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Observation Study

Diagnostic value of orbicularis oculi muscle electromyography in functional epiphora

Lu H *et al.* EMG in functional epiphora

Hui Lu, Pei-Dong Liu , Xue Yao, Zuo-Fen Wang, Li-Fen Gao, Shao-Peng Wang

Abstract

BACKGROUND:

Functional epiphora is a kind of clinical condition which is not due to the anatomic defect. Most studies agree that it involves actions of the orbicularis oculi muscle, particularly of its deeper segment (Horner's muscle), but the exact mechanism is not clear.

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Electromyographic (EMG) activity of **orbicularis oculi** and levator palpebrae **muscles** was recorded to study the origin of involuntary eyelid closure in 33 patients. The evoked blink reflex in all patients and in 23 controls was also studied.

Cited by: 56 **Author:** M. Aramideh, J. L. A. Eekhof, L. J. Bour, J...

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Feb 18, 2016 · The **diagnosis of functional NLO** is often based on a history of **epiphora** and patency to nasolacrimal syringing. **Functional NLO** is thought to be caused by a reduced contribution of the **orbicularis oculi action** and **eyelid blinking** to the **lacrimal pump mechanism**—.

Cited by: 5 **Author:** Nyu-Xia Tong, Ying-Ying Zhao, Xiu-Ming Jin

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Among the measurements of **Orbicularis Oculi** collected by **NCS test**, the **amplitude value** was quantified as the ratio of the affected side to the unaffected side (%). 2.4 Statistical analysis Statistical analysis was performed using SPSS 18.0 for Windows (SPSS Co, USA). **Values** were presented as mean ± standard deviation (SD).

Author: Hye-Min Ryu, Seung-Jeong Lee, Eun-... **Publish Year:** 2018

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