

Session 7: Contingency Tables

Exercises

Question 1

What does H_0 predict we would observe in the first 3 columns of the table below?

		Daily # cigarettes						
		None	< 5	5-14	15-24	25-49	50+	
Cancer								700
Control								2100
		68	184	1059	...			2800

Question 2

Compute the estimated risk ratio (RR) and a 95% CI for the Pauling dataset.

		Disease Status		
		Cold	no Cold	TOTAL
Exposure Status	Vitamin C	17	122	139
	Placebo	31	109	140
TOTAL		48	231	279

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Question 3

Compute χ^2 , the estimated odds ratio (OR), and a 95% CI for the Keller dataset.

		Disease Status		TOTAL
		Case	Control	
Exposure Status	Smoker	484	385	869
	Nonsmoker	27	90	117
TOTAL		511	475	986

Question 4

Compute χ^2 and the estimated odds ratio (OR) for the Drosophila dataset.

		Sex		TOTAL
		Male	Female	
Eye Color	Red	165	300	465
	White	176	81	257
TOTAL		341	381	722