

Survival Rates Following Transplantation

This chapter shows graft survival rates over time for kidney, pancreas and corneal transplants, and patient survival estimates for kidney, pancreas, cardiothoracic, liver, and intestinal transplants, performed in the UK. Separate estimates are presented for adult and paediatric patients (using organ specific age definitions) and for transplants from donors after brain death and donors after circulatory death.

In all cases, the Kaplan-Meier estimate of the survivor function was used to provide the survival rate and groups (years) were compared using the log-rank test. The analyses do not take account of risk factors which may change over time. Graft survival is defined as time from transplant to graft failure, censoring for death with a functioning graft and grafts still functioning at time of analysis. Patient survival is defined as time from transplant to patient death, censoring for patients still alive at time of analysis. Both analyses consider only first transplants.

11.1 Kidney graft and patient survival

11.1.1 Adult kidney recipients - donor after brain death (DBD)

Figure 11.1 shows long-term graft survival in adult (≥ 18 years) recipients for first kidney only transplant from donors after brain death. **Table 11.1** shows the graft survival estimates and confidence intervals for one, two, five and ten years post-transplant. There have been significant improvements in one-year survival over the time periods shown, ($p < 0.01$). **Table 11.2** shows the patient survival estimates and confidence intervals for one, two, five and ten years post-transplant. There were no statistically significant changes in patient survival over time ($p > 0.2$).

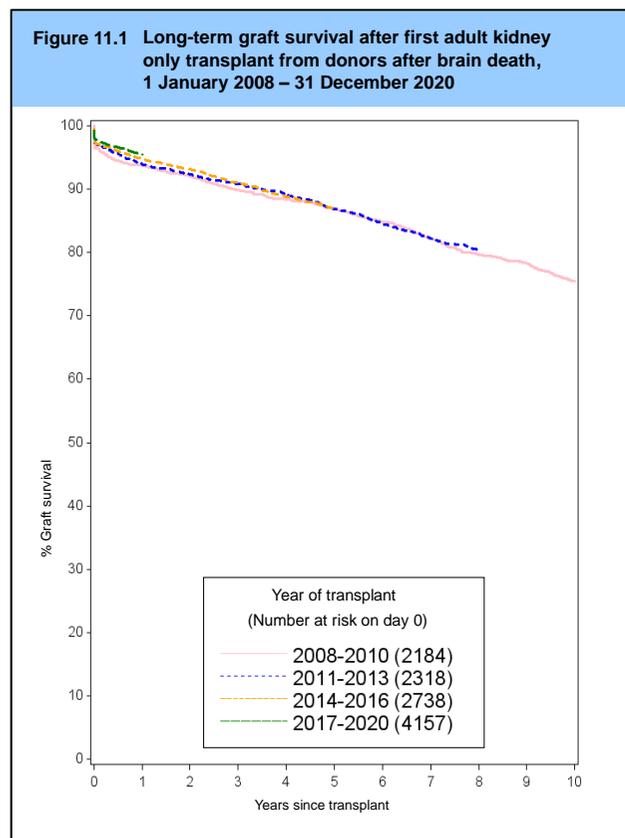


Table 11.1 Graft survival after first adult kidney only transplant from a DBD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	2184	94 (93-95)	92 (91-93)	87 (85-88)	75 (73-77)	
2011-2013	2318	94 (93-95)	92 (91-93)	87 (85-88)	-	
2014-2016	2738	95 (94-96)	93 (92-94)	87 (86-88)	-	
2017-2020	4157	95 (95-96)	-	-	-	

Table 11.2 Patient survival after first adult kidney only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	2185	96 (95-97)	95 (94-95)	90 (89-91)	76 (74-78)	
2011-2013	2319	96 (96-97)	94 (93-95)	88 (87-90)	-	
2014-2016	2739	97 (96-98)	95 (94-96)	89 (87-90)	-	
2017-2020	4158	96 (96-97)	-	-	-	

11.1.2 Adult kidney recipients - donor after circulatory death (DCD)

Long-term graft survival in adult recipients for kidney transplants from donors after circulatory death is shown in **Figure 11.2**. **Table 11.3** shows the graft survival estimates and confidence intervals for one, two, five and ten years post-transplant. There has been significant variation in one year survival over the time periods shown, $p=0.0001$. **Table 11.4** shows the patient survival estimates and confidence intervals for each time period analysed. There was a statistically significant increase in patient survival over time at one year post-transplant ($p=0.02$).

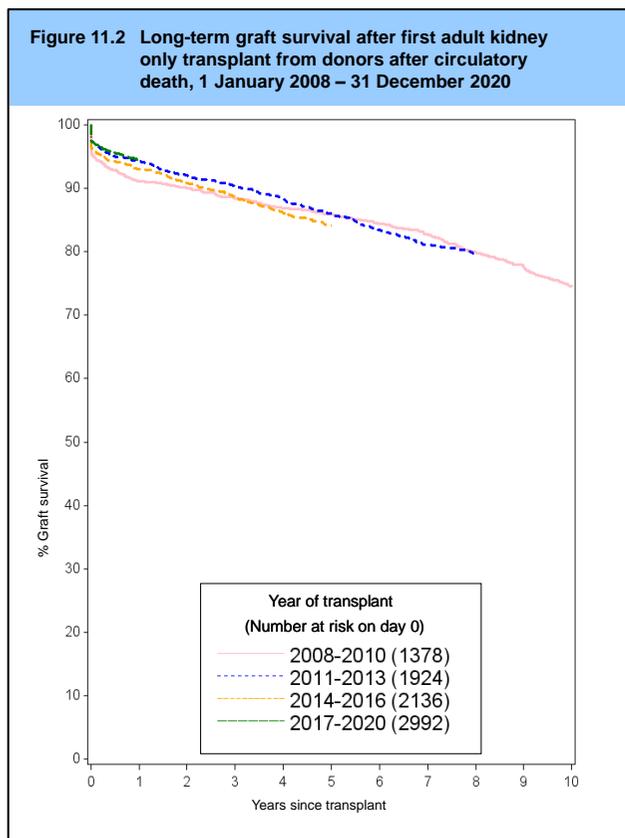


Table 11.3 Graft survival after first adult kidney only transplant from a DCD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	1378	91 (89-92)	90 (88-92)	86 (84-88)	75 (72-77)
2011-2013	1924	94 (93-95)	92 (91-93)	86 (84-88)	
2014-2016	2136	93 (92-94)	91 (90-92)	84 (82-86)	
2017-2020	2992	94 (94-95)			

Table 11.4 Patient survival after first adult kidney only transplant from a DCD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	1378	95 (94-96)	94 (92-95)	87 (85-89)	72 (70-75)
2011-2013	1924	96 (94-96)	94 (92-95)	86 (84-87)	
2014-2016	2137	97 (96-98)	95 (94-96)	86 (84-87)	
2017-2020	2996	97 (96-97)			

11.1.3 Adult kidney recipients - living donor

Long-term graft survival in adult recipients for living donor kidney transplants in the UK is shown in **Figure 11.3**. **Table 11.5** shows graft survival estimates and confidence intervals for each time period analysed. There has been a significant improvement in one- and two-year survival over the time periods shown ($p < 0.0001$ and $p = 0.04$, respectively). **Table 11.6** shows the patient survival estimates and confidence intervals for one, two, five and ten years post-transplant. There were no statistically significant changes in patient survival over time ($p > 0.14$).

