Anthony Cunningham

STAT: 2010

11/15/2016

**Homework 11 SAS Code**

#28. **data** smokecess;

input smoked $ treatment $ count;

datalines;

N C 155

N B 97

N P 61

Y C 197

Y B 232

Y P 283

;

**run**;

**proc** **freq** data = smokecess; \*produces 2x3 table and finds p-hats and chi-square;

tables smoked \* treatment/ expected;

weight count;

**run**;

Table of smoked by treatment

smoked treatment

Frequency‚

Expected ‚

Percent ‚

Row Pct ‚

Col Pct ‚B ‚C ‚P ‚ Total

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

N ‚ 97 ‚ 155 ‚ 61 ‚ 313

‚ 100.47 ‚ 107.49 ‚ 105.05 ‚

‚ 9.46 ‚ 15.12 ‚ 5.95 ‚ 30.54

‚ 30.99 ‚ 49.52 ‚ 19.49 ‚

‚ 29.48 ‚ 44.03 ‚ 17.73 ‚

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Y ‚ 232 ‚ 197 ‚ 283 ‚ 712

‚ 228.53 ‚ 244.51 ‚ 238.95 ‚

‚ 22.63 ‚ 19.22 ‚ 27.61 ‚ 69.46

‚ 32.58 ‚ 27.67 ‚ 39.75 ‚

‚ 70.52 ‚ 55.97 ‚ 82.27 ‚

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Total 329 352 344 1025

32.10 34.34 33.56 100.00

Statistic DF Value Prob

ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Chi-Square 2 56.9919 <.0001

#30. **data** cocaine;

input cocaineUse $ treatment $ count;

datalines;

Y P 168

Y I 200

Y A 224

N P 632

N I 600

N A 576

;

**run**;

**proc** **freq** data = cocaine; \*creates table and finds chi-square and p- value;

tables cocaineUse \* treatment/ chisq;

weight count;

**run**;

Table of cocaineUse by treatment

cocaineUse treatment

Frequency‚

Percent ‚

Row Pct ‚

Col Pct ‚A ‚I ‚P ‚ Total

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

N ‚ 576 ‚ 600 ‚ 632 ‚ 1808

‚ 24.00 ‚ 25.00 ‚ 26.33 ‚ 75.33

‚ 31.86 ‚ 33.19 ‚ 34.96 ‚

‚ 72.00 ‚ 75.00 ‚ 79.00 ‚

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Y ‚ 224 ‚ 200 ‚ 168 ‚ 592

‚ 9.33 ‚ 8.33 ‚ 7.00 ‚ 24.67

‚ 37.84 ‚ 33.78 ‚ 28.38 ‚

‚ 28.00 ‚ 25.00 ‚ 21.00 ‚

ƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Total 800 800 800 2400

33.33 33.33 33.33 100.00

Statistics for Table of cocaineUse by treatment

Statistic DF Value Prob

ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Chi-Square 2 10.6195 0.0049