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TREATMENT OF RECURRENT HIGH MYOPIC MACULAR HOLE AND ASSOCIATED RETINAL DETACHMENT WITH HUMAN AMNIOTIC MEMBRANE

Oral

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Purpose:

To determine the efficacy of the human amniotic membrane to close macular hole retinal detachment in high myopic eyes.

Methods:

We collected 19 high myopic eyes of 19 patients affected by macular hole retinal detachment who had already undergone vitrectomy with internal limiting membrane peeling. Patients underwent vitrectomy with amniotic membrane transplantation.

Results:

A primary success rate of 89.5% (17 of 19 eyes) was achieved after 3 months, and final macular hole closure was obtained in 18 of 19 eyes (94.7 %). The final retinal reattachment rate was 100%. The final 12-month mean BCVA improved from 20/2000 (2 logMAR) to 20/250 (1.1 logMAR). OCT-angiography revealed a high correlation between superficial and deep capillary plexus density and final BCVA.

Conclusions:

HAM patch is an efficient substrate to manage macular hole retinal detachment in high myopic eyes, resulting in encouraging anatomical results and BCVA recovery.