

Article Citation:

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Assuming Small Differences Are Meaningful

Equating Statistical Significance with Real-World Significance

Looking at Extremes

Trusting Coincidence

Getting Causation Backwards

Forgetting to Consider Outside Causes

Deceptive Graphs

Were the reported differences (or effects) small? If so, were major conclusions drawn from these small small effects? Were any effect sizes given?

For the effects that were reported to be statistically significant, do they also have real-world significance? Were any effect sizes reported?

Did the effects rely on extreme members of the population? Or did the effects encompass average members of the population?

Did the effects rely on correlations? If so, did they occur only once -- or were they repeatable?

Did the article claim causality? If so, could the causality go in the opposite direction?

Could the effects be due to another cause -- not the cause claimed in the article?

Were the graphs deceptive? Were the axes labeled? Were the scales compressed to suggest the differences were bigger than they were?

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