

# Comparing two groups - Independent groups

In the next two videos we will consider the z-test and t-test that allow us to compare two independent groups. The z-test allows us to compare two proportions. We use the t-test to compare two means. In these first two videos we compare independent groups, meaning that the participants in the two groups are unrelated to each other.

For both comparisons we'll consider the assumptions, the test statistic and test statistic distribution and p-value determination. We'll also look at a version of the t-test that adds an extra assumption of equal population variances. If we make this assumption the t-test becomes marginally more powerful to correctly reject the null hypothesis.

We'll also see how to determine confidence intervals to compare proportions and to compare means.

