

**Supplemental table 1. Number of eyes with IOP increase at each time point**

	Total	1wk FU	1mo FU	3mo FU	6mo FU	1yr FU
No. of eyes	14	0	5	5	3	1

No=number, FU=follow up, wk=week, mo=month, yr=year.

**Supplemental table 2.** Association between IOP increase and inferior TISA750

<b>Independent variables</b>	<b>OR</b>	<b>95%CI</b>	<b>P value</b>
Age, year	1.05	(0.95, 1.16)	0.345
Gender, with male as control	0.14	(0.03, 0.72)	<b>0.018</b>
AL, mm	0.61	(0.11, 3.34)	0.568
i_TISA750, $\mu\text{m}^2\#$	0.99	(0.95, 1.02)	0.432
PD, mm	1.24	(0.49, 3.15)	0.649
ACW, mm	3.24	(0.11, 91.76)	0.491
IT750, $\mu\text{m}$	1.01	(1.00, 1.03)	0.117
LV, mm	0.05	(0.00, 7.00)	0.240

#TISA750\*1000 was used to better present the result.

AL=axial length, TISA750= trabecular-iris space area 750 $\mu\text{m}$  from scleral spur,

PD=pupil diameter, ACW=anterior chamber width, IT750= iris thickness 750 $\mu\text{m}$  from scleral spur, LV= lens vault

**Supplemental table 3.** Association between IOP increase and superior TISA750

<b>Independent variables</b>	<b>OR</b>	<b>95%CI</b>	<b>P value</b>
Age, year	1.05	(0.94, 1.16)	0.395
Gender, with male as control	0.09	(0.01, 0.52)	<b>0.008</b>
AL, mm	0.44	(0.07, 2.73)	0.375
s_TISA750, $\mu\text{m}^2\#$	0.98	(0.94, 1.03)	0.409
PD, mm	0.91	(0.25, 3.34)	0.882
		(0.07,	
ACW, mm	2.82	106.86)	0.576
IT750, $\mu\text{m}$	1.02	(0.99, 1.04)	0.138
LV, mm	0.20	(0.00, 36.01)	0.545

#TISA750\*1000 was used to better present the result.

AL=axial length, TISA750= trabecular-iris space area 750 $\mu\text{m}$  from scleral spur,  
PD=pupil diameter, ACW=anterior chamber width, IT750= iris thickness 750 $\mu\text{m}$  from  
scleral spur, LV= lens vault

**Supplemental table 4.** Association between IOP increase and nasal TISA750

<b>Independent variables</b>	<b>OR</b>	<b>95%CI</b>	<b>P value</b>
Age, year	1.07	(0.97, 1.18)	0.206
Gender, with male as control	0.16	(0.03, 0.79)	<b>0.024</b>
AL, mm	0.54	(0.09, 3.16)	0.491
n_TISA750, $\mu\text{m}^2\#$	0.99	(0.96, 1.01)	0.252
PD, mm	1.27	(0.49, 3.32)	0.625
ACW, mm	2.48	(0.08, 76.09)	0.604
IT750, $\mu\text{m}$	1.01	(1.00, 1.03)	0.155
LV, mm	0.07	(0.00, 6.36)	0.244

#TISA750\*1000 was used to better present the result.

AL=axial length, TISA750= trabecular-iris space area 750 $\mu\text{m}$  from scleral spur,

PD=pupil diameter, ACW=anterior chamber width, IT750= iris thickness 750 $\mu\text{m}$  from scleral spur, LV= lens vault

**Supplemental table 5.** Association between IOP increase and temporal TISA750

<b>Independent variables</b>	<b>OR</b>	<b>95%CI</b>	<b>P value</b>
Age, year	1.09	(0.97, 1.21)	0.138
Gender, with male as control	0.16	(0.03, 0.72)	<b>0.018</b>
AL, mm	0.87	(0.19, 3.96)	0.855
t_TISA750, $\mu\text{m}^2\#$	0.98	(0.96, 1.00)	0.046
PD, mm	1.22	(0.47, 3.18)	0.686
ACW, mm	1.77	(0.07, 43.10)	0.725
IT750, $\mu\text{m}$	1.01	(0.99, 1.03)	0.210
LV, mm	0.06	(0.00, 5.39)	0.220

#TISA750\*1000 was used to better present the result.

AL=axial length, TISA750= trabecular-iris space area 750 $\mu\text{m}$  from scleral spur,

PD=pupil diameter, ACW=anterior chamber width, IT750= iris thickness 750 $\mu\text{m}$  from scleral spur, LV= lens vault