**S2 table: Studies reporting outcomes of glaucoma filtration surgery in sub-Saharan African patients**

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| --- | --- | --- | --- | --- | --- |
| Ref No. | Study | Design | N | F/Up | Results |
| 22 | * Comparing 5 FU and MMC
* Nigeria, West Africa 2012
 | Retrospective | * 132 eyes
* 5FU 73
* MMC 59
 | ≥ 1 year | * 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 | * Long term comparison 5FU and MMC
* Nigeria, West Africa 2008
 | Retrospective | * 68 eyes
* 5FU 38
* MMC 30
 | >3years | * 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 | * 5FU and releasable suture
* Nigeria, West Africa 2011
 | Retrospective | * 22 eyes
 | ≥ 72 weeks | * Mean IOP 16.9 ±5.6mmHg
* Success rate 81% at the last follow up
 |
| 25 | * Long term results of glaucoma
* Tanzania, East Africa 2000
 | Community based, Cross sectional study | * 16 eyes
* All had MMC
 | 3 years post operative | * IOP <15mmHg: 89%
* Cataract in 33%
 |
| 26 | * Presentation and Surgical outcome of POAG
* Nigeria, West Africa 2007
 | Retrospective | * 71 eyes
 | Not specified | * 97% had IOP <21mmHG
* 82% 10-15mmHg
* 15% 16-20mmHg
 |
| 27 | * Post Trabeculectomy complication.
* Nigeria, West Africa 2009
 | Retrospective | * 76 eyes
* 5FU 33%
* None 67%
 | 1 year | * Mean IOP at 1 year:
* 5FU 16.1 mmHg
* None 18.5mmHg
* No difference in IOP outcomes 5FU vs none
 |
| 28 | * MMC versus Placebo
* Ethiopia ,East Africa 2009
 | RCT | * 31 eyes MMC
* 28 eyes Placebo
 | No mention in abstract | * No difference in post operative IOP
* Higher complications in MMC group
 |
| 16 | * Trabeculectomy audit
* Tanzania, East Africa 2005
 | Retrospective | * 178 eyes
 | 8 months | * 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 | * Intraoperative 5- FU application in primary Trabeculectomy
* Nigeria, West Africa 2003
 | Retrospective | * 154 eyes
 | 18 months | * IOP≤ 20mmHg
* 5FU: 76%
* Control : 79%
* IOP≤14mmHg
* 5FU: 64%
* Control: 39%
* (p=0.018)
 |
| 30 | * Effectiveness of trabeculectomy
* Nigeria, West Africa 2001
 | Retrospective( 10 years) | * 433 eyes
 | 1 year | * 92% success
 |
| 31 | * Evaluation of Trabeculectomy
* Nigeria, West Africa 2001
 | Retrospective | * 56 eyes
 | No mention | * IOP<21mmHg : 74%
* With medication : 96%
 |
| 32 | * Trabeculectomy with and without mitomycin C
* Congo, Central Africa 2001
 | RCTOne eye MMCOne eye none | * 22 eyes
 | 20 months | * Success
* MMC : 81%
* None: 64%
* Complications;
* MMC: 36.3%
* None: 9%
 |
| 33 | * 5Fu versus placebo
* Kenya, East Africa 2001
 | RCT | * 68 eyes
 | 6 months, 2 years | * 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 | * Trabeculectomy outcomes in advanced glaucoma
* Nigeria, West Africa 2001
 | Retrospective No adjuncts used | * 142 eyes
 | Av.3 years | * IOP <22mmHg
* 1 year 85%
* 5 years 71%
* IOP < 16mmHg
* 1 year 65%
* 5 years 46%
* 12% loss of acuity by 2 lines
 |
| 18 | * β radiation versus placebo
* South Africa 2006
 | RCT | * 320 eyes;
* β radiation
* 164 (51%)
* Placebo (49%)
 | 1 year | * Surgical failure
* β : 5%
* Placebo : 30%
* Higher incidence of operable cataract in β group ( 16.7%) versus Placebo (2.8%) at 2 years
 |