Blood Type Distribution Analysis
Observed vs Expected
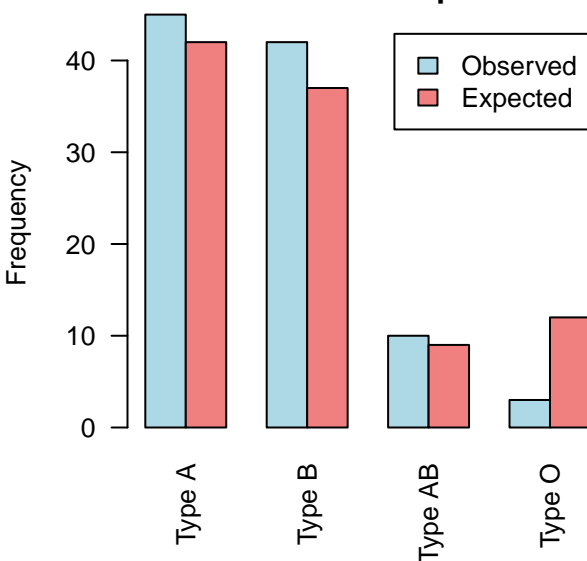
Standardized Residuals
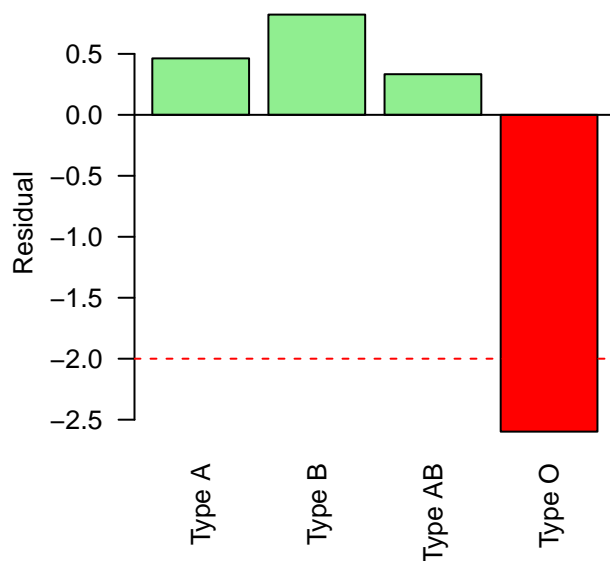
Observed Distribution

Type A (45)
Type O (3)
Type AB (10)
Type B (42)
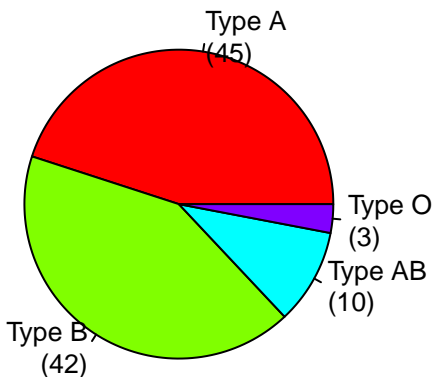
Test Summary

Chi−Square Goodness of Fit
Chi−square statistic: 7.7511
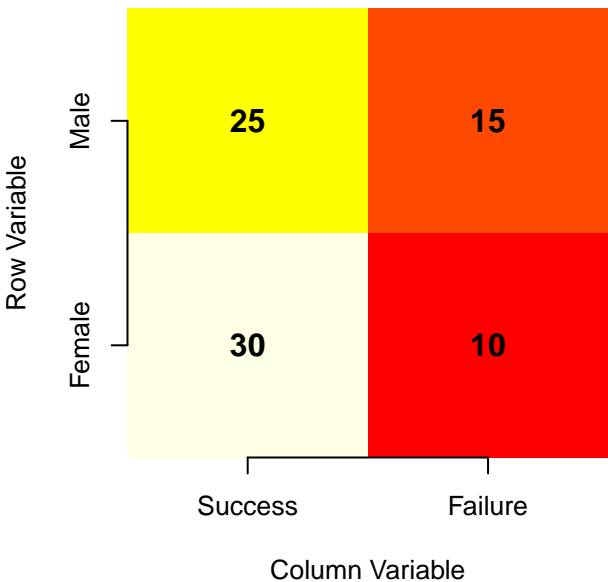Degrees of freedom: 3
p−value: 0.051446
Sample size: 100
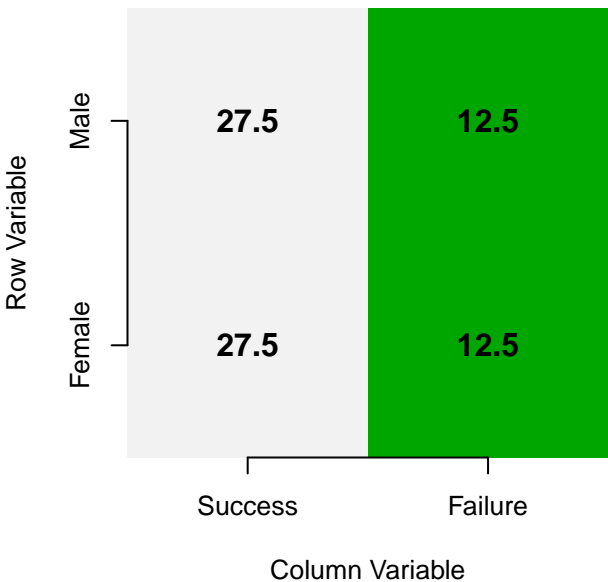Significance: ns
Result: Fail to reject H0
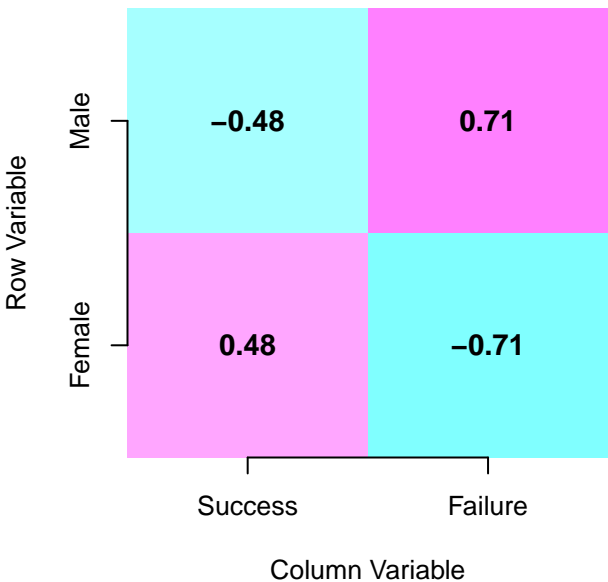Observed = Expected

Cramer's V: 0.2784

Observed Frequencies

	Success	Failure
Male	25	15
Female	30	10

Row Variable / Column Variable

Expected Frequencies

	Success	Failure
Male	27.5	12.5
Female	27.5	12.5

Row Variable / Column Variable

Standardized Residuals

	Success	Failure
Male	−0.48	0.71
Female	0.48	−0.71

Row Variable / Column Variable

Independence Test Summary

Chi−Square Test of Independence

Chi−square statistic: 1.4545
Degrees of freedom: 1
p−value: 0.2278
Sample size: 80
Cramer's V: 0.1348
Phi coefficient: 0.1348
Significance: ns
Result: Variables are independent
Effect size: small