Introduction

It is estimated that there are about 180 million people in the world who are blind, of who 20 million live in India.\(^1\) The importance of corneal disease as a major cause of blindness in the world today remains second only to cataract.\(^2\) The prevalence of traditional causes of corneal blindness, such as trachoma, onchocerciasis, and leprosy, has reduced, so ocular trauma and corneal ulcer are more important.\(^3\)

Most of the corneally blind are blind from their childhood and, therefore, cannot be educated and become non-earning members of the family. If they are not treated and cured, they remain a burden to their family and the country for the rest of their lives.\(^4\)

Corneal transplantation is the most successful among all forms of organ transplant procedures. Organ donation is a sensitive issue all over the world.\(^5\) Ironically, the impact of a shortage of donor eyes is most glaring in the developing conservative Asian countries like India, where

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**Abstract**

**Background:** Corneal transplantation is the most successful among all forms of organ transplant procedures. Organ donation is a sensitive issue all over the world. Ironically, the impact of a shortage of donor eyes is most glaring in the developing conservative Asian countries like India. **Aim:** The aim of this study was to assess the awareness and perception of college students regarding eye donation and to associate the relationship between the level of awareness and perception with selected socio-demographic variables. **Materials and Methods:** The researcher adopted a descriptive design for the study. Sixty college students studying in Sri Krishna Degree and PU College, Bengaluru, were selected, and data were collected using socio-demographic data and knowledge questionnaire. The data were analyzed in terms of the objectives of the study using descriptive statistics. **Results:** The overall mean score of awareness regarding eye donation found to be 74.1% and an overall mean score of perception regarding eye donation was found to be 72.01% among the respondents. The mean score was highest (74.6%) in respondents whose mothers were postgraduates than others. The result established non-significant association (\(t = 0.54\) NS at \(P > 0.05\) level) between age and knowledge aspect. The mean score was highest (74–82%) in respondents whose mothers were unemployed than others. The result established non-significant association (\(t = 0.51\) NS at \(P > 0.05\) level) between age and knowledge aspect. **Conclusion:** The college students were having adequate awareness and perception regarding eye donation, and there was a significant association between the levels of awareness and perception regarding eye donation with socio-demographic variables like a place of stay.

**Key words:** Awareness, eye donation, perception, socio-demographic variables

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**Address for correspondence:** Prof. M. Jasline, Department of Medical-Surgical Nursing, Teerthanker Mahaveer College of Nursing, Teerthanker Mahaveer University, Moradabad, Uttra Pradesh, India. E-mail: jaslinejohn@gmail.com

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corneal diseases account for a large proportion of curable blindness. The collection of donor eyes is therefore a priority in any organized effort to alleviate the needless scourge of blindness. There are several impediments to the collection of donor eyes. An understanding of strategies that may be useful in overcoming these constrains is helpful.

Recently, the factors affecting cornea procurement and attitude of the public regarding eye donation in the developed world have received attention but not much in the developing world. The level of public education regarding eye donation has to be raised as an important first step to increase cornea procurement. Many studies have assessed the awareness and perception in different parts of the country. The study regarding awareness regarding eye donation is relatively less in this region. With this in mind, the present study was done to assess the awareness and perception regarding eye donation among students studying in selected colleges in Bengaluru.

Background and objectives

The present study was an attempt to assess the awareness and perception of college students (18–25 years) regarding eye donation in the Sri Krishna PU and Degree College. The objectives of this study were as follows:

1. To assess the awareness and perception of college students regarding eye donation
2. To associate the relationship between the level of awareness and perception with selected socio-demographic variables.

Materials and Methods

The researcher adopted a descriptive design for the study. Sixty college students studying in Sri Krishna Degree and PU College, Bengaluru, were selected, and data were collected using socio-demographic data and knowledge questionnaire. The data were analyzed in terms of the objectives of the study using descriptive statistics such as mean and standard deviation and inferential statistics on the basis of objectives and the hypothesis of the study.

Results

Findings related to awareness and perception regarding eye donation

The overall mean score of awareness regarding eye donation was found to be 74.16% and an overall mean score of perception regarding eye donation was found to be 72.01% among the respondents. Table 1 shows the salient findings from the background information.

Findings related to the association between awareness and perception regarding eye donation with demographic variables

The mean score was highest (73.68%) in male respondents than females. The result established non-significant association (t = 0.61 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (76.26%) in respondents in the age group of 18 below years. The result established non-significant association (t = 0.86 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (75.62%) in Hindus than the Muslims and Christians. The result established non-significant association (t = 1.4 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest...
highest (44.53%) in respondents from extended family than those from nuclear and joint family. The result established non-significant association (t = 0.71 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (74.68%) in respondents with family income Rs. 8000 and above. The result established non-significant association (t = 0.49 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (74.14%) in respondents who were staying with their parents (home) than those staying in a hostel. The result established a significant association (t = 2.67 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (75%) in respondents whose father has higher secondary education than others. The result established non-significant association (t = 0.67 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (74.6%) in respondents whose mothers were postgraduates than others. The result established non-significant association (t = 0.54 NS at P > 0.05 level) between age and knowledge aspect.

