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Spring 2007

The Best Vision Newsletter

## Presbyopia-Correcting Intraocular Lenses

The last generally accepted advance in the treatment of presbyopia occurred when Benjamin Franklin invented bifocals in 1784 after he found it frustrating to change between reading and distance glasses. Similar to his experience, standard "monofocal" intraocular lenses (IOLs) implanted during cataract surgery or refractive lens exchange focus light at only one distance. New advancements in intraocular lens design have recently become available to provide a combination of near and distance vision without correction:

### **Crystalens® (Eyeonics)**

The Crystalens® is a monofocal silicone IOL with UV blocking properties. It represents the only FDA-approved accommodating IOL, whereby its optic is hinged to facilitate anterior-posterior movement. In their FDA study, 91% of patients at one year postoperatively could see J3 near vision (newspaper print) through their distance correction. We have been very pleased with the early results of the second generation, Crystalens 5.0 which became available in November 2006.

### **ReZoom® (AMO)**

The ReZoom IOL is a multifocal distance-dominant acrylic design. This lens provides 2.6 diopters of effective reading add at a working distance of 14.6 inches. Constructed of five concentric rings, functional intermediate vision is provided by aspheric transition zones between the near and distance rings. In their FDA study, 92% of patients "never" or "occasionally" required glasses post-operatively. For those with potential for 20/20 vision, our last 6 months of REZOOM patients achieved uncorrected distance acuities with both eyes open of 20/20 in 67% and 20/25 in 100%, and uncorrected near acuities with both eyes open of 20/20 (J1+) in 44%, 20/25 (J1) in 85%, and 20/30 (J2) in 100%.

### **ReStor® (ALCON)**

The ReStor is a bifocal acrylic design. The effective reading add is 3.2 diopters at a closer working distance of 13 inches. In their FDA study, 97% of patients "never" or "sometimes" required glasses post-operatively.

Our clinical results of patients who have received Presbyopic IOLs have been impressive. We are increasingly enthusiastic about offering these IOL's to suitable candidates who desire to minimize dependence on corrective lenses and bifocals.

Our next seminar will present a comprehensive review of these lenses, as well as pre-op, intra-op, and post-op considerations for appropriate surgery patients.

We look forward to seeing you there !

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We dedicate ourselves to enhancing the quality of life of every individual whose life we touch, by helping each to see his or her best, and by preserving our patients' vision and eye health throughout life.

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