

Comparison of deep anterior lamellar keratoplasty with penetrating keratoplasty.

p-value for all cases and primary cases

| Variable | All cases (n = 502) | Primary cases (n = 436) |
|---|---------------------|-------------------------|
| Recipient rejection status | 0.81 | 0.83 |
| Preoperative intraocular pressure | 0.008 | 0.03 |
| Donor trephination size | 0.24 | 0.28 |
| Recipient trephination size | <0.00001 | <0.00001 |
| Recipient age (years) | 0.16 | 0.22 |
| Donor age (years) | 0.70 | 0.80 |
| Follow-up (months) | 0.70 | 0.85 |
| Postoperative complications: | | |
| - Immune failure | 0.25 | 0.12 |
| - At least 1 rejection episode | 0.50 | 0.35 |
| - Non-immune failure | 0.35 | 0.51 |
| - Late endothelial failure | 0.11 | 0.12 |
| - Elevated IOP requiring treatment | 0.004 | 0.004 |
| - Infection | 0.54 | 0.57 |
| - Epithelial complications | 0.16 | 0.83 |
| - Trauma | 0.07 | 0.96 |
| - Cataract | 0.53 | 0.74 |
| - Other postoperative complications | 0.27 | 0.11 |
| 15-year graft survival | 0.97 | 0.95 |
| 15-year rejection-free graft survival | 0.40 | 0.08 |
| 15-year ocular hypertension-free graft survival | 0.03 | 0.02 |
| 15-year infection-free graft survival | 0.92 | 0.91 |
| 15-year trauma-free graft survival | 0.66 | 0.90 |
| Best spectacle-corrected visual acuity: | | |
| - 1 year | 0.61 | 0.27 |
| - 3 years | 0.03 | 0.02 |
| - 5 years | 0.06 | 0.03 |
| - 10 years | 0.21 | 0.38 |
| - last examination | 0.54 | 0.55 |
| Refractive astigmatism: | | |
| - 1 year | 0.57 | 0.62 |
| - 3 years | 0.06 | 0.02 |
| - 5 years | 0.53 | 0.21 |
| - 10 years | 0.84 | 0.37 |
| - last examination | 0.37 | 0.55 |
| Intraocular pressure: | | |
| - 1 year | 0.04 | 0.05 |
| - 3 years | 0.50 | 0.85 |
| - 5 years | 0.43 | 0.31 |
| - 10 years | 0.71 | 0.83 |
| - last examination | 0.14 | 0.13 |
| Central corneal thickness: | | |
| - 1 year | 0.41 | 0.72 |
| - 3 years | 0.14 | 0.31 |
| - 5 years | 0.86 | 0.64 |
| - 10 years | 0.25 | 0.29 |
| - last examination | 0.006 | 0.004 |

| | | |
|--|--------------------|--------------------|
| Corneal endothelial cell density (cells/mm ²): | | |
| - 1 year | <0.00001 | <0.00001 |
| - 3 years | <0.00001 | <0.00001 |
| - 5 years | <0.00001 | <0.00001 |
| - 10 years | <0.00001 | <0.00001 |
| - last examination | <0.00001 | <0.00001 |
| Topographic simulated mean keratometry (D): | | |
| - 1 year | 0.0009 | 0.04 |
| - 3 years | 0.0003 | 0.001 |
| - 5 years | 0.0003 | 0.17 |
| - 10 years | 0.0002 | 0.12 |
| - last examination | 0.06 | 0.12 |
| Percentage of endothelial cell loss per year: | | |
| - Early phase | <0.00001 | <0.00001 |
| - Late phase | <0.00001 | <0.00001 |
| Endothelial cell loss per year: | | |
| - Early phase | <0.00001 | <0.00001 |
| - Late phase | <0.00001 | <0.00001 |
