

## Short Research Article

### To assess the knowledge regarding glaucoma among general population.

#### Abstract

**Background:-** The level of knowledge of glaucoma and their possible determinants in a group of people diagnosed with glaucoma and in a population based group without glaucoma. Studies done on the prevalence of glaucoma have reported a high proportion of undiagnosed patients. Late diagnosis is related to increased risk of glaucoma associated with visual disability. Lack of awareness and non-availability of appropriate screening procedures are among the major reasons for non-diagnosis or late diagnosis of glaucoma. The present study has been undertaken to evaluate the level of awareness about glaucoma among the general population. **Objective:-** 1. To assess the knowledge regarding glaucoma among general population. 2.To find an association between the level of knowledge with selected socio demographic variables. **Material and method:-** The study was conducted in selected hospital. Descriptive research approach was used in this study. 100 general population were selected for the study. Structured knowledge questionnaire were used to collect the data. **Result:-** The above table shows that 1 (1%) had poor level of knowledge, 27(27%) were having average level of knowledge. 57 (57%) were having good level of knowledge, 15 (15%) were having very good knowledge, score and 0(0%) were having excellent level of knowledge . The minimum score was 3 and the maximum score was 12 the mean score for the test was  $7.61 \pm 1.814$  and mean percentage of knowledge was 50.73. **Key words:-**knowledge; glaucoma among general population.

## INTRODUCTION

“prevention is better than cure”

Glaucoma is the second leading cause of blindness after cataract and the leading cause of irreversible blindness in the world.<sup>1</sup> Diagnosis is often made at the late stage of the condition when much damage to the eye has already occurred. Raising the public level of awareness through public education for periodic eye checks is one of the effective measures for its early detection and management.<sup>1</sup>

Early diagnosis and treatment is very important for glaucoma which is a progressive optic neuropathy. Ten percent of glaucoma patients end up with blindness throughout their life, so glaucoma is the second leading cause of blindness and the leading cause of irreversible blindness worldwide.<sup>2-3</sup>

Glaucoma screening programs comprise regular eye exams for healthy people in order to catch the disease earlier at asymptomatic stage, evaluation of the people at risk of glaucoma and management of the treatment and follow up.<sup>4</sup>

The success of the glaucoma screening programs is based on the knowledge of the glaucoma among the general population and glaucoma patients. The knowledge about glaucoma influence the patients in terms of understanding the importance of regular eye exam, utilization of health care services and showing a better compliance for treatment.<sup>5-6</sup>

### **Material and Methods**

- A exploratory descriptive study design. The study sample consists of 100 general population. Purposive sampling technique was used to select the samples. The study was conducted at Sawangi (Meghe) Wardha district. The tool was developed after intensive review of literature, consultation and discussion with experts and also with the personal experience of the researcher. The final tool consisted of two parts. Part 1: Demographic data such as age, gender, education, occupation, information.. Part 2: the knowledge regarding glaucoma among general population. Instruments intended to be used Self Structured knowledge questionnaire. Criteria for selection of Sample Inclusion Criteria are 1.Those who are above age of 18 year. 2. Available at the time of data collection period. 3. People may known English, Marathi, hindi. Exclusion criteria are 1. Those who are medical and paramedical professional . 2. Previously participate expose to similar research study.

### **Results**

Section I: Demographic characteristics The above Table: 1 shows that This table show that majority of the sample 100% are in Age wise distribution of sample shows that 100% of them were belonging to the age of 18-24 years, 45% were in the age of 25-34 years,16 % were in the age group of 35-44 years and remaining 16% were belonging to the age of above 45 years respectively. Distribution of general population according to their age was shows that 54% were male and 46% were female. Distribution of general population to their education shows that, 33% were primary, 12% were secondary, 39% were higher secondary and 16% were graduate and above. Distribution of general population to their nursing occupation shows that, 13% were government employee, 23% were private employee, 26% were business, 26% were home maker, 12% were un-employee. Distribution of general population to their information shows that, 28% were mass media, 18% were self reading, 26% were health personal, 28% were formal education.

Section II: To assess the knowledge regarding glaucoma among general population-The above table shows that 1 (1%) had poor level of knowledge, 27(27%) were having average level of knowledge. 57 (57%) were having good level of knowledge, 15 (15%)were having very good knowledge, score and 0(0%) were having excellent level of knowledge . The minimum score was 3 and the maximum score was 12 the mean score for the test was  $7.61 \pm 1.814$  and mean percentage of knowledge was 50.73.

Section III: Association of knowledge score in relation to demographic variables. shows the association of knowledge score with the age in years of general population . The 'F'-value was calculated1, 0.822 at 5% level of significance with df (3,96). Also the calculated 'p'-value is 0.485 which is more than 0.05. Hence it is interpreted that the age in years of general population not associated with their knowledge scores.

## Conclusion

The following conclusions are drawn on the basis of the findings of the study.

- Age wise distribution of sample shows that 100% of them were belonging to the age of 18-24 years, 45% were in the age of 25-34 years, 16 % were in the age group of 35-44 years and remaining 16% were belonging to the age of above 45 years respectively.
- Distribution of general population according to their age shows that 54% were male and 46% were female.
- Distribution of general population to their education shows that, 33% were primary, 12% were secondary, 39% were higher secondary and 16% were graduate and above.
- Distribution of general population to their nursing occupation shows that, 13% were government employee, 23% were private employee, 26% were business, 26% were home maker, 12% were un-employee.
- Distribution of general population to their information shows that, 28% were mass media, 18% were self reading, 26% were health personal, 28% were formal education.

Table 1: Percentage wise distribution of general population according to their demographic characteristics.

n=100

Sr. no.	Demographic variable	Frequency	Percentage (%)
1.	Age		
	18-24 years	45	45%
	25-34years	16	16%
	35-44 years	16	16%

	45 years above	23	23%
2	<b>Gender</b>		
	Male	54	54 %
	Female	46	46%
3	<b>Education</b>		
	Primary	33	33%
	Secondary	12	12%
	Higher-Secondary	39	39%
	Graduate and above	16	16%
4	<b>Occupation</b>		
	Government employee	13	13%
	Private employee	23	23%
	Business	26	26%
	Home maker	26	26%
	Un-employee	12	12%
5	<b>Information</b>		
	Mass media	28	28%
	Self-reading	18	18%
	Health personal	26	26%
	Formal education	28	28%

**Table 2: Assessment with level of knowledge**

n=100

Level of knowledge score	Score	Percentage score	Knowledge score	
			Frequency	Percentage
Poor	0-3	0-20%	1	1%
Average	4-6	21-40%	27	27%
Good	7-9	41-60%	57	57%
Very Good	10-10	61-80%	15	15%
Excellent	13-15	81-100%	0	0%
Minimum score	3			
Maximum score	12			
Mean score	7.61 ± 1.814			
Mean Percentage	50.73			

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