

Case: Caffeine

Story

In a study the caffeine consumption by marital status among women giving birth was investigated. The results are given in the table below

Marital status	Caffeine			
	0	1-150	151-300	>300
Married	652	1537	598	242
Prev. Married	36	46	38	21
Single	218	327	106	67

Exercise

1. Type the data into R so that appropriate analysis can be carried out
2. Determine whether Caffeine consumption and Marital status are independent
3. If there is dependence between Caffeine consumption and Marital status, what is the conclusion?
4. Suppose that you had access to the caffeine values (and not just the categories). What kind of setup would this be?
 - a. Which test would you use in the parametric setup (ie. when data is normally distributed)?
 - b. Which test would you use in the non-parametric setup?
5. Although we are testing for interaction btw to variables (caffeine and marital status), why is this different from two-way anova?