Glaucoma is a neuropathic disorder that causes structural and functional damage to the optic nerve head and leads to visual field loss. It is the leading cause of irreversible blindness and the second leading cause of blindness after cataract. It is the cause of blindness in 2.5 million people worldwide (6.6% of the world’s blind population). Despite the serious implications of glaucoma, there is a limited level of public awareness regarding it. Nearly 90% of Iranian patients with glaucoma are unaware of their disease, reflecting the low level of public awareness. Raising public awareness and educating people, particularly glaucoma patients, plays an important role in glaucoma prevention and treatment.

The present study was designed and conducted to evaluate the effectiveness of educational seminars in increasing awareness of glaucoma. This quasi-experimental study with a pre-test/post-test design was conducted on 122 participants who were asked to attend a seminar on glaucoma. These participants were informed about the seminar by advertisements in clinics and in public areas of the city of Semnan, Iran. Before the session, the participants’ awareness of glaucoma was evaluated using a researcher made questionnaire consisting of 12 questions with the following titles: A) why is glaucoma called the silent thief of sight, B) definition of glaucoma, C) causes of increasing glaucoma prevalence, D) causes of glaucoma, E) symptoms of glaucoma, F) high-risk groups, G) normal intraocular pressure (IOP), H) diagnostic tests for glaucoma, I) glaucoma prevention methods, J) who plays the main role in treatment, K) therapeutic recommendations, and L) surgical benefits. After initial data collection, participants attended a 4-h educational session about glaucoma, which comprised speeches by two ophthalmologists. After this session, participant awareness was re-measured using the same questionnaire. If a participant was illiterate, questions were asked orally and their responses were written down. Data were analyzed using IBM SPSS Statistics software.

One hundred eighty people participated in this study. Of these, 122 subjects (50 men, 72 women) completed the pre- and post-tests. After attending the one-day seminar, a significantly greater number of participants responded correctly to seven questions [Table 1]. The analysis of results showed that before the seminar, 52.8% of all answers were correct, but after the session, this rate significantly increased to 69% ($P < 0.05$). Participants’ responses to other questions showed a non-significant ($P > 0.05$) increase in awareness of these subjects after attending the seminar. The examination of correct and incorrect responses of participants after the seminar showed that the questions about therapeutic recommendations and glaucoma prevention methods had the lowest (26%) and highest rates (93%) of correct responses, respectively.

Thirty-eight participants had a family history of glaucoma. Statistical analysis showed that there was no significant difference in the awareness level of these participants relative to the others [Table 2].
The results of this study demonstrate the limited knowledge and awareness of glaucoma in a selected Iranian population, and the significant effectiveness of education as a quick and efficient means of raising public awareness about this disease. To achieve better efficacy, correct educational materials should be provided by ophthalmologists.

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Conflicts of Interest
There are no conflicts of interest.

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