MEETING NEWS COVERAGE

American Glaucoma Society meeting

No negative anatomic changes seen after MicroPulse P3 treatment

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FORT LAUDERDALE, Fla. — In a study comparing anatomic findings before and after laser treatment with Iridex's MicroPulse P3 Cyclo G6 in patients with glaucoma, **Shan Lin, MD,** and colleagues said in a scientific poster that the laser is "effective in lowering IOP in the majority of patients in this study and appears safe with no complications."

The poster was presented at the American Glaucoma Society annual meeting.

Ultrasound biomicroscopy (UBM) and anterior segment optical coherence tomography (AS-OCT) were performed before and after treatment to evaluate the anatomic impact of the laser procedure.

After administration of topical and periocular anesthesia, 30 patients underwent the micropulse transscleral diode laser procedure, with exposure to the laser for 80 seconds on each hemisphere for a total of 160 seconds at a power of 2,000 mW. Topical steroids were prescribed postoperatively and IOP was monitored. Mean follow-up was 185 days.

Researchers defined success as IOP lowering at 20% with medications. The study achieved lowered IOP in 52% of patients.

Mean IOP was 21.84 mm Hg at baseline and 16.96 mm Hg postoperatively ($P = .05$).

UBM was done in eight patients, and AS-OCT was performed in 12 patients to evaluate anterior chamber and angle structures, as well as the iris and anterior capsule of the lens. No evidence of morphologic changes or destruction of adjacent structures was observed, and suprachoroidal fluid was not seen.

"This is the first study to compare the anatomical findings before and after the micropulse transscleral diode laser, [thus] opening further treatment opportunities in different stages of glaucoma and not as last resource treatment in patients with poor visual prognosis," Lin and colleagues wrote. *– by Patricia Nale, ELS, and Nhu Te*

Reference:

Lin S, et al. Poster 23. Micropulse transscleral diode laser cyclophotocoagulation: Short-term results and anatomical effects. Presented at: American Glaucoma Society 26th Annual Meeting; March 3-6, 2016; Fort Lauderdale, Fla.

Disclosure: Lin reports no relevant financial disclosures.