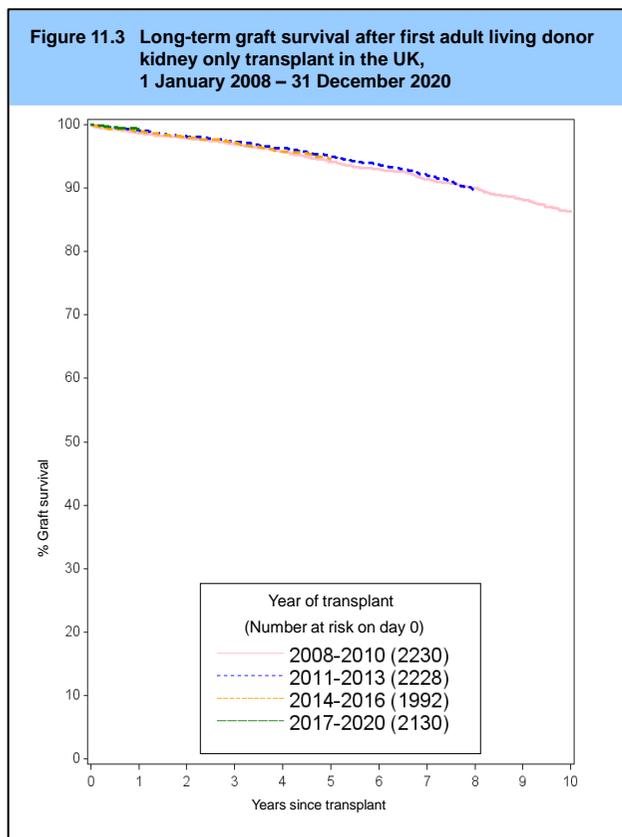


Table 11.5 Graft survival after first adult living donor kidney transplant

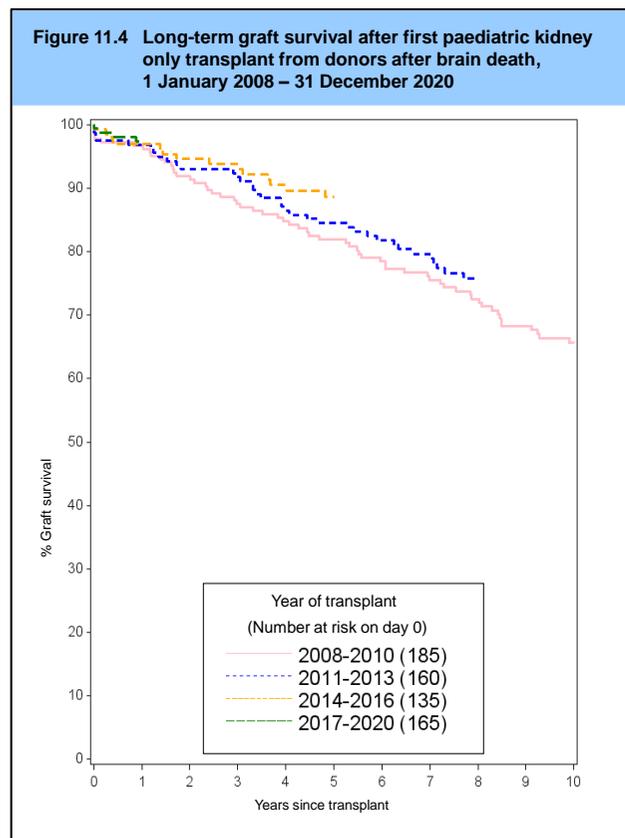
Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	2230	97 (96-97)	96 (95-96)	92 (91-93)	83 (81-84)
2011-2013	2228	97 (96-98)	96 (95-97)	91 (90-92)	-
2014-2016	1991	98 (97-99)	97 (96-98)	93 (92-94)	-
2017-2020	2127	99 (98-99)	-	-	-

Table 11.6 Patient survival after first adult living donor kidney transplant

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	2230	99 (98-99)	98 (97-98)	94 (93-95)	86 (85-88)
2011-2013	2228	99 (99-99)	98 (97-99)	95 (94-96)	-
2014-2016	1992	99 (98-99)	98 (97-99)	95 (93-95)	-
2017-2020	2130	99 (99-100)	-	-	-

11.1.4 Paediatric kidney recipients - donor after brain death (DBD)

Figure 11.4 shows long-term graft survival in paediatric (<18 years) recipients for first kidney only transplants from donors after brain death. Graft survival estimates and confidence intervals are shown for each time period analysed in **Table 11.7**. There were no statistically significant changes in graft survival over time ($p>0.3$). **Table 11.8** shows the patient survival estimates and confidence intervals for one, two, five and ten years post-transplant. There were no statistically significant changes in patient survival over time ($p>0.4$). There were insufficient paediatric recipients of first kidney only transplants from donors after circulatory death to permit reliable analysis.



Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	185	97 (93-99)	92 (87-95)	82 (76-87)	66 (58-72)	
2011-2013	160	97 (93-99)	93 (88-96)	84 (78-89)		
2014-2016	135	97 (92-99)	95 (89-97)	89 (82-93)		
2017-2020	165	97 (93-99)				

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	185	99 (96-100)	99 (96-100)	98 (94-99)	96 (92-98)
2011-2013	160	99 (96-100)	99 (95-100)	97 (92-99)	
2014-2016	135	99 (95-100)	99 (95-100)	99 (95-100)	
2017-2020	165	99 (95-100)			

11.1.5 Paediatric kidney recipients - living donor

Long-term graft survival in paediatric recipients for living donor kidney transplants in the UK is shown in **Figure 11.5**. **Table 11.9** shows graft survival estimates and confidence intervals for each time period analysed. There were no statistically significant changes in graft survival over time ($p>0.1$). **Table 11.10** shows the patient survival estimates and confidence intervals for one, two, five and ten years post-transplant. There were no statistically significant changes in patient survival over time ($p>0.2$).

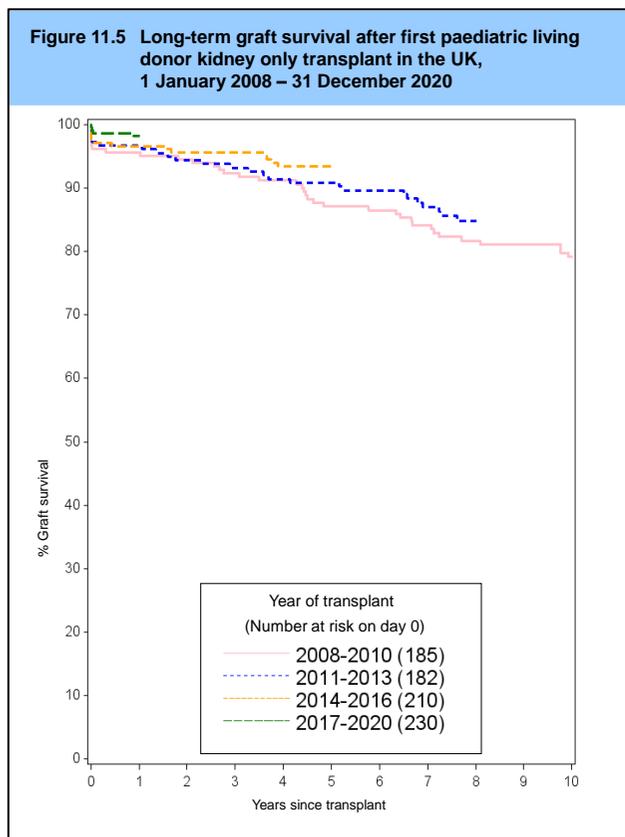


Table 11.9 Graft survival after first paediatric living donor kidney transplant									
Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)							
		One year		Two year		Five year		Ten year	
2008-2010	185	96	(92-98)	95	(90-97)	87	(81-91)	79	(72-85)
2011-2013	182	97	(93-99)	94	(90-97)	91	(85-94)	-	-
2014-2016	210	97	(93-98)	96	(92-98)	93	(89-96)	-	-
2017-2020	230	98	(95-99)	-	-	-	-	-	-

