

Practice with Correlation and X² -- Answers

From each patient we also collected data about the frequency of their therapy (once vs. twice weekly) and where they received therapy (University Health Center or a private therapist). The research hypothesis was that those receiving therapy at the University Health Center would tend to have therapy once each week, while those receiving therapy from a private therapist would tend to have therapy twice each week.

Here are the results of the X² analysis.

Frequency of Therapy * Therapy Location Crosstabulation

Count		Therapy Location		Total
		Univ. Health Center	Private Therapist	
Frequency of Therapy	once a week	15	2	17
	twice a week	6	7	13
Total		21	9	30

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	6.212 ^b	1	.013
Continuity Correction ^a	4.370	1	.037
Likelihood Ratio	6.392	1	.011
Linear-by-Linear Association	6.005	1	.014
N of Valid Cases	30		

a. Computed only for a 2x2 table

b. 1 cells (25.0%) have expected count less than 5. The minimum expected count is 3.90.

Is there a relationship between the location of therapy and the frequency of therapy? Explain your answer.

Yep -- $p < .05$

Do these results provide full, partial, or no support for the RH:? Explain your answer.

Full support! As hypothesized, those receiving therapy at the University Health Center tend to have therapy once a week (15 vs. 6), and those receiving therapy from a private therapist tend to receive therapy twice a week.