

Doc Ophthalmol. Abstracts of the 56th Annual Symposium of the International Society for Clinical Electrophysiology of Vision

(ISCEV, Reims 18-13 June 2018)

6.06 Comparing corneal and skin electrode recording in electroretinography

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Purpose: Recording the ERG with corneal electrodes remains challenging for both patients and clinical staff, especially in children. Skin electrodes have been developed in order to increase the patient's comfort during ERG recording. However, corneal electrode recording of the ERG remains the gold standard in many centers. The present study aimed to compare qualitatively and quantitatively the results obtained with the two types of electrodes.

Methods: A total of 12 consecutive paediatric patients treated with vigabatrin were included in the study. According to the age of the patient, two different stimulation methods were used: either a portable handheld device or a ganzfeld stimulator. The recordings were first performed with skin electrodes, then the corneal electrodes were placed on the eye, and a second set of recordings was done. The highest peak to trough amplitude of the LA 3.0 flicker ERG was considered for the comparison.