

Supplementary Table S1. Univariate and multivariate mixed-effects models showing the factors associated with postoperative changes of BOS and RI

	BOS (Univariate)	BOS (Multivariate)	RI (Univariate)	RI (Multivariate)
	Coefficient (SE), P value	Coefficient (SE), P value	Coefficient (SE), P value	Coefficient (SE), P value
Time (months)	0.040 (0.22), 0.85		-0.0001 (0.0029), 0.97	
Sex (male vs. female)	2.9 (1.6), 0.07		-0.030 (0.018), 0.10	
Glaucoma type (POAG vs. XFG)	-3.3 (1.7), 0.048		0.029 (0.019), 0.13	
Hypertension	-0.43 (1.6), 0.79		0.0085 (0.019), 0.65	
Number of preoperative antiglaucoma medications	-1.5 (1.0), 0.16		0.014 (0.012), 0.25	
Age (year)	-0.074 (0.093), 0.43	-0.13 (0.05), 0.006	0.00075 (0.0011), 0.48	0.0014 (0.0006), 0.03
Baseline axial length (mm)	0.067 (0.66), 0.92		-0.00075 (0.0075), 0.92	
Baseline mean deviation (dB)	0.19 (0.13), 0.15	-0.18 (0.07), 0.009	-0.0012 (0.0015), 0.43	0.0026 (0.0009), 0.005
Baseline values of dependent variables (AU)	-0.55 (0.070), <0.001	-0.50 (0.06), <0.001	-0.47 (0.079), <0.001	-0.43 (0.07), <0.001
Baseline average MBR (AU)	0.39 (0.32), 0.23		-0.0040 (0.0037), 0.29	
Average MBR change (AU)	0.20 (0.25), 0.43		-0.0012 (0.0033), 0.72	
IOP change (mmHg)	-0.44 (0.074), <0.001	-0.29 (0.06), <0.001	0.0055 (0.0009), <0.001	0.0037 (0.0007), <0.001
<u>MAP change (mmHg)</u>	<u>-0.010 (0.025), 0.68</u>		<u>0.00014 (0.0003), 0.68</u>	
PR change (beats/min)	0.18 (0.024), <0.001	0.17 (0.02), <0.001	-0.0025 (0.0003), <0.001	-0.0024 (0.0003), <0.001

BOS = blow out score, RI = resistivity index, SE = standard error, POAG = primary open angle glaucoma, XFG = exfoliation glaucoma, AU=arbitrary unit, MBR = mean blur rate, IOP = intraocular pressure, MAP = mean arterial pressure, PR = pulse rate.
Blank cells indicate the variables not retained in the final models.