

Membrane peeling and shorter waiting time increase successful rate of retinal detachment surgery

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Abstract:

Objective: To report vitrectomy result of 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. Surgical procedure was recorded, and analyzed.

Result: Effectiveness was 80% under local anesthesia, and 32% under general anesthesia. These data interpretation and extrapolation should be done cautiously. Multivariate analysis of effectiveness and cost showed that variables of detachment duration if less than 4 weeks (RR 1.85) and of local anesthesia (RR 2.58) were contributing for better surgical outcome. Shorter waiting time (time needed for surgery after diagnosed), and more membrane peeling done in local anesthesia group were different variables ($p < 0.00$) between two groups significantly.

Conclusions: Membrane peeling and shorter waiting time increase successful rate of vitrectomy for retinal detachment.

Keywords: Successful rate, health service, membrane peeling

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