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**Poster:** 208      **Session:** 2008      **BEST POSTER**

**Title:** **SOE: Endothelial Cell Density and Morphology Following Implantation of the AcrySof Angle-Supported Phakic IOL**

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**Topic:** Refractive Surgery

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**Abstract:** **Purpose:** To evaluate corneal endothelium after implantation of a phakic IOL. **Methods:** Central and peripheral endothelium was analyzed with Konan Noncon Robo specular microscope in 360 eyes preop, 6 months, and 1 and 2 years after implantation of the AcrySof anterior chamber phakic IOL. **Results:** Central and peripheral annualized endothelial cell density (ECD) changes at 2 years (from 6 months) were  $0.04\% \pm 3.8\%$  ( $n = 197$ ) and  $-0.31\% \pm 5.1\%$  ( $n = 191$ ) per year, respectively. Central hexagonality was  $58\% \pm 5.8\%$  ( $n = 204$ ) at 2 years vs.  $57.6\% \pm 6.3\%$  ( $n = 358$ ) preop. Central coefficient of variation was  $32.3 \pm 3.8$  ( $n = 204$ ) at 2 years and  $33.2 \pm 4.6$  ( $n = 358$ ) preop. **Conclusion:** AcrySof phakic IOL had minimal impact on ECD and cell morphology at 2 years follow-up.

**Disclosure:** **Michael C Knorz MD:** Alcon Laboratories, Inc.: C,L; Advanced Medical Optics: C,L,O;