

Motor Selective Stop Signal

Title	Motor Selective Stop Signal
Domain	Self-Regulation
Type	Behavioral
Duration (min)	22
Description	Similar to the Stop Signal task except subjects stop if they were going to make one go response on that trial (e.g., right hand response) but not if they were going to make the other response (e.g., left hand response).
OSF Link	https://osf.io/br2c9/
Adult/Child	adult
Computerized	
Identified	1
Identified Description	The motor selective stop task measures the ability to engage response inhibition, an important aspect of self-regulation, with only certain effectors or response. The motor selective stop-signal task is a variant of the simple stop-signal task in which subjects must stop some of their responses (e.g., right hand responses) but not others (e.g., left hand responses) when a stop signal occurs. Like stimulus selective stopping, this task aims to be more like stopping in “the real world”, in which certain motor actions must be stopped (e.g., stop pressing the accelerator at a red light) but others should proceed (e.g., steering the car and/or conversing with a passenger). Also like stimulus selective stopping, the common finding is that stop-signal reaction time (SSRT), the main dependent measure for response inhibition in stopping tasks, is prolonged in the motor selective stopping task when compared to the more canonical simple stopping task. This prolongation of SSRT is taken as evidence of the cost of engaging inhibition that is selective to specific effectors or responses.
Identified Supporting Documentation	
Identified PMCID, PUBMED ID, or CITATION	Text Citation: De Jong, R., Coles, M. G. H., Logan, G. D. (1995). Strategies and mechanisms in nonselective and selective inhibitory motor control. Journal of Experimental Psychology: Human

Measured	
Measured Description	
Measured Supporting Documentation	
Measured PMCID, PUBMED ID, or CITATION	
Influenced	
Influenced Description	
Influenced Supporting Documentation	
Influenced PMCID, PUBMED ID, or CITATION	
Outcome (Validated vs Invalidated)	
Outcome	
Outcome Description	
Outcome Supporting Documentation	
Outcome PMCID, PUBMED ID, or CITATION	
Owner	Teon Brooks Send email to Teon