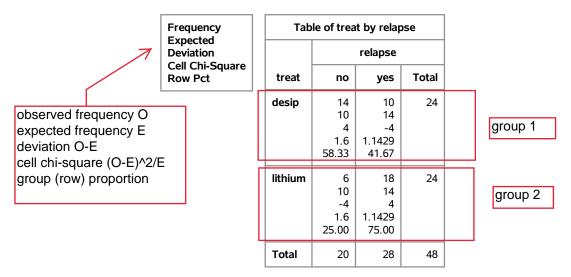
### cocaine treatment

### The FREQ Procedure



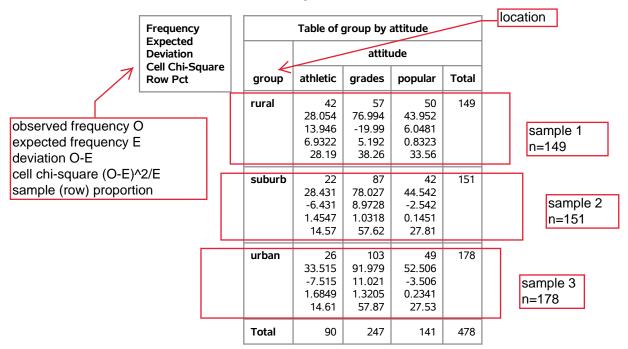
# **Statistics for Table of treat by relapse**

	Statistic	DF	Value	Prob	
	Chi-Square	1	5.4857	0.0192	K
	Likelihood Ratio Chi-Square	1	5.6092	0.0179	
	Continuity Adj. Chi-Square	1	4.2000	0.0404	
	Mantel-Haenszel Chi-Square	1	5.3714	0.0205	P-value for H_1: p_D not equal p_L
	Phi Coefficient		0.3381		
	Contingency Coefficient		0.3203		strong evidence that the probability of relapse
	Cramer's V		0.3381		depends on the treatment
					p_D is different from p_L

Fisher's Exact Test			
Cell (1,1) Frequency (F)	14		
Left-sided Pr <= F	0.9962		
Right-sided Pr >= F	0.0196		
Table Probability (P)	0.0158		
Two-sided Pr <= P	0.0392		

Sample Size = 48

#### The FREQ Procedure



# Statistics for Table of group by attitude

Statistic	DF	Value	Prob
Chi-Square	4	18.8276	0.0008
Likelihood Ratio Chi-Square	4	18.5706	0.0010
Mantel-Haenszel Chi-Square	1	0.9217	0.3370
Phi Coefficient		0.1985	
Contingency Coefficient		0.1947	
Cramer's V		0.1403	

# Sample Size = 478

The null hypothesis is

H\_0: the ratio of the three proportions

p\_A:p\_G:p\_P is the same for all three locations

A: athletic

G: grades

P: popularity

The small P-values shows strong evidence that this is not true. The relationship among these three proportions varies among the three locations/populations

## blood types

### The FREQ Procedure

Frequency Expected Cell Chi-Square Percent **Row Pct** Col Pct

	Table of type by group						
	group						
type	Н	нс	HW	w	Total		
A	2490 1916.7 171.45 1.72 4.18 53.32	2368 2210.2 11.265 1.63 3.98 43.97	4671 4097 80.419 3.22 7.85 46.79	50008 51313 33.191 34.47 83.99 40.00	59537 41.04		
AB	99 179.61 36.179	243 207.11 6.2189	236 383.92 56.989	5001 4808.4 7.7177	5579		
	0.07 1.77 2.12	0.17 4.36 4.51	0.16 4.23 2.36	3.45 89.64 4.00	3.85		
В	178 566.75 266.65 0.12	568 653.52 11.191 0.39	606 1211.4 302.56 0.42	16252 15172 76.83 11.20	17604 12.14		
	1.01 3.81	3.23 10.55	3.44 6.07	92.32 13.00			
0	1903 2006.9 5.3783	2206 2314.2 5.055	4469 4289.7 7.4962	53759 53726 0.0199	62337		
	1.31 3.05 40.75	1.52 3.54 40.97	3.08 7.17 44.77	37.06 86.24 43.00	42.97		
Total	4670 3.22	5385 3.71	9982 6.88	125020 86.19	145057 100.00		

Here we have a sample of 145,057 individuals cross-classified by ethnicity: H, HC, HW, W

and

blood type: A, AB, B, O

The null hypothesis for the chisquare test of independence states that the classification of an individual by ethnicity is independent of the classification of the person by blood type. In other words, the blood type dostribution (classification) does not depend on ethnicity.

# Statistics for Table of type by group

there is strong evidence against the null hypothesis

Statistic	DF	Value	Prob
Chi-Square	9	1078.6036	<.0001
Likelihood Ratio Chi-Square	9	1242.1787	<.0001
Mantel-Haenszel Chi-Square	1	219.4307	<.0001
Phi Coefficient		0.0862	
Contingency Coefficient		0.0859	
Cramer's V		0.0498	

**Sample Size = 145057**