

```
> prop.test(c(592,119,849,504,36),c(1136,216,1526,955,50))
```

5-sample test for equality of proportions without continuity correction

```
data: c(592, 119, 849, 504, 36) out of c(1136, 216, 1526, 955, 50)
```

```
X-square = 10.4674, df = 4, p-value = 0.0332
```

```
alternative hypothesis: two.sided
```

```
sample estimates:
```

```
prop'n in Group 1 prop'n in Group 2 prop'n in Group 3
```

```
0.5211268 0.5509259 0.5563565
```

```
prop'n in Group 4 prop'n in Group 5
```

```
0.5277487 0.72
```

```
> prop.test(c(592,119,849,540),c(1136,216,1526,1005))
```

4-sample test for equality of proportions without continuity correction

```
data: c(592, 119, 849, 540) out of c(1136, 216, 1526, 1005)
```

```
X-square = 3.396, df = 3, p-value = 0.3345
```

```
alternative hypothesis: two.sided
```

```
sample estimates:
```

```
prop'n in Group 1 prop'n in Group 2 prop'n in Group 3
```

```
0.5211268 0.5509259 0.5563565
```

```
prop'n in Group 4
```

```
0.5373134
```

```
> prop.test(c(592,119,849,504),c(1136,216,1526,955))
```

4-sample test for equality of proportions without continuity correction

```
data: c(592, 119, 849, 504) out of c(1136, 216, 1526, 955)
```

```
X-square = 3.916, df = 3, p-value = 0.2707
```

```
alternative hypothesis: two.sided
```

```
sample estimates:
```

```
prop'n in Group 1 prop'n in Group 2 prop'n in Group 3
```

```
0.5211268 0.5509259 0.5563565
```

```
prop'n in Group 4
```

```
0.5277487
```

```
> salk.mat_rbind(c(200688,24,33),c(201087,27,115))
```

```
> salk.mat
```

```
 [,1] [,2] [,3]
```

```
[1,] 200688 24 33
```

```
[2,] 201087 27 115
```

```
> salk.mat_matrix(c(200688,24,33,201087,27,115),2,3,byrow=T)
```

```
> chisq.test(salk.mat)
```

Pearson's chi-square test without Yates' continuity correction

```
data: salk.mat
```

X-square = 45.4224, df = 2, p-value = 0

```
> fisher.test(salk.mat)
Error in fisher.test(salk.mat): Sum of counts in table > 200
> pref.mat_rbind(c(18,5,7),c(6,4,8))
> pref.mat
  [,1] [,2] [,3]
[1,] 18  5  7
[2,]  6  4  8
> fisher.test(pref.mat)
```

Fisher's exact test

```
data: pref.mat
p-value = 0.1896
alternative hypothesis: two.sided
```

```
> chisq.test(pref.mat)
```

Pearson's chi-square test without Yates' continuity correction

```
data: pref.mat
X-square = 3.3896, df = 2, p-value = 0.1836
```

Warning messages:

```
Expected counts < 5. Chi-square approximation may not be appropriate.
in: chisq.test(pref.mat)
> x.array_array(c(120,80,111,155,161,130,117,124),c(2,2,2))
> x.array
```

```
., 1
  [,1] [,2]
[1,] 120 111
[2,]  80 155
```

```
., 2
  [,1] [,2]
[1,] 161 117
[2,] 130 124
```

```
> mantelhaen.test(x.array)
```

Mantel-Haenszel chi-square test with continuity correction

```
data: x.array
Mantel-Haenszel chi-square = 13.9423, df = 1, p-value = 0.0002
```