*Supplemental Table 2. Analysis of randomized controlled trials*

ACR = anterior capsular rupture; CCE = central corneal edema; CCS = conventional cataract surgery; CCT = central corneal thickness; CDE = cumulative dissipated energy; CDVA = corrected distance visual acuity; CME = cystoid macular edema; FLACS = femtosecond laser-assisted cataract surgery; ECL = endothelial cell loss; EPT = effective phacoemulsification time; IOP = elevated intraocular pressure within 24 hours; MAE = mean absolute prediction error; PCR = posterior capsular rupture; SE = spherical equivalent; SIA = surgically induced astigmatism; TPE = total phacoemulsification time; UDVA = uncorrected distance visual acuity; † = statistically significant

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** | **No. of eyes FLACS** | **No. of eyes CCS** | **Weighted mean difference /**  **Odds Ratio** | **95% confidence interval** | **P value** |
| UDVA: 1 week | 110 | 115 | -0.06 | -0.13, 0.00 | 0.06 |
| UDVA: 1-3 months | 330 | 343 | -0.05 | -0.11, 0.01 | 0.09 |
| UDVA: ≥ 6 months | 110 | 115 | -0.10 | -0.16, -0.03 | 0.005† |
| CDVA: 1 week | 135 | 144 | -0.05 | -0.07, -0.02 | < 0.001† |
| CDVA: 1-3 months | 334 | 332 | -0.02 | -0.04, 0.00 | 0.09 |
| CDVA: ≥ 6 months | 212 | 218 | -0.02 | -0.04, -0.01 | 0.004† |
| SE: 1 week | 200 | 200 | -0.10 | -0.19, -0.00 | 0.04† |
| SE: 3 weeks-3 months | 477 | 457 | -0.08 | -0.15, -0.01 | 0.03† |
| SE: ≥ 6 months | 200 | 200 | -0.19 | -0.36, -0.03 | 0.02† |
| MAE: 1 week | 85 | 89 | -0.10 | -0.19, -0.02 | 0.02† |
| MAE: 1-3 months | 362 | 346 | -0.17 | -0.33, -0.01 | 0.03† |
| MAE: ≥ 6 months | 60 | 60 | -0.13 | -0.24, -0.01 | 0.03† |
| SIA | 370 | 378 | -0.07 | -0.19, 0.04 | 0.19 |
| TPE | 122 | 122 | -9.73 | -15.40, -4.07 | < 0.001† |
| EPT: Catalys | 330 | 330 | -1.37 | -1.41, -1.33 | < 0.001† |
| EPT: LenSx | 68 | 68 | -0.62 | -2.46, 1.23 | 0.51 |
| EPT: Victus | 106 | 113 | -1.17 | -3.26, 0.93 | 0.27 |
| EPT: LDV Z8 | 103 | 97 | -0.93 | -2.17, 0.32 | 0.14 |
| EPT: all lasers | 607 | 608 | -1.02 | -1.45, -0.59 | < 0.001† |
| CDE: LenSx | 245 | 246 | -2.25 | -3.36, -1.13 | < 0.001† |
| CDE: Victus | 92 | 92 | -1.60 | -2.78, -0.42 | 0.008† |
| CDE: LDV Z8 | 35 | 35 | -1.40 | -4.10, 1.30 | 0.31 |
| CDE: all lasers | 372 | 373 | -1.90 | -2.67, -1.12 | < 0.001† |
| Circularity | 170 | 180 | 0.03 | 0.01, 0.04 | < 0.001† |
| ACR: Catalys | 314 | 314 | 1.00 | 0.14, 7.16 | 1.00 |
| ACR: LenSx | 539 | 548 | 2.03 | 0.50, 8.24 | 0.32 |
| ACR: Victus | 106 | 113 | 1.13 | 0.07, 18.45 | 0.93 |
| ACR: all lasers | 1117 | 1131 | 1.54 | 0.54, 4.36 | 0.42 |
| PCR: Catalys | 314 | 314 | 0.32 | 0.01, 8.23 | 0.49 |
| PCR: LenSx | 509 | 518 | 0.07 | 0.00, 1.33 | 0.08 |
| PCR: all lasers | 1090 | 1104 | 0.12 | 0.01, 0.98 | 0.05 |
| IOP | 314 | 314 | 0.86 | 0.30, 2.50 | 0.79 |
| CME: Catalys | 314 | 314 | 0.47 | 0.17, 1.31 | 0.15 |
| CME: LenSx | 200 | 200 | 1.34 | 0.30, 6.07 | 0.70 |
| CME: all lasers | 514 | 514 | 0.65 | 0.28, 1.48 | 0.30 |
| CCE: 3-6 weeks | 225 | 229 | 2.02 | 0.37, 11.16 | 0.42 |
| CCT: 1 day | 111 | 111 | -15.52 | -29.04, -2.00 | 0.02† |
| CCT: 1-3 months | 126 | 127 | -10.83 | -23.82, 2.17 | 0.10 |
| CCT: 6 months | 144 | 145 | -3.08 | -16.82, 10.67 | 0.66 |
| ECL: 1-3 days | 176 | 177 | -2.51 | -4.82, -0.20 | 0.03† |
| ECL: 1 week | 111 | 111 | -3.14 | -5.75, -0.53 | 0.02† |
| ECL: 3-6 weeks | 493 | 498 | -2.32 | -4.52, -0.11 | 0.04† |
| ECL: 3 months | 163 | 168 | -3.91 | -6.78, -1.03 | 0.008† |
| ECL: 6 months | 102 | 103 | -2.15 | -5.45, 1.15 | 0.20 |