

Effect of cognitive loading on blink reflex in normal young individuals

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Abstract

An eyelid closure in response to some stimulus is a blink reflex. It is a polysynaptic brainstem reflex elicited by a sudden increase in intensity of stimulation in any modality. Cognitive load is used to refer to the load performing particular task imposes on person's cognitive system. Both eye blinks and eye movements play a significant role in the processing of information by the brain and therefore have a strong influence on cognition. 70 normal young individuals of either gender selected on the basis of selection criteria. Blink reflex of both sides was elicited with the help of bipolar stimulator blink reflex modes of E.M.G. apparatus. Cognitive loading was done with the help of brain games using handsets for 15 seconds. The reflex was elicited again and the recording was done. In this study blink reflex and cognitive load is being compared in terms of intensities rather than latencies and duration done in previous studies. It may be helpful in providing a base and making a treatment protocol on these many diseases like hemifacial spasm, post paralytic facial syndrome, lower facial muscles in diabetic neuropathy, Guillain-Barre Å syndrome, polyneuropathies.

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Biography:

Nancy Kesarwani has completed her bachelors with honours and masters degree in physiotherapy in neurological disorders and conditions from SBS PGI, Dehradun, India as a Gold medalist. She is the director of 'JPM Physiotherapy Centre' established in Kanpur, India and has been practising from past 8 years. After being detected from malignancy, since 2017, as a social responsibility she has been providing free therapy sessions to the underprivileged suffering from cancer and have seen around 500 such patients comprising a total of 4000 sessions till now.