



## The Annual ACES/SEE Caribbean Eye Meeting delves into hot topics for anterior segment surgeons and health care professionals.

From January 31 to February 3, 2020, the upcoming Caribbean Eye Meeting promises to be as engaging as in previous years. This one-of-a-kind meeting, held at Grand Fiesta Americana Coral Beach in Cancun, Mexico, will gather well-known leaders in ophthalmology to discuss important topics in eye care against the breathtaking backdrop of the Caribbean Sea. The American College of Eye Surgeons (ACES) and the American Board of Eye Surgery (ABES) were started in 1989, with ACES as the educational arm. ABES began to ensure quality surgery throughout the United States, and its efforts were taken internationally 13 years ago. ACES and ABES, along with the Society for Excellence in Eyecare (SEE), are proud to be entering the 30th annual meeting! Together, ACES, ABES, and SEE share a commitment to the belief that the primary focus for today's ophthalmologist must, and should, be to promote, encourage, and enhance quality ophthalmic surgical care for the benefit of all patients.

### PEARLS FROM THE DEEP: EMBRACING NEW TECHNOLOGY



By Denise M. Visco, MD, MBA; and P. Dee G. Stephenson, MD, FACS  
Meticulous high-quality

preoperative measurements are key to success with refractive cataract surgery, but when new technologies promise to improve patient results, practices often struggle to adapt. Surgeons want to know whether a new device or measurement will actually improve results. Furthermore, preoperative measurements depend not only upon the quality of the corneal surface but also upon technician skill level and practice workflow. With the introduction of newer formulas for calculating posterior corneal astigmatism and devices for direct measurement, what to trust becomes a real question. If one device or method delivers superior outcomes, a practice may use its resources and systems differently.

Our goal was to compare the effectiveness of the IOLMaster 700 with Total Keratometry (IOLMaster 700 TK, Carl Zeiss Meditec) to that of the standard protocols for treating astigmatism at two different practices—placement of a toric IOL at one (P.D.G.S.) and arcuate incisions at the other (D.M.V.). We performed a retrospective chart review that included

19 healthy eyes that underwent laser cataract surgery using iris-registered marks for toric IOL placement and 19 healthy eyes that underwent laser cataract surgery using iris-registered arcuate incisions. BCVA was less than 20/30 in all eyes. The primary outcome measure was residual refractive astigmatism 4 to 6 weeks after surgery. We used regression analysis<sup>1</sup> to compare actual residual refractive cylinder with simulated residual refractive cylinder using the IOLMaster 700 TK values.

Results for the toric IOL group did not suggest a statistically significant difference between methods. The results were the same for the arcuate incision group, indicating that the difference between standard practice methods and results with the IOLMaster 700 TK was not statistically significant. That said, there was a trend toward better outcomes in the arcuate incision group with the IOLMaster 700 TK.

The results of this study were extremely important for both practices. First, we showed that iris registration-guided laser arcuate incisions or marks performed during cataract surgery effectively guide astigmatism treatment. Second, with surgical planning, topographical data of the best quality and reproducibility can be submitted regardless of the device used,

which saves our patients and our staff time by avoiding repeat studies. Using the IOLMaster 700 TK should provide similar or possibly better outcomes for our patients undergoing refractive cataract surgery, but further study involving larger numbers of patients is required. ■

1. Hill W, Osher R, Cooke D, et al. Simulation of toric intraocular lens results: manual keratometry versus dual zone automated keratometry from an integrated biometer. *J Cataract Refract Surg.* 2011;37(12):2181-2187.

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To learn more about the 2020 Caribbean Eye Meeting and register to attend, visit

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