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>0.07).

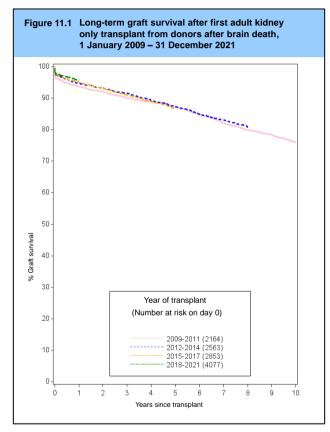


Table 11.1	Graft survival after first adult kidney only transplant from a DBD										
Year of	No. at risk		% Gra	aft sur	vival (95%	confi	dence inte	rval)			
transplant on da	on day 0 One year		e year	Two year		Five year		Ten year			
2009-2011	2164	94	(93-95)	92	(91-93)	87	(86-89)	76	(74-78		
2012-2014	2563	95	(94-96)	93	(92-94)	87	(86-89)		•		
2015-2017	2853	95	(94-96)	93	(92-94)	87	(85-88)				
2018-2021	4077	96	(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	On	% Pati e year		rvival (95% o year		idence into e year		n year	
2009-2011 2012-2014 2015-2017 2018-2021	2165 2565 2853 4078	96 96 97 96	(95-97) (95-97) (97-98) (95-97)	95 94 95	(94-96) (93-95) (95-96)	90 89 88	(88-91) (87-90) (86-89)	75	(73-77)	

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- and two-year survival over the time periods shown, p=0.0001 and p=0.02, respectively. **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- and two-year post-transplant (p=0.003 and p=0.02, respectively).

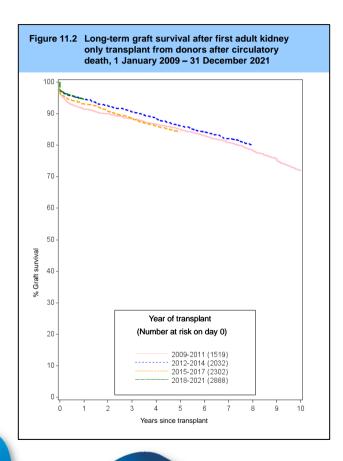


Table 11.3	Graft surviv	al afte	r first adul	t kidne	ey only tra	nsplar	nt from a D	CD	
Year of transplant	No. at risk on day 0	On	% Gra e year		vival (95% o year		dence inte e year	<u> </u>	n year
2009-2011 2012-2014 2015-2017 2018-2021	1519 2032 2302 2888	91 95 93 95	(90-93) (94-95) (92-94) (94-95)	90 93 91	(88-91) (91-94) (90-92)	85 86 84	(83-87) (84-88) (83-86)	72	(69-74)

Table 11.4	Patient surv	DCD							
Year of	No. at risk				•		idence inte		
transplant	on day 0	One year		Tw	o year	Five year		Te	n year
2009-2011	1519	95	(94-96)	93	(92-94)	86	(84-87)	69	(66-71)
2012-2014	2033	96	(95-97)	94	(93-95)	86	(85-88)		` ,
2015-2017	2303	97	(96-98)	95	(94-96)	85	(83-86)		
2018-2021	2892	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-, two-, and five-year survival over the time periods shown (p<0.0001, p=0.003 and p=0.005, 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>0.4).

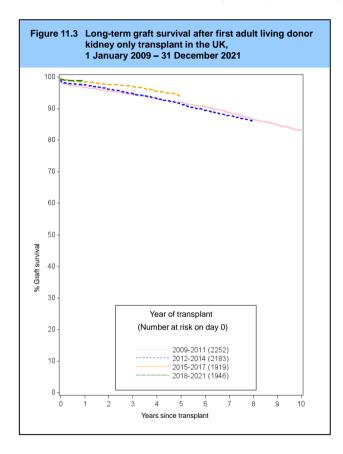


Table 11.5	Graft surviv	al afte	r first adul	t living	g donor kid	dney tı	ransplant		
Year of transplant	No. at risk on day 0	On	% Gra e year		vival (95% o year		dence inte e year	<u> </u>	n year
2009-2011 2012-2014 2015-2017 2018-2021	2252 2183 1919 1946	97 98 98 99	(96-97) (97-98) (98-99) (98-99)	96 96 98	(95-96) (95-97) (97-98)	92 92 94	(91-93) (90-93) (93-95)	83	(81-85)

Table 11.6	Patient surv	atient survival after first adult living donor kidney transplant									
Year of	No. at risk	•			•		idence inte				
transplant	on day 0	One year		Two year		Five year		Ten year			
2009-2011	2253	99	(98-99)	98	(97-99)	94	(93-95)	86	(84-87)		
2012-2014	2182	99	(98-99)	98	(97-99)	95	(94-96)				
2015-2017	1919	99	(98-99)	98	(98-99)	94	(93-95)				
2018-2021	1949	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.

