Number of signs and angle width of anterior chamber as predictors of Glaucoma in pseudo exfoliation syndrome

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Abstract

Introduction: - The number of signs of pseudo exfoliation (PXS) increase with severity and duration of the disorder. Pseudoexfoliation glaucoma (PXG) is the most important complication of PXS due to blockade of aqueous filtration channels. A narrower AC angle and increased load of pseudo exfoliation material (PXM) could lead to early glaucoma.

Objectives: - To find the relationship between number of signs of PXS and AC angle width to intraocular pressure.

Methods: - One thousand consecutive healthy patients above age 40 visiting the hospital for refraction or cataracts was examined for signs of pseudoexfoliation, angle width and intraocular pressure.

Results: - Pseudo exfoliation was seen in 9.3% individuals of whom 72% were males and 28% females. Bilateral involvement was more prevalent (82.9%) than unilateral (17.1%). PXM on anterior lens capsule was the commonest sign followed by on pupillary margin and degranulation of pupillary ruff (table 1). Glaucoma was present in 18.8% eyes of which 2/3rd were females (p < 0.05). There was a highly significant difference in incidence of glaucoma with 9-10 signs compared to 7-8 and 5-6 signs across all grades of angle width (table 2, t=1.32, P < 0.01). The incidence increased incrementally for narrower grades of angle width even when number of PXS signs remained constant.

Biography

P. D. Sharma completed his MD from reputed Post Graduate Institute of Medical Education and Research Chandigarh in India. After an year of Community Service he was appointed on faculty of Indira Gandhi Medical College of Himachal pradesh University Shimla and later headed the Ophthalmic Department of Mamata Medical College of NTR University of Health Sciences in Andhra Pradesh. Currently he is Head of Ophthalmic Services Division of VCSG Medical Sciences and Research Institute Srinagar in Uttarakhand. His interest is in the field of Glaucoma and has published 35 original research papers in various journals.