

# Chapter 13

## *Transplant Outcome*



2016  
Annual Report  
*Data to 31-Dec-2015*

This chapter summarises the outcomes for solid organ transplants performed in Australia and New Zealand and graft survival at 1 and 5 years.

For each organ, the definition of graft survival is similar: sufficient organ function to maintain life without other organ replacement therapy. Thus the endpoints for graft survival analyses are death or re-transplantation of organs. For kidneys, return to dialysis also indicates a loss of graft function, and for pancreas transplant the recommencement of insulin therapy.

Further information is available for each organ at the websites of the relevant transplant outcome registries ([www.anzdata.org.au](http://www.anzdata.org.au); [www.anzltr.org](http://www.anzltr.org); [www.anzcotr.org.au](http://www.anzcotr.org.au); [www.anziptr.org](http://www.anziptr.org)).

## Kidney Graft Survival

Table 13.1 refers to recipients of primary kidney-only transplants from deceased donors and shows the proportion of grafts functioning at 1 and 5 years, calculated using the Kaplan-Meier method. Graft survival is not censored for death and is unadjusted.

**Table 13.1**

Kidney Graft Survival, All Grafts by Era				
Organ transplant type	Era	n	1 year %	5 year %
<b>Kidney transplant (Australia) <sup>1</sup></b>	2007-2008	678	92	82
	2009-2010	854	95	82
	2011-2012	1044	94	-
	2013-2014	1134	95	-
<b>Kidney transplant (New Zealand) <sup>1</sup></b>	2007-2008	103	93	82
	2009-2010	95	96	85
	2011-2012	108	94	-
	2013-2014	113	95	-

1. Source Australia and New Zealand Dialysis and Transplant Registry (ANZDATA) [www.anzdata.org.au](http://www.anzdata.org.au)

# TRANSPLANT OUTCOME

## Cardiothoracic Graft Survival

Table 13.2 refers to all heart and lung transplants in Australia and New Zealand respectively, at 1 and 5 year survival post transplant per year.

Table 13.2

Cardiothoracic Graft Survival, All Grafts by Era				
Organ transplant type	Year	n	1 year %	5 year %
Heart transplant (Australia) <sup>2</sup>	2009	60	88.3	83.3
	2010	65	87.7	78.1
	2011	65	84.6	81.3
	2012	73	87.7	-
Heart transplant (New Zealand) <sup>2</sup>	2009	11	90.9	90.9
	2010	11	81.8	72.7
	2011	11	90.9	81.8
	2012	12	91.7	-
Lung transplant (Australia) <sup>2</sup>	2009	122	91	68.9
	2010	126	96.8	63
	2011	162	89.5	70.8
	2012	149	87.2	-
Lung transplant (New Zealand) <sup>2</sup>	2009	8	75	62.5
	2010	9	100	66.7
	2011	10	100	87.5
	2012	12	58.3	-

2. Source Australia and New Zealand Cardiothoracic Organ Transplant Registry (ANZCOTR) [www.anzcotr.org.au](http://www.anzcotr.org.au)

## Liver Graft Survival

Table 13.3 refers to all primary liver transplants performed per era, in Australia and New Zealand combined.

Table 13.3

Liver Graft Survival, All Grafts by Era				
Organ transplant type	Era	n	1 year %	5 year %
Liver transplant (Australia) <sup>3</sup>	1996 - 2000	721	81	73
	2001 – 2005	748	88	79
	2006 – 2010	901	89	78
	2011 - 2015	1193	91	85
Liver transplant (New Zealand) <sup>3</sup>	1996 – 2000	73	96	80
	2001 – 2005	176	90	83
	2006 - 2010	188	95	90
	2011 - 2015	206	90	82

3. Source Australia and New Zealand Liver Transplant Registry (ANZLTR) - [www.anzltr.org.au](http://www.anzltr.org.au)

## Pancreas Graft Survival

Table 8.4 shows pancreas survival (pancreas component of combined kidney-pancreas transplants) censored for death and includes all pancreas transplants performed per era, in Australia and New Zealand combined.

Table 13.4

Pancreas Graft Survival, All Grafts by Era				
Organ transplant type	Era	n	1 year %	5 year %
Pancreas transplant (Australia and New Zealand) <sup>4</sup>	1984-2000	179	80.2	73.7
	1984-2015	701	86.8	81.8

4. Source Australia and New Zealand Islets and Pancreas Transplant Registry (ANZIPTR) - <http://anziptr.org/>



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