

## عنوان مقاله:

Comparison of the Blink Reflex and RY Recovery Cycle Parameters Between Blepharospasm and Healthy Subjects

مجله علمی پژوهشی دانشگاه علوم پزشکی زنجان, دوره 28, شماره 131 (سال: 1399)

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## خلاصه مقاله:

Background & Objective: The blink reflex recovery cycle indicates the excitability of interneurons in the brainstem. In this study, we aimed to investigate the blink reflex and RY recovery cycle in patients with benign essential blepharospasm (BEB). Materials & Methods: This prospective case-control study compared the blink reflex and RY recovery in 1A BEB patients with 1A age- and gender-matched healthy individuals. The blink reflex was measured in a stimulation duration of o.Y ms, and R1, RY, and RY' were recorded for all subjects. The RY recovery cycle was measured by stimulation of the supraorbital nerve at four interstimulus intervals (ISI) of Yoo, Yoo, Aoo, and Noo ms, with the same intensity as the previous test. The RY recovery index was calculated and compared with the control group via independent sample t-test. Two-tailed P-value less than ο.οΔ was considered statistically significant. Results: The blink reflex (R1, RY, and RY' responses) distal latencies and amplitudes in the BEB group were not significantly different from the control group (P> .. . a). The RY recovery index in all intervals was significantly higher in the BEB group than the control group (P=o.oo). The most significant difference between the BEB and control groups regarding the RY recovery indices was observed at ISIs of Ψοο and Yοο ms (Λο. Ψ۶ vs. 19.99 and Y۵. Yο vs. 17.ΔΥ, respectively). There was a negative correlation between the patient's age at the onset of disease and the RY recovery index; however, it was not statistically significant (P>...a). Conclusion: Our findings showed that the RY recovery reflex was

higher in BEB patients than the normal population. Therefore, it can be a helpful index for differentiating BEB cases .from psychogenic or malingering ones

**کلمات کلیدی:** Blepharospasm, Blink reflex, R۲ recovery cycle

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