

# Visual Acuity Improvement and Cost Saving of Vitrectomy Between Local Anesthesia and General Anesthesia

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## Visual Acuity Improvement and Cost Saving of Vitrectomy Between Local Anesthesia and General Anesthesia

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Objective: To report cost-effectiveness analysis of vitrectomy between local and general

anesthesia for rhegmatogenous retinal detachment.

Methods: Retrospective cohort study in two hospitals with 100 subjects that fulfill inclusion and exclusion criteria. Effectiveness was visual acuity improvement in two or more logMAR scale after vitrectomy, and units cost data were given by both hospitals.

Results: The amount of Rp. 23.959.000,- was needed to achieve effectiveness 32% in general anesthesia. The amount of Rp. 15.950.200,- was needed to achieve effectiveness 80% in local anesthesia. These data interpretation and extrapolation should be done cautiously. There is cost-minimization 50,12% when doing vitrectomy under local versus general anesthesia.

Conclusions: Vitrectomy for rhegmatogenous retinal detachment can be done under local anesthesia with higher effectiveness and lower cost.

Keywords : local anesthesia, retinal detachment, cost-effective analysis

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