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Micropulse Transscleral Cyclophotocoagulation in Refractory Glaucoma. 6 month follow-up.

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Purpose

To describe the efficacy of micropulse transscleral cyclophotocoagulation (MP-CPC) in Hispanic patients with refractive glaucoma with a 6 month follow-up.

Methods

Prospective case series. Thirty six eyes of 27 patients with refractory glaucoma were included. All eyes underwent a single session of MP-CPC with the *Iridex IQ 532 Micropulse* laser with the following settings: 2000 mW for 90-120 seconds for each hemisphere depending on the severity of each case. All eyes completed a 6 month follow-up. Main outcome measures were Intraocular Pressure (IOP) and number of glaucoma medications at baseline, day 1, week 1, month 3 and 6 postoperatively. Secondary outcome measures were visual acuity, anterior chamber inflammation, and incidence of adverse events.

Results

Mean age was 47 years (± 24.8 SD). Mean IOP at baseline (BL) was 22 mmHg (± 6.2), with a reduction to 16.2 mmHg (± 7.0) at month 1, 18.2 mmHg (± 8.6) at month 3, and 14.5 mmHg (± 2.7) at 6 months. Mean number of hypotensive medications at BL was 3.8 (± 0.5), and 2.4 (± 1.1), 2.7 (± 1.3) and 2.8 (± 1.3) at 1, 3 and 6 months postoperatively. Total IOP reduction at month 6 was 29.5% (CI 2.63-11.2, $p=0.0002$), total reduction of hypotensive medications at 6 month follow-up was 26% (CI 2.636-11.2, $p=0.0097$). Main adverse events reported were anterior chamber inflammation for less than 1 month in 47% eyes, subconjunctival hemorrhage in 32.3% eyes, corneal abrasion 23.5% eyes, failure of procedure 11.4% and wipe out in 1 eye.

Conclusions

MP-CPC is an effective procedure in lowering IOP and decreasing the need for ocular antihypertensive medications in patients with refractory glaucoma. Our results in a Hispanic population concur with previous reports, regarding MP-CPC as a reasonable treatment alternative in these patients, and a potentially better option to traditional CPC. Nonetheless, longer follow-up is required to standardize treatment settings and analyze long-term results.

Layman Abstract (optional): Provide a 50-200 word description of your work that non-scientists can understand. Describe the big picture and the implications of your findings, not the study

itself and the associated details.

