

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

Macular indentation in high myopic eyes with posterior retinal detachment by a modified “T-macular buckle”

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Purpose: To evaluate the results of a macular buckle with a new silicone explant called “T-macular buckle” in highly myopic eyes with macular retinal detachment. **Methods:** A series of fourteen consecutive highly myopic eyes with macular detachment due to macular hole (11 eyes) or retinal schisis (3 eyes) were retrospectively analyzed in this pilot study. Seven eyes had failure of previous vitrectomy (VPPV) and four eyes were filled with definitive silicone oil. All eyes underwent macular buckling procedure without posterior stitches and no muscle sectioning, using the new silicone implant, developed by the authors. All patients underwent postoperative orbital CT scans and OCT. Surgical difficulties, anatomic and functional outcomes, complications and geometric changes were reviewed. The minimal follow-up was 6 months for all patients. **Results:** Retinal reattachment was obtained on 12 of 14 patients (85, 7%). In the remaining two detached eyes there was reduction of sub retinal fluid. Silicon oil was removed in all eyes. Complications: one peripheral hemorrhagic choroidal detachment probably due to a vortex vein compression, one eye developed macular hemorrhages due to rupture of Bruch’s membrane. In three cases we had to alter the location of the buckle. **Conclusion:** The T macular buckle seemed to be safe and helpful in some difficult highly myopic eyes with posterior retinal detachment. It can avoid the necessity of permanent intraocular tamponades by silicon oil.