Table 11.10 Patient survival after first paediatric living donor kidney transplant									
Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)							
		One year		Two year		Five year		Ten year	
2008-2010	186	99	(96-100)	99	(96-100)	97	(93-99)	95	(90-97)
2011-2013	182	99	(96-100)	99	(96-100)	99	(96-100)	-	-
2014-2016	210	99	(96-100)	99	(95-100)	98	(95-99)	-	-
2017-2020	230	99	(96-100)	-	-	-	-	-	-

11.2 Pancreas graft and patient survival

11.2.1 Simultaneous pancreas/kidney transplants - donor after brain death (DBD)

Figure 11.6 shows long-term graft survival in recipients receiving their first simultaneous pancreas/kidney (SPK) transplant performed from donors after brain death. Graft and patient survival estimates and confidence intervals are shown at one, two, five and ten years post-transplant in **Table 11.11** and **Table 11.12** respectively. Results relate to adults only as there are no paediatric pancreas transplant recipients. There has been a significant improvement in one-, two- and five-year graft survival over the time periods shown, ($p=0.004$, $p=0.02$, $p=0.02$, respectively). Differences in patient survival are not significant over time ($p>0.1$).

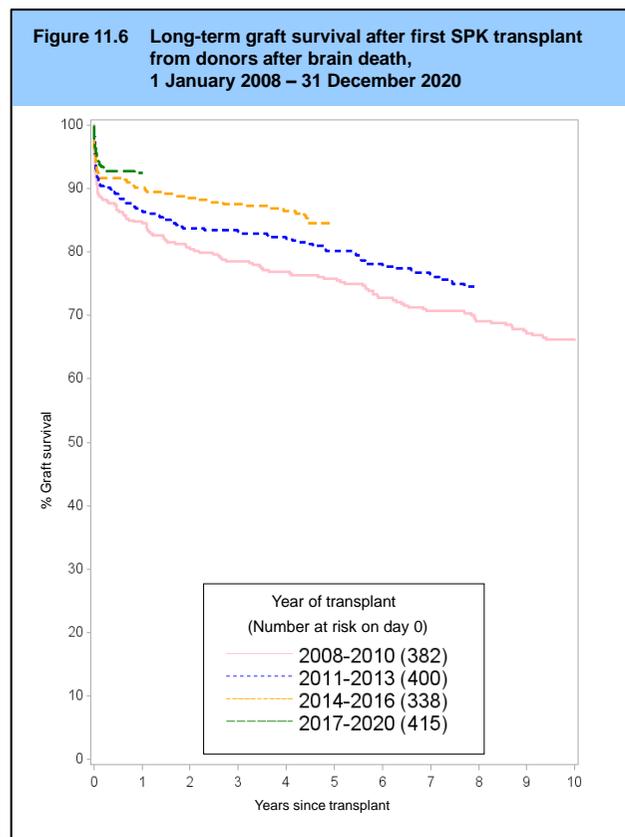


Table 11.11 Graft survival after first SPK transplant from a DBD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	382	85 (81-88)	80 (76-84)	76 (71-80)	66 (61-71)
2011-2013	400	86 (83-89)	84 (80-87)	80 (76-84)	
2014-2016	338	90 (86-93)	89 (85-92)	84 (80-88)	
2017-2020	415	92 (90-95)			

Table 11.12 Patient survival after first SPK transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	384	97 (95-99)	95 (92-97)	90 (86-92)	76 (71-80)
2011-2013	400	96 (94-98)	94 (91-96)	88 (84-91)	
2014-2016	339	97 (94-98)	97 (94-98)	89 (85-92)	
2017-2020	416	98 (96-99)			

11.2.2 Simultaneous pancreas/kidney transplants - donor after circulatory death (DCD)

Figure 11.7 shows pancreas graft survival in recipients receiving their first SPK transplant performed from donors after circulatory death. Graft and patient survival estimates and confidence intervals are shown at one, two, five and ten years in **Table 11.13** and **Table 11.14** respectively. Results are for adult patients only. There has been a significant improvement in one-year graft survival over the time periods shown, $p=0.03$. There has been a significant improvement in two-year patient survival over the time periods shown, $p=0.03$.

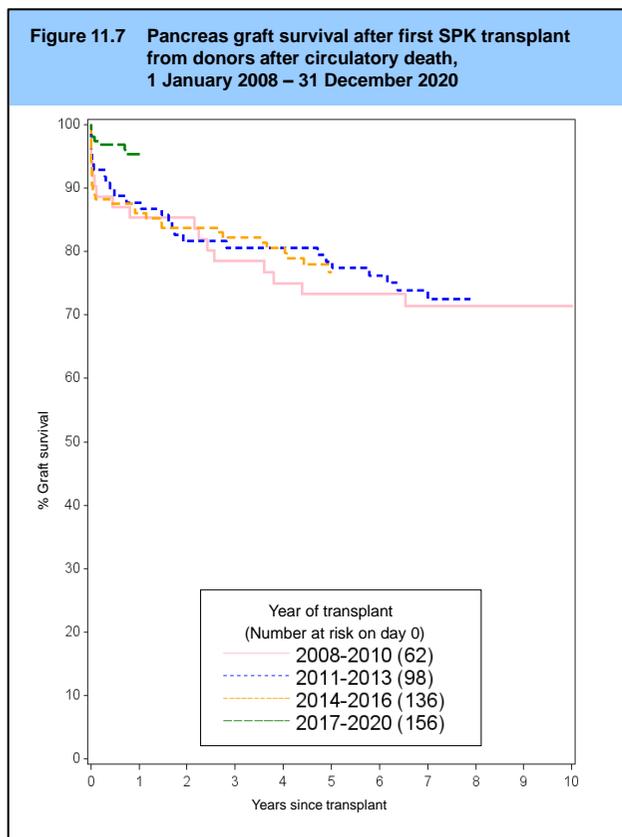


Table 11.13 Graft survival after first SPK transplant from a DCD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	62	85 (74-92)	85 (74-92)	73 (60-83)	71 (58-81)	
2011-2013	98	88 (79-93)	82 (72-88)	78 (69-85)	-	
2014-2016	136	86 (79-91)	84 (76-89)	77 (68-83)	-	
2017-2020	156	95 (91-98)	-	-	-	

Table 11.14 Patient survival after first SPK transplant from a DCD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	63	97 (88-99)	92 (81-96)	88 (77-94)	78 (64-87)
2011-2013	98	99 (93-100)	99 (93-100)	94 (87-98)	-
2014-2016	136	99 (95-100)	98 (93-99)	92 (85-96)	-
2017-2020	157	99 (95-100)	-	-	-

11.2.3 Pancreas only transplants - donor after brain death (DBD)

Figure 11.8 shows long-term graft survival in recipients receiving their first pancreas only transplant performed from donors after brain death. Graft and patient survival estimates and confidence intervals are shown at one, two, five and ten years in **Table 11.15** and **Table 11.16** respectively. Results are for adult patients only. There is evidence of a change in one-, two- and five-year graft survival over time ($p=0.03$, $p=0.01$ and $p=0.01$ respectively). There were no statistically significant changes in patient survival over time ($p>0.3$).

