg_summary' object

Example Output**See Also**

See `gtsummary::tbl_summary()` help file

See [vignette](#) for detailed tutorial

Examples

```
tbl_reg_summary_ex1 <-
  df_patient_characteristics %>%
  tbl_reg_summary(by = trt, include = c(marker, status))
```

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