

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
