

Abstract:

Purpose: To determine prevalence of Amblyopia, Relevant enthiology and risk factors of amblyopia in guidance school of Ardabil city in 1383.

Definition: Amblyopia is reduced visual acuity without primary structural abnormality of the visual path way, caused by an optical, physical or ocular alignment defect during early child hood or in general improper stimulation during the sensitive period of visual development.in the most country and in Iran, Amblyopia is the major visual problem that have a important part in reduce of visual acuity.

Materials and methods: This study is descriptive and cross-sectional study of 4548 guidance school students in Ardabil city. 913 persons were Female and 3635 persons was male. This students primarily was screened by optometrists and with used of snelen chart and informations was registered in questionaris. Then this results analysed by SPSS and with chi-square (K2) Method.

Results: From 4548 persons, 11.4% (520 persons) had refractive errors, 2.63% (120 persons) had amblyopia and 0.9% (43 persons) were with strabismic defects.

Most common cause of Amblyopia is Anisometropia with 59% of whole cause of Amblyopia and then strabismic amblyopia with 19.2%, Iso ametropic

amblyopia with 15%, Miridional amblyopia with 5% and Nystagmic amblyopia with 1.8 percent of whole cause of amblyopia, respectively. Most common ethiology of strabismic amblyopia is isotropia with 69.5 percent of strabismic group of amblyopia. This study shows the meaning relation and association between amblyopia and Familiar history of amblyopia, also between kinds and amounts of refractive defects and amblyopia. The most amount of refractive amblyopia is relevant to over 3 Diopter hyperopia (22.5% of refractive amblyopia). Hyperopia in males is more and Astigmatism is less than females.

From 4548 students, 18 persons had a history of previous treatment. 44.5% of this students suffer from amblyopia now.

Descussion: It is considered that the prevalance of amblyopia in Ardabil is agreeable with other countries and with results in Iran too. Refractive amblyopia is more rather than other areas. The reasons of this matter due to unconsciousness to necessity of using of glasses and low socio- economic conditions of people. Finally, quality of treatment considered to be low.

Key words: Amblyopia, Ardabil, refractive errors, strabismus, Anisometropia, Iso ametropia, Miridional, nystagmous.