

means is significant at the 0.05 level, the following rough rule can be used:

$$[4] \quad 2\sqrt{SE_A^2 + SE_B^2} < \text{mean}_B - \text{mean}_A < 2SE_A + 2SE_B$$

If  $SE_A$  and  $SE_B$  are equal, the condition is as follows:

$$[5] \quad 2.83 SE < \text{mean}_B - \text{mean}_A < 4 SE$$

When one SE is 25% larger than the other, the boundaries are 3.2 and 4.5 times the smaller SE. As the lower boundary remains close to 3, Moses<sup>1</sup> was prompted to display group means with error bars that were 1.5 SE around the mean in order to have a "by eye" test of significance between the 2 group means while presenting the information in the 2 groups separately.

This article has been peer reviewed.

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Competing interests: None declared.

Contributors: Both authors independently conceived of the material for this article. Both were involved in writing the article, and both have seen and approved the final version.

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