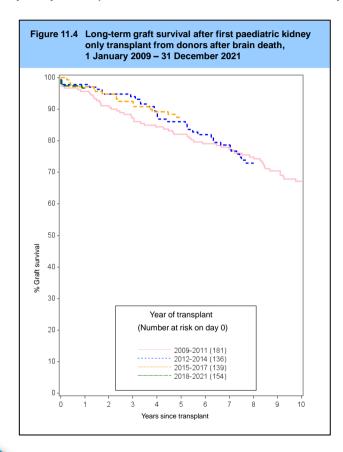


Table 11.7	Graft surviv	al afte	r first paec	liatric	kidney on	ly tran	splant fro	m a DE	BD
Year of transplant	No. at risk on day 0	On	% G e year		ırvival (95% o year		idence int e year	<u>-</u>	en year
2009-2011 2012-2014 2015-2017 2018-2021	181 136 139 154	96 98 97 97	(91-98) (93-99) (92-99) (92-99)	91 95 95	(86-94) (89-97) (89-97)	82 86 87	(76-87) (79-91) (80-92)	67	(60-74)

Table 11.8	Patient survival after first paediatric kidney only transplant from a DBI									
Year of transplant	No. at risk on day 0	Or	% Pat ne year		ırvival (95% year		idence inte year	_′	year	
2009-2011 2012-2014 2015-2017 2018-2021	181 136 139 154	99 99 99	(96-100) (95-100) (95-100) (95-100)	99 99 99	(96-100) (95-100) (95-100)	97 98 99	(93-99) (93-99) (95-100)	95	(90-97)	

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 has been a significant improvement in one- and five-year survival over the time periods shown (p=0.04 and p=0.001, respectively). **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>0.5).

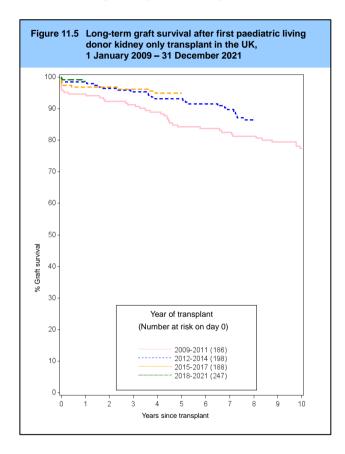


Table 11.9	5. J. 1 Gui 11	vival after first paediatric living donor kidney transplant									
Year of	No. at risk		% Gra	aft sur	vival (95%	confid	dence inte	rval)			
transplant	splant on day 0 One yea		ne year	Two year		Five year		Ten year			
2009-2011	186	95	(90-97)	92	(87-95)	84	(78-89)	77	(70-83)		
2012-2014	198	98	(95-100)	96	(93-98)	93	(89-96)		,		
2015-2017	188	97	(93-99)	97	(93-99)	95	(90-97)				
2018-2021	247	99	(96-100)		,		,				

						dney transı	J.u.i.	
. at risk n day 0	One			•			•	n vear
. uuy o	0	o you.		o you.		o you.		ı you.
187	99	(96-100)	99	(96-100)	98	(94-99)	96	(92-98)
198	99	(96-100)	99	(96-100)	99	(96-100)		
188	99	(96-100)	98	(95-99)	98	(94-99)		
247	98	(95-100)		,		,		
	187 198 188	187 99 198 99 188 99	187 99 (96-100) 198 99 (96-100) 188 99 (96-100)	187 99 (96-100) 99 198 99 (96-100) 99 188 99 (96-100) 98	187 99 (96-100) 99 (96-100) 198 99 (96-100) 99 (96-100) 188 99 (96-100) 98 (95-99)	187 99 (96-100) 99 (96-100) 98 198 99 (96-100) 99 (96-100) 99 188 99 (96-100) 98 (95-99) 98	187 99 (96-100) 99 (96-100) 98 (94-99) 198 99 (96-100) 99 (96-100) 99 (96-100) 188 99 (96-100) 98 (95-99) 98 (94-99)	187 99 (96-100) 99 (96-100) 98 (94-99) 96 198 99 (96-100) 99 (96-100) 99 (96-100) 188 99 (96-100) 98 (95-99) 98 (94-99)

