Supplementary Information for

Ocular Perfusion Pressure and the Risk of Open-Angle Glaucoma:
Systematic Review and Meta-analysis

Ko Eun Kim¹, Sohee Oh², Sung Uk Baek³, Seong Joon Ahn⁴, Ki Ho Park⁵, Jin Wook Jeoung⁵

¹Department of Ophthalmology, Nowon Eulji Medical Center, Eulji University, Seoul, Republic of Korea
²Department of Biostatistics, Seoul National University Boramae Hospital, Seoul, Republic of Korea
³Department of Ophthalmology, Hallym University Sacred Heart Hospital, Hallym University College of Medicine, Anyang, Korea.
⁴Department of Ophthalmology, Hanyang University Hospital, Hanyang University College of Medicine, Seoul, Republic of Korea
⁵Department of Ophthalmology, Seoul National University Hospital, Seoul National University College of Medicine, Seoul, Republic of Korea
**Supplemental Table S1.** Pooled mean ocular perfusion pressure (OPP), intraocular pressure (IOP), and blood pressure (BP) difference between primary open-angle glaucoma (POAG; OAG patients with baseline IOP >21 mmHg) and normal-tension glaucoma (NTG; OAG patients with baseline IOP ≤21 mmHg) groups.

| POAG vs. NTG               | Number of studies | Pooled mean difference (POAG-NTG; mmHg) | Pooled standardized mean difference (POAG-NTG; mmHg) |
|----------------------------|-------------------|----------------------------------------|---------------------------------------------------|
| OPP                        |                   |                                        |                                                   |
| All studies                | 35                | -4.11 (-8.12 - -0.10)                  | -0.47 (-0.97 - 0.02)                               |
|                            |                   | *P = 0.045, I² = 92.6%*                | *P = 0.061, I² = 90.5%*                            |
| IOP                        |                   |                                        |                                                   |
| Studies provided with      |                   |                                        |                                                   |
| untreated IOP              | 18                | 8.34 (5.92 – 10.75)                    | 2.54 (1.59 – 3.49)                                |
|                            |                   | *P <0.001, I² = 95.2%*                 | *P <0.001, I² = 91.2%*                            |
| Studies provided with      |                   |                                        |                                                   |
| treated IOP                | 17                | 2.83 (1.31 – 4.36)                     | 0.84 (0.41 – 1.26)                                |
|                            |                   | *P <0.001, I² = 83.1%*                 | *P <0.001, I² = 77.3%*                            |
| BP                         |                   |                                        |                                                   |
| Studies provided with      |                   |                                        |                                                   |
| systolic BP                | 26                | 1.62 (-1.90 - 5.14)                    | 0.09 (-0.12 – 0.30)                               |
|                            |                   | *P = 0.367, I² = 43.1%*                | *P = 0.418, I² = 37.1%*                            |
| Studies provided with      |                   |                                        |                                                   |
| diastolic BP               | 26                | 1.40 (-1.34 – 4.14)                    | 0.14 (-0.10 – 0.38)                               |
|                            |                   | *P = 0.316, I² = 61.2%*                | *P = 0.258, I² = 51.7%*                            |
| Studies provided with      |                   |                                        |                                                   |
| mean arterial pressure     | 7                 | 0.43 (-4.71 – 5.57)                    | -0.04 (-0.52 – 0.44)                              |
|                            |                   | *P = 0.869, I² = 2.0%*                 | *P = 0.876, I² = 0.0%*                            |

95% confidence interval is in parentheses.

Statistical significance of *P* < 0.05 is indicated in bold.