

R1 R2 R3 PG0 PG1 Estagiário Tecnólogo
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Service (sector) Retina and Vitreous N° CEP

Photothermal Therapy for Idiopathic and Inflammatory Choroidal Neovascularization - a Preliminary Study Márgara Z. H. Almeida, MD, Michel E. Farah, MD, Jose A. Cardillo, MD, Daniela S. Calucci, COMT, Rogério A. Costa, MD Purpose: To evaluate the efficacy and safety of Photothermal Therapy in patients with idiopathic or inflammatory subfoveal choroidal neovascularization (CNV).

Methods: A prospective, noncomparative small case series. Six patients (7 eyes) with subfoveal CNV were treated with low irradiance 810-nm light and intravenous injection of small-volume, high-concentration indocyanine green (ICG) bolus, termed Photothermal Therapy (PTT). Follow-up time ranged from 6 to 21 weeks (mean 14.5 weeks). Visual acuity testing, fluorescein and indocyanine green angiography as well as optical coherence (OCT) were used to evaluate the results of the treatment.

Results: Six eyes (86%) showed a one or more line improvement in visual acuity. In one eye (14%) the visual acuity remained stable. A complete regression of the CNV occurred in five eyes (71%) and two eyes (29%) demonstrated minimal leakage on fluorescein angiography and OCT. There were no complications related to the procedure.

Conclusions: In our initial experience with PTT for the treatment of idiopathic and inflammatory subfoveal CNV, reduction or complete regression of the leakage area occurred in all patients without vision loss.