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=0.008, p=0.05, p=0.04, respectively). Differences in patient survival are not significant over time (p>0.06).

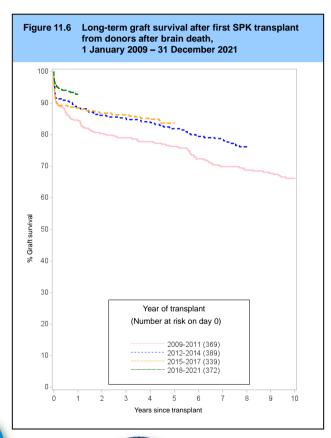


Table 11.11	Graft surviv	ai aite	i ilist SPN	uans	DIATIL ITOIII	a DDL	,		
Year of	No. at risk		% Gra	aft sur	vival (95%	confi	dence inte	rval)	
transplant	on day 0	On	e year	Tw	o year	Fiv	e year	Te	n year
2009-2011	369	85	(81-88)	80	(76-84)	76	(72-80)	66	(61-71
2012-2014	389	89	(85-91)	86	(82-89)	82	(78-85)		•
2015-2017	339	88	(85-91)	87	(83-90)	84	(79-87)		
2018-2021	372	93	(90-95)		•		•		

Table 11.12	e 11.12 Patient survival after first SPK transplant from a DBD										
Year of transplant	No. at risk on day 0	On	% Pati e year		rvival (95% o year		idence inte e year		n year		
2009-2011 2012-2014 2015-2017 2018-2021	371 389 340 375	96 97 97 98	(94-98) (94-98) (95-99) (96-99)	93 96 97	(90-96) (94-98) (94-98)	87 89 93	(83-90) (85-92) (89-95)	73	(68-78)		

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. Differences in patient survival are not significant over time (p>0.5).

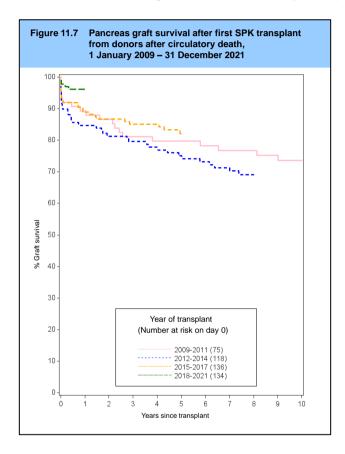


Table 11.13	Graft surviv												
Year of	No. at risk		% Graft survival (95% confidence interval)										
transplant	on day 0	Or	ne year Two year		Five year		Ten year						
2009-2011	75	89	(80-95)	87	(77-93)	80	(69-87)	74	(62-82)				
2012-2014	118	85	(77-90)	81	(73-87)	75	(66-82)						
2015-2017	136	89	(82-93)	87	(80-91)	82	(74-88)						
2018-2021	134	96	(91-98)		, ,		, ,						

Table 11.14	Patient surv	Patient survival after first SPK transplant from a DCD												
Year of transplant	No. at risk on day 0	Oı	% Pat ne year		urvival (95º vo year		fidence int ve year	erval) Ten year						
2009-2011 2012-2014 2015-2017 2018-2021	75 119 136 136	99 99 98 98	(91-100) (94-100) (94-100) (93-99)	94 97 97	(86-98) (92-99) (92-99)	92 91 92	(82-96) (84-95) (86-96)	82	(71-90)					

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 were no statistically significant changes in graft or patient survival over time (p>0.2).

