**Supplementary Table S3.** Influence of structural parameters on vessel density in multiple linear regression models (Sector-wise analysis 1)

<table>
<thead>
<tr>
<th>Sectors</th>
<th>Nasal</th>
<th>IN</th>
<th>IT</th>
<th>Temporal</th>
<th>ST</th>
<th>SN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>B, P value (95% CI)</td>
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<td>B, P value (95% CI)</td>
<td>B, P value (95% CI)</td>
</tr>
<tr>
<td>RNFLT* (µm)</td>
<td>0.20, &lt;0.001 (0.13 to 0.27)</td>
<td>0.17, &lt;0.001 (0.12 to 0.21)</td>
<td>0.21, &lt;0.001 (0.18 to 0.24)</td>
<td>0.31, &lt;0.001 (0.22 to 0.40)</td>
<td>0.18, &lt;0.001 (0.15 to 0.21)</td>
<td>0.15, &lt;0.001 (0.11 to 0.19)</td>
</tr>
<tr>
<td>Sex (male)</td>
<td>-2.96, 0.013 (-5.29 to -0.63)</td>
<td>0.52, 0.73 (-3.50 to 2.46)</td>
<td>-2.78, 0.04 (-5.38 to -0.18)</td>
<td>1.22, 0.41 (-1.67 to 4.10)</td>
<td>-1.03, 0.44 (-3.63 to 1.57)</td>
<td>-1.53, 0.28 (-4.33 to 1.27)</td>
</tr>
<tr>
<td>Age (year)</td>
<td>-0.03, 0.56 (-0.11 to 0.06)</td>
<td>-0.11, 0.06 (-0.22 to 0.006)</td>
<td>-0.11, 0.03 (-0.21 to 0.09)</td>
<td>-0.08, 0.13 (-0.19 to 0.03)</td>
<td>-0.03, 0.54 (-0.13 to 0.07)</td>
<td>0.07, 0.90 (-0.10 to 0.11)</td>
</tr>
<tr>
<td>Axial length (mm)</td>
<td>0.23, 0.64 (-0.74 to 1.20)</td>
<td>0.74, 0.23 (-0.47 to 1.96)</td>
<td>1.00, 0.07 (-0.08 to 2.07)</td>
<td>-0.31, 0.61 (-1.50 to 0.89)</td>
<td>0.71, 0.19 (-0.36 to 1.78)</td>
<td>0.94, 0.11 (-0.22 to 2.11)</td>
</tr>
<tr>
<td>Disc area† (mm²)</td>
<td>0.72, 0.51 (-1.44 to 2.88)</td>
<td>-2.71, 0.052 (-5.44 to 0.02)</td>
<td>-0.51, 0.68 (-3.30 to 2.14)</td>
<td>1.77, 0.14 (-0.62 to 4.16)</td>
<td>0.12, 0.93 (-2.45 to 2.70)</td>
<td></td>
</tr>
<tr>
<td>Beta-PPA area† (mm²)</td>
<td>-0.70, 0.47 (-2.65 to 1.23)</td>
<td>-0.67, 0.58 (-3.06 to 1.71)</td>
<td>-1.39, 0.21 (-3.55 to 0.78)</td>
<td>1.29, 0.29 (-1.13 to 3.71)</td>
<td>-1.64, 0.13 (-3.77 to -0.48)</td>
<td>-0.82, 0.47 (-3.06 to 1.42)</td>
</tr>
<tr>
<td>Gamma-PPA area† (mm²)</td>
<td>-0.96, 0.50 (-3.77 to 1.84)</td>
<td>-1.77, 0.32 (-5.25 to 1.71)</td>
<td>-2.89, 0.09 (-6.17 to 0.40)</td>
<td>-1.93, 0.32 (-5.71 to 1.86)</td>
<td>-1.79, 0.26 (-4.96 to 1.37)</td>
<td>-2.87, 0.09 (-6.18 to 0.45)</td>
</tr>
<tr>
<td>Beta plus gamma-PPA in VD measurement area* (%)</td>
<td>-0.04, 0.50 (-0.17 to 0.08)</td>
<td>-0.03, 0.47 (-0.12 to 0.06)</td>
<td>-0.04, 0.28 (-0.12 to 0.03)</td>
<td>-0.10, 0.004 (-0.17 to -0.03)</td>
<td>-0.09, 0.03 (-0.17 to 0.0007)</td>
<td>-0.05, 0.046 (-0.19 to -0.09)</td>
</tr>
<tr>
<td>SSI (VD)</td>
<td>0.37, &lt;0.001 (0.22 to 0.51)</td>
<td>0.33, &lt;0.001 (0.14 to 0.51)</td>
<td>0.02, 0.79 (-0.14 to 0.19)</td>
<td>0.38, &lt;0.001 (0.19 to 0.56)</td>
<td>0.40, &lt;0.001 (0.23 to 0.57)</td>
<td>0.19, 0.04 (0.13 to 0.37)</td>
</tr>
<tr>
<td>R²</td>
<td>0.47</td>
<td>0.48</td>
<td>0.69</td>
<td>0.56</td>
<td>0.68</td>
<td>0.42</td>
</tr>
</tbody>
</table>

RNFLT = retinal nerve fiber layer thickness, IN = inferior nasal, IT = inferior temporal, ST = superior temporal, SN = superior nasal, B = regression coefficient, CI = confidence interval, PPA = parapapillary atrophy, VD = vessel density, SSI = signal strength index, *values in the corresponding sector to vessel density, †Magnification-corrected values.