



Data Collection Worksheet

Please Note: The Data Collection Worksheet (DCW) is a tool to aid integration of a PhenX protocol into a study. The PhenX DCW is not designed to be a data collection instrument. Investigators will need to decide the best way to collect data for the PhenX protocol in their study. Variables captured in the DCW, along with variable names and unique PhenX variable identifiers, are included in the PhenX Data Dictionary (DD) files.

Summary of the STOP-IT Stop Signal Task

The stop-signal procedure consists of a visually based primary task, followed 25 percent of the time by an auditory-based stop signal. For the primary task, participants differentiate between a square or circle by pressing a specific key as quickly as possible. The visual cues remain on the screen until the participants respond or 1,250 milliseconds (msec) expire. For the stop-signal task, the visual cue is followed, after a variable length of time (initially 250 msec), by a tone that signals to the subject not to respond. If the participant successfully inhibits their response, the stop-signal delay increases by 50 msec. If the participant does not successfully inhibit their response, the stop-signal delay decreases by 50 msec.

STOP-IT includes a practice phase of 32 trials followed by an experimental phase of three blocks of 64 trials (total). The number of practice and experimental phase trials can be adjusted.

Scoring

Results are written to an output file that includes block number, trial number, type of trial, whether the response was correct, reaction time, and stop signal delay. The ANALYZE-IT software calculates the means for a variety of summary variables including an estimation of stop signal reaction time (SSRT), where longer stop signal reaction time indicates greater motor impulsivity.

Protocol source: <https://www.phenxtoolkit.org/protocols/view/530402>