

MEETING NEWS

OSN New York Meeting

Precision pulse capsulotomy device provides strong, round capsulotomy

October 25, 2017

NEW YORK — An automated capsulotomy device creates round, centered capsulotomies that are as strong as or stronger than manual or femtosecond laser capsulotomy, according to a speaker here.

“Precision pulse capsulotomy is a newly approved automated capsulotomy device. It does allow you to center the capsulotomy in the Purkinje image and therefore the visual axis. It creates a round capsulotomy. Edge strength appears good, and it may be particularly helpful in cases where we really care about centration, like refractive cataract surgery, or in cases of complex cataracts, like loose zonules or white cataracts,” **John P. Berdahl, MD**, said at OSN New York 2017.

Berdahl and colleagues compared the Zepto capsulotomy system (Mynosys Cellular Devices) and the strength of its capsulotomies with femtosecond and traditional capsulotomies in a study published in *Ophthalmology*. Using cataracts from cadavers, the researchers found the Zepto system provided stronger capsulotomies compared with femtosecond or traditional capsulotomies, he said.

“When you look at a scanning electron microscopy edge of this type of capsulotomy, what you see with Zepto is interesting. On the anterior edge there is a roll to the capsule, and you can see how smooth it is compared to a traditional capsulotomy. A traditional capsulotomy, we all know, is nice and strong and elastic, but I presume that the reason why in our study that we found Zepto capsulotomies are stronger is because it almost anneals the edge of the capsule and helps protect it,” he said. – *by Robert Linnehan*

References:

Berdahl JP. Zepto-capsulotomy creation. Presented at: OSN New York 2017; Oct. 20 to 22, 2017; New York.

Thompson VM, et al. *Ophthalmology*. 2016;doi:10.1016/j.ophtha.2015.10.019.

Disclosure: Berdahl reports he receives a consulting fee from Alcon, Allergan, AMO, Avedro. Bausch + Lomb. ClarVista. DicaSiaht. Envisia. Equinox. Glaukos. Imorimis.