



Appendix 1

This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors.

Appendix to: Keane MC, Lowe MT, Coster DJ, et al. The influence of Australian eye banking practices on corneal graft survival.
Med J Aust 2013; 199: 275-279. doi: 10.5694/mja12.11584.

Appendix 1 - Frequencies and median survival of followed grafts for four types of keratoplasty

	Penetrating (26.0 Years)*					Traditional lamellar (22.2 Years)*					Deep anterior lamellar (10.6 Years)*					Endothelial (4.7 Years)*				
	n	Failed‡	Died	Lost	Median years of survival†	n	Failed‡	Died	Lost	Median years of survival†	n	Failed‡	Died	Lost	Median years of survival†	n	Failed‡	Died	Lost	Median years of survival†
Storage method																				
Organ culture	266	46	39	37	13.31	7	3	1	0	n/e	52	26	0	6	n/e	55	30	1	4	1.38
Optisol	8090	1593	1416	2545	10.72	234	75	46	82	5.58	222	3	4	51	n/e	683	186	27	44	4.24
Moist pot	320	101	95	143	18.82	499	97	149	213	13.59	1	0	0	1	n/e	0	n/a	n/a	n/a	n/a
Superseded media	8480	2382	3292	3372	13.48	180	43	67	83	11.92	0	n/a	n/a	n/a	n/e	0	n/a	n/a	n/a	n/a
Transported by air freight																				
Yes	919	288	298	232	12.44	67	29	14	23	2.79	11	4	0	0	3.27	38	14	2	0	n/e
No	14684	3396	4015	5161	12.42	823	182	236	343	10.25	265	26	4	58	n/e	700	202	26	48	4.24
Death-to-enucleation time																				
≤3 hours	4161	1064	1192	1734	13.95	129	29	42	57	n/e	33	4	0	8	n/e	45	15	4	2	2.48
4-6 hours	4505	1097	1469	1595	13.18	211	56	56	92	7.20	55	5	1	11	n/e	122	32	5	7	3.00
7- 9 hours	3919	946	1108	1333	11.80	218	47	68	88	9.78	49	3	1	15	n/e	160	56	8	10	2.72
10-12 hours	2980	693	773	957	12.49	202	47	52	79	13.59	73	14	2	14	n/e	222	55	8	13	n/e
>12 hours	1501	306	278	444	12.49	141	34	37	55	8.18	65	4	0	10	n/e	186	58	3	16	3.49
Death-to-storage time																				
≤6 hours	4263	1111	1328	1707	14.26	140	40	44	60	8.50	23	3	0	5	n/e	30	12	3	0	2.52
7-12 hours	5689	1361	1699	2040	13.08	276	72	90	104	10.23	59	7	2	17	n/e	180	59	10	5	2.72
13-18 hours	2575	589	655	862	11.94	174	40	43	77	9.12	61	11	2	11	n/e	222	57	5	14	n/e
19-24 hours	604	135	133	181	13.79	48	13	11	20	n/e	38	3	0	11	n/e	100	23	1	13	n/e
>24 hours	314	60	52	77	12.94	13	3	5	4	4.97	29	2	0	3	n/e	94	25	1	12	n/e
Enucleation-to-graft time																				
≤48 hours	4885	1318	1602	1917	14.54	145	35	51	64	n/e	24	2	0	7	4.61	93	26	0	5	4.24
49-96 hours	5202	1268	1579	1912	13.15	129	32	39	52	9.35	54	8	2	8	n/e	198	59	9	7	n/e
97-144 hours	3262	726	854	1126	12.12	82	26	24	27	13.59	45	8	2	10	7.63	216	57	9	18	n/e
>144 hours	1270	292	277	381	10.15	366	89	99	162	9.78	91	8	0	22	n/e	122	34	2	15	n/e
Indication for graft																				
Keratoconus	5213	456	178	3254	19.89	70	14	5	35	n/e	199	20	4	38	n/e					
Emergency indication	771	324	321	160	3.31	229	87	89	55	3.88	7	3	0	1	4.61	n/a	n/a	n/a	n/a	n/a
Other	11317	3393	4397	2728	8.82	640	122	171	300	13.59	70	7	0	19	n/e					
Graft era																				
1985 – 1995	7693	2238	3094	2977	14.09	356	74	146	170	14.15	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
1996 onwards	9608	1935	1802	3165	10.80	583	149	119	220	9.12										

* Maximum current follow-up recorded for a graft of the specified type. †As follow-up time is open ended, median years of survival is an estimate and refers to the point at which survival crosses 50%. ‡ Figures for failed grafts may also include grafts for which the recipient is known to have died if this occurred after the graft had failed. Grafts that were still surviving when the recipient died are not treated as failed grafts but rather censored at the time of death.

n=number of grafts. n/e= no estimation available as cases have not reached a level of 50% survival over the observation period. n/a=not applicable for that type of graft.