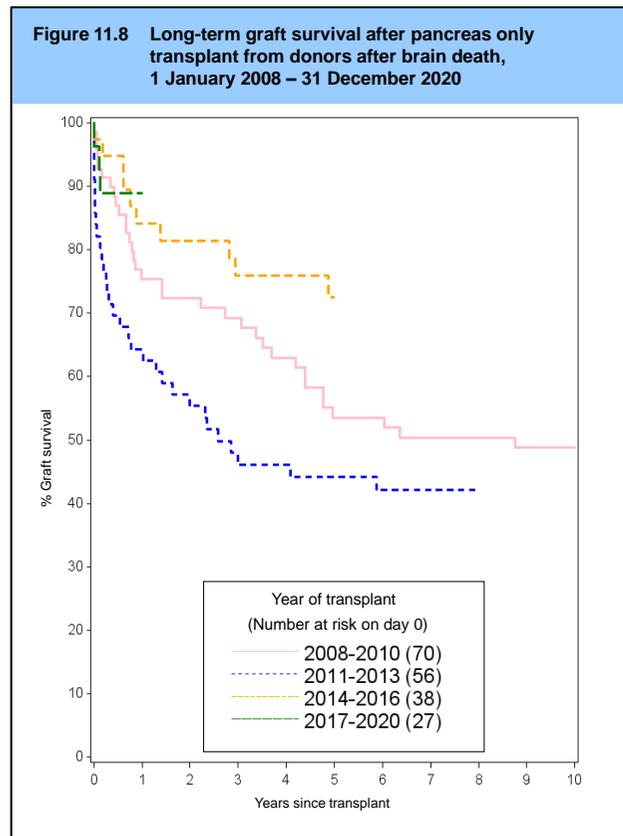


Table 11.15 Graft survival after first pancreas only transplant from a DBD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	70	75 (63-84)	72 (60-81)	54 (41-65)	49 (36-60)	
2011-2013	56	64 (50-75)	55 (41-67)	44 (31-57)		
2014-2016	38	84 (68-93)	81 (65-91)	73 (55-84)		
2017-2020	27	89 (69-96)				

Table 11.16 Patient survival after first pancreas only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	71	94 (85-98)	91 (81-96)	84 (73-91)	76 (63-85)	
2011-2013	56	98 (86-100)	98 (86-100)	77 (60-87)		
2014-2016	38	97 (82-100)	94 (79-99)	88 (72-95)		
2017-2020	27	96 (74-99)				

11.2.4 Pancreas only transplants - donor after circulatory death (DCD)

Figure 11.9 shows pancreas graft survival in recipients receiving their first pancreas only transplant performed from donors after circulatory death. Graft and patient survival estimates and confidence intervals are shown at one, two, five and ten years in **Table 11.17** and **Table 11.18** respectively. Results are for adult patients only and are based on small numbers so should be interpreted with caution.

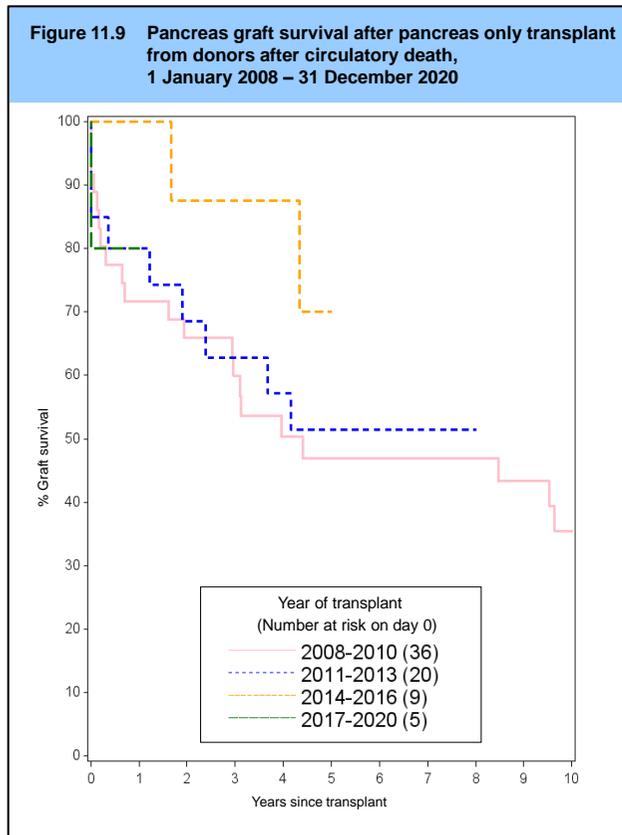


Table 11.17 Graft survival after first pancreas only transplant from a DCD

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)							
		One year		Two year		Five year		Ten year	
2008-2010	36	72	(54-84)	66	(48-79)	47	(29-63)	35	(19-52)
2011-2013	20	80	(55-92)	69	(43-85)	51	(27-71)		
2014-2016	9	100	-	88	(39-98)	70	(22-92)		
2017-2020	5	80	(20-97)						

Table 11.18 Patient survival after first pancreas only transplant from a DCD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)							
		One year		Two year		Five year		Ten year	
2008-2010	36	97	(82-100)	97	(82-100)	79	(59-90)	66	(45-81)
2011-2013	20	95	(68-99)	95	(68-99)	95	(68-99)		
2014-2016	9	100	-	100	-	67	(28-88)		
2017-2020	5	100	-						

11.3 Cardiothoracic patient survival

11.3.1 Adult heart recipients – donors after brain death (DBD)

Long-term patient survival for adult (≥ 16 years) recipients after first heart only transplant performed from donors after brain death is shown in **Figure 11.10**. Super-urgent, urgent, and non-urgent patients are included. **Table 11.19** shows the patient survival estimates and confidence intervals for one, two, five and ten years post-transplant for each transplant era. There were no statistically significant differences in patient survival across eras ($p > 0.5$).

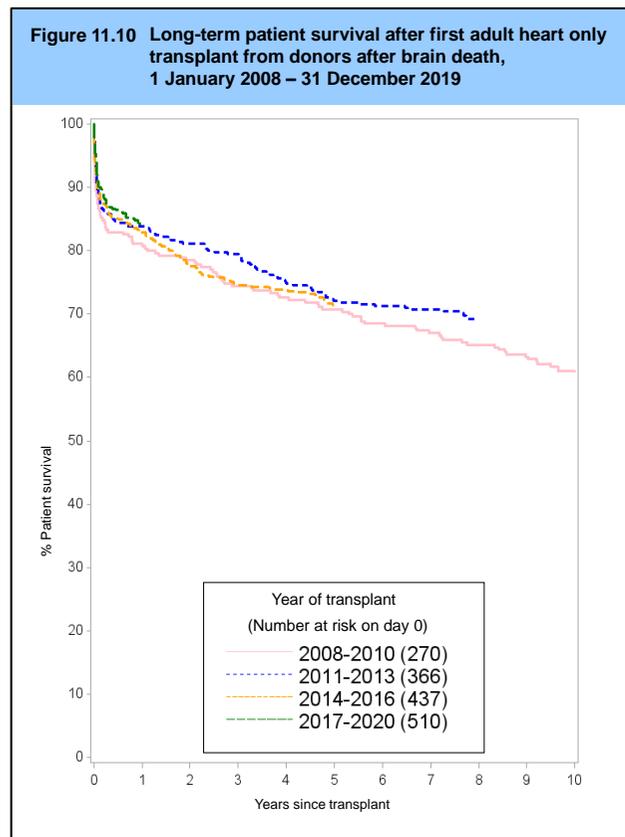


Table 11.19 Patient survival after first adult heart only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	270	81 (76-85)	79 (73-83)	71 (65-76)	61 (55-66)
2011-2013	366	84 (80-87)	81 (77-85)	72 (67-76)	-
2014-2016	437	83 (79-86)	78 (74-81)	71 (67-75)	-
2017-2020	510	84 (81-87)	-	-	-

11.3.2 Adult heart-lung block recipients – donors after brain death (DBD)

Patient survival for adult recipients after first heart-lung block transplant from donors after brain death is shown in **Figure 11.11**. Patient survival estimates and confidence intervals for each time period analysed are shown in **Table 11.20**. There were no statistically significant differences in patient survival across eras ($p>0.1$).