The mean score was highest (73.08%) in respondents whose fathers were businessmen than others. The result established non-significant association (t = 0.79 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (74-82%) in respondents whose mothers were unemployed than others, as shown in Table 1. The result established non-significant association (t = 0.51 NS at P > 0.05 level) between age and knowledge aspect.

The result of the study showed a statistically significant association between the level of awareness and perception for age group as well. The result established a significant association (t = 2.67 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (75%) in respondents whose father has higher secondary education than others. The result established non-significant association (t = 0.67 NS at P > 0.05 level) between age and knowledge aspect. The mean score was highest (74.6%) in respondents whose mothers were postgraduates than others. The result established non-significant association (t = 0.54 NS at P > 0.05 level) between age and knowledge aspect.

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Discussion

In our study, 72.01% participants knew about eye donation which is dissimilar to studies conducted by Vijayalakshmi et al., in Bengaluru, where 93.8% knew, Singh et al. in an urban slum in New Delhi, where 65.72% knew, and Krishnaiah et al. in rural Andhra Pradesh, where 28% knew.[12-14] This difference is may be due to more of the rural population.

India has become the world’s largest number of blind people. Statistics on eye donation here paint a rather dark picture for persons blind from corneal diseases.[15] Of the 37 million people across the globe who are blind, over 15 million are from India. Although the large proportion of corneal blindness adds to the social and economic burden every year, eye banking in India is at a nascent stage. However, 75% of the cases are avoidable blindness, and this could be due to the country’s acute shortage of transplant surgeons and donated eyes for the treatment of corneal blindness. While India needs 2.5 lakh donated eyes every year, the country’s 109 eye bank manages to collect a maximum of just 25000 eyes, and 30% of which cannot be used. Corneal transplantation is the most successful among all organ transplant procedures. However, throughout the developing world, there is a shortage of corneas. Therefore, to increase eye donation, it is essential to enhance awareness among potential donors and dispel their misconceptions.[15]

The awareness regarding eye donation should be increased so that the public’s attitude would be more favorable to facilitate an increase in the number of corneas available for transplantation. The statistics on eye donation in India shows that there is a considerable and constantly growing backlog of corneal transplantation. In the present study, the investigators identified that both the rural and urban higher secondary school students had sever lack of knowledge regarding eye donation. The following studies support the findings of the present study: Krishnaiah et al. conducted a study on awareness of eye donation in the rural population of Indian 7775 subjects of all ages respective of the rural population of Andhra Pradesh, the result shows that out of 30.7% only 0.1% had pledged their eyes, that is, one-third of those aware of eye donation have not pledged their eyes an addition 50.6% needed more information to decide, it means only about one fifth of those aware of eye donation that has pledged their eyes.[14] Another study conducted by Biswas et al. on awareness of eye health care and eye donation among secondary level school students of North Kolkata concluded that media publicity to increase awareness of eye donation and eye health care is not enough. Strategies have to be developed to educate the students so that they can act as motivators for enhancing eye donation and increasing eye health-care awareness in the community.[16]

The following study contradicts the findings of the present study: A cross-sectional study done by Simon George and Prashob Mohan on awareness, knowledge, and attitude to eye donation among the residents of Thiruvananthapuram, Kerala State, India, concluded that although Thiruvananthapuram has a high level of awareness about eye donation, a significant number of people is unwilling to donate their eyes mainly due to their misconceptions.[17] It is expected that the number of individuals with unilateral corneal blindness in India will increase to 10.6 million by 2020.[18] Hence, as long as there is a properly documented will of the donor and written consent of relatives, no law prevents the removal of donor eyes for transplantation. The statistics on eye donation in India shows that there is a considerable and constantly growing backlog of corneal transplantation. In the present study, the investigators identified that both the rural and urban higher secondary school students had sever lack of knowledge regarding eye donation. The following studies support the findings of the present study: Krishnaiah et al. conducted a study on awareness of eye donation in the rural population of Indian 7775 subjects of all ages respective of the rural population of Andhra Pradesh, the result shows that out of 30.7% only 0.1% had pledged their eyes, that is, one-third of those aware of eye donation have not pledged their eyes an addition 50.6% needed more information to decide, it means only about one fifth of those aware of eye donation that has pledged their eyes.[14] Another study conducted by Biswas et al. on awareness of eye health care and eye donation among secondary level school students of North Kolkata concluded that media publicity to increase awareness of eye donation and eye health care is not enough. Strategies have to be developed to educate the students so that they can act as motivators for enhancing eye donation and increasing eye health-care awareness in the community.[16]

Conclusion

The results of the study revealed that the college students were having adequate awareness and perception regarding eye donation and there was a significant association between the levels of awareness and perception regarding eye donation with socio-demographic variables like a place of stay.
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