PREVALENCE OF GLAUCOMA AMONG KANYAKUMARI POPULATION

SOLANKE DR.PRASHANT V
KUMAR JACOB DR.KISHORE
RAJENDRAN DR.N
INDRAPAL DR.P.S
MARIA DR A.VINOLIN
SEBASTINA DR N.VIGNESH

BACKGROUND: Glaucoma is the leading cause of global irreversible blindness. Estimated number of glaucoma cases worldwide in the year 2013 is, 64.3 million. Glaucoma is more prevalent in females than males. Affected males to females ratio is 1:3. Glaucoma is more prevalent in urban population than the rural community. There found to be a strong relationship between primary angle open glaucoma and myopia. More than 1/5 of the population aged >80 yrs are detected to be ocular hypertensives. Primary angle open glaucoma is double the times commoner than angle closure glaucoma.

OBJECTIVES: To study the:
1. Prevalence of primary and secondary glaucoma.

METHODOLOGY: Study design was Cross section. Study period was from June-2016 to March-2017. Study was conducted at RHTC, Marappadi and UHC, Peruvazhikadavu. Sample size was (4PQ/d²) 182. Sampling was done by systematic and random sampling technique.

RESULT: Prevalence of glaucoma-2.35%, glaucoma among males-2.01%, glaucoma among females-2.67%, PAOG and PACG-2.48%, 1.12% respectively, glaucoma less than 45yrs of age -0.5%, more than 80yrs of age -17.7%, PAOG and PACG-3.85%, 1.48% in rural population and 4.73%, 2.24% in urban population respectively, myopia among glaucoma cases-13.2%.

CONCLUSION: Prevalence of glaucoma rises as the age advances. Females are more likely to be affected than males. Glaucoma is more prevalent in urban population than rural population. More than 10% of glaucoma patients have myopic vision. Angle open glaucoma is more prevalent than angle closure glaucoma.

INTRODUCTION: Glaucoma is the leading cause of global irreversible blindness. Estimated number of glaucoma cases worldwide in the year 2013 is, 64.3 million. Glaucoma cases all over the world projected in the year 2020 is, 76 million and in 2040 is 111.8 million. Glaucoma is more prevalent in females than males. Affected males to females ratio is 1:3. Some studies are showing a higher prevalence rate in males than females. Surprisingly, glaucoma is more prevalent in urban population than the rural community. There found to be a strong relationship between primary angle open glaucoma and myopia. Among glaucoma cases about 1/6 patients are found to have myopic vision. As the age rises the incidence and prevalence rate of glaucoma are also on the rise. More than 1/5 of the population aged >80 yrs are detected to be ocular hypertensives. Rate of congenital glaucoma is much lower among general population and Pseudo exfoliation glaucoma is not an uncommon finding in general community. Primary angle open glaucoma is double the times commoner than angle closure glaucoma. Secondary glaucoma and younger onset glaucoma has a prevalence rate of 0.5% each among general population. Glaucoma remains as the second leading cause of blindness worldwide and proper examination and treatment could prevent it.

OBJECTIVES: To study the,
1. Glaucoma distribution and types.
2. Prevalence of primary and secondary glaucoma.
11. Prevalence of Glaucoma in Elderly (more than 80yrs): 17.7%
12. PACG – Age Distribution:
   • 40 – 49 yrs : 0.3%
   • 50 – 59 yrs : 0.8%
   • 60 – 69 yrs : 1.1%
   • Above 70 yrs : 1.5%
13. PAOG – Age Distribution:
   • 40 – 49 yrs : 0.9%
   • 50 – 59 yrs : 1.9%
   • 60 – 69 yrs : 2.9%
   • Above 70 yrs : 4.0%
14. Prevalence of Glaucoma in Rural Population:
   • PAOG : 3.9%
   • PACG : 1.5%
15. Prevalence of Glaucoma in Urban Population:
   • PAOG : 4.8%
   • PACG : 2.3%
16. Myopia among Glaucoma Cases: 13.2%