**Supplemental Table 1.** Post-Descemet membrane endothelial keratoplasty (DMEK) anterior chamber volume (ACV), anterior chamber depth (ACD), scleralspura angle (SSA), central corneal thickness (CCT), pupil diameter (PD), spherical equivalent (SE) and best spectacle-corrected visual acuity (BSCVA) in eyes with Fuchs endothelial corneal dystrophy (FECD) and other eyes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Eyes with FECD** | **Preoperative** | **1 Month** | **3 Months** | **6 Months** | **12 Months** |
| BSCVA (LogMAR) | 0.68 ± 0.47 | 0.32 ± 0.21 (<0.01) | 0.17 ± 0.13 (<0.01) | 0.06 ± 0.11 (<0.01) | 0.06 ± 0.11 (<0.01) |
| SE (D) | -2.23 ± 2.43 |  |  |  | -1.14 ± 1.70 (<0.05) |
| PD (mm) | 3.17 ± 1.23 | 3.27 ± 2.43 (0.398) | 3.45 ± 1.15 (0.272) | 3.43 ± 0.85 (0.195) | 3.54 ± 0.85 (0.158) |
| CCT (µm) | 686 ± 108 | 518 ± 55 (<0.01) | 498 ± 51 (<0.01) | 509 ± 45 (<0.01) | 508 ± 35 (<0.01) |
| SSA (°) | 51.6 ± 15.8 | 67.2 ± 11.5 (<0.05) | 66.4 ± 14.7 (<0.05) | 68.7 ± 10.5 (<0.05) | 68.8 ± 10.8 (<0.05) |
| ACD (mm) | 2.71 ± 0.5 | 3.43 ± 0.47 (<0.01) | 3.39 ± 0.39 (<0.01) | 3.38 ± 0.42 (<0.01) | 3.42 ± 0.51 (<0.01) |
| ACV (mm3) | 133.1 ± 24.3 | 156.4 ± 17.4 (<0.05) | 156.4 ± 17.4 (<0.05) | 156.4 ± 17.4 (<0.05) | 157.5 ± 17.3 (<0.05) |

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| --- | --- | --- | --- | --- | --- |
| **Other eyes** | **Preoperative** | **1 Month** | **3 Months** | **6 Months** | **12 Months** |
| BSCVA (LogMAR) | 0.91 ± 0.51 | 0.22 ± 0.24 (<0.001) | 0.1 ± 0.2 (<0.001) | 0.07 ± 0.17 (<0.001) | 0.07 ± 0.17 (<0.001) |
| SE (D) | -1.70 ± 1.56 |  |  |  | -0.73 ± 1.16 (<0.001) |
| PD (mm) | 3.18 ± 1.03 | 2.84 ± 0.83 (0.036) | 3.23 ± 0.94 (0.389) | 3.14 ± 0.88 (0.422) | 3.09 ± 0.63 (0.338) |
| CCT (µm) | 734 ± 114 | 512 ± 42 (<0.001) | 512 ± 47 (<0.001) | 519 ± 39 (<0.001) | 529 ± 44 (<0.001) |
| SSA (°) | 50.1 ± 15.9 | 59.3 ± 13.7 (<0.01) | 66.1 ± 14.3 (<0.001) | 66.2 ± 12.4 (<0.001) | 64 ± 10.9 (<0.01) |
| ACD (mm) | 2.97 ± 0.36 | 3.55 ± 0.36 (<0.001) | 3.57 ± 0.42 (<0.001) | 3.54 ± 0.39 (<0.001) | 3.56 ± 0.42 (<0.001) |
| ACV (mm3) | 133.1 ± 24.3 | 151.7 ± 20.5 (<0.001) | 153 ± 19,8 (<0.001) | 154.4 ± 21.5 (<0.001) | 154.4 ± 19.9 (<0.001) |

(p-value).

**Supplemental Table 2.** Correlations between the change of Anterior chamber volume (ΔACV)and other factors in eyes with Fuchs endothelial corneal dystrophy (FECD) and other eyes

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Eyes with FECD** | **ΔACD** | **Pre ACD** | **ΔSSA** | **Pre SSA** | **ΔCCT** | **Pre CCT** | **IPSS** | **IDS** |
| **ΔACV** | 0.888 | -0.841 | 0.914 | -0.661 | 0.566 | -0.592 | -0.432 | -0.068 |
| p-value | <0.01 | <0.01 | <0.01 | 0.073 | 0.143 | 0.285 | 0.285 | 0.872 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Other eyes** | **ΔACD** | **Pre ACD** | **ΔSSA** | **Pre SSA** | **ΔCCT** | **Pre CCT** | **IPSS** | **IDS** |
| **ΔACV** | 0.604 | -0.435 | 0.492 | -0.591 | 0.113 | -0.228 | 0.092 | -0.13 |
| p-value | <0.05 | 0.08 | <0.05 | <0.05 | 0.664 | 0.38 | 0.723 | 0.618 |

Data are expressed as the Spearman correlation coefficient.

**Supplemental Table 3.** Correlations between the change of spherical equivalent (ΔSE)and other factors in eyes with Fuchs endothelial corneal dystrophy (FECD) and other eyes

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Eyes with FECD** | **ΔACV** | **Pre ACV** | **ΔACD** | **Pre ACD** | **ΔSSA** | **Pre SSA** | **ΔCCT** | **Pre CCT** |
| **ΔSE** | 0.866 | -0.693 | 0.818 | -0.892 | 0.815 | -0.665 | 0.566 | -0.453 |
| p-value | <0.01 | <0.05 | <0.05 | <0.01 | <0.05 | 0.07 | 0.143 | 0.26 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Other eyes** | **ΔACV** | **Pre ACV** | **ΔACD** | **Pre ACD** | **ΔSSA** | **Pre SSA** | **ΔCCT** | **Pre CCT** |
| **ΔSE** | 0.599 | -0.49 | 0.534 | -0.575 | 0.469 | -0.522 | 0.23 | -0.369 |
| p-value | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.375 | 0.145 |

Data are expressed as the Spearman correlation coefficient.