

## USE OF EYE-TRACKER TO ASSESS OCULOMOTOR MOVEMENTS IN ELDERLY PEOPLE

**Background.** The analysed issue holds significant importance because eye-trackers (E-T) are increasingly present in clinical practice for non-invasive testing.

**Aim.** To conduct a literature search focusing on the use of E-T in elderly patients and/or patients with age-related diseases that impair speech.

**Methods.** We searched for articles published after 2014 in Pub Med, combining the following keywords in title and abstract: "eye tracker", "ocular movements", "fixations", "saccades", "elder". A total of 10 articles were obtained in this review.

**Results.** The use of E-T in elderly people or people with age-related illnesses that make speech difficult, allows diagnostic eye tests to be carried out without the need for the patient to speak. Furthermore, in the case of oculomotor studies, it allows objective evaluation of movements that are almost imperceptible subjectively. The use of E-T to analyse oculomotor activity helps to detect eye diseases and neurodegenerative pathologies in their early stages.

**Conclusions.** The use of Eye-Trackers can be very effective in the evaluation of oculomotor skills in elderly or speech impaired patients, as it is a test that can be performed objectively, without the patient speaking, and only requires them to observe the different stimuli shown.

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