

TABLE 1. Patient Demographic and Disease History According to the Operation Type

	Ahmad N=29	Moltano N=28	P value
Male/Female, n (%)	16/13	14/14	0.696
Mean age(SD), years	63.28(8.92)	61.70(11.34)	0.565
Right eye/Left eye, n (%)	14/15	15/13	0.689
Patients with bilateral glaucoma, n (%)	7(24.1)	7(25.0)	0.940
History of Diabetes mellitus, n (%)	5(17.2)	4(14.3)	0.760
History of blood hypertension, n (%)	8(27.6)	7(25.0)	0.825
Family history of glaucoma, n (%)	8(27.6)	4(14.3)	0.218
Previous history of Penetration Iridectomy n (%)	4 (13.8)	3 (10.7)	0.723
History of trabeculectomy, n (%)	10(34.5)	10(35.7)	0.922
Number of trabeculectomy (%)			
1	1(3.4)	0(0.0)	0.739
2	7(24.1)	6(21.4)	
3	2(6.9)	3(10.7)	
Glaucoma subtype, n (%)			
Aphakic	5(17.2)	4 (14.3)	0.835
Failed	10 (34.5)	10 (35.7)	
Neovascular	5 (17.2)	7(25.0)	
Pseudophakic	8 (27.6)	5 (17.9)	
Uveitic type	1(3.4)	2 (17.1)	
Lens status, n (%)			
Aphakic	5 (17.2)	4 (14.3)	0.594
Phakic	16 (55.2)	19 (67.9)	
Pseudophakic	8 (27.6)	5 (17.9)	
Mean baseline IOP (SD), mmHg	30.81 (1.67)	33.06(1.66)	0.726
Mean baseline BCVA (SD), LogMAR units	0.66(0.12)	0.59(0.12)	0.322
Mean baseline anti-glaucoma medication (SD)	2.8 (0.11)	2.7 (0.11)	0.514

BCVA: best-corrected visual acuity; IOP: intraocular pressure; logMAR: logarithm of the minimal angle of resolution; SD: standard deviation

TABLE 2. Preoperative and Postoperative Month 24 Figures the Ahmed Valve Implant and Molteno Single-Plate Implant Groups			
	Ahmad valve (n=29)	Molteno (n=28)	Total
Mean of IOP(SD)			
Pre-operation	30.81 (1.67)	33.06 (1.66)	31.65 (8.81)
Post-operation †	17.00 (0.23)	15.36 (0.33)	16.19 (1.70)
Percentage of Difference	-41.94 (14.57) ^{II}	-49.29(12.29) ^{II}	-45.55(13.88) ^{II}
Mean of BCVA (SD), LogMar			
Pre-operation	0.66 (0.12)	0.59(0.12)	0.644(0.61)
Post-operation	0.78 (0.12)	0.70(0.11)	0.76(0.61)
Percentage of Difference	31.67 (78.11) ^{II}	46.52 (58.05) ^{II}	39.09 (68.55) ^{II}
Mean of number of medication (SD)			
Pre-operation	2.8 (0.11)	2.70 (0.11)	2.79(0.559)
Post-operation	1.03(0.27)	1.41 (1.19)	0.98(1.408)
Percentage of Difference	-58.62 (68.22) ^{II}	-56.54 (74.30) ^{II}	-57.60 (70.64) ^{II}
Mean (SD) of CEC density (cells/mm²)			
Pre-operation	2394.57(94.60)	2378.22(114.32)	2386.55(104.09)
Post-operation	2118.14(109.90)	2082.67(105.67)	2100.73(108.33)
Percentage of Difference	-11.52 (3.54) ^{II}	-12.37 (3.32) ^{II}	-11.94 (3.43) ^{II}
Mean (SD) of CEC area (mm²)			
Pre-operation	373.43(29.27)	380.96(34.63)	377.13(31.94)
Post-operation	382.50(31.14)	394.70(30.98)	388.49(31.39)
Percentage of Difference	2.48 (3.86) ^{II}	3.78 (3.61) ^{II}	3.12 (3.76)
Mean (SD) of Corneal thickness (µm)			
Pre-operation	539.07(25.16)	541.56(23.82)	540.29(24.32)
Post-operation	539.50(26.10)	544.48(24.48)	541.95(25.21)
Percentage of Difference	0.07 (0.87)	0.59 (3.70)	0.33 (2.65)

*Percentage of difference = (postoperative - preoperative)/preoperative value × 100

BCVA: best-corrected visual acuity; IOP: intraocular pressure; logMAR: logarithm of the minimal angle of resolution; SD: standard deviation,

†P < 0.001. Mann–Whitney Utest for the comparison between study groups

^{II}P ≤ 0.001. Wilcoxon signed-ranks test for the within-group comparison of pre- and postoperative measures
