

Light and electron microscopic analysis of intraocular 2% hidroxypromethylcellulose

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Abstract – Twenty samples of 2% hydroxypropylmethylcellulose for intraocular surgery, obtained from two Brazilian laboratories, were studied to determine the presence and type of impurities in the solutions. These were compared with ten samples of balanced salt solution (control group). Using light and scanning electron microscopy, five types of particles were identified: cellulose fibers, vegetable flakes, crystals, glass fragments, and other impurities. At least one of these contaminants was present in each sample of 2% hydroxypropylmethylcellulose. The vegeta-

ble matter was also seen in a sample of the raw material from which the clinical material had been prepared. Control solutions (i.e., balanced salt solution) were free of vegetable matter and of crystals, but glass fragments and other impurities were present. The average number of foreign particles in the solutions of hydroxypropylmethylcellulose (91.2 and 96.7 particles per milliliter for each of the two groups) was statistically greater than in the balanced salt solutions (13.7 particles per milliliter).

Modified Schocket implant for refractory glaucoma Experience of 55 cases

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Abstract – Fifty-five eyes of 51 patients with different forms of refractory glaucoma (15 aphakic, 12 neovascular, 9 postpenetrating keratoplasty, 8 congenital, 5 secondary to uveitis, 4 associated with aniridia, 1 pseudophakic, and 1 traumatic) underwent antiglaucomatous surgery using a modified 90° Schocket implant. In 25 eyes (45.4%), this was the first surgical procedure. Follow-up ranged from 3 to 27 months (mean, 10.3 ± 5.4 months). The mean preoperative intraocular pressure (IOP) was 39.5 ± 8.6 mmHg (range, 22 to 66 mmHg). The mean postoperative IOP was 17.8 ± 7.6 mmHg (range, 4 to 50 mmHg). Intraocular pressure remained less than 21 mmHg in 50 eyes (90.9%) during the follow-up period. In 13 of these

eyes (26.0%), IOP remained under control without any medication. Complications were observed in 13 eyes (23.6%) and were successfully treated in 11 of them. Complications included iris-tube block (5.4%), vitreous-tube block (3.6%), early postoperative flat anterior chamber (1.8%), choroidal effusion (3.6%), tube exteriorization from anterior chamber (3.6%), tube displacement from silicone band (1.8%), retinal detachment (1.8%), tube-cornea touch (1.8%), vitreous hemorrhage (1.8%), infectious endophthalmitis (1.8%), and phthisis bulbi (1.8%). Modified 90° Schocket implants are an effective technique in the management of refractory glaucoma.

Central and peripheral corneal thickness in newborns

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Abstract – Central and peripheral corneal thickness was measured in 74 newborn children. The mean central corneal thickness was 0.573 ± 0.052 mm. The mean peripheral thickness was 0.650 ± 0.062 mm. There was no significant difference between right and left eyes, sex, gestational age

or type of delivery. The central and peripheral corneal thickness in the first 24 h of life was significantly higher than after 48 to 72 h. The full-term babies with 2.500 to 3.000 g of birth weight had peripheral corneal thickness higher than the group with 3.501 to 4.000 g.

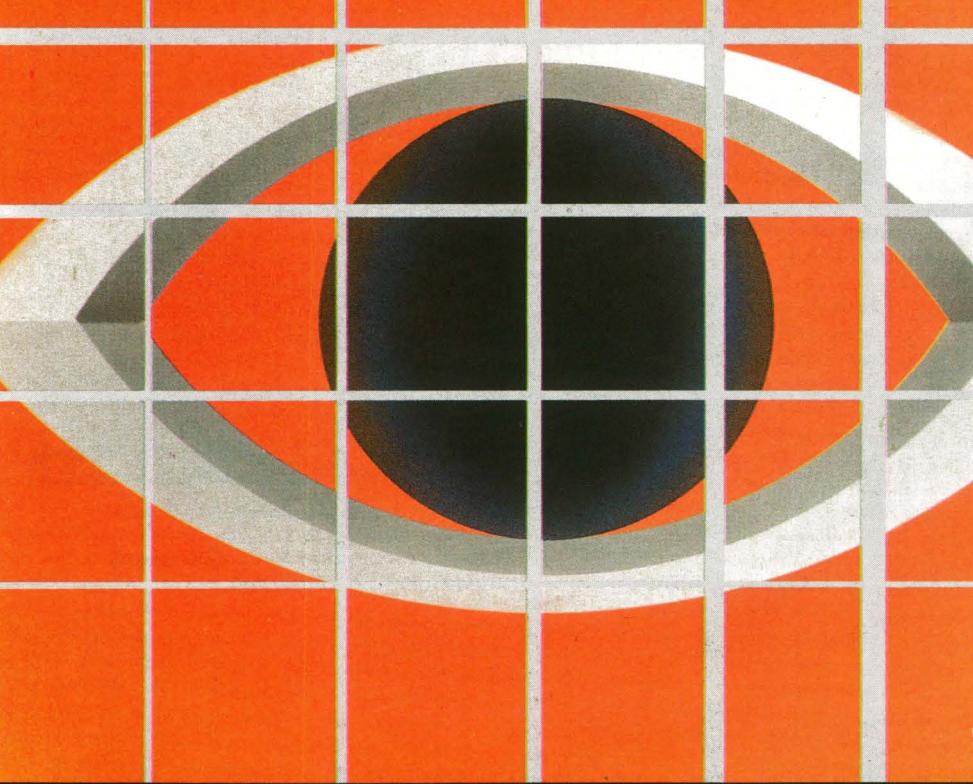
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