

The Relation between Refractive Error and Learning Achievement Among Elementary Students at Surakarta

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Abstract

Background:

Refractive error is eye disorders in processing a vision due to an imbalance of optic eye, resulting in a blurry shadow. Nowadays, refractive error is one of the most prevalent eye disorders, especially in children. This health problem is faced seriously by the world, especially developing countries such Indonesia.

Vision is the main information pathway and important factor in the learning process. Vision ability develops optimally until 9 years old, so delay in correction of refraction can lead reduction ability to absorb learning material. This condition will have impact on learning achievement.

Because there are still contradictions from several studies that have been conducted and absence of similar research in Surakarta city, further research is needed.

Research methods :

Design of this research is observational analytic with a cross-sectional approach and conducted in one of the primary schools in Surakarta City with total of 599 students. Sampling by total sampling technique that meets the inclusion and exclusion criteria.

Results :

Myopia simplex is refractive error found mostly in the right eye, 42 students (56.8%) and left eye in 46 students (62.2%). Other types that suffered quite a lot were astigmatism myopia simplex in right eye as many as 16 students (21.6%) and left eye 15 students (20.2%).



Biography:

Muhammad Ilham Malda, was born on July 11th 1998 at Bangkinang, Riau. I entered of Sebelas Maret University Faculty of Medical in 2016, and now in 3rd year. I entered Medical of Sebelas Maret University which one of the best University in Indonesia in 2016. I am on 3rd year of Medical Student and interest with Ophthalmology especially Pediatric Ophthalmology.

Speaker Publications:

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2. Fauziah MM, Hidayat M. Hubungan Lama Aktivitas Membaca dengan Derajat Miopia pada Mahasiswa Pendidikan Dokter FK Unand Angkatan 2010. J Kesehat Andalas. 2014;3(3):429-434.
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