

Research Question: Usually exploring a comparison, association or relationship

Level of measurement of data: Usually Categorical or Scale (Continuous)

Two possible outcomes:

Null Hypothesis (NH or H₀): Assumes no difference, association or relationship between the variables

Alternative Hypothesis (AH or H₁):

Assumes a difference, association or relationship between the variables

p-value:

A decision between the two hypotheses is made by viewing the 'p-value' or 'Sig-value' in SPSS, which is the probability (or chance) of getting the collected data (or more extreme) under the assumption of the null hypothesis.

If this probability is small, H_0 is rejected in favour of H_1 ', termed a 'statistically significant result'; otherwise 'fail to reject H_0 ', termed a 'non-statistically significant result'.

What is 'small'?

Conventionally, use p=0.05; hence, if

- $p \le 0.05$ ('p is less than or equal to 0.05'), reject H₀ in favour of H₁
- p > 0.05 ('p is greater than 0.05'), fail to reject H₀ [NB Not always quite the same as 'accept H₀']

Alternatively, interpret the p-value so that:

- p > 0.1 implies no evidence to reject H₀
- 0.05 0</sub>
- 0.01 0</sub>
- p < 0.01 implies strong evidence to reject H₀

Always relate outcome of the hypothesis testing back to particular variables in the study; don't just conclude with 'reject the null hypothesis'.