A. Distribution for IOP reduction rate in all patients

B. Distribution for IOP reduction rate in NTG group

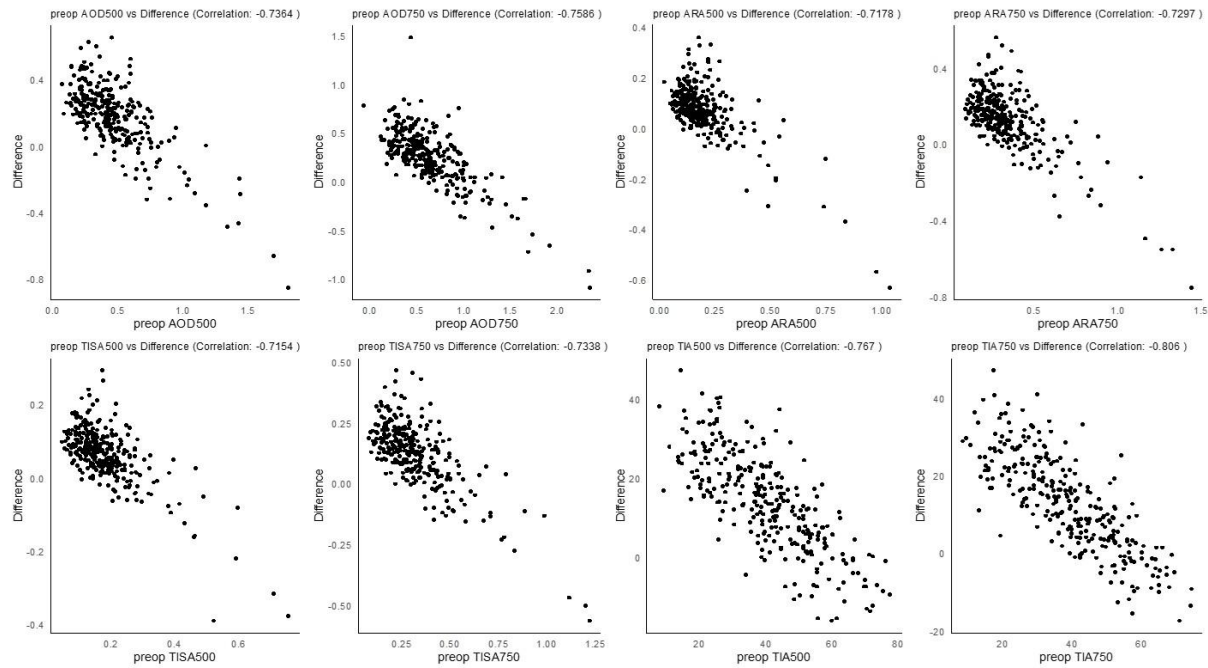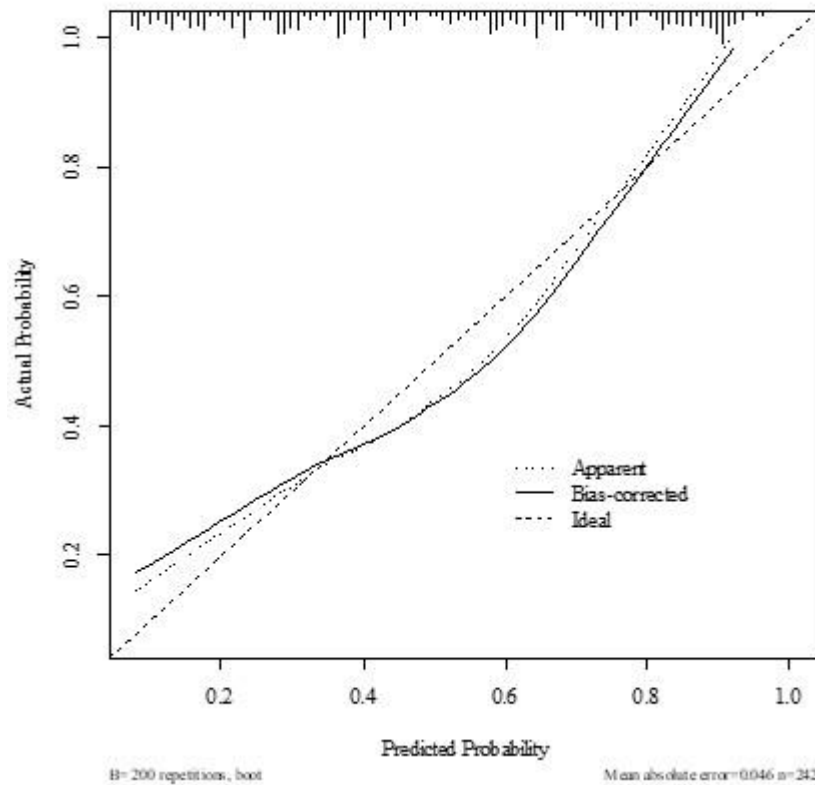**Supplementary Figure S1. Distribution for IOP reduction rate**

Supplementary Figure S2. Scatter plot of angle difference before and after surgery

The relationship between pre-operative angle parameters and angle differences before and after surgery was evaluated (N=292). All anterior chamber angle parameters exhibit strong inverse correlations with postoperative changes ($r \approx -0.70$ to -0.80), suggesting that narrower preoperative angles are associated with more pronounced anatomical widening following surgery.

AOD, angle opening distance; ARA, angle recess area; TISA, trabecular-iris space area; TIA, trabecular iris angle.

Supplementary Figure S3. Calibration plot of the predictive nomogram

The calibration curve demonstrates good agreement between predicted and observed probabilities of achieving ≥10% IOP reduction at 6 months postoperatively. The bias-corrected line closely follows the ideal 45-degree reference, indicating accurate calibration. A slight overestimation was noted at lower predicted probabilities and minor underestimation in the mid-range; however, the overall mean absolute error was 0.046, reflecting satisfactory calibration and robust predictive performance of the model.

IOP, intraocular pressure