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Using OVDs for Soft-Shell Technique and Lens Insertion

Cynthia Matossian, MD Channels: Cataract Surgery | Posted 12/1/2015

I use a soft-shell technique at the start of all of my cataract cases. Beginning with a side port incision, I insert the OVD to flatten the convex dome and then add a thin layer of balanced salt solution (BSS) under the viscoadaptive OVD on top of the anterior capsular surface. There is an increased risk of the capsulorhexis spiraling out to the equator if performed on the slope of the convex cataract, and using a viscoadaptive OVD makes it easier to perform this critically important maneuver by flattening the lens.

Prior to bag inflation, I inject a cohesive OVD and then proceed to IOL insertion. The majority of my patients receive a one-piece acrylic intraocular lens (IOL), and the lower molecular count of the cohesive OVD (as compared to the viscoadaptive OVD) reduces the resistance placed on the haptics allowing for faster opening.

KEYWORDS

Capsulotomy/Capsulorrhexis • Cataract Surgery • Cataracts • Continuous Curvilinear capsulorhexis (CCC) • Ophthalmic viscosurgical device, OVD • Soft-Shell Technique



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