

AN ATTEMPT TO SPEED-UP THE EXAMINATION OF SACCADIC REACTION TIME

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Abstract

One of possible ways to speed-up the prosaccadic latency examination is applying the target walk paradigm. The authors describe the physiological phenomena involved in carrying such paradigms, which may affect latency time and which should be balanced in this kind of task. Thirteen subjects were examined applying the newly designed target-walk paradigm and for comparison the standard prosaccade task. A significant reduction of the saccadic latency ($p < 0.01$) was found on average by 21 ms, which probably resulted from an increased saccadic decision urgency forced by the new test design. Another reason can be different ways of capturing of the subject's attention achieved in this task.

Keywords: saccadic latency, standard prosaccade task, inhibition of saccadic return, directional asymmetry