Appendix Table A6. The certainty of the evidence for potential risk factors by GRADE assessment.

Variables	Study limitations[1]	Publication bias[2]	Indirectness[3]	Imprecision or sparse data[4]	Heterogeneity[5]	Incoherence[6]	Confidence rating
General morphological, physiological and lifestyle indicators							
Weight, kg	Major concerns	Undetected	None	Major concerns	None	Some concerns	⊕◯◯◯ (very low)
Height, cm	Major concerns	Undetected	None	Major concerns	Some concerns	Major concerns	⊕◯◯◯ (very low)
BMI, kg/m^2	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
SBP, mmHg	Major concerns	Undetected	Some concerns	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
DBP, mmHg	Major concerns	Undetected	Some concerns	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
Smoking, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Drinking, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Ophthalmic parameters							
IOP, mmHg	Major concerns	None	None	Major concerns	Major concerns	None	⊕◯◯◯ (very low)
ACD, mm	Major concerns	None	None	Major concerns	Major concerns	Some concerns	⊕◯◯◯ (very low)
AL, mm	Major concerns	Major concerns	None	Major concerns	Major concerns	Some concerns	⊕◯◯◯ (very low)
RNFL, μm	Major concerns	Undetected	None	Major concerns	Major concerns	None	⊕◯◯◯ (very low)
LT, mm	Major concerns	Undetected	None	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
SE, D	Major concerns	Undetected	Some concerns	Major concerns	Major concerns	Some concerns	⊕◯◯◯ (very low)
CCT, μm	Major concerns	Undetected	None	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)

Lens/axial length factor	Major concerns	Undetected	None	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
Complications							
Cardiovascular disease, Y	Major concerns	Undetected	Some concerns	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Migraine, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Cataract, Y	Major concerns	Undetected	None	Major concerns	Major concerns	None	⊕◯◯◯ (very low)
Ischemic heart disease, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Hyperlipidemia, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Diabetes, Y	Major concerns	Undetected	None	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
Hypertension, Y	Major concerns	None	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)
Serological parameters							
TC, mmol/L	Major concerns	Undetected	Major concerns	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
TG, mmol/L	Major concerns	Undetected	Major concerns	Major concerns	None	Some concerns	⊕◯◯◯ (very low)
MDA, μmol/L	Major concerns	Undetected	Some concerns	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
UA, mmol/L	Major concerns	Undetected	Major concerns	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
TAS, mmol/L	Major concerns	Undetected	Major concerns	Major concerns	Major concerns	Major concerns	⊕◯◯◯ (very low)
Medication use							
Antidepressant, Y	Major concerns	Undetected	None	Major concerns	None	Some concerns	⊕◯◯◯ (very low)
Sulfa-based drugs, Y	Major concerns	Undetected	None	Major concerns	None	Major concerns	⊕◯◯◯ (very low)

Y = yes; n = number or 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.

All judgements start from "low", due to the vast inclusion of non-randomized studies.

1.Study limitations: majority of studies having a high risk of bias or the minority of studies having a prospective study design;

2.Publication bias: judged by egger test and funnel plots; For the results of less than 10 studies, the existence of publication bias could not be determined, so it was not considered sufficient to downgrade the quality of evidence.

3.Indirectness: not fully representative population, no definite diagnosis of PACG as outcome;

4.Imprecision or sparse data: less than 10 revision surgeries per study, or unadjusted result;

5.Heterogeneity: $I^2 > 50\%$;

6.Incoherence: 95% confidence intervals of the effect size includes 1 for categorical variables and that in

cludes 0 for continuous variables; or study findings with low effect sizes, unless upper limit of 95% confidence intervals of risk estimate <0.5 for categorical variables and <-2 for continuous variables, or lower limit 95% confidence intervals risk estimate >2.