(X) R1 () R2 () R3 () PG0 () PG1 () Estagiário () Tecnólogo () PIBIC

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Service (sector) Retina and Vitreous

Nº CEP

Minimização dos erros na injeção de drogas intravítreas no tratamento da endoftalmite.

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Purpose: To demonstrate frequent mistakes committed in the injection of intravitreal drugs in the treatment of endophthalmitis and to propose an injection technique that is reproducible and accessible to all ophthalmologist.

Methods: Evaluation of the most used intravitreal injection techniques and gauging the volumes of different needles used of the intravitreal injection, using an analytic scale.

Results: Mean and standard deviation of the residual volumes retained in the needles 13 x 0.45 mm (26 gauge), 25 x 0.7 mm (22 gauge), 30 x 0.7 mm (22 gauge) and 40 x 1.2 mm (18 gauge) are respectively 0.051±0.006, 0.056±0.005, 0.055±0.004 and 0.075±0.004 for Ryncos® and 0.050±0.003, 0.056±0.002, 0.063±0.002 and 0.084±0.004 for Becton-Dickinson®. Variations in the residual volume among the two needle brands were not statistically significant for needles 25 x 0.7 mm (22 gauge) only.

Conclusion: The technique intended for the injection of intravitreal drugs is the following one: aspiration of the vitreous with a coupled set of needle and syringe and then, a new puncture to inject vancomycin and amikacin mixed in another coupled set of needle and syringe. (2 punctures).