

KEY OVERVIEW:

DV = Changes because of the IV manipulation | IV = isn't changed by the other variables (the cause)

P-value 0.05 or lower = statistically significant result | P-value higher than 0.05 = non-significant result

Swilk Test p-value above than 0.05 = normally distributed results

Correlation:

- From 0 to 0.10 = no real relationship
- 0.10 to 0.30 = weak relationship
- 0.30 to 0.50 = moderate relationship
- 0.50 to 1 = strong relationship

Effect Size: Cohen's D

- 0.2 = small effect
- 0.5 = medium effect
- 0.8 = large effect

Effect Size: Cohen's W

- 0.01 = small effect
- 0.06 = medium effect
- 0.14 = large effect

DATA CLASSIFICATION:

Categorical:

Nominal → Non relating categories

Ordinal → Ordered/categories of categories

Numerical:

Discrete → Pretty Integer values - whole numbers

Continuous → Ugly Integer values - decimals and fractions

DATA	categorical	numerical	
categorical	clustered bar charts	comparative bar plots	bar charts or pie charts
numerical	comparative box plots	scatter plots	histograms
	bar charts or pie charts	histograms	

DISTRIBUTION AND SKEWING

1. Symmetric - Normal, Uniform, Triangular
2. Skewed - Left or Right
3. Bimodal/ Multimodal/Unimodal



UNIVARIATE DESCRIPTIVE STATS:

Categorical data: discrete categories or groups or levels

— Frequency tables → **tabulate or tab1 command in Stata**

— Bar chart / pie chart → **graph bar or graph pie command in Stata**

Numeric data: a score on a scale

— Numeric summary statistics (mean/median/mode, standard deviation) → **summarize command in Stata**

— Histogram or box plot → **histogram or graph box command in Stata**

CORRELATION: All about the relationship (do the variables influence each other)

Pwcorr (the correlation coefficient) [variable 1] [variable 2], sig (p-value) obs → order of the commands = order on table

Perfect Correlation = data points making a straight [pos or neg] line

Weak Correlation = data points more dispersed

No Correlation = no [pos or neg] linear pattern to the data points

CORRELATION ASSUMPTIONS:

1. **Numeric Data:** both variables measured on numeric (interval/ratio) measurement scale
2. **Independence** of observations

2. **Monotonic, linearity** of any given relationship (nothing non-linear present)
3. **No major gaps or outliers** (inspect the scatterplot)

- Correlation formula can be expressed multiple ways

$$r = \frac{\text{cov}(x,y)}{s_x s_y}$$

$$r = \frac{[20(x-\bar{x})(y-\bar{y})]/(n-1)}{s_x s_y}$$

$$r = \frac{n \sum xy - \sum x \sum y}{\sqrt{[n \sum x^2 - (\sum x)^2][n \sum y^2 - (\sum y)^2]}}$$

- Test statistic for a correlation: $t = \frac{r\sqrt{n-2}}{\sqrt{1-r^2}}$

- Reporting in APA format!

- There is a statistically significant, positive, moderate correlation between pace of life and heart disease, $r(34) = .37$, $p = .028$. In US cities, the faster the pace of life, the greater the incidence of heart disease tends to be.

- 95% CI: from .042 to .619

— Wide range! Not very precise estimate

```
. c12 heart pace, corr
Confidence Interval for Pearson's product-moment correlation
of heart and pace, based on Fisher's transformation.
Correlation = 0.365 on 35 observations (95% CI: 0.042 to 0.629)
```

	pace	heart
pace	1.0000	
heart	0.3650 0.6290	1.0000

STATA COMMANDS:

Scatterplot = **twoway scatter var1 var2**

→ line of best fit **lfit var1 var2**

→ DV goes on Y axis (var1), IV goes on X axis (var2)

95% CI around the correlation coefficient = **c12 var1 var2, corr**

Stat170 Introduction To Stat Cheat Sheet

Chris O'Neal



Stat170 Introduction To Stat Cheat Sheet:

Cheat Sheet for Stat Samuel Warren Cochran, Joanne S. Holliman, 1974 STAT170 Introductory Statistics, 2000

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