

Wearing Glasses in Medical Students

Suliman Al-Aqeel	Ahmed Al-Abdulsalam	Saad Al-Huwaimel	Mohammed Al-jarie	Abdulrahman Al-Aql	Abdulaziz A Al-Haqbani
Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine	Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine	Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine	Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine	Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine	Kingdom of Saudi Arabia Al-Imam Mohammad Ibn Saud Islamic University College of Medicine

Abstract

Our article discusses the effect of wearing (glasses, contact lenses) and its effect on a student's life, mainly in Al-Imam University medical students of whom have myopia and its effect on their academic life. Our objectives were to determine causes of vision problems in Al-Imam medical students and to verify the relationship between myopia/hyperopia and student performance. Materials and Methods Design : a questionnaire study Subjects or participants : Third-year Al-Imam medical students who are myopic or hyperopic (wearing glasses) and the type of sampling is a non-randomized sampling. Instruments: a questionnaires papers. The type of study we are doing in our research is a descriptive study, which is a cross-sectional study because we are studying the relationship between the diseases which are myopia and hyperopia with the medical students IQ. We took a group of 50 male students who wear glasses in Al-Imam University and used an SPSS program to complete our survey.

Key words: Imam - university – medical – students – glasses – contact lenses – myopia – hyperopia – Saudi Arabia – Riyadh

INTRODUCTION

Researchers found that refractive error is a serious problem that happens in the world, and they also had concluded by being a myopic person and having higher IQ intelligent than others. In 1958 two researchers (Nadell and Hirsch) reported that children in America with myopia aged from 14 and 18 have higher intelligent IQ and similar relationship has been observed in other countries. controversial studies were observed in people who have hyperopia the intelligent IQ is lower than other people. Hypotheses concerning the relationship between intelligence test scores and refractive errors were suggested as the following:

1. Hypothesis myopia is an over-development of the eye.

2. Intelligence test scores may be influenced by the amount of reading which a student does.
3. The intelligence rather than refraction might determine the amount of reading done. The more intelligent student may read more, and thus become more myopic.
4. Hyperopia student, maintaining accommodation with difficulty is certainly at a disadvantage, just as the myopic student, requiring little or no accommodation.

OBJECTIVES

1. Determine causes of vision problems in Al-Imam medical students.
2. Verify the relationship between myopia and student performance.

3. Describe hereditary myopia relation with IQ and student performance.
4. Describe hyperopia relation with IQ and student performance.

BACKGROUND

Myopia: is the term used to define short-sightedness. Light from a distant object forms an image before it reaches the retina. This could be because the eye is too long, or the cornea or crystalline lens is too strong.

A myopic person has clear vision when looking at objects close to them, but distant objects will appear blurred.

Hyperopia: means long sight and is where the image of a nearby object is formed behind the retina. This could be because the eye is too short, or the cornea or crystalline lens does not refract the light enough.

People with hyperopia may have blurred vision when looking at objects close to them.

MATERIAL AND METHODS

Sample size (50).

Sample unit (third year medical students in Al-Imam University).

Data collection design (sample survey).

Data collection tools (questioner).

Data collection team (third year Imam medical students).

Software used (SPSS).

RESULTS

The most GPA gathered from the participants was (4 to 4.49) with 40%, then (4.5 to 5) with 22%, (3.5 to 3.99) with 20%, (3 to 3.49) with 10% and the least was (below 3) with 8%.

DISCUSSION

The study shows clearly the increase in the GPA among the students

who wear glasses with 62% of them have a GPA above 4 | (4 to 4.49) with 40%, then (4.5 to 5) with 22% |.

The cause of this elevation is not clear, but it may be because they spend more time reading textbook which cause the myopic status in them (myopic student represent 80% of the student in our study), but we have to do more studies in the causes of the increasing GPA in those students. as Nadell and Hirsch reported that children in America with myopia aged from 14 and 18 have higher intelligent IQ and similar relationship has been observed in other countries we can say that our study resembles the result of Nadell and Hirsch study especially that most of our students were myopic.

CONCLUSION

Our study suggests that people with myopia and wearing glasses, they more likely to have a high GPA.

RECOMMENDATION

We recommend researchers who have an interest to do more studies about the relationship of IQ and myopia or hyperopia because until now there is no clear cause witch gave those people their high academic performance.

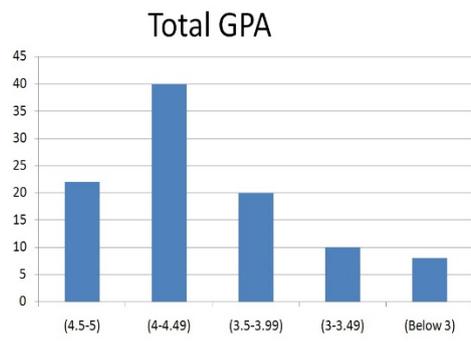
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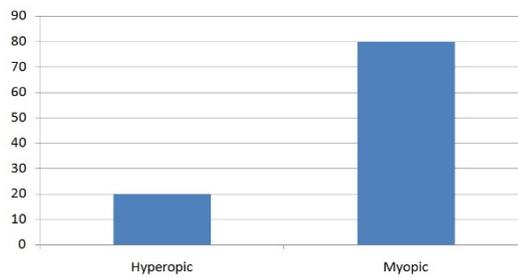
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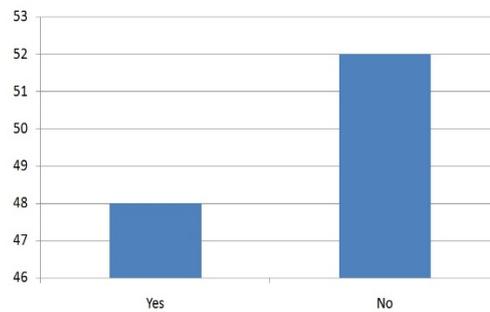
Among the participants the most common cause of wearing the glasses was Myopia with 80% then Hyperopia 20%.

Cause of wearing glasses



48% of the students had a history of headache while wearing the glasses and 52% didn't.

Headache



75% of the students who participated in our study have a family member with the same problem and the rest 25 % didn't.

Is there other family member has the same problem ?

