

**Table S1.** Keratoconus screening indices (n=33).

	Preoperative	M6	$\Delta$	P-value*
<b>Anterior surface</b>				
<b>SIF</b>	10.31 $\pm$ 3.14	6.42 $\pm$ 3.08	-3.89 $\pm$ 2.83	<b>&lt;0.001</b>
<b>3 mm (D)</b>	[3.14 to 15.69]	[0.71 to 12.94]	[-11.79 to 0.73]	
<b>RMS/A</b>	0.37 $\pm$ 0.11	0.31 $\pm$ 0.09	-0.06 $\pm$ 0.09	<b>&lt;0.001</b>
<b>6 mm (<math>\mu\text{m}/\text{mm}^2</math>)</b>	[0.11 to 0.60]	[0.13 to 0.51]	[-0.26 to 0.17]	
<b>KvF (<math>\mu\text{m}</math>)</b>	45.36 $\pm$ 14.81 [12.60 to 80.60]	39.89 $\pm$ 12.46 [17.30 to 74.70]	-5.46 $\pm$ 9.69 [-28.90 to 8.60]	<b>&lt;0.001</b>
<b>CSIF (D)</b>	3.62 $\pm$ 2.09 [-0.62 to 7.53]	0.81 $\pm$ 2.38 [-4.84 to 4.43]	-2.81 $\pm$ 2.06 [-7.61 to 1.06]	<b>&lt;0.001</b>
<b>EIF (<math>\mu\text{m}</math>)</b>	45.33 $\pm$ 14.79 [12.63 to 80.56]	33.57 $\pm$ 14.53 [1.53 to 60.63]	-11.76 $\pm$ 19.13 [-75.99 to 8.59]	<b>&lt;0.001</b>
<b>EIF Axis (<math>^\circ</math>)</b>	259.30 $\pm$ 30.42 [201.00 to 319.00]	127.00 $\pm$ 29.49 [49.00 to 356.00]	-132.30 $\pm$ 25.44 [-74.00 to 52.00]	0.17
<b>Posterior surface</b>				
<b>SIB</b>	1.86 $\pm$ 0.68	-0.14 $\pm$ 0.89	-2.00 $\pm$ 0.68	<b>&lt;0.001</b>
<b>3 mm (D)</b>	[0.67 to 3.70]	[-2.09 to 1.55]	[-3.79 to -0.38]	
<b>RMS/A</b>	0.80 $\pm$ 0.27	1.07 $\pm$ 0.32	-0.26 $\pm$ 0.22	<b>&lt;0.001</b>
<b>6 mm (<math>\mu\text{m}/\text{mm}^2</math>)</b>	[0.30 to 1.50]	[0.71 to 2.05]	[-0.24 to 0.87]	
<b>KvB (<math>\mu\text{m}</math>)</b>	89.82 $\pm$ 25.52 [37 to 131.50]	73.36 $\pm$ 29.74 [27.10 to 136.70]	-16.46 $\pm$ 24.99 [-68.00 to 25.70]	<b>&lt;0.001</b>
<b>CSIB (D)</b>	1.22 $\pm$ 0.81 [0.04 to 3.22]	1.90 $\pm$ 0.79 [0.03 to 3.69]	0.68 $\pm$ 0.52 [-1.15 to 1.59]	<b>&lt;0.001</b>
<b>EIB (<math>\mu\text{m}</math>)</b>	89.82 $\pm$ 25.52 [36.95 to 131.48]	62.71 $\pm$ 38.94 [8.35 to 136.71]	-27.11 $\pm$ 28.80 [-99.81 to 21.83]	<b>&lt;0.001</b>
<b>EIB Axis (<math>^\circ</math>)</b>	260.79 $\pm$ 31.48 [215.00 to 318.00]	244.33 $\pm$ 71.27 [49.00 to 356.00]	-16.45 $\pm$ 69.22 [-269.00 to 100.00]	0.09

\*Wilcoxon signed-rank test. All values are presented as the mean  $\pm$  standard deviation and [range]. Significant results are indicated in bold. M6: 6 months after surgery;  $\Delta$ : difference between values obtained six months after surgery and those obtained before surgery; D = diopters; SIF: symmetry index front; RMA/A = root mean square per unit of area; KvF = position and elevation of the highest point of ectasia on the anterior corneal surface; CSIF = center surrounding index of the anterior curvature ; EIF = ectatic index of the anterior surface; SIB: symmetry index back; KvB = position and elevation of the highest point of ectasia on the posterior corneal surface; CSIB = center surrounding index of the posterior curvature ; EIB = ectatic index of the posterior surface