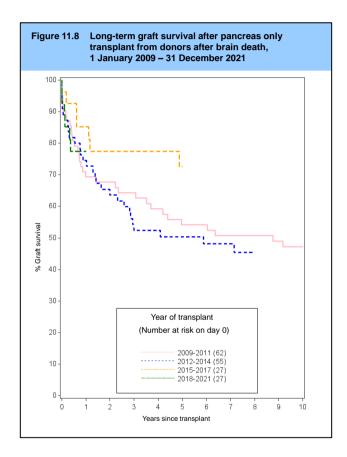


Table 11.15	Crait Sai VIV	Ift survival after first pancreas only transplant from a DBD												
Year of	No. at risk		% Graft survival (95% confidence interval)											
transplant	on day 0	On	One year		Two year		Five year		n year					
2009-2011	62	69	(56-79)	68	(54-78)	54	(41-66)	47	(34-59					
2012-2014	55	75	(61-84)	64	(49-75)	50	(36-63)		`					
2015-2017	27	85	(65-94)	77	(56-89)	73	(51-86)							
2018-2021	27	77	(56-89)		,		•							

Year of	No. at risk		% Pati	ent su	rvival (95%	confi	dence inte	erval)	
transplant	on day 0	Or	e year Two year				Five year		n year
2009-2011	63	96	(86-99)	95	(84-98)	83	(69-91)	75	(60-85
2012-2014	55	98	(87-100)	98	(87-100)	83	(67-91)		
2015-2017	27	96	(76-99)	92	(72-98)	88	(66-96)		
2018-2021	27	95	(71-99)		,		,		

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.

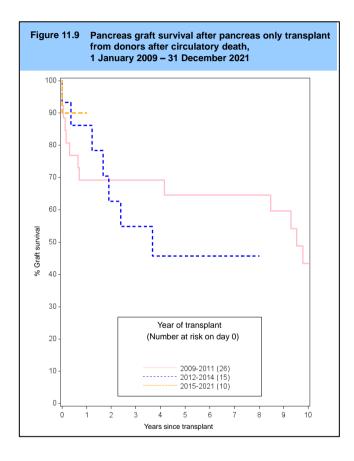


Table 11.17	Graft surviv	Graft survival after first pancreas only transplant from a DCD												
Year of transplant				% Graft survival (95% confidence i One year Two year Five year										
2009-2011 2012-2014 2015-2021	26 15 10	69 86 90	(48-83) (55-96) (47-99)	69 63	(48-83) (32-83)	65 46	(43-80) (18-70)	43	(22-63)					

Table 11.18	Patient surv	survival after first pancreas only transplant from a DCD											
Year of transplant	No. at risk on day 0	Or	% Pat ne year	interval) Ten year									
2009-2011	26	100	-	100	-	86	(62-95)	75	(50-89)				
2012-2014 2015-2021	15 10	93 100	(61-99) -	93	(61-99)	78	(46-92)						

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>0.4).

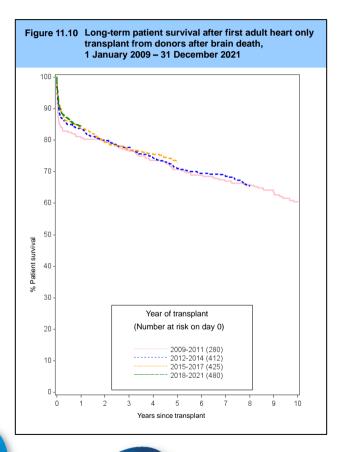
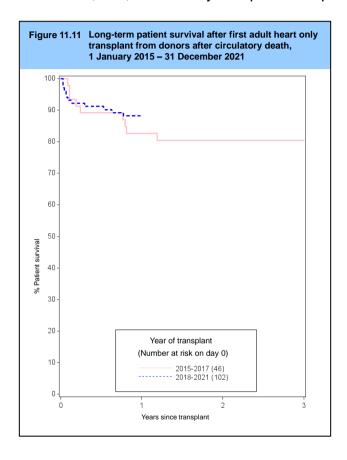


Table 11.19	Patient surv	ival af	ter first ad	ult hea	art only tra	ınspla	nt from a [OBD					
Year of	No. at risk	% Patient survival (95% confidence interval)											
transplant	on day 0	On	e year	Two year `		Five year			n year				
2009-2011	280	81	(76-85)	80	(74-84)	71	(65-76)	60	(54-66)				
2012-2014	412	84	(80-87)	80	(76-84)	71	(66-75)						
2015-2017	425	84	(80-87)	79	(75-83)	73	(68-77)						
2018-2021	480	85	(81-87)		,		,						
İ			, ,										

11.3.2 Adult heart recipients – donors after circulatory death (DCD)

Long-term patient survival for adult (≥16 years) recipients after first heart only transplant performed from donors after circulatory death is shown in **Figure 11.11**. Super-urgent, urgent, and non-urgent patients are included. **Table 11.20** shows the patient survival estimates and confidence intervals for one, two, and three years post-transplant for each transplant era.



