Outcomes of Descemet stripping automated endothelial keratoplasty (DSAEK) for corneal endothelial disorders

Purpose: To analyze the outcomes of DSAEK for endothelial disorders. Methods: Prospective, non-comparative study. 50 eyes of 50 patients with endothelial dysfunctions of different etiology, scheduled for DSAEK from Dec 2015-Nov 2016, were included. Indications, operative problems and postoperative complications were noted. Best corrected visual acuity and endothelial cell density (ECD) were analyzed at 6 month follow up. Results: Main indication was pseudophakic bullous keratopathy in 26 (52%) eyes, Fourteen (28%) had Fuchs’ dystrophy, Six (12%) had phakic bullous keratopathy and four (8%) had aphakic bullous keratopathy (ABK). At 6th month, BCVA was 6/36 or better in 28 cases. The ECD was 2068.9±414.06/sq mm. Dislocation of donor lenticule occurred in 4 and graft failure occurred in 5 cases. Conclusion: DSAEK is a safe and effective procedure in patients with endothelial dysfunctions with encouraging surgical and visual outcomes. It can be an alternative to penetrating keratoplasty.

keywords: DSAEK, Outcomes of DSAEK, Posterior lamellar keratoplasty.