

S1 table Per-operative complications by randomisation group

COMPLICATIONS	β (%) N= 151	5FU (%) N= 150
Prolonged Phaco time	2 (1.3)	2 (1.3)
Corneal wound bur	1 (0.7)	0
Descemet's membrane stripped	1 (0.7)	0
Bleeding from Trabeculectomy site	1 (0.7)	3 (2.0)
Posterior capsular tear	1 (0.7)	4 (2.6)
Conjunctival button hole	2(1.3)	1 (0.7)
Torn Intraocular lens	4 (2.6)	0
Intraoperative shallowing of AC	1 (0.7)	1 (0.7)
Aphakia	0	2 (1.3)

S2 table:

Studies reporting outcomes of glaucoma filtration surgery in sub-Saharan African patients

Ref No.	Study	Design	N	F/Up	Results
22	<ul style="list-style-type: none"> Comparing 5 FU and MMC Nigeria, West Africa 2012 	Retrospective	<ul style="list-style-type: none"> 132 eyes 5FU 73 MMC 59 	≥ 1 year	<ul style="list-style-type: none"> IOP<19mmHG after 1,2,3 years 5FU: 78%, 71%, 59% MMC: 88%, 81%, 76% IOP <15mmHg after 1,2,3 years 5FU: 71%, 64%, 55% MMC: 86%, 79%, 76% 30% Loss of VA by at least 2 Snellen lines 42% had ECCE Post Trabeculectomy
23	<ul style="list-style-type: none"> Long term comparison 5FU and MMC Nigeria, West Africa 2008 	Retrospective	<ul style="list-style-type: none"> 68 eyes 5FU 38 MMC 30 	>3years	<ul style="list-style-type: none"> Mean final IOP: 5FU 19.7mmHg MMC 18.3mmHg IOP<21 mmHG with or without medication (Qualified success) 5FU: 52.6% MMC: 73.3% IOP < 21mmHg without medication (Complete success) 5FU: 24.3% MMC: 55.2% 50% had > 2 Snellen's line loss of acuity
24	<ul style="list-style-type: none"> 5FU and releasable suture Nigeria, West Africa 2011 	Retrospective	<ul style="list-style-type: none"> 22 eyes 	≥ 72 weeks	<ul style="list-style-type: none"> Mean IOP 16.9 ±5.6mmHg Success rate 81% at the last follow

					up
25	<ul style="list-style-type: none"> • Long term results of glaucoma • Tanzania, East Africa 2000 	Community based, Cross sectional study	<ul style="list-style-type: none"> • 16 eyes • All had MMC 	3 years post operative	<ul style="list-style-type: none"> • IOP <15mmHg: 89% • Cataract in 33%
26	<ul style="list-style-type: none"> • Presentation and Surgical outcome of POAG • Nigeria, West Africa 2007 	Retrospective	<ul style="list-style-type: none"> • 71 eyes 	Not specified	<ul style="list-style-type: none"> • 97% had IOP <21mmHG • 82% 10-15mmHg • 15% 16-20mmHg
27	<ul style="list-style-type: none"> • Post Trabeculectomy complication. • Nigeria, West Africa 2009 	Retrospective	<ul style="list-style-type: none"> • 76 eyes • 5FU 33% • None 67% 	1 year	<ul style="list-style-type: none"> • Mean IOP at 1 year: • 5FU 16.1 mmHg • None 18.5mmHg • No difference in IOP outcomes 5FU vs none
28	<ul style="list-style-type: none"> • MMC versus Placebo • Ethiopia ,East Africa 2009 	RCT	<ul style="list-style-type: none"> • 31 eyes MMC • 28 eyes Placebo 	No mention in abstract	<ul style="list-style-type: none"> • No difference in post operative IOP • Higher complications in MMC group
16	<ul style="list-style-type: none"> • Trabeculectomy audit • Tanzania, East Africa 2005 	Retrospective	<ul style="list-style-type: none"> • 178 eyes 	8 months	<ul style="list-style-type: none"> • 5FU used in 36% • IOP ≤15mmHg : 73% • IOP ≤ 21mmHg: 90% • No significant difference between 5FU and nothing • 25% lost ≥ 2 lines Snellen's acuity
29	<ul style="list-style-type: none"> • Intraoperative 5- FU application in primary Trabeculectomy • Nigeria, West Africa 2003 	Retrospective	<ul style="list-style-type: none"> • 154 eyes 	18 months	<ul style="list-style-type: none"> • IOP ≤ 20mmHg • 5FU: 76% • Control : 79% • IOP ≤14mmHg • 5FU: 64% • Control: 39% • (p=0.018)
30	<ul style="list-style-type: none"> • Effectiveness of trabeculectomy 	Retrospective (10 years)	<ul style="list-style-type: none"> • 433 eyes 	1 year	<ul style="list-style-type: none"> • 92% success

	<ul style="list-style-type: none"> Nigeria, West Africa 2001 				
31	<ul style="list-style-type: none"> Evaluation of Trabeculectomy Nigeria, West Africa 2001 	Retrospective	<ul style="list-style-type: none"> 56 eyes 	No mention	<ul style="list-style-type: none"> IOP<21mmHg : 74% With medication : 96%
32	<ul style="list-style-type: none"> Trabeculectomy with and without mitomycin C Congo, Central Africa 2001 	RCT One eye MMC One eye none	<ul style="list-style-type: none"> 22 eyes 	20 months	<ul style="list-style-type: none"> Success MMC : 81% None: 64% Complications; MMC: 36.3% None: 9%
33	<ul style="list-style-type: none"> 5Fu versus placebo Kenya, East Africa 2001 	RCT	<ul style="list-style-type: none"> 68 eyes 	6 months, 2 years	<ul style="list-style-type: none"> IOP At 6 months; 5FU: 16.9mmHg Placebo : 17.4mmHg At 2 years, success 5FU : 88.8 % Placebo : 70.6% Higher failure rate in placebo by 2.18 times 30% Loss of acuity by 3 lines in both arms
34	<ul style="list-style-type: none"> Trabeculectomy outcomes in advanced glaucoma Nigeria, West Africa 2001 	Retrospective No adjuncts used	<ul style="list-style-type: none"> 142 eyes 	Av.3 years	<ul style="list-style-type: none"> IOP <22mmHg 1 year 85% 5 years 71% IOP < 16mmHg 1 year 65% 5 years 46% 12% loss of acuity by 2 lines
18	<ul style="list-style-type: none"> β radiation versus placebo South Africa 2006 	RCT	<ul style="list-style-type: none"> 320 eyes; β radiation 164 (51%) Placebo 	1 year	<ul style="list-style-type: none"> Surgical failure β : 5% Placebo : 30% Higher incidence of operable

			(49%)		cataract in β group (16.7%) versus Placebo (2.8%) at 2 years
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