Гable 11.20	Patient survi	vai atter	first adult ne	eart only	transplant fro	om a DCL	,	
Year of ransplant	No. at risk on day 0	On	% Patient s e year		95% confiden vo year	onfidence interval) Ir Three year		
2015-2017 2018-2021	46 102	83 88	(68-91) (80-93)	80	(66-89)	80	(66-89)	

11.3.3 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 11.12**. Patient survival estimates and confidence intervals for each time period analysed are shown in **Table 11.21**. Numbers of transplants is small and thus confidence intervals for survival estimates are wide and the differences in patient survival rates across eras were not statistically significant (p>0.1).

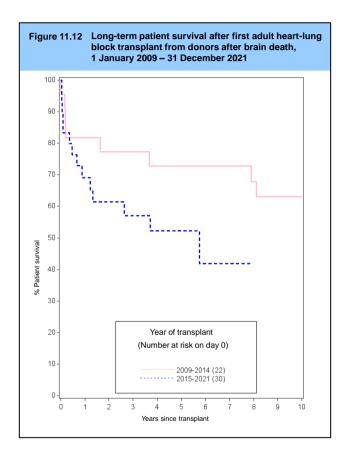


Table 11.21	Patient surv	Patient survival after first adult heart-lung block transplant from a DBD										
Year of transplant	No. at risk on day 0	On	% Patient survival (95% One year Two year				idence into e year		n year			
2009-2014 2015-2021	22 30	82 69	(59-93) (49-83)	77 61	(54-90) (41-77)	73 52	(49-87) (32-69)	63	(39-80)			

11.3.4 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 11.13**, with survival estimates and confidence intervals shown in **Table 11.22**. Super-urgent, urgent, and non-urgent patients are included. There were no statistically significant differences in patient survival across eras (p>0.7).

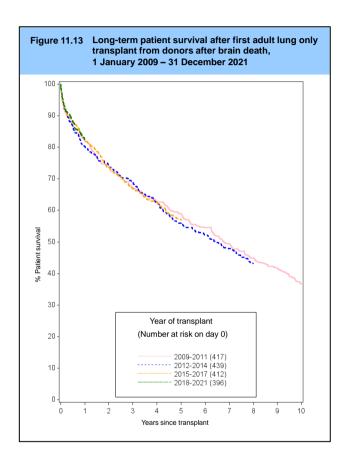
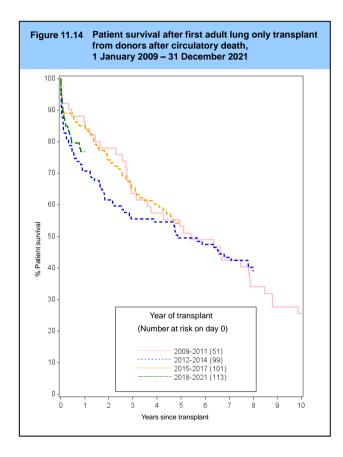


Table 11.22	Patient surv	ival af	ter first ad	ult lur	ng only trai	nsplar	nt from a D	BD	
Year of transplant	No. at risk on day 0	On	% Pati e year	idence inte e year					
2009-2011 2012-2014 2015-2017 2018-2021	417 439 412 396	82 80 82 82	(78-85) (76-84) (78-86) (78-86)	74 74 74	(69-78) (70-78) (69-78)	59 56 57	(54-64) (51-60) (52-62)	37	(32-41)

11.3.5 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 11.14**, by era, with survival estimates and confidence intervals shown in **Table 11.23**. Super-urgent, urgent, and non-urgent patients are included.



