Evidence Table 16. KQ3 surgical population characteristics

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Geographic Origin** | **Follow up** | **Inclusion Criteria** | **Exclusion Criteria** | **Comparators** | **N patients/eyes** | **Mean age** | **Mean IOP**  **Baseline** | |
| **Laser** | | | | | | | | | |
| Goldenfeld 200941 | Eur | 14.65 m |  |  | TLT  ALT | 18 eyes, 18 pat  19 eyes, 19 pat | 68  68 | 25.7  25.7 | |
| Russo 200977 | Asia,  Eur | 12 m |  |  | SLT-Group A  ALT- Group A  SLT- Group B  ALT-GroupB | 43 eyes  41 eyes  18 eyes  18 eyes | 57.8  59.1  56.5  57.6 | 22.7  23  21.8  22.2 | |
| Frenkel 199740 | US, Asia | 14 m |  | Prior ocular surgery, laser | 50 laser spots  35 laser spots |  | 68 overall study | 22.8  22.3 | |
| Tang 201190 | Asia | 12 | OHT, suspects and POAG | Not specified | SLT half of conventional laser energy  SLT conventional | 39 patients,  39 eyes  35 patients,  35 eyes | 52.10  54.88 | 25.05  24.47 | |
| **Trabeculectomy** | | | | | | | | | |
| De Jong 200930 | Eur | 50.3 wk | >18 years, prior cataract surgery | prior cataract surgery | Trabeculectomy  Ex-PRESS shunt | 40 eyes  40 eyes | 68.9  62.3 | 21.5  22.8 | |
| Kaplan-Messas 200947 | Eur | Not specified |  | <18 years | Peripheral iridectomy  No Peripheral iridectomy | 24 pat  23 pat | 75  75.2 | 26.9  28.0 | |
| Sanders 199379 | Eur | Not specified |  | Prior ocular surgery, laser | Nasal  Superior  Temporal  (sites of trabeculectomy) | 20 pat  20 pat  20 pat | 67  73  70 | 29  27  28 | |
| Kozobolis 200253 | Eur | Not specified |  | Prior incisional surgery, Argon Laser Trabeculectomy | Fornix-based flap  Limbal-based flap | 30 eyes,30 pat  30 eyes,30 pat | 71.4  71.4 | 22.34  22.56 | |
| Thimmarayan 200691 | Asia | 18 m | ≥40 years | Prior intraocular and glaucoma surgery | Mini trabeculectomy  Conventional Trabeculectomy | 30 eyes,26 pat  30 eyes,28 pat | 60.2  58.3 | 28.63  28.60 | |
| **Trabeculectomy with adjuvants or implants** | | | | | | | | | |
| Rosentreter  201076 | EUr | 1 year | Uncontrolled IOP |  | Trab + MMC  Trab + Ologen implant | 20 patients  20 patients | 62.8 +/- 9.5 | | 22.4  27.2 |
| Kobayashi 201050 | Asia | Not specified | ≥22 mmHg | Prior ocular surgery | Adjustable suture  Laser suture lysis | 25 pat  25 pat | 69.6  69.2 | | 27.8  27.3 |
| Cillino 200828 | Eur | Not specified | >21 mmHg | Prior ocular surgery | 1. Trabeculectomy 2. Trabeculectomy with MMC 3. Trabeculectomy with ePTFE 4. Trabeculectomy with MMC and ePTFE | 15 eyes  15 eyes  15 eyes  15 eyes | 71.1  68.1  67.2  65.3 | | 28.6  30.9  35.3  30.6 |
| Quaranta 200072 | Eur | Not specified | ≥22 mmHg | Prior ocular surgery | Sulodexide  5-FU | 22 eyes  19 eyes | 57.8  63 | | 26  28 |
| Eliezer 200635 | Asia | Not specified |  |  | Control  Amniotic membrane | 16 eyes,16 pat  16 eyes,16pat | 67.6  68.3 | |  |
| Das 200229 | Asia | Not specified | >22 mmHg | Previous failed glaucoma surgery | 1) Conventional trabeculectomy  2) SIT | 40 eyes,40pat  40eyes,40pat | 56.1  51.62 | | 29.85  30.20 |
| Singh 199888 | Af | 17.7 m |  |  | 5-FU (1st trial)  5-FU (2nd trial)  Mitomycin C | 20 pat  37 pat  44 pat | 61.6  52.7  54.1 | | 29.6  32.0  30.7 |
| Reibaldi 200875 | Eur | 126 m | Baseline IOP >21  OAG | pigmentary, pseudoexfoliative, NTG, prior ocular surgery | MCC-TE  BSS-TE | 67 pat  47 pat | 61.2  61.6 | |  |
| Tressler 199692 | US | Not specified | Aphakia, pseudophakia, failed filtering surgery |  | subconjunctival MMC  intrascleral MMC | 12 eyes  12 eyes | 69.33  69.08 | | 26  28 |
| Kim 199848 | US | Not specified |  |  | 0.5-1 minute MMC  3-5 minute MMC  No MMC | 50 pat  38 pat  36 pat | 60.5  63.4  65.8 | | 32.7  30.2  29.7 |
| El Sayyad 199934 | Asia | Not specified | 35 - 90 years, >21mmHg with maximal medical therapy |  | Fornix-based flap  Limbal-based flap | 29 eyes,29 pat  29 eyes, 29 pat | 51.3  51.3 | | 33.9  33.0 |
| **Deep Sclerectomy** | | | | | | | | | |
| Russo 200878 | Eur | 47 for NPDS  46 for PT |  | prior cataract surgery | NPDS  Trabeculectomy | 43 eyes/43pat  50eyes/50pat | 66.3  68.2 | 25.3  26.0 | |
| Mielke 200663 | Af | 16.4 m | uncontrolled  POAG |  | DS only  DS w/MMC | 21 pat  18 pat | 60  62 | 29.5  26.4 | |
| **Other Treatments** | | | | | | | | | |
| Fea 201038 | Eur | Not specified | >18 mmHg |  | Phaco + stent  Phaco only | 12 pat  24 pat | 64.5  64.9 | 17.9  17.3 | |
| Kobayashi 200751 | Asia | Not specified |  |  | Phacoviscocanalostomy  Phacotrabeculectomy | 20 eyes, 20 pat  20 eyes, 20 pat | 71.5  71.0 | 24.0  23.7 | |

IOP given in mmHg. OAG: Open angle glaucoma, POAG: Primary open angle glaucoma, NTG: Normal tension glaucoma, OHT, Ocular hypertension, DS, Deep sclerectomy, NPDS: Non penetrating deep sclerectomy, ALT: Argon laser trabeculoplasty, TLT: Titanium-sapphire laser trabeculoplasty, SLR: Selective laser trabeculoplasty, E-PTFE: Gore-Tex implant, MMC: Mitomycin C, 5-FU: 5-Fluorouracil, SIT: Small incision trabeculectomy, BSS: Balanced salt solution, PDS: Phaco+deep sclerectomy