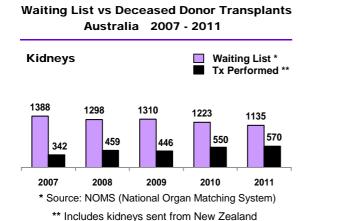
KIDNEY DONATION

Figure 56 shows the number of Australian and New Zealand patients waiting for a kidney transplant and the number of deceased donor transplants performed for each year from 2007-2011.

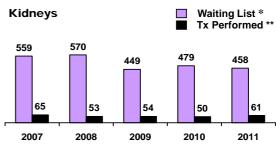
There were 26 combined kidney/pancreas, four liver/kidney, one double lung/kidney and one pancreas islets/kidney transplanted in 2011.

In New Zealand there were three combined kidney/pancreas and one liver/kidney transplanted in 2011.

Figure 56



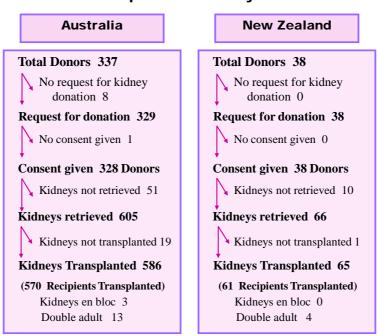
Waiting List vs Deceased Donor Transplants
New Zealand 2007 - 2011



- * Source of Waiting List NZ Donor Coordinators
- ** Not included kidneys sent to Australia: 2010 (2)

Figure 57

Outcome of Request for Kidney Donation 2011



Refer to Appendices for reasons kidneys were not requested, not retrieved and not transplanted

Figure 58

Age of Donors Providing Transplanted Kidneys 2006 - 2011												
						Age	Group					
	Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85-94	Total
	2006	1 (1)	11	34	19	28	39	36 (1x)	20 (1x)	3 (1x)	0	191
	2007	3 (3)	4	35	25	21	32 (1x)	40 (1x)	14 (1x)	6 (1x)	0	180
Australia	2008	1 (1)	6	36	31	42	43	49 (1x)	23	7	0	238
	2009	2 (2)	4	33	29	28	55	53 (1x)	23 (2x)	2 (1x)	0	229
	2010	3 (2)	5	26 (1*)	36	59	56	63	30 (2x)	7 (1x)	0	285
	2011	3 (3)	10	34 (1x)	29	40	68	71 (5x)	38 (3x)	6 (4x)	0	299
	2006	0	1	6	5	3	3	3	1	0	0	22
	2007	0	1	5	1	6	12	9	1	0	0	35
New	2008	0	1	5	3	8	7	2	1	0	0	27
Zealand	2009	1 (1)	2 (1)	6	2	5	9	4	2	0	0	31
	2010	0	0	6	4	7 (1x)	7 (1x)	3 (2x)	1	0	0	28
	2011	0	3	9	4	4	8 (1x)	4 (2x)	1 (1x)	0	0	33
	() En-Bloc Kidneys * Horseshoe Kidney (Adult) x Double Adult											

Figure 59

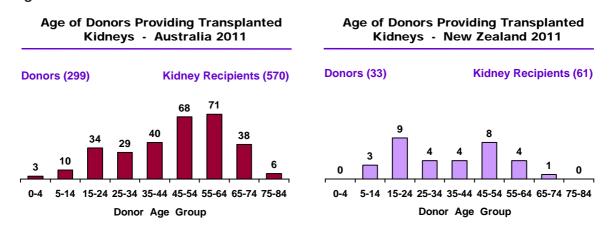


Figure 60

QLD

NSW/ACT VIC/TAS

Australia and New Zealand 550 570 2011 182 144 180 194 94 119 54 58 40 55 50 61

SA/NT

WA

AUST

ΝZ

Deceased Donor Kidney Transplants by Transplant State 2010 - 2011

Figure 61

Regional Outcome of Requests for Kidney Donation 1989 - 2011												
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ **		
Total Donors	964	1454	118	1189	92	637	51	426	4931	708		
Requested	961	1433	117	1169	91	626	50	422	4869	703		
Consented	961	1429	117	1166	91	625	50	421	4860	703		
Retrieved	1867	2726	223	2238	173	1175	100	805	9307	1311		
Transplanted *	1812	2636	216	2132	164	1108	94	776	8938	1219		
	(14) (10x)	(14) (9x)	(2)	(10) (1x)	(2)	(5) (18x)	(1x)	(5) (6x)	(52) (45x)	(5) (13x)		
	* Recipients () En bloc (x) Double Adult ** New Zealand 1993 - 2011											

DONOR KIDNEY FUNCTION

TERMINAL LEVELS OF SERUM CREATININE

AUSTRALIA

In 2011 in Australia, 12% (38 donors) had a terminal serum creatinine concentration of $\geq 125~\mu mol/L$ and 19% (57 donors) had a terminal serum urea concentration of $\geq 9~mmol/L$, shown in Figure 62.