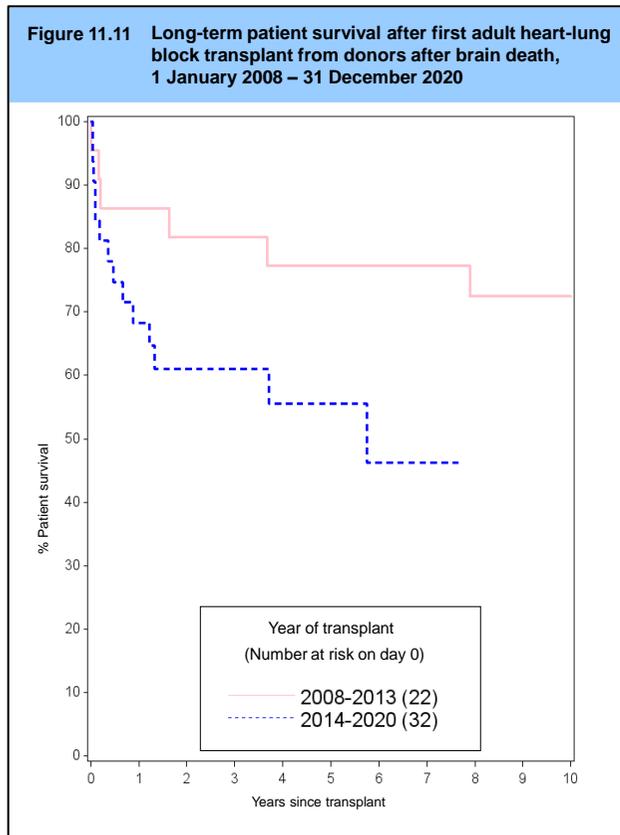


Table 11.20 Patient survival after first adult heart-lung block transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2013	22	86 (63-95)	82 (59-93)	77 (54-90)	72 (49-87)	
2014-2020	32	68 (49-82)	61 (42-76)	56 (35-72)		

11.3.3 Adult lung recipients - donors after brain death (DBD)

Patient survival for adult recipients after first lung only transplant from donors after brain death is shown in **Figure 11.12**, with survival estimates and confidence intervals shown in **Table 11.21**. Super-urgent, urgent, and non-urgent patients are included. There were no statistically significant differences in patient survival across eras ($p>0.5$).

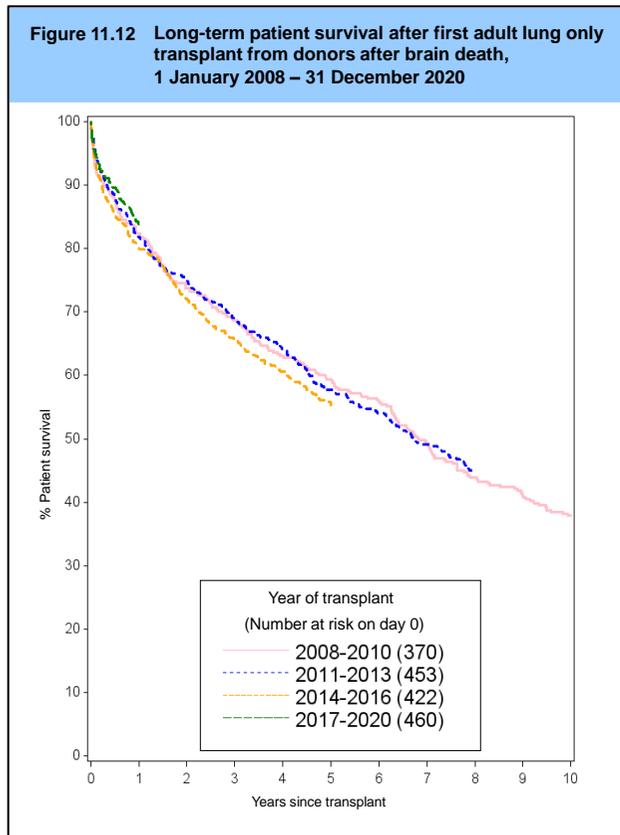


Table 11.21 Patient survival after first adult lung only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	370	82 (78-86)	74 (69-78)	59 (54-64)	38 (33-43)
2011-2013	453	82 (78-85)	75 (71-79)	58 (53-62)	
2014-2016	422	80 (76-84)	72 (67-76)	55 (50-60)	
2017-2020	460	84 (80-87)			

11.3.4 Adult lung recipients - donors after circulatory death (DCD)

Patient survival for adult recipients after first lung only transplant from donors after circulatory death is shown in **Figure 11.13**, by era, with survival estimates and confidence intervals shown in **Table 11.22**. Super-urgent, urgent, and non-urgent patients are included.

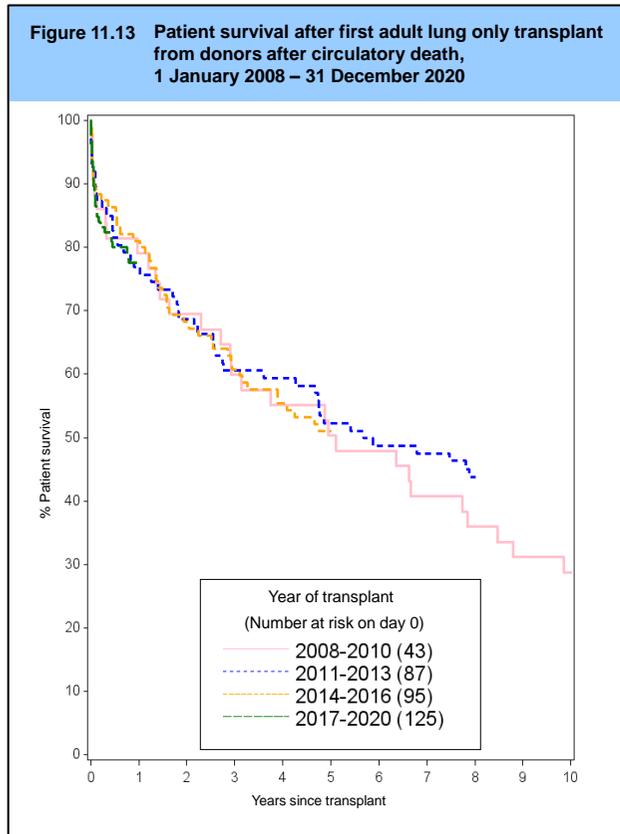


Table 11.22 Patient survival after first adult lung only transplant from a DCD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Three year	
2008-2010	43	79 (64-89)	69 (53-81)	50 (35-64)	
2011-2013	87	77 (66-84)	69 (58-77)	52 (41-62)	
2014-2016	95	81 (72-88)	68 (58-77)	51 (41-61)	
2017-2020	125	78 (69-84)			

11.3.5 Paediatric heart recipients – donors after brain death (DBD)

Long-term patient survival for paediatric recipients after first heart only transplant from donors after brain death is shown in **Figure 11.14**. Super-urgent, urgent and non-urgent patients are included. **Table 11.23** shows the patient survival estimates and confidence intervals for one, two, five, and ten years post-transplant. There were no statistically significant differences in patient survival across eras ($p>0.8$). The number of heart-lung transplant recipients was too small to analyse.

