Custom Soft Lenses Improve Acuity Beyond Expectations

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BT is a 31-year-old female who was referred to Knightdale Eye Care to complete diagnostic testing for a potential Multiple Sclerosis diagnosis. The testing showed no history of optic neuritis so the focus shifted to optical correction with contact lenses in hopes to improve the complaints of consistent general blur she's had over the last year.

The spectacle lenses prescribed were:
OD -1.00-2.00x035 20/25-2
OS Plano-2.75x141 20/30-2

The keratometry readings were consistent with the spectacle astigmatism found:
OD 42.25/43.75
OS 41.50/43.75

The office initially tried Duette lenses from SynergEyes. The hybrid design was comfortable, but the acuity was measured at 20/40 OD and 20/50 OS and since there was residual astigmatism that the lens could not correct for, the vision was unsatisfactory for the patient.

Knowing that spherical GP optics required correction for residual cylinder and would likely lead to the need for a front toric, prism ballasted lens, it was decided to try our custom soft lens, Intelliwave Aspheric Toric, in Definitive silicone hydrogel. The initial lenses were ordered as:
OD 8.80 14.50 -1.00-1.75x035
OS 8.80 14.50 Plano-2.50x141

After one small adjustment bringing the OS base curve to 8.60mm, the lenses were finalized with 20/15 vision OU. The improvement in the acuity was the best results the patient ever had. She claimed she'd, "never seen anything this small in all her life"

The Intelliwave design utilizes Wavefront Technology which helps improve and sharpen vision, minimize blur caused by slight rotation, reduce glare from larger pupils and mask low levels of astigmatism. The ability to customize the base curve, diameter and ballasting system to the needs of each individual patient's corneal shape and size as well as lid structure offers infinite possibilities.

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