第十章

设置目录

```
setwd("D:\\data\\chapter 10")
```

例 10-1

```
A<-read.csv("10-1.csv")
median(A$DON)
```

```
## [1] 142.8
```

```
zhihejianyan1<-wilcox.test(A$DON - A$ 中位数,exact=FALSE,correct=FALSE)
zhihejianyan1
```

```
##
##  Wilcoxon signed rank test
##
## data:  A$DON - A$中位数
## V = 184, p-value = 0.003132
## alternative hypothesis: true location is not equal to 0
```

例 10-2

```
B<-read.csv("10-2.csv")
zhihejianyan2<-wilcox.test(B$ 放射免疫法,B$ 酶联免疫法,exact=FALSE,paired=TRUE,correct=FALSE)
zhihejianyan2
```

```
##
##  Wilcoxon signed rank test
##
## data:  B$放射免疫法 and B$酶联免疫法
## V = 21.5, p-value = 0.9054
## alternative hypothesis: true location shift is not equal to 0
```

例 10-3

```
C<-read.csv("10-3.csv")
zhihejianyan3<-wilcox.test(Ca 含量 ~ 性别,data=C,exact=FALSE,correct=FALSE,paired=FALSE)
zhihejianyan3
```

```
##
##  Wilcoxon rank sum test
##
## data:  Ca含量 by 性别
## W = 78, p-value = 0.03429
## alternative hypothesis: true location shift is not equal to 0
```

例 10-4

```
D<-read.csv("10-4.csv")
zhihejianyan4<-wilcox.test(分值 ~ 地区,data=D,exact=FALSE,correct=FALSE,paired=FALSE)
zhihejianyan4
```

```
##
##  Wilcoxon rank sum test
##
## data:  分值 by 地区
## W = 3255, p-value < 2.2e-16
## alternative hypothesis: true location shift is not equal to 0
```

例 10-5

```
E<-read.csv("10-5.csv")
zhihejianyan5<-wilcox.test(临床分度 ~ 地区,data=E,exact=FALSE,correct=FALSE,paired=FALSE)
zhihejianyan5
```

```
##
##  Wilcoxon rank sum test
##
## data:  临床分度 by 地区
## W = 5355.5, p-value = 0.8835
## alternative hypothesis: true location shift is not equal to 0
```

例 10-6

```
F<-read.csv("10-6.csv")
zhihejianyan6<-kruskal.test(TNF.  ~ 组别,data=F)
zhihejianyan6
```

```
##
##  Kruskal-Wallis rank sum test
##
## data:  TNF. by 组别
## Kruskal-Wallis chi-squared = 11.18, df = 2, p-value = 0.003735
```

例 10-7

```
G<-read.csv("10-7.csv")
zhihejianyan7<-kruskal.test(临床分度 ~ 年龄组,data=G)
zhihejianyan7
```

```
##
##  Kruskal-Wallis rank sum test
##
## data:  临床分度 by 年龄组
## Kruskal-Wallis chi-squared = 1.3296, df = 3, p-value = 0.7221
```