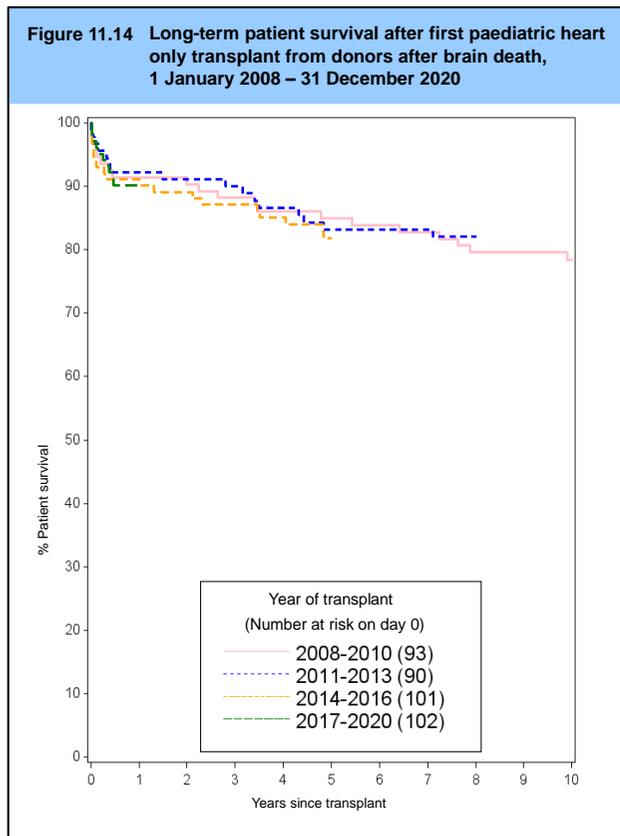


Table 11.23 Patient survival after first paediatric heart only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	93	91 (84-96)	90 (82-95)	85 (76-91)	78 (69-86)	
2011-2013	90	92 (84-96)	91 (83-95)	83 (74-90)		
2014-2016	101	91 (84-95)	89 (81-94)	82 (73-88)		
2017-2020	102	90 (82-95)				

11.3.6 Paediatric lung recipients - donors after brain death (DBD)

Long-term patient survival for paediatric recipients after first lung only transplant from donors after brain death is shown in **Figure 11.15**. Super-urgent, urgent and non-urgent patients are included. **Table 11.24** shows the patient survival estimates and confidence intervals for one, two, five, and ten years post-transplant. There were no statistically significant differences in patient survival across eras ($p>0.1$).

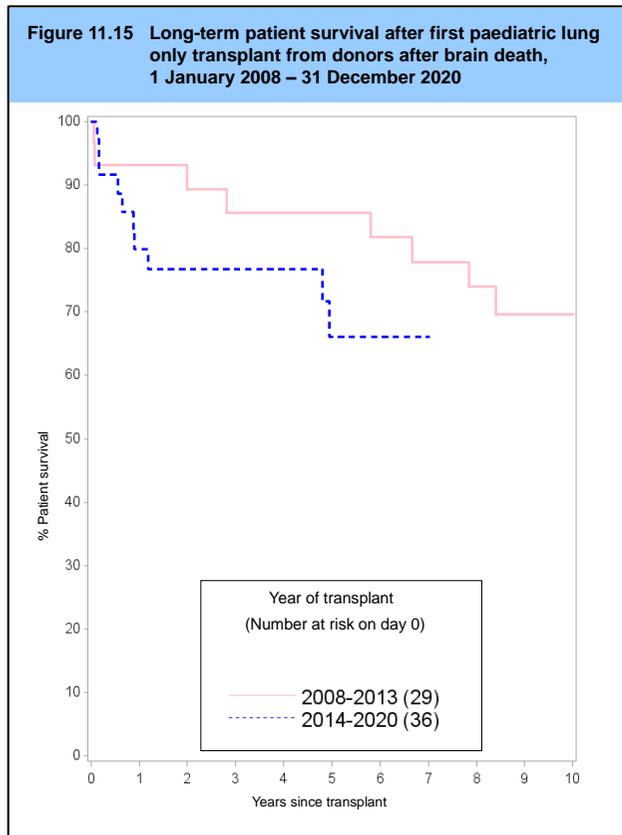


Table 11.24 Patient survival after first paediatric lung only transplant from a DBD

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2013	29	93 (75-98)	89 (71-96)	86 (66-94)	70 (48-84)
2014-2020	36	80 (62-90)	77 (59-88)	66 (45-81)	

11.4 Liver patient survival

11.4.1 Adult liver recipients - donor after brain death (DBD)

Long-term patient survival for adult (≥ 17 years) recipients after first elective NHS Group 1 liver only transplants from donors after brain death is shown in **Figure 11.16**. **Table 11.25** shows patient survival estimates at one, two, five, and ten years post-transplant. There is evidence of a change in one-year patient survival over time ($p=0.02$) but no evidence of a change in two and five year patient survival ($p\geq 0.2$). Whole liver transplants are included as well as reduced and split liver transplants.

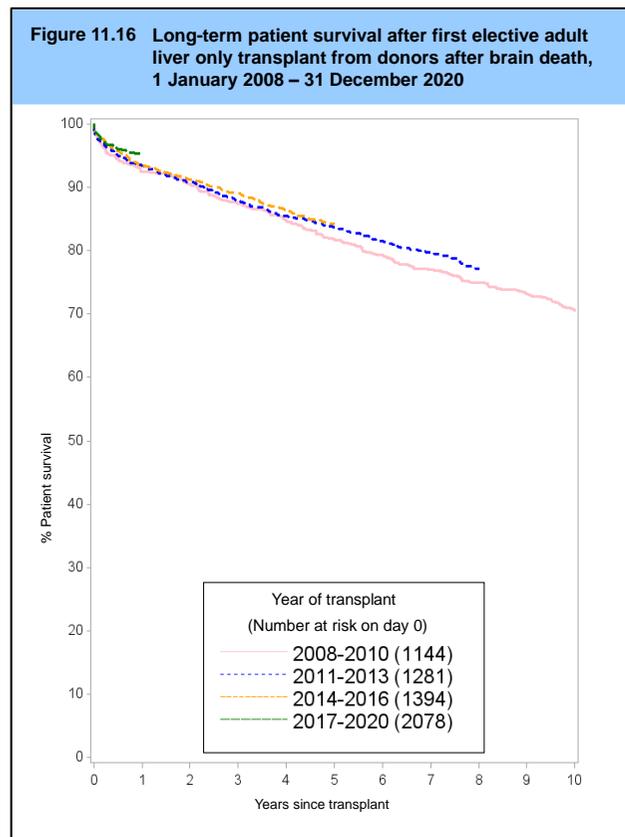


Table 11.25 Patient survival after first elective adult NHS Group 1 liver only transplant from donors after brain death

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	1144	93 (91-94)	91 (89-92)	82 (79-84)	71 (68-73)
2011-2013	1281	93 (92-95)	91 (89-92)	84 (82-86)	71 (68-73)
2014-2016	1394	93 (92-95)	91 (90-93)	84 (82-86)	71 (68-73)
2017-2020	2078	95 (94-96)	91 (89-92)	84 (82-86)	71 (68-73)

11.4.2 Adult liver recipients - donor after circulatory death (DCD)

Patient survival for adult (≥ 17 years) recipients after first elective NHS Group 1 liver only transplants from donors after circulatory death is shown in **Figure 11.17**. **Table 11.26** shows patient survival estimates at one, two and five years post-transplant. There is evidence of a change in one, two- and five-year patient survival over time ($p < 0.001$, $p < 0.0001$, and $p = 0.02$, respectively).

