Package 'demoGraphic'

January 9, 2019

Title Providing Demographic Table with the P-Value, Standardized Mean Difference Value
Version 0.1.0
Description The Demographic Table in R combines contingency table for categorical variables, mean and standard deviation for continuous variables. t-test, chi-square test and Fisher's exact test calculated the p-value of two groups. The standardized mean difference were performed with 95 % confident interval, and writing table into document file.
License GPL-3
Encoding UTF-8
LazyData true
Imports officer, magrittr, MASS, stats
RoxygenNote 6.1.1
Suggests testthat
NeedsCompilation no
Author Loan Robinson [aut, cre]
Maintainer Loan Robinson <loankimrobinson@gmail.com></loankimrobinson@gmail.com>
Repository CRAN
Date/Publication 2019-01-09 17:30:07 UTC
Date/1 abilication 2017 01 07 17.50.07 010
R topics documented:
cat_smd
cat_table
cont_smd
cont_table
demo_table
my.chi.sq
my.fisher
mydocx

2 cat_table

Index 9

cat_smd smd value for categorical variables

Description

smd value for categorical variables

Usage

```
cat_smd(ntable, var, data)
```

Arguments

ntable propotion table of baseline categorical variable and group variable

var baseline categorical variable

data data

Examples

```
set.seed(2018)
group <-round(abs(rnorm(500)*10),0) %% 2
cont_1 <-round(abs(rnorm(500)*10),0)
cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3
data_check <-data.frame(group, cont_1, cat_multi_1)
data_check$group <- factor(data_check$group, levels = c(0,1), labels = c("Control","Treatment"))
data_check$cat_multi_1 <- factor(data_check$cat_multi_1)
cat_smd(table(data_check$cat_multi_1, data_check$group),"cat_multi_1",data_check )</pre>
```

cat_table

DemoGraphic table for categorical variables

Description

DemoGraphic table for categorical variables

Usage

```
cat_table(var, strata, data)
```

Arguments

var baseline variables

strata group variable with 1 = treatment and 0 = control

data data

cont_smd 3

Examples

```
set.seed(2018)
group <-round(abs(rnorm(500)*10),0) %% 2
cont_1 <-round(abs(rnorm(500)*10),0)
cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3
data_check <-data.frame(group, cont_1, cat_multi_1)
data_check$group <- factor(data_check$group, levels = c(0,1), labels = c("Control","Treatment"))
data_check$cat_multi_1 <- factor(data_check$cat_multi_1)
cat_table("cat_multi_1","group",data_check)</pre>
```

 $cont_smd$

smd value for continuous variable.

Description

smd value for continuous variable.

Usage

```
cont_smd(mean1, mean2, var1, var2)
```

Arguments

mean1	mean of a baseline variable in the treatment group.
mean2	mean of a baseline variable in the control group.
var1	variance a baseline variable in the treatment group.
var2	variance of a baseline variable in the control group.

Value

smd value

```
cont_smd(10,11,2,3)
```

demo_table

cont_table

DemoGraphic table for continuous variables

Description

DemoGraphic table for continuous variables

Usage

```
cont_table(var, strata, data)
```

Arguments

var variables

strata group variable with 1 = treatment and 0 = control

data data

Value

mean, standard deviation of treatmant and control group, smd, and p value.

Examples

```
set.seed(2018)
group <-round(abs(rnorm(500)*10),0) %% 2
cont_1 <-round(abs(rnorm(500)*10),0)
cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3
data_check <-data.frame(group, cont_1, cat_multi_1)
data_check$group <- factor(data_check$group, levels = c(0,1), labels = c("Control","Treatment"))
data_check$cat_multi_1 <- factor(data_check$cat_multi_1)
cont_table("cont_1","group", data_check)</pre>
```

demo_table

Demographic Table for continuous and categorical variables

Description

Demographic Table for continuous and categorical variables

Usage

```
demo_table(var, strata, data)
```

get_mean 5

Arguments

var list of baseline variables

strata group variable with 1 = treatment and 0 = control

data data

Examples

```
set.seed(2018)
group <-round(abs(rnorm(500)*10),0) %% 2
cont_1 <-round(abs(rnorm(500)*10),0)
cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3
data_check <-data.frame(group, cont_1, cat_multi_1)
data_check$group <- factor(data_check$group, levels = c(0,1), labels = c("Control","Treatment"))
data_check$cat_multi_1 <- factor(data_check$cat_multi_1)
demo_table(c("cont_1","cat_multi_1"),"group", data_check)</pre>
```

get_mean

Mean, var function

Description

Mean, var function

Usage

```
get_mean(x)
```

Arguments

Χ

variable

Value

mean table

```
get_mean(round(abs(rnorm(500)*10),0))
```

6 my.fisher

my.chi.sq

chi square test to get expected value and p value

Description

chi square test to get expected value and p value

Usage

```
my.chi.sq(...)
```

Arguments

... variables

Examples

```
set.seed(2018)
group <-round(abs(rnorm(500)*10),0) %% 2
cont_1 <-round(abs(rnorm(500)*10),0)
cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3
data_check <-data.frame(group, cont_1, cat_multi_1)
data_check$group <- factor(data_check$group, levels = c(0,1), labels = c("Control","Treatment"))
data_check$cat_multi_1 <- factor(data_check$cat_multi_1)
my.chi.sq(table(data_check$cat_multi_1, data_check$group))</pre>
```

my.fisher

fisher exact test to get p value if any cell in propotion table of expect value less than 5

Description

fisher exact test to get p value if any cell in propotion table of expect value less than 5

Usage

```
my.fisher(...)
```

Arguments

... variables

```
set.seed(2018)
data_check <-data.frame(
  group <-round(abs(rnorm(500)*10),0) %% 2,
  cat_multi_1 <-round(abs(rnorm(500)*10),0) %% 3)
my.fisher(table(data_check$cat_multi_1, data_check$group))</pre>
```

mydocx 7

 ${\sf mydocx}$

write smd table or demographic table into docx file

Description

write smd table or demographic table into docx file

Usage

```
mydocx(smd_table, name)
```

Arguments

smd_table

smd table or demo graphic table.

name

file name to save

Examples

```
mydocx(data.frame(smd.value <- 3.4, smd.lo <- 1.1, smd.up <- 5.6), "smd_table")</pre>
```

 smd_ci

Confident interval for smd

Description

Confident interval for smd

Usage

```
smd_ci(n1, n2, smd)
```

Arguments

n1 length of a baseline variable in the treatment group.n2 length of a baseline variable in the control group.

smd smd value

Value

vector of 95

```
smd_ci(10,12,0.3)
```

8 t.test.p.value

t.test.p.value

t.test to calculate p value

Description

```
t.test to calculate p value
```

Usage

```
## S3 method for class 'test.p.value' t(...)
```

Arguments

... variables

Value

p value

Index

```
cat_smd, 2
cat_table, 2
cont_smd, 3
cont_table, 4

demo_table, 4

get_mean, 5

my.chi.sq, 6
my.fisher, 6
mydocx, 7

smd_ci, 7

t.test.p.value, 8
```