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Service (sector) Contact lenses N° CEP

COMFORT AND VISUAL PERFORMANCE IN PATIENTS WEARERS OF HYBRID MATERIAL AND RIGID-GAS-PERMEABLE CONTACT LENSES

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Purpose: To evaluate correction of myopia and astigmatism, comfort and visual performance related to the type of lenses used: hybrid material (HM) and rigid-gas-permeable contact lenses (RGP). **Methods:** A randomized, double-masked, prospective study, of 25 patients with diagnose of myopic-astigmatism was performed. A HM (DK23) contact lens was adapted in one eye, and a RGP (DK30) in the fellow eye. A modified Visual Scale of Pain was used to analyze comfort. Visual acuity was evaluated through EDTRS scale for 4 meters. The patients were evaluated before and after adaptation (2 months) with: Orbscan, Functional Acuity Contrast Test (FACT), Corneal Esthesiometry with the Cochet-Bonnet Esthesiometer, Break-up time (BUT) and Wavefront. Statistical analysis was done through the analysis of the variance in blocks. **Results: Table 01: Comfort evaluation measurements**

Time Material	adaptation	10 min	7 days	15 days	30days	60 days
HM	5.98	7.10	7.70	8.21	8.68	8.81
RGP	5.61	6.90	7.33	8.02	8.64	8.73

Table 02: Visual acuity measurements

Time Material	adaptation	7 days	15 days	30days	60 days
HM	0.1	0.08	0,06	0.06	0.07
RGP	0.08	0.06	0.05	0.05	0.06

Conclusions: There is no difference in comfort along the time ($p=0.165$), between the two lenses, and it increases up to the 15th day, being stable after that. Descriptive analysis of visual acuity, demonstrated patients with lower visual acuity when wearing hybrid material lenses, and stabilization of vision after 15 days of use.