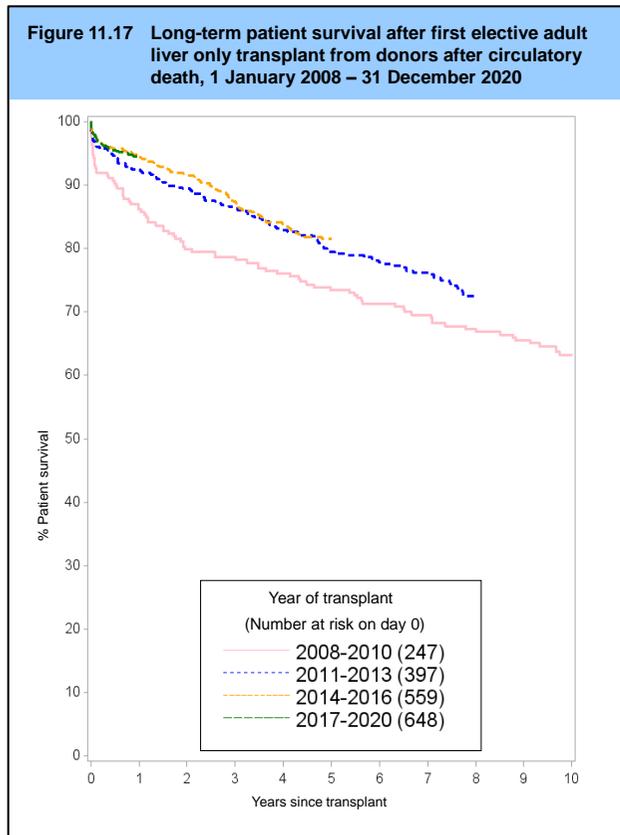


Table 11.26 Patient survival after first elective adult NHS Group 1 liver only transplant from donors after circulatory death

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)				
		One year	Two year	Five year	Ten year	
2008-2010	247	86 (81-90)	80 (74-84)	73 (67-79)	63 (57-69)	
2011-2013	397	92 (89-95)	89 (86-92)	79 (75-83)	-	
2014-2016	559	94 (92-96)	92 (89-94)	82 (78-85)	-	
2017-2020	648	94 (92-96)	-	-	-	

11.4.3 Paediatric liver recipients - donor after brain death (DBD)

Figure 11.18 and **Table 11.27** show long-term patient survival estimates for first elective liver only transplants from donors after brain death in paediatric (<17 years) recipients. There have been no statistically significant changes in one, two or five year patient survival over the time period analysed ($p>0.1$). The number of paediatric transplants from donors after circulatory death was too small to estimate meaningful patient survival.

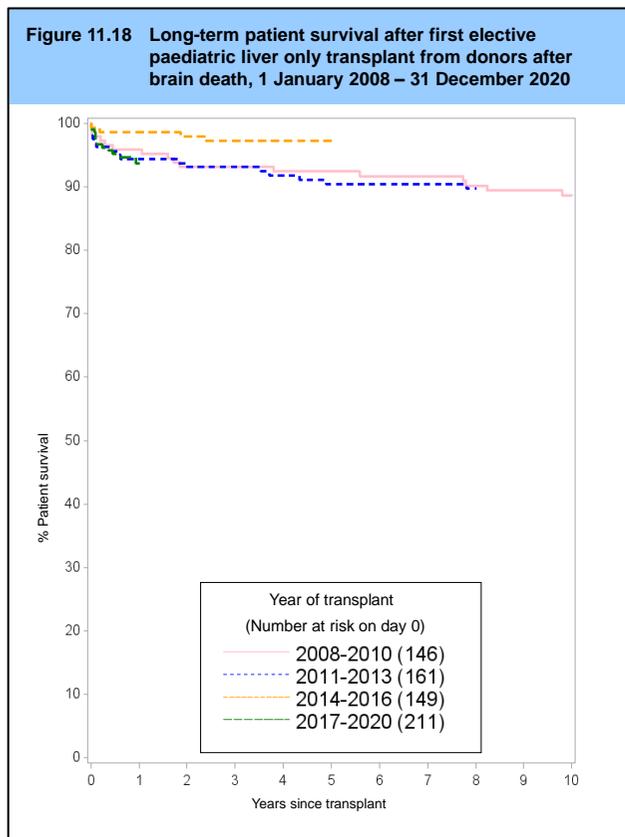


Table 11.27 Patient survival after first elective paediatric liver only transplant from donors after brain death

Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Five year	Ten year
2008-2010	146	96 (91-98)	93 (88-96)	92 (87-96)	89 (82-93)
2011-2013	161	94 (90-97)	93 (88-96)	90 (85-94)	
2014-2016	149	99 (95-100)	98 (94-99)	97 (93-99)	
2017-2020	211	94 (89-96)			

11.5 Intestinal patient survival

Figure 11.19 and **Table 11.28** show patient survival estimates for recipients receiving their first intestinal transplant, by recipient age group (adults aged ≥ 18 years) and transplant era. Results should be interpreted cautiously due to the small cohort and the heterogeneity of transplant types (both transplants that involve and do not involve the liver are being included).

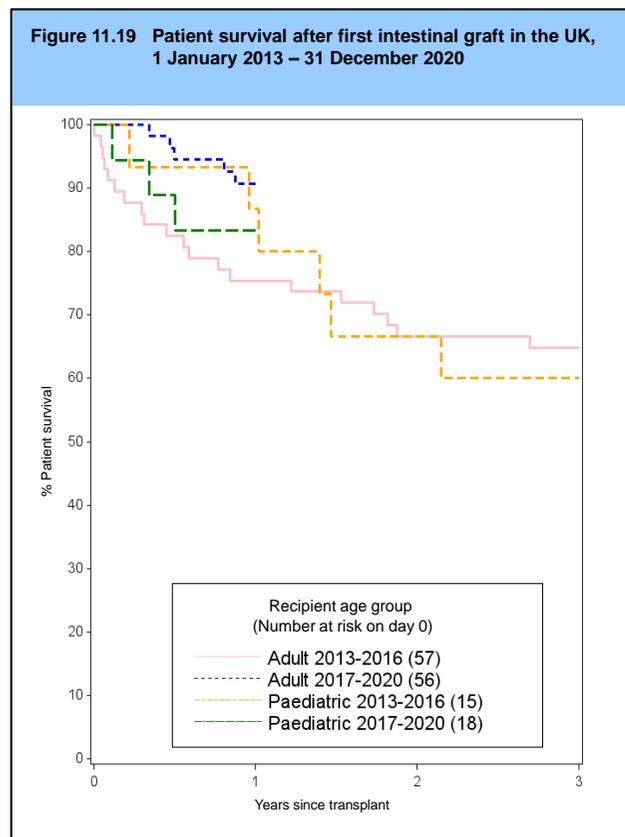


Table 11.28 Patient survival after first intestinal transplant in the UK

Recipient age group	No. at risk on day 0	% Patient survival (95% confidence interval)			
		One year	Two year	Three year	
Adult					
2013-2016	57	75 (62-85)	67 (53-77)	65 (51-76)	
2017-2020	56	91 (79-96)			
Paediatric					
2013-2016	15	87 (56-96)	67 (38-85)	60 (32-80)	
2017-2020	18	83 (57-94)			

11.6 Corneal graft survival

11.6.1 Cornea grafts for keratoconus

Figure 11.20 shows graft survival estimates for first corneal transplant for keratoconus (KC) for grafts in 2008-2010, 2011-2013, 2014-2016 and 2017-2020. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.29**.

