Correction to: Effects of average uncertainty and trial-type frequency on choice response time: A hierarchical extension of Hick/Hyman law

J. Toby Mordkoff¹

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In Mordkoff (2017), the intention was to exclude from the analyses all trials that immediately followed an error. This was done as intended for mean response time, the main dependent measure. However, for the errors, instead of excluding trials that followed an error, only these trials were retained. This caused the reported error rates to be very different from (and very much lower than) the actual values. The correct values are provided in the table below (which should be used in place of Table 1 in Mordkoff, 2017). A formal analysis of the appropriate data revealed only one significant finding: a positive correlation across the nine conditions between mean response time and mean error-rate ($r = .77$, $p = .014$), indicating no evidence of a speed-accuracy trade-off. Therefore, this correction to the reported error-rates evokes no changes to the conclusions of the paper.

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✉ J. Toby Mordkoff
jonathan-mordkoff@uiowa.edu

¹ University of Iowa, Iowa City, IA, USA

Table 1 Average uncertainty, trial frequency, surprisal, probability, and summaries of performance for each of the block- and trial-level conditions; Mordkoff, 2017

Block-level condition	Trial-level condition	$h(i)$	$p(i)$	Errors	Mean RT (all trials)	Mean RT (non-reps)
High H ▲ H = 1.555 (mean $p = .347$)	Three per 12	2.000	.250	5.4%	518 ms	532 ms
	Four per 12	1.585	.333	4.7%	514 ms	534 ms
	Five per 12	1.263	.417	3.9%	498 ms	533 ms
Medium H ■ H = 1.459 (mean $p = .389$)	Two per 12	2.585	.167	5.8%	529 ms	535 ms
	Four per 12	1.585	.333	3.8%	512 ms	534 ms
	Six per 12	1.000	.500	3.1%	482 ms	523 ms
Low H ▼ H = 1.281 (mean $p = .458$)	One per 12	3.585	.083	3.7%	521 ms	521 ms
	Four per 12	1.585	.333	4.1%	495 ms	513 ms
	Seven per 12	0.778	.583	3.0%	454 ms	500 ms

RT response time

Reference

Mordkoff, J.T. (2017). Effects of average uncertainty and trial-type frequency on choice response time: A hierarchical extension of Hick/Hyman Law. *Psychonomic Bulletin & Review*, 24, 2012–2020

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