**Appendix 1. Hypothesis tests for continuous outcomes**

For continuous outcomes assuming normality of the measure for each group:

, ,

We can define the hypothesis of equal treatment and placebo effects as:

Ho: , Ha: .

 Which can be re-written as:

Ho: , Ha: .

A point estimate for this statistic can be based on:

Where

And

Best estimate of given by

as

So that a standardised normal Z = can be used for hypothesis tests and 95%Confidence Interval estimation (95% CI: ).

**Appendix 2. Hypothesis test for binary outcomes**

Denote the proportion of events in the Treatment, Placebo, and No-Treatment group as:

The relevant Risk Ratios for the Treatment and Placebo group can be expressed as:

 , .

We can then formulate the null and alternative Hypothesis for equivalence in the Treatment and Placebo effect as:

Ho: = 1 , Ha: ≠ 1 .

A point estimate for this statistic can be based on:

with variance: Var .

Using the same technique as for calculating 95% for the relative risk (RR), define the 95% CI as:

 to , where:

 , with

SE , and

 , or .

Hence:

 ,

with , which gives

.

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