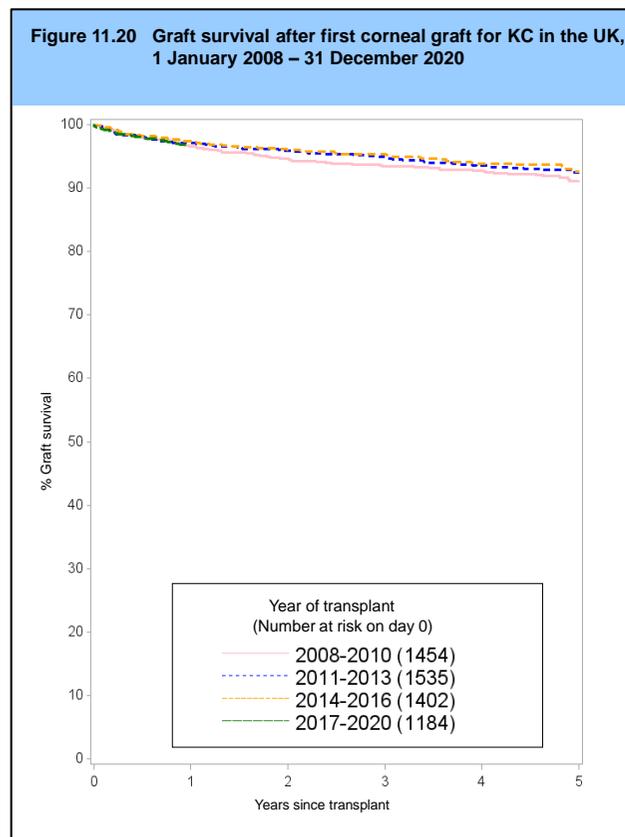


Table 11.29 Graft survival after first corneal graft for KC in the UK

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)			
		One year	Two year	Five year	
2008-2010	1454	97 (96-97)	95 (93-96)	91 (89-93)	
2011-2013	1535	97 (96-98)	96 (95-97)	92 (91-94)	
2014-2016	1402	97 (96-98)	96 (95-97)	93 (91-94)	
2017-2020	1184	97 (96-98)			

11.6.2 Cornea grafts for Fuchs endothelial dystrophy

Figure 11.21 shows graft survival estimates for first corneal transplant for Fuchs endothelial dystrophy (FED) for grafts in 2008-2010, 2011-2013, 2014-2016 and 2017-2020. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.30**.

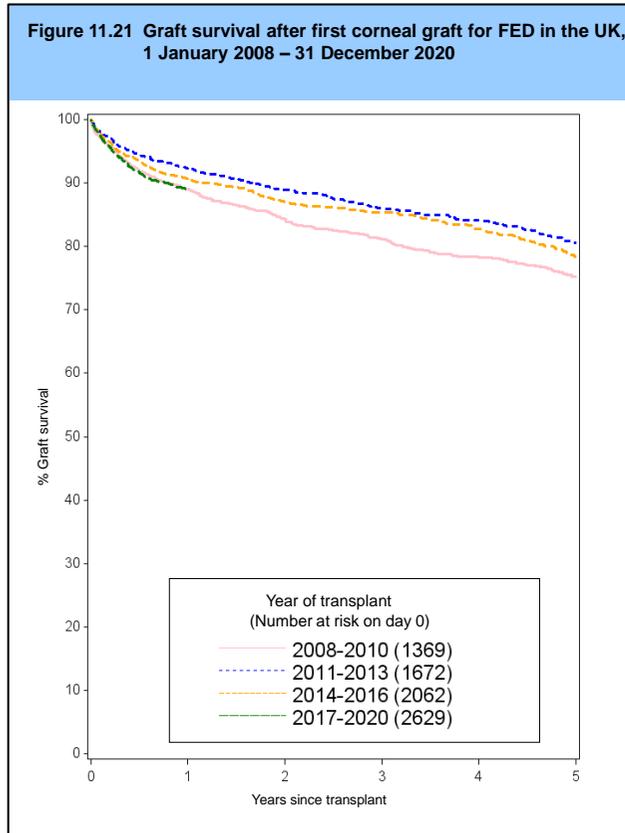


Table 11.30 Graft survival after first corneal graft for FED in the UK

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)					
		One year		Two year		Five year	
2008-2010	1369	89	(87-91)	84	(82-86)	75	(72-78)
2011-2013	1672	92	(91-93)	89	(87-90)	81	(78-83)
2014-2016	2062	91	(89-92)	87	(85-88)	78	(76-81)
2017-2020	2629	89	(88-90)				

11.6.3 Cornea grafts for pseudophakic bullous keratopathy

Figure 11.22 shows graft survival estimates for first corneal transplant for pseudophakic bullous keratopathy (PBK) for in 2008-2010, 2011-2013, 2014-2016 and 2017-2020. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.31**.

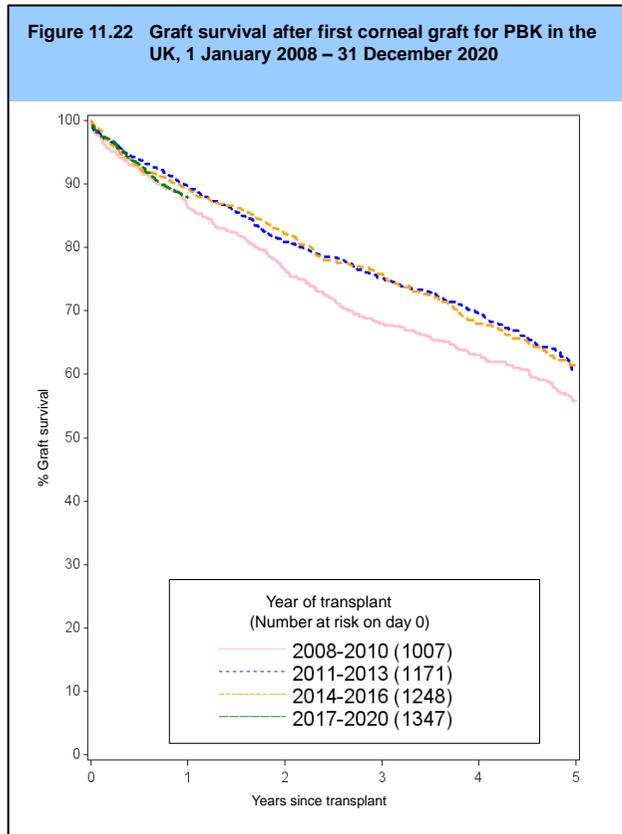


Table 11.31 Graft survival after first corneal graft for PBK in the UK

Year of transplant	No. at risk on day 0	% Graft survival (95% confidence interval)					
		One year		Two year		Five year	
2008-2010	1007	86	(84-88)	77	(74-79)	56	(52-60)
2011-2013	1171	90	(88-91)	81	(78-83)	60	(56-64)
2014-2016	1248	89	(87-91)	82	(80-84)	61	(57-65)
2017-2020	1347	88	(86-90)				