

Simulation of toric intraocular lens results: Manual keratometry versus dual-zone automated keratometry from an integrated biometer

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PURPOSE: To evaluate simulated clinical outcomes in patients with toric intraocular lenses (IOLs) calculated on the basis of dual-zone automated keratometry from an integrated optical biometer, relative to manual keratometry.

SETTING: Private practice, Mesa, Arizona, USA.

DESIGN: Comparative case series.

METHODS: Patient records at 4 clinical sites were reviewed to identify patients who had manual keratometry and biometry with the Lenstar LS 900 recorded before toric IOL implantation and refractive follow-up data after implantation. Preoperative and operative data were extracted from patient charts. Simulated refractive outcomes were calculated based on mathematically removing the actual IOL implanted and then mathematically inserting the IOLs as determined by manual or automated keratometry from the biometer device.

RESULTS: Data for 128 patients were available for analysis. The actual residual astigmatism was comparable between manual keratometry and automated keratometry from the biometer system. Although simulated residual refractive astigmatism was similar between the 2 devices on average, there was variability in results by patient. Simulated residual refractive astigmatism was lower for the biometer when the standard deviation of the angle of astigmatism was low. Site-to-site variability was lower with the biometer than with manual keratometry.

CONCLUSIONS: Simulated outcomes suggest that overall results for a group of patients whose toric IOL surgery planning is performed with the dual-zone automated keratometry data from the biometer will be equivalent to those when manual keratometry is used. The reduced site-to-site variability with the biometer suggests an operational advantage.

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For several years, it has been possible to use toric intraocular lenses (IOLs) to correct existing corneal astigmatism at the time of cataract surgery. Use of a toric IOL was first reported by Shimizu et al. in 1994.¹ The successful use of a toric IOL involves measuring the existing anterior corneal astigmatism, accounting for any astigmatism induced by the surgical incision, and implanting the toric IOL at the appropriate angle to compensate for the combined preoperative and surgically induced astigmatism (SLA). Rotational stability is also important.

There are numerous methods to measure corneal astigmatism. In the case of the Acrysof toric IOL, the

original study conducted for the U.S. Food and Drug Administration approval relied on manual keratometry to determine the corneal astigmatism. As such, manual keratometry has been advocated as a preferred methodology for corneal astigmatism measurement.²

Early research comparing manual keratometry and automated keratometry suggested that manual keratometry was the gold standard.³ Later studies indicated that manual and automated keratometry produce comparable results, although with less variability in the automated results.⁴ This change is likely related to improvements in the technology of automated keratometers. In the area of cataract surgery,

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