Patient survi	val after	first adult lu	ng only	transplant fr	om a DC	D
No. at risk on day 0						al) ee year
51	86	(73-93)	78	(64-87)	53	(38-66)
101	85	(77-91)	62 74	(51-70) (65-82)	49 54	(39-59) (44-63)
	No. at risk on day 0 51 99 101	No. at risk on day 0 On 51 86 99 71 101 85	No. at risk % Patient su One year 51 86 (73-93) 99 71 (61-79)	No. at risk on day 0 One year Tw 51 86 (73-93) 78 99 71 (61-79) 62 101 85 (77-91) 74	No. at risk on day 0	on day 0 One year Two year Three 51 86 (73-93) 78 (64-87) 53 99 71 (61-79) 62 (51-70) 49 101 85 (77-91) 74 (65-82) 54

11.3.6 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 11.15**. Superurgent, 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>0.2). The number of heart-lung transplant recipients was too small to analyse.

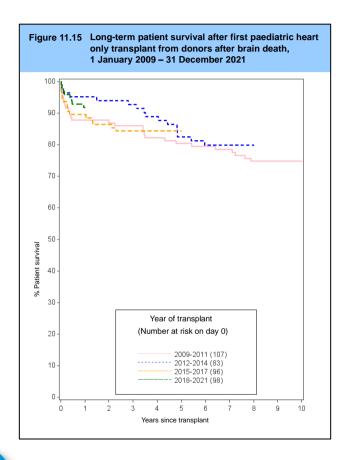


Table 11.24	Patient surv	ival aft	er first pac	ediatri	c heart on	ly trar	splant fro	m a Di	BD
Year of transplant	No. at risk on day 0	On	% Patione year		rvival (95% o year		idence inte e year	erval) Ten year	
2009-2011 2012-2014 2015-2017 2018-2021	107 83 96 98	88 95 90 92	(80-93) (88-98) (82-94) (84-96)	87 94 86	(79-92) (86-97) (78-92)	80 83 84	(72-87) (72-89) (75-90)	75	(65-82)

11.3.7 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 11.16**. Superurgent, urgent and non-urgent patients are included. **Table 11.25** shows the patient survival estimates and confidence intervals for one, two, five, and ten years post-transplant. There has been a significant reduction in two and five-year patient survival over the time periods shown, p=0.05 and p=0.03, respectively.

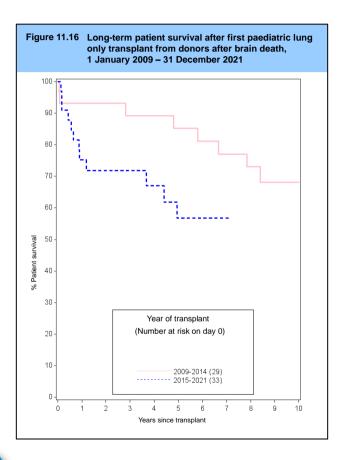
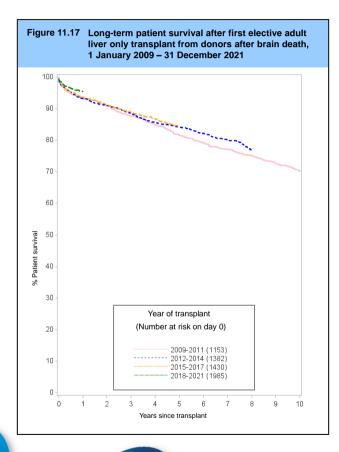


Table 11.25	Patient surv	ival af	ter first pa	ediatr	ic lung onl	y tran	splant fror	n a DE	BD
Year of transplant	No. at risk on day 0	On	% Patient survival (95% confidence interval) One year Two year Five year Ten year						
2009-2014 2015-2021	29 33	93 75	(75-98) (57-87)	93 72	(75-98) (53-84)	85 57	(65-94) (35-73)	68	(46-83)

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 11.17**. **Table 11.26** 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≥0.2). Whole liver transplants are included as well as reduced and split liver transplants.



