Corrigendum to “A review of effect sizes and their confidence intervals, Part I: The Cohen’s $d$ family”

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Abstract Two errors have been found in the published article that are corrected here. All the simulations reported were error-free.

Keywords Effect size, standard error, confidence intervals, Cohen’s $d$.

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Two errors have been identified in the published article Goulet-Pelletier and Cousineau (2018). First, the $d_{D_c}$ formula in Table 1, page 244, is erroneous. The correct formula is

$$d_{D_c} = d_D \times \sqrt{2} (1 - r)$$

(the division sign is replaced by a multiplication sign). This error is found within the text, on page 252, right column, first paragraph, with the incorrect sentence

the result of $d_D$ is $\sqrt{2} (1 - r)$ times larger than Cohen’s $d_p$

(the symbol $d_D$ and $d_p$ replaces $S_D$ and $S_p$). The mistake comes from the fact that the factor of conversion is incorrectly applied to the effect size estimate instead of its standard deviation. Therefore, when applied to the Cohen’s $d$ effect size, the factor of conversion is $1/\sqrt{2} (1 - r)$. Hence, the equation (12a), at page 252, should be

$$d_D = d_p / \sqrt{2} (1 - r) \quad (12a)$$

and equation (12b) on page 252 should be

$$d_p = d_D \times \sqrt{2} (1 - r) \quad (12b)$$

Second, regarding the standard error of Cohen’s $d_1$ on page 256, left column, last paragraph, we omitted to mention that the standard error of $d_1$ is obtained by changing all “2/n” in Table 3 by “1/n”. Again, the simulations have been conducted using the correct standard error formula (using 1/n) for $d_1$. Therefore, the results are not affected by this change.

Authors’ note

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References


Citation


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