**Supplementary Table S1 SVD and SPD in the macular region and peripapillary region of SOT eyes and PPV+C3F8 eyes**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Region** | **PPV+C3F8****Contralateral eyes (n=27)** | **PPV+C3F8 eyes (n=29)** | **SOT Contralateral eyes****(n=54)** | **SOT eyes****(n=50, Pre-Op)** | **1 day** | **7 days** | **1 month** | **3 months** |
| **Macular region** |  |  |  |  |  |  |  |  |
| SVD, mm-1 |  |  |   |  |  |  |  |  |
| Central area | 8.115±2.476 | 7.076±3.761\*\* | 7.928±3.189## | 4.394±3.294 | 3.91±3.13 | 5.53±2.75 | 6.15±3.68 | 6.8±2.95 |
| Inner ring | 17.104±2.398 | 15.662±3.968\*\* | 17.322±2.147## | 12.642±4.642 | 10.15±4.51 | 13.7±3.01 | 14.59±3.7 | 15.18±3.57 |
| Outer ring | 17.538±2.148 | 16.397±3.200\*\* | 17.496±1.721## | 13.538±3.870 | 12.12±3.42 | 14.84±2.65 | 15.62±2.67 | 16.1±2.83 |
| Full area | 17.162±2.145 | 15.972±3.317\*\* | 17.193±1.758## | 13.074±3.907 | 11.44±3.60 | 14.32±2.64 | 15.11±3.05 | 15.63±2.93 |
| SPD |  |  |  |  |  |  |  |  |
| Central area  | 0.179±0.058 | 0.153±0.085\* | 0.174±0.077## | 0.102±0.093 | 0.08±0.07 | 0.13±0.07 | 0.14±0.09 | 0.15±0.07 |
| Inner ring | 0.407±0.061 | 0.374±0.102\*\* | 0.412±0.053## | 0.297±0.115 | 0.24±0.11 | 0.32±0.07 | 0.34±0.09 | 0.36±0.09 |
| Outer ring | 0.432±0.055 | 0.402±0.086\*\* | 0.431±0.045## | 0.333±0.101 | 0.29±0.09 | 0.36±0.07 | 0.38±0.08 | 0.40±0.07 |
| Full area | 0.420±0.054 | 0.389±0.087\*\* | 0.420±0.045## | 0.318±0.101 | 0.27±0.09 | 0.35±0.07 | 0.37±0.08 | 0.38±0.07 |
| **Peripapillary region** |  |  |  |  |  |  |  |  |
| SVD, mm-1 |  |  |  |  |  |  |  |  |
| Central area | 5.083±3.781 | 5.304±3.979 | 4.302±2.702 | 3.430±3.351 | 3.83±2.21 | 5.04±3.59 | 5.28±3.81 | 4.77±2.75 |
| Inner ring | 17.417±2.039 | 16.686±2.750\*\* | 17.600±1.728## | 14.066±4.457 | 13.65±3.33 | 15.83±2.16 | 15.76±3.28 | 15.28±3.35 |
| Outer ring | 18.270±1.769 | 16.707±2.968\*\* | 17.983±1.923## | 14.284±4.357 | 12.62±3.79 | 15.71±2.28 | 15.94±3.05 | 15.9±2.79 |
| Full area | 17.700±1.566 | 16.375±2.616\*\* | 17.506±1.604## | 13.910±4.123 | 12.6±3.48 | 15.44±1.94 | 15.6±2.92 | 15.45±2.7 |
| SPD |  |  |  |  |  |  |  |  |
| Central area  | 0.140±0.107 | 0.147±0.111 | 0.116±0.075 | 0.091±0.095 | 0.1±0.06 | 0.14±0.1 | 0.15±0.11 | 0.13±0.08 |
| Inner ring | 0.454±0.056 | 0.434±0.075\*\* | 0.460±0.046## | 0.366±0.123 | 0.35±0.82 | 0.41±0.06 | 0.41±0.09 | 0.40±0.09 |
| Outer ring | 0.458±0.047 | 0.417±0.082\* | 0.450±0.051## | 0.357±0.116 | 0.32±0.1 | 0.39±0.06 | 0.4±0.08 | 0.4±0.07 |
| Full area | 0.448±0.042 | 0.415±0.072\*\* | 0.443±0.043## | 0.352±0.111 | 0.32±0.09 | 0.39±0.05 | 0.4±0.08 | 0.39±0.07 |

Values are shown as mean ± SD. SVD, superﬁcial vessel density; SPD, superﬁcial perfusion density; SOT, silicone oil tamponade; PPV+C3F8: pars plana vitrectomy and perfluoropropane; OCTA, optical coherence tomography angiography. 1 day: day 1 after SOR; 7 days: day 7 after SOR; 1 month: one month after SOR; 3 months: 3 months after SOR.

#*P*<0.05 and ##*P*<0.01 Control eye vs. SOT eye.

\**P*<0.05 and \*\**P*<0.01 PPV+C3F8 eye vs. SOT eye.

$*P*<0.05 and $$*P*<0.01 Contralateral eye vs. PPV+C3F8 eye.

&*P*<0.05 and &&*P*<0.01 Control eye vs. Contralateral eye.