Near Work Activities Can Influence Vision Power

Ashraful Kabir, M.

Department of Biology, Saidpur Cantonment Public College, Nilphamari, Bangladesh

*Correspondence to: Dr. Ashraful Kabir, M., Department of Biology, Saidpur Cantonment Public College, Nilphamari, Bangladesh.

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Abstract

A study was conducted on 60 students (30 male and 30 female) in a Cantonment School of Bangladesh for observing their vision status. Result showed that out of 60 students myopia was the highest in male 83.33% and in female this was 53.33%. Anisometropia was the highest in female 36.67% and in male 16.67%. Hyperopia, amblyopia, and antimetropia were not found in male but in female. Maximum male students were affected vision problems at the age 16 years whereas in female students this was 13 years. Left eye problems were same in both students (13.33%) but right eye problems were higher in female (23.33%) than the male students (3.33%). Female students’ vision problems were related with their family (80%) whereas in male students this was 66.67%. Actually, this was not genetical but it is sure that parents’ unhealthy food habit influenced students’ food habit at all. Close-up prolongs learning (from seat bench to white board, computer, smart phone, book reading etc) were the real causes of vision problems of the students. Myopic male students (83.33%) were showed higher vision problems than the female students because of their continuous use of smart phone.

Introduction

Now-a-days, the vision problems are increasing day by day for the satellite world. Its great use is enhancing the vision power in Bangladeshi students too. Eye is a vital organ of human body. With both eyes we see
everything. Now for the complex and vast education system maximum students of Bangladesh are very busy for their lesson. They are not habituated to use sunlight in the field. Adequate playgrounds are not available in most educational institution. Exam after exam they are performing day by day. For communicating with their parents, friends, relatives, and colleagues they are using smart phone also. In all cases of their activities the distances are short. They are practiced for using same distances so that their vision is more or less fixed for seeing any near object. But when they are looking forward feeling blur. Countless use of internet and smart phone are more vulnerable on their eye related problems. Video game is one of the points in this regard. The objective of this study is to find out the common vision problems of the students with their remedies.

**Students and Questionnaire Method**

Questionnaire type information was collected from the students. They were well known about their eye related problems. They gave all information about their birth also. Collected information were analyzed in excel program in order to observe the true causes of the vision problems of the students.

**Eye Power and Life-Style**

Male students were highly vulnerable with their vision problems. Myopia and myopic anisometropia were the highest for the close-up reading and smart phone using of the students. In addition, food habit of the students was not good. Mostly they took very few vegetables and fruits but in this work these findings were not related with such vision problems (Figure 1).

![Figure 1: Comparative study on various eye related features of male-female students](image)

Children who have myopia or hyperopia are more likely to have astigmatism [1]. Family history is a risk factor for some vision disorders such as refractive error as is premature birth [2]. A number of neurodevelopmental
disorders (eg. cerebral palsy, down syndrome, autism spectrum disorders, being impairment and speech delay) also are associated with higher rates of vision problems [3]. Children of women who smoked cigarettes during pregnancy have higher rates of strabismus, hyperopia, and astigmatism [1,2,4,5]. National pediatric preventive care guidelines include vision screening by pediatricians yearly at ages 3 through 6 years, and then at regular intervals through late adolescence [6,7]. There is evidence to suggest a genetic influence in the development of refractive errors (in particular myopia) [8,9], it is now generally accepted that environmental factors, such as near work [10,11,12] and outdoor activity [13] also play significant roles. When near work is performed the eyes typically converge and accommodate to maintain clear, single binocular vision of near targets. Potential mechanical pathways are associated with convergence and accommodation which causes asymmetric myopia development [14].

Conclusions

Normally, dark green leafy vegetables are good for eye vision. Give special emphasis for taking adequate vegetables and fruits. During pregnancy, mother should take more vegetables and fruits for the coming issue. Close-up continuous reading and smart phone using should be prohibited. Students should take interval after each ten minutes. They will enjoy in the sun and take part various outdoor activities. Need to practice for seeing in various distances from the nature. Students should take part eye related yoga with relaxation process regular for relieving such vision problems.

Bibliography