Patient survival after first elective adult NHS Group 1 liver only transplan from donors after brain death									
No. at risk on day 0	On					n year			
1153	93	(92-95)	91	(89-93)	82	(79-84)	70	(67-73)	
1382	93	(92-95)	91	(89-92)	84	(82-86)		, ,	
1430	94	(92-95)	91	(90-93)	84	(82-86)			
1985	95	(94-96)		, ,		, ,			
	No. at risk on day 0 1153 1382 1430	No. at risk on day 0 On 1153 93 1382 93 1430 94	No. at risk on day 0 % Pati One year 1153 93 (92-95) 1382 93 (92-95) 1430 94 (92-95)	from donors after brain death No. at risk on day 0 % Patient surplement of the part of	from donors after brain death No. at risk on day 0 % Patient survival (95% One year) 1153 93 (92-95) 91 (89-93) 1382 93 (92-95) 91 (89-92) 1430 94 (92-95) 91 (90-93)	from donors after brain death No. at risk on day 0 % Patient survival (95% conference of the conference	No. at risk on day 0 % Patient survival (95% confidence into onday 0 Year Two year Five year 1153 93 (92-95) 91 (89-93) 82 (79-84) 1382 93 (92-95) 91 (89-92) 84 (82-86) 1430 94 (92-95) 91 (90-93) 84 (82-86)	from donors after brain death No. at risk on day 0 % Patient survival (95% confidence interval) on year Five year Te 1153 93 (92-95) 91 (89-93) 82 (79-84) 70 1382 93 (92-95) 91 (89-92) 84 (82-86) 1430 94 (92-95) 91 (90-93) 84 (82-86)	

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 11.18**. **Table 11.27** 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<0.001, and p=0.0001, respectively).

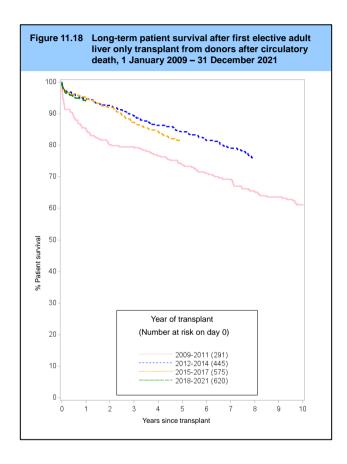


Table 11.27	Patient survival after first elective adult NHS Group 1 liver only transplant from donors after circulatory death									
Year of transplant	No. at risk on day 0	% Patient survival (95% confidence interval) One year Two year Five year Ten yea								
2009-2011 2012-2014 2015-2017 2018-2021	291 445 575 620	85 95 95 94	(81-89) (92-96) (93-96) (92-96)	80 93 92	(75-84) (90-95) (89-94)	74 84 81	(68-78) (80-87) (78-84)	61	(55-67)	

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

Figure 11.19 and **Table 11.28** 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.

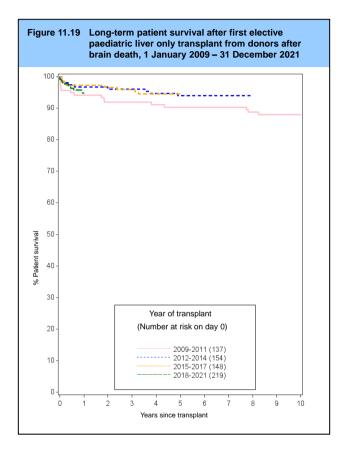


Table 11.28	Patient surv				paediatric	liver o	only transp	lant	
Year of transplant	No. at risk on day 0	On	% Patient survival (95% confidence interval) One year Two year Five year Ten y						
2009-2011 2012-2014 2015-2017 2018-2021	137 154 148 219	94 97 97 95	(89-97) (92-99) (93-99) (91-97)	92 96 97	(86-95) (91-98) (92-99)	90 94 95	(84-94) (89-97) (89-97)	88	(81-92)

11.5 Intestinal patient survival

Figure 11.20 and Table 11.29 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 included).

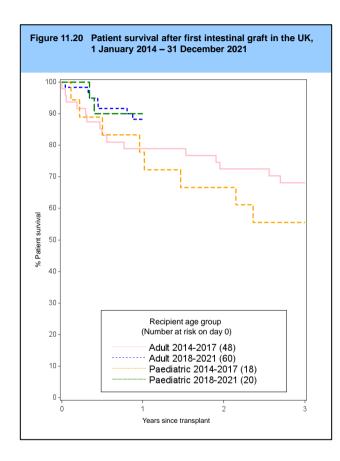
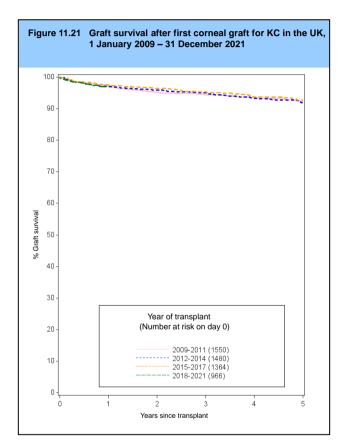


