

Tests of independence - species vs. infection

Obs	species	infected	obsfreq
1	A	yes	7
2	A	no	18
3	B	yes	12
4	B	no	38
5	C	yes	15
6	C	no	20
7	D	yes	27
8	D	no	13

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The FREQ Procedure

Frequency Expected Cell Chi-Square Percent Row Pct Col Pct	Table of infected by species				
	infected	species			
		A	B	C	D
yes		7	12	15	27
		10.167	20.333	14.233	16.267
		0.9863	3.4153	0.0413	7.0822
		4.67	8.00	10.00	18.00
		11.48	19.67	24.59	44.26
no		28.00	24.00	42.86	67.50
		18	38	20	13
		14.833	29.667	20.767	23.733
		0.676	2.3408	0.0283	4.8541
		12.00	25.33	13.33	8.67
Total		20.22	42.70	22.47	14.61
		72.00	76.00	57.14	32.50
		25	50	35	40
		16.67	33.33	23.33	26.67
					100.00

Statistics for Table of infected by species

Statistic	DF	Value	Prob
Chi-Square	3	19.4245	0.0002
Likelihood Ratio Chi-Square	3	19.6810	0.0002
Mantel-Haenszel Chi-Square	1	15.9999	<.0001
Phi Coefficient		0.3599	
Contingency Coefficient		0.3386	
Cramer's V		0.3599	

Pearson Chi-Square Test	
Chi-Square	19.4245
DF	3
Asymptotic Pr > ChiSq	0.0002
Exact Pr >= ChiSq	0.0002

Likelihood Ratio Chi-Square Test	
Chi-Square	19.6810
DF	3
Asymptotic Pr > ChiSq	0.0002
Exact Pr >= ChiSq	0.0002

Mantel-Haenszel Chi-Square Test	
Chi-Square	15.9999
DF	1
Asymptotic Pr > ChiSq	<.0001

Exact Pr >= ChiSq	<.0001
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Sample Size = 150

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Obs	infected	species	COUNT	PERCENT	PCT_ROW	PCT_COL
1	yes	A	7	4.6667	11.4754	28.0000
2	yes	B	12	8.0000	19.6721	24.0000
3	yes	C	15	10.0000	24.5902	42.8571
4	yes	D	27	18.0000	44.2623	67.5000
5	no	A	18	12.0000	20.2247	72.0000
6	no	B	38	25.3333	42.6966	76.0000
7	no	C	20	13.3333	22.4719	57.1429
8	no	D	13	8.6667	14.6067	32.5000

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Percent of Column Frequency

