



ACROSS THE POND

Tidbits from what your international colleagues are reading in *CRST Europe*.

SURGERY SENSE



A STEP TOWARD EXCELLENCE IN CORNEAL REFRACTIVE SURGERY

By Mohamed Shafik Shaheen, MD, PhD

Case examples demonstrate how the combination of the precise aberrometry measurements provided by the iDesign Advanced WaveScan Studio System and treatment with the Star S4 IR excimer laser (both from Abbott Medical Optics) allows refractive surgeons to perform wavefront-guided LASIK with excellent safety, efficacy, and predictability in myopic eyes, preserving the visual quality of the eye.

<http://crstodayeurope.com/2015/07/a-step-toward-excellence-in-corneal-refractive-surgery>



MANAGING RESIDUAL REFRACTIVE ERRORS AND POSTOPERATIVE ASTIGMATISM

By Jill S. Zaveri, MD, and Jonathan B. Rubenstein, MD

Factors contributing to residual refractive errors can include errors in the assessment of axial length and corneal power, an unknown history of prior refractive surgery, incorrect IOL placement or positioning, and residual regular or irregular corneal astigmatism. With proper assessment, surgeons can counsel patients on their surgical options and set appropriate expectations.

<http://crstodayeurope.com/2015/07/managing-residual-refractive-errors-and-postoperative-astigmatism>

MEASURING OCULAR PARAMETERS



PHYSICS LESSON: DIFFERENCES IN PCI AND OLCR OPTICAL BIOMETRY

By David Goldblum, MD

With ever-evolving lens designs and patients' rising expectations, having the best possible measurements is key to successful surgery with satisfactory refractive results and happy patients. Both partial coherence interferometry and optical low coherence reflectometry biometry are based on laser interferometry. These technologies differ in two fundamental details, however: their light sources and the optical setup of their interferometers.

<http://crstodayeurope.com/2015/07/physics-lesson-differences-in-pci-and-olcr-optical-biometry>



HOW CAN YOU GET THE MOST OUT OF COMBINED BIOMETRY DEVICES?

By Alberto Domínguez-Vicent, MSc, and Alejandro Cerviño, PhD

The available devices combining different forms of anterior segment imaging and ocular biometry are quite varied, and all have been reported individually to perform well. Such technologies have the potential for further applications individually, and it is therefore to be expected that these combinations will expand the possibilities in preoperative evaluation. ■

<http://crstodayeurope.com/2015/07/how-can-you-get-the-most-out-of-combined-biometry-devices>