



SECTION 12

Deceased Organ Transplant Outcome Data

SUMMARY

This chapter reports graft survival at one and five years of solid organ transplants performed in Australia and New Zealand. Data provided here is supplied by each of the transplant outcome registries.

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Transplant Outcomes

Graft survival is defined as having sufficient function from a transplanted organ to maintain life without other organ replacement therapy. The tables below give the percentage of patients at 1-year and 5-years post-transplant who are alive and have not undergone re-transplantation or recommenced organ replacement therapy. For kidney transplant recipients return to dialysis indicates a loss of graft function. For pancreas transplant recipients, the recommencement of insulin therapy is considered loss of graft function.

All tables show the percentage of grafts functioning at 1-year and 5-years post-transplant. Kidney graft survival is calculated using the Kaplan Meier method. Graft survival is censored at date of last follow up but not for death and is unadjusted.

Further information on transplant outcomes is available for each organ at the websites of the relevant transplant outcome registries.



www.anzdata.org.au

ANZDATA collects and reports the incidence, prevalence and outcome of dialysis treatment and kidney transplantation for patients with end stage kidney disease across Australia and New Zealand.



www.anzltr3.org

ANZLTR are the collection, collation and reporting of data relating to activity and outcomes of liver transplantation in Australia and New Zealand. Data is collected on all patients listed for liver and intestine transplantation in Australia and New Zealand



www.anzcotr.org.au

ANZCOTR contains information on every heart, heart/lung and lung transplant performed in Australia and New Zealand.



ANZIPTR
Australian and New Zealand
Islet and Pancreas Transplant Registry

www.anziptr.org

ANZIPTR registry is responsible for recording and maintaining the islet and pancreas transplants performed in Australia and New Zealand.

Kidney Graft Survival

Table 12.1 refers to all primary kidney-only transplants from deceased donors performed in Australia and New Zealand by era. Data is sourced from the Australia and New Zealand Dialysis and Transplant (ANZDATA) Registry.

Table 12.1 Graft survival rates following primary kidney-only transplantation, by era of transplant performed

Country	Era	Number at risk at 1 year	Graft Survival at 1 year	Number at risk at 5 years	Graft Survival at 5 years
Australia	2009-2014	2638	94.6%	1434	82.6%
	2010-2015	2844	94.4%	1158	82.8%
	2011-2016	3030	94.1%	794	82.4%
	2012-2017	2579	94.4%	411	83.6%
New Zealand	2009-2014	288	95.3%	158	82.4%
	2010-2015	303	95.9%	115	80.1%
	2011-2016	331	95.4%	80	79.9%
	2012-2017	282	96.1%	34	76.2%

Note: Survivor function is calculated over full data and evaluated at indicated times.

For more information regarding graft and patient survival, refer to the ANZDATA website www.anzdata.org.au

Liver Graft Survival

Table 12.2 refers to all primary liver-only transplants performed in Australia and New Zealand by era. Data is sourced from the Australia and New Zealand Liver Transplant (ANZLTR) Registry.

Table 12.2 Graft survival rates following primary liver-only transplantation, by era of transplant performed

Country	Era	Number at risk at 1 year	Graft Survival at 1 year	Number at risk at 5 years	Graft Survival at 5 years
Australia	2009-2014	1086	89.4%	805	81.2%
	2010-2015	1169	90.5%	669	82.7%
	2011-2016	1257	91.1%	524	83.9%
	2012-2017	1335	91.8%	379	84.6%
New Zealand	2009-2014	207	92.4%	156	83.8%
	2010-2015	211	91.7%	120	81.1%
	2011-2016	225	91.8%	83	78.9%
	2012-2017	233	91.0%	49	78.4%

Note: Survivor function is calculated over full data and evaluated at indicated times. Primary (first) graft survival data only.

For more information regarding graft and patient survival, refer to the ANZLTR website www.anzltr3.org.au

Cardiothoracic Graft Survival

Table 12.3 and 12.4 refer to all heart and lung transplants performed in Australia and New Zealand by era. Data is sourced from the Australia and New Zealand Cardiothoracic (ANZCOTR) Registry.

Heart

Table 12.3 Graft survival rates following heart transplantation, by era of transplant performed

Country	Era	Number at risk at 1 year	Graft Survival at 1 year	Number at risk at 5 years	Graft Survival at 5 years
Australia	2009-2014	418	87.6%	343	81.0%
	2010-2015	452	87.8%	312	81.9%
	2011-2016	505	89.5%	260	84.7%
	2012-2017	533	90.6%	207	85.4%
New Zealand	2009-2014	71	88.7%	54	76.1%
	2010-2015	72	87.5%	47	74.9%
	2011-2016	72	87.5%	39	75.7%
	2012-2017	85	89.4%	31	79.9%

Note: Survivor function is calculated over full data and evaluated at indicated times.

Lung

Table 12.4 Graft survival rates following lung transplantation, by era of transplant performed

Country	Era	Number at risk at 1 year	Graft Survival at 1 year	Number at risk at 5 years	Graft Survival at 5 years
Australia	2009-2014	894	92.4%	650	68.1%
	2010-2015	967	92.5%	603	70.4%
	2011-2016	1040	91.9%	519	72.2%
	2012-2017	1088	92.3%	408	73.5%
New Zealand	2009-2014	75	84.0%	49	60.9%
	2010-2015	90	84.4%	47	58.5%
	2011-2016	98	84.7%	42	57.7%
	2012-2017	108	84.3%	33	55.3%

Note: Survivor function is calculated over full data and evaluated at indicated times.

For more information regarding graft and patient survival, refer to the ANZCOTR website www.anzcotr.org.au

Pancreas Graft Survival

Table 12.5 refers to all pancreas transplants performed in Australia and New Zealand by era. Islet cell transplants are not included. Data is sourced from the Australia and New Zealand Islets and Pancreas (ANZIPTR) Registry.

Table 12.5 Graft survival rates following pancreas transplantation, by era of transplant performed

Country	Era	Number at risk at 1 year	Graft Survival at 1 year	Number at risk at 5 years	Graft Survival at 5 years
Australia	2009-2014	188	91.3%	138	85.2%
	2010-2015	197	91.7%	104	85.7%
	2011-2016	216	92.0%	76	85.6%
	2012-2017	237	93.4%	55	87.2%
New Zealand	2009-2014	13	92.3%	9	92.3%
	2010-2015	14	92.7%	8	92.9%
	2011-2016	15	93.3%	7	93.3%
	2012-2017	18	93.8%	4	93.8%

Note: Survivor function is calculated over full data and evaluated at indicated times.

For more information regarding graft and patient survival, refer to the ANZIPTR website www.anziptr.org.au