



ORIGINAL RESEARCH PAPER

Ophthalmology

STRABISMUS – ITS EFFECT ON AMBLYOPIA

KEY WORDS:

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ABSTRACT

AIM: - Aim of this study is to find out amblyopia associated due to Strabismus
METHOD: - A cross section and observational study was executed at tertiary eye hospital. Out of all the subjects those who were having strabismus were included for the study, out of which amblyopic subjects were included for further analysis
RESULT: - 112 subjects were included in this study out of which 43 subjects (38.4%) were females and 69 subjects (61.6%) were male. And out of 112 subjects data of 19 subjects were having amblyopia and it was observed that amblyopia is associated with increased angle of deviation.
CONCLUSION: - It was concluded from the study that amblyopia is associated with increasing angle of deviation.

INTRODUCTION

One of the most common cognitive disabilities of binocular single vision is strabismus. Ocular misalignment are present in strabismic subjects in which eyes are not aligned properly and because of such misalignment objects in focus are not placed on fovea of the deviating eye it might place on extra foveal region which causes degradation visual acuity and leads to amblyopia(lazy eye) as well as eccentric fixation.. As image is not focused on fovea which leads to poor vision develops in deviating eye because of image shifting in parafoveal part of retina which leads to amblyopia in which even after giving best correction there is difference of vision of two lines between two eyes.

METHODOLOGY

To conduct this study, observational and cross section study was performed at tertiary eye hospital. Thorough comprehensive eye examination was performed of strabismic subjects following objective refraction and fundus examination. Visual acuity was measured using Snellen and LOGMar visual acuity chart. After giving best corrected vision there is difference of two lines in vision between two eyes in amblyopic subjects were included in this part.

RESULT

In this study data of 112 subjects were collected. To analyse amblyopic subjects due to strabismus following subjects were used and table -1 and graph -1 shows subjects detected with amblyopia. And it was founded that 47.37% amblyopic subjects were having esotropia and similarly 47.37% amblyopic subjects were having exotropia and rest were having refractive amblyopia

DISCUSSION

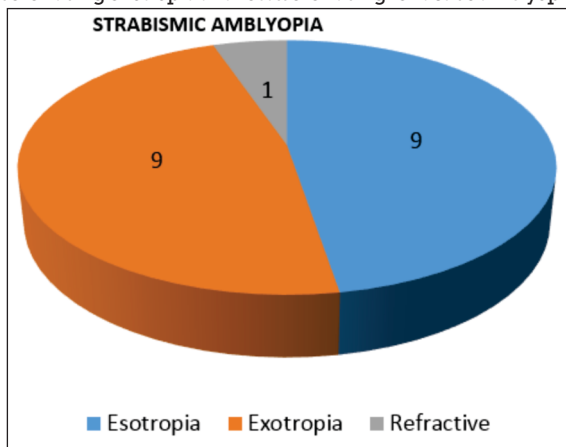
From the present study it is surmise that visual acuity become worse with increasing angle of deviation which develops amblyopia. This is due to lack of fixation from fovea as extra foveal region of retina takes fixation of squinting eye leads to poor visual acuity. Whereas with increasing angle of deviation extra foveal region of retina come in action leads to reduce vision. So it is observed for the study strabismus causes reduce visual acuity and develops amblyopia with increasing angle of deviation.

CONCLUSION

This study concludes that strabismus causes poor visual acuity and amblyopia. And amblyopia were affected more with increasing angle of deviation.

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Type	Frequency	Percentage (%)
Esotropic amblyopia	9	47.37
Exotropic amblyopia	9	47.37
Refractive amblyopia	1	5.26
Total	19	100