

## Presbyopic Options for the Post LASIK Patient

History: Patient JG, age 48, is a post Lasik patient. Surgery was done in August of 1998. Patient's original keratometer and spectacle refraction from 1997 was as follows:

OD: 43.87/43.50, -4.25+1.25x010  
OS: 43.87/43.62, -4.75+0.50x170  
VA 20/20 OU

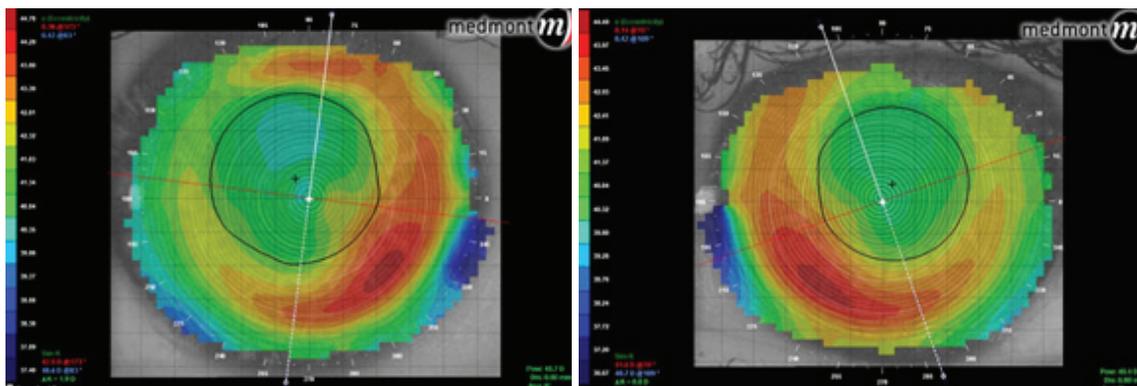
Patients 2003 post-surgical information is as follows:

OD -0.75+0.75x010  
OS -0.50+0.50x10  
VA 20/20 OU

The most recent spectacle refraction from 2008 was:

OD -0.75+1.00x010  
OS -1.00+0.75x180  
Add +1.75 OU.

Topography from 2010 is as follows:



Since the Lasik surgery, the patient experienced aberrations with some haloeing at night.

She was unsuccessful with Clasik CN due to centering issues and the Lasik treatment zone being slightly decentered along with a displaced apex.

Our next option was trying a reverse geometry corneal scleral lens design with an OD modified monovision for near work as the OS was noted as being dominant. The material chosen was Optimum Extra with Plasma treatment for comfort and wettability.

The final parameters are as follows:

OD: 8.40 base curve, 14.00 diameter, -.25 power, +2.25 add SoClear Progressive with 3.00 steep for the PC adjustment and a near center zone of 3.00mm to position over the displaced apex.

OS: 8.40 base curve, 14.00 diameter, -.75 power for distance, SoClear design with 3.00 steep for the PC adjustment.

The patient's binocular acuity was 20/25+2 and J2. The fluorescein pattern shows scleral alignment, mid-peripheral alignment, and good central alignment over the post Lasik treatment zone as noted in the images below.



Patient did experience end of day redness, however, the comfort was good throughout the day.

In 2011 the patient participated in the KeraSoft IC study at the Michigan College of Optometry (MCO). Again topography was repeated to aid in the fit and to establish the corneal profile. Topography images did not change from the 2010 maps.

The starting trial lens from the fitting set was the 8.6 base curve with a steep 2 periphery and Plano power. This lens was chosen due to the patient's corneal profile as Post Lasik.

The MoRoCCo guidelines were documented as follows:

Movement: OU 1.2 mm

Rotation: OD 2 degrees counter clockwise, OS no rotation

Centration: Central OU

Comfort: Good OU

Over Refractions: OD +1.25-2.00x92; OS +.25-1.00x104

VA's: 20/20-1 OU

Vision was stable with no fluctuation before or after blink OU.

Final Lenses ordered:

OD: 8.6 base curve, Steep 2 14.5 diameter +3.00-2.00x90 (incorporating a +1.75 add power)

OS: 8.6 base curve, Steep 2 14.5 diameter +.25-1.00x104

Binocular acuity was 20/25 and J2

JG is able to wear the lenses all day with comfortable vision. She had no complaints with end of day redness as was noted with the previous SoClear lenses. This presbyopic Post Lasik patient was a good candidate for both design options and chose KeraSoft IC as the final option.

