

## Supplementary Materials

**Table S1.** Changes of Pentacam parameters versus to pre-operation group.

	Pre-op	Week 2		Week 4		Week 8	
	Mean±SD	Mean±SD	P-value	Mean±SD	P-value	Mean±SD	P-value
Km F,D	47.1±0.9	47.1±1.4	0.975	47.2±1.4	0.878	48.8±4.1	0.369
Km B,D	-6±0.1	-5.8±0.2	0.187	-6.5±0.4	0.047	-6.7±0.7	0.045
Kmax F,D	48.9±1.59	52.1±3.39	0.099	52.8±3.87	0.079	55.4±5.54	0.054
CCT, µm	373±18.9	244.4±56.6	0.002	244±45.8	0	289±40.0	0.003
PCE, µm	16.8±7.6	57.6±27.8	0.03	54.8±25.1	0.014	53±23.4	0.016
C.Vol D 3mm, mm <sup>3</sup>	2.85 (2.6, 2.9)	2.46±0.10	0.028	2.1±0.24	0.027	2.36±0.21	0.026
C.Vol D 5mm, mm <sup>3</sup>	7.95±0.39	7.04±0.16	0.003	6.28±0.59	0	7.06±0.56	0.001
C.Vol D 7mm, mm <sup>3</sup>	16.42±0.8	14.78±0.33	0.001	13.82±1.03	0.001	15.4±1.04	0.015
C.Vol D 10mm, mm <sup>3</sup>	36.5±1.37	34.04±1.5	0	33.1±1.69	0.003	36.96±2.47	0.551
ISV	22±8.36	46.2±17.15	0.04	52.5 (50, 69.55)	0.028	71.6±18.67	0.002
IVA	0.21±0.12	0.43±0.22	0.099	0.63 (0.54, 0.79)	0.028	0.72±0.22	0.002
IHD	0.02±0.01	0.05±0.03	0.098	0.07 (0.05, 0.10)	0.028	0.10±0.05	0.007

**Table S2.** Changes of SD-OCT parameters versus to pre-operation group.

	Pre-op	Week 2		Week 4		Week 8	
	Mean±SD	Mean±SD	P-value	Mean±SD	P-value	Mean±SD	P-value
CCT, µm	380.5±17.1	299.3±54.5	0.01	289.8±33.9	0	310±44.5	0.004
CET, µm	48.1±3.8	57±11	0.073	48.1±6.9	1	61.3±4.8	0.001
CCT 3mm annulus, µm	382.7±16.7	312.7±36.5	0.003	304.7±32.2	0.001	325.2±30	0.003
CET 3mm annulus, µm	48.7±2.5	54±5.9	0.135	47.3±4.5	0.379	55.2±2.6	0.015

**Table S3.** Changes of Corvis ST parameters versus to pre-operation group.

	Pre-op	Week 2		Week 4		Week 8	
	Mean±SD	Mean±SD	P-value	Mean±SD	P-value	Mean±SD	P-value
IOP, mmHg	13.67±2.78	12.9±4.61	0.748	14±2.57	0.852	15.2±1.91	0.39
CCT, µm	380.3±19.3	347±24.48	0.022	280.2±23.3	0	303.4±44.54	0.004
A1V, m/s	0.12±0.02	0.13±0.01	0.756	0.15 (0.13, 0.17)	0.046	0.13±0.02	0.803
HCR, mm	4.39±0.49	3.81±0.08	0.048	3.81±0.60	0.141	3.84±0.44	0.039
HC-PD, mm	4.19±0.34	4.19±0.1	0.981	4.49±0.20	0.042	4.43±0.12	0.096
A1 Defl Amp, mm	0.10±0.01	0.10±0.02	0.989	0.11±0.01	0.093	0.12±0.01	0.005
HC Defl Amp, mm	0.70±0.09	0.72±0.05	0.691	0.90±0.07	0.001	0.85±0.06	0.014
A2 Defl Amp, mm	0.12±0.01	0.12±0.01	0.14	0.14±0.03	0.307	0.18±0.1	0.211
Defl Amp Max, mm	0.77±0.09	0.76±0.05	0.894	0.91±0.07	0.004	0.91±0.11	0.009
InvRadMax, mm <sup>-1</sup>	0.27±0.014	0.29±0.01	0.03	0.32±0.04	0.076	0.31±0.02	0.003

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<b>IR, mm<sup>-1</sup></b>	12.14±0.87	13.61±1.11	0.013	15.24±1.89	0.007	(12.64,14.3)	0.046
<b>DAR 2 mm</b>	4.17±0.34	4.62±0.14	0.008	5.41±0.94	0.028	4.75±0.66	0.153

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