

**Appendix Table A5.** Combined effect size for risk factors.

| Risk factors                                                  | Studies (n) | PACG cases (n) | Control group (n) | WMD/OR (95%CI)            | P      | I <sup>2</sup> (%) |
|---------------------------------------------------------------|-------------|----------------|-------------------|---------------------------|--------|--------------------|
| General morphological, physiological and lifestyle indicators |             |                |                   |                           |        |                    |
| Weight, kg                                                    | 2           | 119            | 1963              | -3.65 (-6.48 to -0.82)    | <0.05  | 0.0                |
| Height, cm                                                    | 2           | 108            | 275               | -0.03 (-3.60 to 3.54)     | 0.99   | 57.0               |
| BMI, kg/m <sup>2</sup>                                        | 7           | 1616           | 3533              | -0.16 (-0.45 to 0.13)     | 0.28   | 34.8               |
| SBP, mmHg                                                     | 6           | 784            | 671               | -0.55 (-2.03 to 0.94)     | 0.47   | 28.5               |
| DBP, mmHg                                                     | 6           | 784            | 671               | -0.91 (-2.51 to 0.70)     | 0.27   | 57.3               |
| Smoking, Y                                                    | 2           | 172            | 3536              | 0.77 (0.54 to 1.11)       | 0.16   | 36.1               |
| Drinking, Y                                                   | 2           | 172            | 3536              | 0.83 (0.53 to 1.29)       | 0.41   | 0.0                |
| Ophthalmic parameters                                         |             |                |                   |                           |        |                    |
| IOP, mmHg                                                     | 13          | 2881           | 409428            | 3.13 (2.37 to 3.89)       | <0.001 | 94.9               |
| ACD, mm                                                       | 10          | 466            | 6474              | -0.52 (-0.70 to -0.34)    | <0.001 | 97.0               |
| AL, mm                                                        | 11          | 505            | 6507              | -0.77 (-1.26 to -0.28)    | <0.01  | 98.0               |
| RNFL, μm                                                      | 3           | 114            | 144               | -21.23 (-30.21 to -12.25) | <0.001 | 86.4               |
| LT, mm                                                        | 6           | 207            | 4736              | 0.23 (-0.01 to 0.47)      | 0.06   | 88.4               |
| SE, D                                                         | 6           | 2636           | 403964            | 1.02 (0.66 to 1.38)       | <0.001 | 92.7               |
| CCT, μm                                                       | 4           | 2455           | 403680            | -1.53 (-12.56 to 9.50)    | 0.78   | 98.0               |
| Lens/axial length factor                                      | 2           | 112            | 519               | 0.02 (-0.02 to 0.05)      | 0.33   | 96.3               |
| Complications                                                 |             |                |                   |                           |        |                    |
| Cardiovascular disease, Y                                     | 2           | 48             | 214               | 0.73 (0.31 to 1.70)       | 0.46   | 24.0               |
| Migraine, Y                                                   | 2           | 3727           | 100912            | 1.07 (0.92 to 1.25)       | 0.36   | 0.0                |
| Cataract, Y                                                   | 2           | 3352           | 15958             | 3.77 (3.46 to 4.11)       | <0.05  | 70.5               |
| Ischemic heart disease, Y                                     | 2           | 4439           | 17756             | 0.93 (0.85 to 1.02)       | 0.10   | 0.0                |
| Hyperlipidemia, Y                                             | 2           | 4439           | 17756             | 1.10 (1.02 to 1.20)       | <0.05  | 0.0                |
| Diabetes, Y                                                   | 9           | 6040           | 25454             | 1.12 (0.90 to 1.40)       | 0.31   | 62.4               |
| Hypertension, Y                                               | 10          | 6058           | 24267             | 0.97 (0.90 to 1.04)       | 0.36   | 0.0                |
| Serological parameters                                        |             |                |                   |                           |        |                    |

|                       |   |      |       |                         |       |      |
|-----------------------|---|------|-------|-------------------------|-------|------|
| TC, mmol/L            | 3 | 470  | 392   | 0.21 (-0.26 to 0.67)    | 0.67  | 93.2 |
| TG, mmol/L            | 3 | 470  | 392   | 0.17 (0.06 to 0.27)     | <0.01 | 27.0 |
| MDA, $\mu$ mol/L      | 2 | 144  | 139   | 12.69 (-11.10 to 36.48) | 0.30  | 97.6 |
| UA, mmol/L            | 2 | 986  | 1094  | -0.02 (-0.04 to 0.003)  | 0.10  | 67.2 |
| TAS, mmol/L           | 2 | 233  | 238   | -0.11 (-0.37 to 0.16)   | 0.43  | 97.0 |
| <b>Medication use</b> |   |      |       |                         |       |      |
| Antidepressant, Y     | 2 | 7587 | 10938 | 1.36 (1.08 to 1.70)     | <0.01 | 49.2 |
| Sulfa-based drugs, Y  | 2 | 2671 | 20008 | 0.97 (0.85 to 1.11)     | 0.69  | 48.9 |

OR = odds ratio; SMD = standardized mean difference; Y = yes; n = number of included studies; SBP = systolic blood pressure; DBP = diastolic blood pressure; IOP = intraocular pressure; ACD = anterior chamber depth; AL = axial length; LT = lens thickness; SE = spherical equivalent; CCT = central corneal thickness; RNFL = retinal nerve fiber layer; MDA = malondialdehyde; UA = uric acid; TC = total cholesterol; TG = triglyceride; TAS = total antioxidant status.