

• AGV is a shunt device that is used in refractory glaucoma either primarily or after the failure of conventional procedures. It directs aqueous flow through the silicone tube .





Hypotony AGV valve mechanism was designed with the aim of preventing postoperative hypotony, allowing for AH drainage when IOP (8–12 mmHg). Studies have demonstrated that the mechanism is effective in reducing, but not abolishing





IOP increase and excessive capsule Fibrosis

• An **"hypertensive" phase** after glaucoma drainage implantation is quite common and has been frequently described in patients with AGV.

• Typically, this phase peaks at **1 or 2 months** postoperatively and resolves within 6 months.





 Tube exposure is a well-known complication of glaucoma drainage implants.

Erosion of the conjunctiva and of the covering patch graft has been described in the late postoperative period in **2%–7%** of eyes after implantation of glaucoma devices.









Modification



• Partial intraoperative Tenon's capsule resection with the use of adjunctive of mitomycin C is effective in developing thin, avascular blebs in eyes undergoing Ahmed glaucoma valve insertion.









Research Article 2020 Tenon Capsule Grafting versus Autologous Scleral Graft in Ahmed Glaucoma Valve Surgery Faried M. Wagdy Journal of Ophthalmology

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Research Article | Open Access Volume 2020 Journal of Ophthalmology Bleb Morphology Using Anterior-Segment Optical Coherence Tomography after Ahmed Glaucoma Valve Surgery with Tenon Capsule Resection Faried M. Wagdy¹















	Group I Mean ±SD	Group II Mean ±SD	T.test	P.value	
	Group I Mean ±SD	Group II Mean ±SD	T.test	P.value	
Preoperative IOP	32.7±1.9	33.2±2.2	0.619	0.54	
Postoperative IOP after 1 day	10.07±1.8	12.67±5.67	1.688	0.103	
Postoperative IOP after 1 week	11.067±1.53	12±5.64	0.618	0.542	
Postoperative IOP after 1 month	11.33±0.72	14.13±3.6	2.951	0.006	
Postoperative IOP after 6 month	11.67±0.72	14.2±4.12	2.43	0.027	
Postoperative IOP after 1 year	11.67±0.899	14.2±4.00	2.39	0.024	

	Group 1				Group 2				Fisher's Exact Test	p.value
	Yes		No		Yes		No			
	No	%	No	%	No	%	No	%		
Hypotony	1	6.67	14	93.3	2	13.33	13	86.67	1.34	0.210
Hyphema	1	6.67	14	93.3	4	26.67	11	93.3	0.912	1
Tube Occlusion	0	0	15	100	2	13.33	13	86.67	2.92	0.483
Choroidal Detachment	0	0	15	100	1	6.67	14	93.3	1.42	0.233
Increased IOP	1	6.67	14	93.3	2	13.33	13	86.67	1.34	0.210



