

Vitrectomy In Cataractous Eyes

Theises

Submitted for partial fulfillment of MD degree in
Ophthalmology

By

Ahmed Tamer Sayed Saif

MB.BCh, MSc Ophthalmology

Supervised By

Dr. Gamal Ahmed Barhouma

Prof. Of Ophthalmology
Cairo University

Dr. Moustafa Hamed Nabih

Prof. Of Ophthalmology
Cairo University

Dr. Yasser Soliman Mohamed

Assistant Prof. Of Ophthalmology
Cairo University

**Faculty Of Medicine
Cairo University**

2003

Summary

Patients included in this study were 46 with 46 eyes. Eleven of them were diabetic, nine were diabetic and hypertensive, nine had rhegmatogenous retinal detachment and seven had previous trauma. Five patients had vitreous haemorrhage and traction retinal detachment due to miscellaneous causes.

The patients were divided into 5 groups:

- Group I : Diabetics
- Group II : Diabetic and hypertensive
- Group III: Rhegmatogenous Retinal Detachment
- Group IV: Trauma
- Group V: Others

According to the postoperative visual acuity, evaluation for the cases were divided into 3 groups: improvement of visual acuity, no change in visual acuity and decrease or deterioration of visual acuity

Group I (Diabetics)

Total number of patients was 11 with 11 eyes. The mean age was 59.45 years + 7.35. The age ranges from 45 to 72 years in this group. There was 4 males (57%) and 3 females (43%)

The preoperative visual acuity were 73% hand movement, 9% counting finger, 9 % PL and 9% 2/60 and postoperative visual acuity were found to be PL 18%, HM 9%, 1/60 37%, 6/60 9%., 6/36 9%. , 6/12 9% and 6/9 9%.Therefore the net outcome of this group was 72.73 % success rate , while there was 27.27% for failure

Group II: Diabetics and Hypertensives.

The total no of patients were 9 with 9 eyes. The mean age was 58.89 years \pm 5.278 years. The age ranged from 52 to 70 years in this group. There is 1 male (11%) and 8 females (89%)

The preoperative visual acuity were 45% hand movement, 44% counting finger and 11 % 1/60 . the postoperative visual acuity were found to be no PL 11%, PL 11%, HM 44%, 5/60 11%, 6/60 11% and 6/9 11%.Therefore the net outcome of this group was 33.33 % success rate, while there was 55.55% for failure and 11.11% no change in visual acuity.

Group III (Rhegmatogenous RD)

Fourteen patients with 14 eyes had rhegmatogenous retinal detachment. The mean age was 54.57 years + 12.54 years, the age ranges from 42 to 80 years in this group as shown in table 10. There is 9 males (64 %) and 5 females (36 %) as shown in graph 6.

The preoperative visual acuity were 14% PL, 79% HM and 7 % 1/60 . The postoperative visual acuity were found to be PL 14%, HM 14%, 2/60 22%, 3/60 7%, 4/60 7% , 5/60 7%, 6/60 22% and 6/18 7%.Therefore the net outcome of this group was 78.57 % success rate , while there is 7.14 % for failure and 14.29% no change in visual acuity .

Group IV: Trauma

The total no of patients were 7 with 7 eyes. The mean age was 46.28 years \pm 3.4 years, the age ranges from 42 to 53 years in this group as. There was 7 males (100%) and no females (0.0%) .

The preoperative visual acuity were PL 43%, HM 43% and 1/60 14 %. The postoperative visual acuity were found to be no PL 14% , HM 14%, 3/60 14%, 6/60 30% , 6/36 14% and 6/24 14%. Therefore the net outcome of this group was 71.43 % success rate , while there is 14.29% for failure and 14.29% no change

Group V: Mixed group

The total no of patients were 5 with 5 eyes. The mean age was 51.8 years \pm 9.039 years, the age ranges from 44 to 66 years in this group. There is 4 males (80%) and 1 female (20%).

The preoperative visual acuity were PL 20%, HM 60% and 2/60 20%. The postoperative visual acuity were found to be 3/60 20%, 4/60 20%, 5/60 20%, 6/12 20% , and 6/6 20%. Therefore the net outcome of this group was 100% success rate , while there was no failure in this group

Results of all 5 groups

The age ranges between 44 and 80 for females with mean age of 57.21 \pm 8.77 years while the age ranges from 42 to 75 for males with mean age of 53.48 \pm 10.0 years as . The total no of eyes for females were 19 while 27 for males.

The preoperative visual acuity were PL 15.22%, HM 63.04% , CF 10.8%, 1/60 6.5% and 2/60 4.35%. The postoperative visual acuity were found to be no PL 4.35% , PL 10.87, HM 17.39%, 1/60 8.7%, 2/60 6.52%, 3/60 6.52%, 4/60 4.35%, 5/60 6.52%, 6/60 15.22%, 6/36 4.35%, 6/24 2.17%, 6/18 2.17% 6/12 4.35% , 6/9 4.35% and 6/6 2.17%. Therefore the net outcome of all groups were 69.57 % success rate , while there were 21.74% failure rate and 8.7% with no change.

In conclusion the triple procedure is a safe , effective, beneficial (cost effective) , time saving, technique to deal with the pathology in the vitreous and retina and at the same time to get rid off the opacity of the media in the form of associated cataract.