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Correction: Impact of feedback generation and presentation on self-monitoring behaviors, dietary intake, physical activity, and weight: a systematic review and meta-analysis

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Correction: Int J Behav Nutr Phys Act 21, 3 (2024) https://doi.org/10.1186/s12966-023-01555-6

Following the publication of the original article [1], the authors reported they made an error in using two standard errors instead of standard deviations in their meta-analysis calculations. The authors updated the meta-analysis and thus updated the text and figures accordingly. The errors and corrections are as follows:

Section	Errors	Corrections
Abstract	A random effects meta-analysis indicated that physical activity interventions with feedback provision were more effective than physical activity interventions without feedback (d = 0.73, 95% CI [0.09;1.37])	A random effects meta-analysis indicated that physical activity interventions with feedback provision were more effective than physical activity interventions without feedback (d = 0.29 95% CI [0.16;0.43])

The original article can be found online at https://doi.org/10.1186/s12966-023-01555-6.

*Correspondence: Rebecca A. Krukowski bkrukowski@virginia.edu Data extraction and synthesis

In addition, a meta-analysis was conducted if at least three studies using similar manipulations and reporting on the same outcome provided data on group means and standard deviations that could be used to calculate Cohen's d [31]

Impact of feedback provision

Discussion

The meta-analysis yielded a statisti- The meta-analysis yielded cally significant pooled effect size of Cohen's d = 0.73, 95% CI [0.09; 1.37] (test for overall effect: Z=2.23, 95% CI [0.16;0.43] (test for overp=0.026; see Fig. 2). Heterogeneity was considerable (I2=93.22%, Tau2 =0.88, H2=14.74, df=8, p<0.001

There was a significant effect for feedback (vs. no feedback) on physical activity, but this finding was driven by only half of the studies reporting a significant effect for including feedback (compared to no feedback), out of which two [48, 51] reported to no feedback) very large effects compared to very small to small effects of the other studies

Potential interactions between BCTs may also explain why Fanning et al. and Prestwich et al. [48, 51] (both of which also used goal-setting) reported relatively large effects of feedback on changes in physical activity, while other studies (which did not use goal-setting) produced smaller effects

In addition, a meta-analysis was conducted if at least three studies using similar manipulations and reporting on the same outcome provided data on group means and standard deviations or standard errors that could be used to calculate Cohen's d [31]

a statistically significant pooled effect size of Cohen's d=0.29, all effect: Z = 4.14, p < 0.001; see Fig. 2). Heterogeneity was low $(I^2 = 9.07, Tau^2 = 0.00, H^2 = 1.00,$ df = 9, p = 0.432 [56]

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There are also errors in Figures as follows: Figure 2

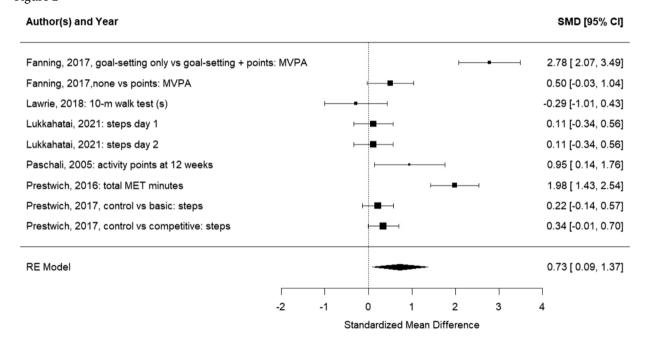
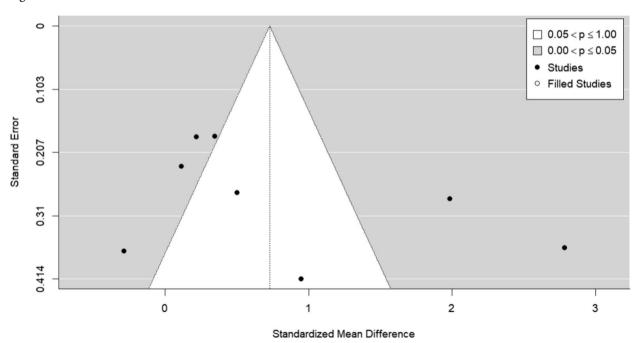


Figure 3



The correct figures are as follows:

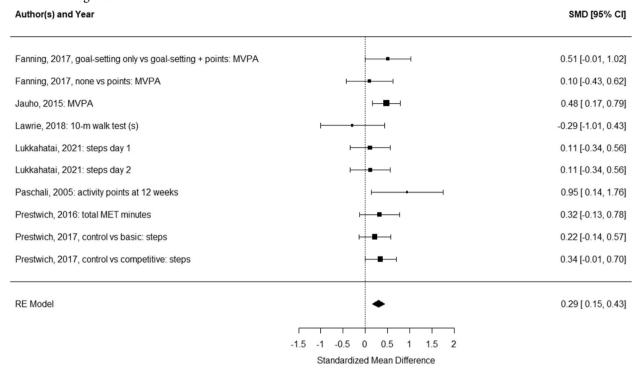


Fig. 2 Forest plot for the random efects meta-analysis comparing the impact of providing feedback vs not providing feedback on physical activity behaviors

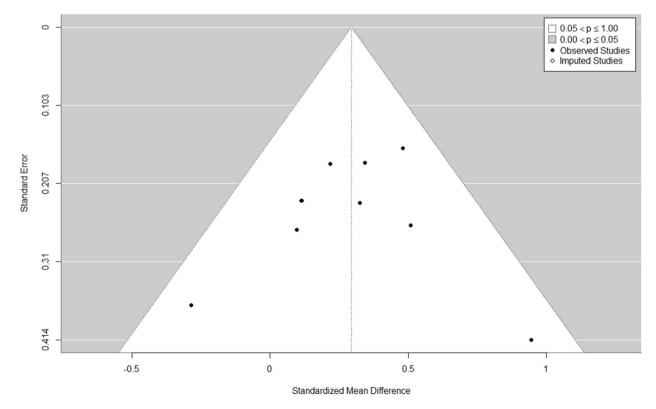


Fig. 3 Funnel plot created using the trim-and-fil method. No studies were filled, indicating that publication bias is unlikely

The original article [1] has been updated.

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Reference

 Krukowski RA, Denton AH, König LM. Impact of feedback generation and presentation on self-monitoring behaviors, dietary intake, physical activity, and weight: a systematic review and meta-analysis. Int J Behav Nutr Phys Act. 2024;21:3. https://doi.org/10.1186/s12966-023-01555-6.