Table 28-4 Chi-Square Test of Independence: Association between Depression and Dementia

```
CROSSTABS
  /TABLES=Depression BY Dementia
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ CC PHI RISK
  /CELLS=COUNT EXPECTED ROW COLUMN TOTAL SRESID
  /COUNT ROUND CELL
  /BARCHART.
```

Crosstabs

Run using Descriptives > Crosstabs

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Depression * Dementia	75	100.0%	0	0.0%	75	100.0%

Depression * Dementia Crosstabulation

			Dementia		
			No Dementia	Dementia	Total
Depression	Not Depressed	Count	42	11	53
		Expected Count	34.6	18.4	53.0
		% within Depression	79.2%	20.8%	100.0%
		% within Dementia	85.7%	42.3%	70.7%
		% of Total	56.0%	14.7%	70.7%
		Standardized Residual	1.3	-1.7	
	Depressed	Count	7	15	22
		Expected Count	14.4	7.6	22.0
		% within Depression	31.8%	68.2%	100.0%
		% within Dementia	14.3%	57.7%	29.3%
		% of Total	9.3%	20.0%	29.3%
		Standardized Residual	-1.9	2.7	
Total		Count	49	26	75
		Expected Count	49.0	26.0	75.0
		% within Depression	65.3%	34.7%	100.0%
		% within Dementia	100.0%	100.0%	100.0%
		% of Total	65.3%	34.7%	100.0%

Chi-Square Tests

	Value	df	Asymptotic Significance (2-sided)	Exact Sig. (2-sided)	Exact Sig. (1-sided)
Pearson Chi-Square	15.440[a]	1	.000		
Continuity Correction[b]	13.417	1	.000		
Likelihood Ratio	15.149	1	.000		
Fisher's Exact Test				.000	.000
Linear-by-Linear Association	15.234	1	.000		
N of Valid Cases	75				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 7.63.

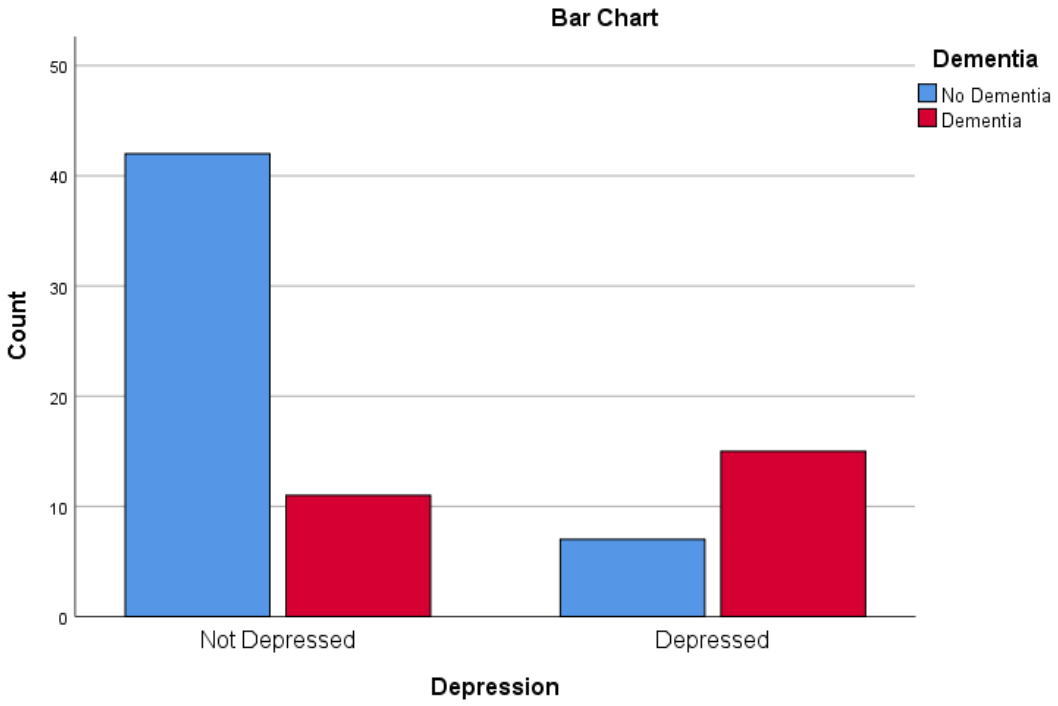
b. Computed only for a 2x2 table

Symmetric Measures

		Value	Approximate Significance
Nominal by Nominal	Phi	.454	.000
	Cramer's V	.454	.000
	Contingency Coefficient	.413	.000
N of Valid Cases		75	

Risk Estimate

	Value	95% Confidence Interval Lower	95% Confidence Interval Upper
Odds Ratio for Depression (Not Depressed / Depressed)	8.182	2.680	24.977
For cohort Dementia = No Dementia	2.491	1.330	4.662
For cohort Dementia = Dementia	.304	.167	.554
N of Valid Cases	75		


Bar Chart
Dementia
No Dementia
Dementia
Count
50
40
30
20
10
0
Not Depressed
Depressed
Depression