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Service (sector) Glaucoma N° CEP

### **One-Site versus Two-Site Phacotrabeculectomy: a Systematic Review of the Literature**

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**Purpose:** To review systematically the most relevant studies comparing the one-site versus two-site phacotrabeculectomy surgical approaches for the management of coexistent cataract and glaucoma. **Material and**

**Methods:** Electronic searches of articles published on PubMed, Embase, Lilacs and Central Cochrane Collaboration's database were conducted. Only randomized controlled trials comparing the two surgical techniques were selected for subsequent analysis. The quality of those trials was analyzed and data on postoperative intraocular pressure (IOP) and antiglaucoma medication were used for meta-analysis. **Results:** Four randomized controlled trials were retrieved. The postoperative IOP of 82 patients, who underwent one-site phacotrabeculectomy, and 77 patients, who underwent two-site phacotrabeculectomy, were pooled using random-effects model. The combined postoperative IOP showed a statistically significantly higher IOP for the one-site approach in comparison with the two-site approach (mean difference: 2.1 mmHg; 95% CI: 0.9 to 3.2 mmHg;  $P=0.006$  [non-directional zero-effect test];  $P<0.001$  [directional zero-effect test]).

**Conclusions:** In this literature review on phacotrabeculectomy, the strongest evidence of efficacy favors the two-site phacotrabeculectomy in comparison with the one-site surgical approach for the management of cataract and glaucoma.