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Service (sector) Tumors and Pathology N° CEP

Circumscribed Choroidal Hemangiomas Treated With Photothrombosis Therapy Using ICG

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Purpose: To evaluate the potential benefit and complications of indocyanine green – mediated photothrombosis (IMP) in the management of symptomatic circumscribed choroidal hemangiomas. **Design:** Prospective, noncomparative, interventional case series. **Methods:** Five patients with vision loss secondary to exudative manifestations of circumscribed choroidal hemangioma were treated with photothrombosis therapy using indocyanine green. The patients had pretreatment and posttreatment fluorescein and indocyanine green angiography as well as optical coherence tomography (OCT). Parameters used for treatment were indocyanine green 2 mg/Kg body weight and laser light at 810 nm delivered at an intensity of 1,480Mw/cm² for 90 seconds. **Results:** All patients had improved visual acuity. Fluorescein angiography demonstrated a decrease in the amount of tumor leakage. Diminished tumor perfusion was observed by ICG angiography, and OCT showed important resolution of subretinal and intraretinal fluid. No complications were noted during the procedure or in the follow up period. **Conclusion:** The use of ICG-mediated photothrombosis for tumor control in patients with circumscribed choroidal hemangiomas resulted in resolution of the exudative manifestations, leading to visual improvement in all patients. No adverse effects were observed.