peanut.R

Samuel

Thu Dec 06 11:29:30 2018

# Sam Tenney  
# Homework 11  
# Peanut.R  
  
# Read in the data  
peanut <- read.table(text = "treatment,outcome  
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Peanut Avoidance,PASS OFC", header = TRUE, sep = ",")  
  
# Look at the data  
str(peanut)

## 'data.frame': 550 obs. of 2 variables:  
## $ treatment: Factor w/ 2 levels "Peanut Avoidance",..: 2 1 2 1 2 2 2 1 1 2 ...  
## $ outcome : Factor w/ 2 levels "FAIL OFC","PASS OFC": 2 2 2 2 2 2 1 1 2 2 ...

head(peanut)

## treatment outcome  
## 1 Peanut Consumption PASS OFC  
## 2 Peanut Avoidance PASS OFC  
## 3 Peanut Consumption PASS OFC  
## 4 Peanut Avoidance PASS OFC  
## 5 Peanut Consumption PASS OFC  
## 6 Peanut Consumption PASS OFC

tail(peanut)

## treatment outcome  
## 545 Peanut Consumption PASS OFC  
## 546 Peanut Avoidance PASS OFC  
## 547 Peanut Consumption PASS OFC  
## 548 Peanut Consumption PASS OFC  
## 549 Peanut Avoidance PASS OFC  
## 550 Peanut Avoidance PASS OFC

# Create a table of the data  
peanutTab <- table(peanut$treatment, peanut$outcome)  
addmargins(peanutTab)

##   
## FAIL OFC PASS OFC Sum  
## Peanut Avoidance 52 228 280  
## Peanut Consumption 13 257 270  
## Sum 65 485 550

# Calculate proportions with peanut allergy in each group  
prop.table(peanutTab, margin = 1)

##   
## FAIL OFC PASS OFC  
## Peanut Avoidance 0.18571429 0.81428571  
## Peanut Consumption 0.04814815 0.95185185

# Perform a chi squared test  
chisq.test(peanutTab, correct=FALSE)

##   
## Pearson's Chi-squared test  
##   
## data: peanutTab  
## X-squared = 24.96, df = 1, p-value = 5.852e-07

# Perform a Fisher's Exact Test  
fisher.test(peanutTab)

##   
## Fisher's Exact Test for Count Data  
##   
## data: peanutTab  
## p-value = 5.29e-07  
## alternative hypothesis: true odds ratio is not equal to 1  
## 95 percent confidence interval:  
## 2.340649 9.245221  
## sample estimates:  
## odds ratio   
## 4.497453

# Calculate a 95% confidence interval for the diff in proportions  
prop.test(peanutTab, correct = FALSE)

##   
## 2-sample test for equality of proportions without continuity  
## correction  
##   
## data: peanutTab  
## X-squared = 24.96, df = 1, p-value = 5.852e-07  
## alternative hypothesis: two.sided  
## 95 percent confidence interval:  
## 0.08534761 0.18978466  
## sample estimates:  
## prop 1 prop 2   
## 0.18571429 0.04814815