**Appendix:**

PVP (Phacotrabeculectomy versus Phacogoniotomy) study group

The PVP study group consisted of eight top-ranked ophthalmic institutes or tertiary hospitals in China, and is aiming to investigate the safety and efficacy of combined MIGS for PACG, which has highly popularity in Asia. A randomized controlled trial is ongoing to comparing the surgical outcomes of phacotrabeculectomy and phacogoniotomy (i.e., PEI+GSL+GT) (Clinicaltrials.gov; identifier: NCT04878458).

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