Table 11.29	Patient survi	val after	first intestin	al transp	plant in the U	K			
Recipient age group	No. at risk on day 0 O		% Patient survival (95% confidence in One year Two year						
Adult 2013-2016	48	79	(64-88)	72	(57-83)	68	(53-79)		
2017-2020 Paediatric	60	88	(77-94)	12	(07 00)	00	(00 10)		
2013-2016 2017-2020	18 20	78 90	(51-91) (66-97)	67	(40-83)	56	(31-75)		

11.6 Corneal graft survival

11.6.1 Cornea grafts for keratoconus

Figure 11.21 shows graft survival estimates for first corneal transplant for keratoconus (KC) for grafts in 2009-2011, 2012-2014, 2015-2017 and 2018-2021. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.30**.



Year of transplant 2009-2011	No. at risk	% Graft survival (95% confidence interval)									
	on day 0	Or	ne year	Tw	o year	Five year					
	1550	97	(96-98)	95	(94-96)	92	(91-94)				
2012-2014	1480	97	(96-98)	96	(95-97)	92	(90-93				
2015-2017	1364	98	(97-98)	96	(95-97)	93	(90-94				
2018-2021	966	97	(96-98)		,		•				

11.6.2 Cornea grafts for Fuchs endothelial dystrophy

Figure 11.22 shows graft survival estimates for first corneal transplant for Fuchs endothelial dystrophy (FED) for grafts in 2009-2011, 2012-2014, 2015-2017 and 2018-2021. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.31**.

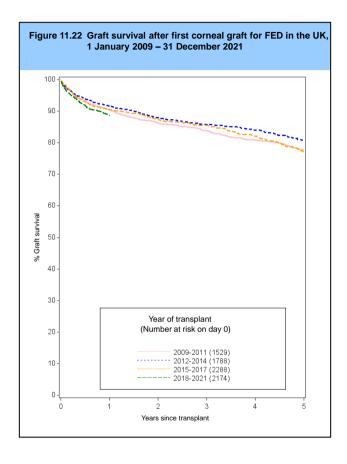
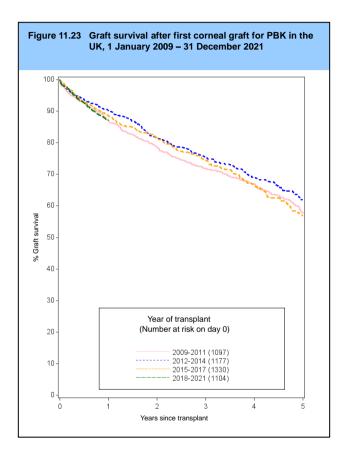


Table 11.31	Graft survival after first corneal graft for FED in the UK									
Year of transplant 2009-2011	No. at risk on day 0			•	5% confidend o year	nce interval) Five year				
	1529	90	(89-92)	86	(84-88)	78	(75-80)			
2012-2014 2015-2017	1788 2288	92 91	(90-93) (89-92)	88 87	(86-89) (86-89)	81 77	(78-83) (74-80)			
2018-2021	2174	89	(87-90)	01	(33 30)		(. 1 00)			

11.6.3 Cornea grafts for pseudophakic bullous keratopathy

Figure 11.23 shows graft survival estimates for first corneal transplant for pseudophakic bullous keratopathy (PBK) for in 2009-2011, 2012-2014, 2015-2017 and 2018-2021. Graft survival estimates and confidence intervals are shown by transplant year at one, two and five years in **Table 11.32**.



Year of	No. at risk		% Graft survival (95% confidence interval)									
eransplant on day 0 2009-2011 1097	on day 0	Or	ne year		vo year	Five year						
	1097	87	(85-89)	79	(76-81)	58	(54-61)					
2012-2014	1177	90	(88-92)	81	(79-84)	62	(58-66)					
2015-2017	1330	89	(87-90)	81	(79-83)	57	(52-61)					
2018-2021	1104	87	(85-89)		•							