NEW ZEALAND

There were 9% (three donors) in New Zealand with a terminal serum creatinine concentration of $\geq 125~\mu mol/L$ and 9% (three donors) with a terminal serum urea concentration of $\geq 9~mmol/L$ in 2011.

Figure 62

Terminal Serum Creatinine Levels 2006 - 2011												
Creatinine			Austi	ralia		New Zealand						
(µmol/L)	2006	2007	2008	2009	2010	2011	2006	2007	2008	2009	2010	2011
00-99	77%	73%	72%	77%	78%	76%	74%	85%	87%	87%	90%	81%
100-124	10%	11%	12%	9%	6%	11%	10.5%	15%	7%	5%	3%	9%
125-149	6%	8%	4%	5%	4%	5%	10.5%	0%	3%	5%	3%	7%
150-174	2%	2%	4%	2%	4%	3%	5%	0%	3%	3%	3%	0%
175-199	1%	1%	2%	1%	2%	1%	0%	0%	0%	0%	0%	0%
200-224	<1%	0%	<1%	1%	2%	1%	0%	0%	0%	0%	0%	>3%
225-249	1%	1%	1%	1%	1%	1%	0%	0%	0%	0%	0%	0%
>250	3%	4%	5%	4%	3%	2%	0%	0%	0%	0%	0%	0%

REASONS KIDNEYS WERE UNUSABLE

KIDNEY BIOPSY AT RETRIEVAL

There were 32 donors (10%) who had a biopsy of the kidneys taken at retrieval in 2011 in Australia and ten donors (30%) in New Zealand.

Since 2000, there have been 13% (325) biopsies from 2580 kidney donors in Australia and 34% (137) from 399 kidney donors in New Zealand.

The reasons for kidneys that were unusable and the donor age are shown in Figures 63 and 64.

Figure 63

Reasons Kidneys Unused 2006 - 2011											
		2006	2007	2008	2009	2010	2011				
	Renal disease in donor	6	5	6	1	4	7				
	Cancer in donor	1	0	3	2	2	2				
	Anatomical	0	0	1	1	2	2				
	Surgical	3	0	2	0	0	1				
	Trauma	0	0	1	0	0	0				
	Marginal donor	0	0	0	0	3	2				
	Poor perfusion	0	0	0	0	4	0				
Australia	Recipient problems	1	1	3	1	0	0				
	Hepatitis B Nat Positive	0	0	0	0	0	1				
	Hepatitis C Positive	0	1	0	0	0	2				
	High risk donor	0	1	0	0	0	0				
	No suitable recipient	0	0	0	0	1	1				
	Recent asymptomatic peritonitis	0	1	0	0	0	0				
	Transport Delays	0	0	0	0	0	1				
	Total	11	9	16	5	16	19				
	Book Book to Love	4		,	4.		0				
	Renal disease in donor	1	3	6	16	4	0				
New	Anatomical	0	0	0	1	0	0				
Zealand	No suitable recipient	0	0	0	0	0	1				
	Surgical	0	0	0	0	2	0				
	Total	1	3	6	17	6	1				

Figure 64

Donor Age of Unused Kidneys 2006 - 2011											
					Αç	ge Grou	ıps				
		00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	Total
	2006	0	0	0	1	0	1	2	2	1	7
	2007	0	0	0	3	1	1	0	1	1	7
Australia	2008	0	0	1	1	0	4	3	2	2	13
Australia	2009	0	0	0	0	0	0	2	2	0	4
	2010	0	0	0	0	1	2	2	5	0	10
	2011	0	0	0	2	0	1	3	6	1	13
	2006	0	0	0	0	0	0	1	0	0	1
	2007	0	0	0	0	0	1	0	1	0	2
New	2008	0	0	0	0	0	1	1	1	0	3
Zealand	2009	0	0	0	0	1	4	3	2	0	10
	2010	0	0	0	1	0	0	1	1	0	3
	2011	0	0	0	0	0	1	0	0	0	1

KIDNEY PERFUSION METHODS

Where kidneys were perfused with only one solution, Ross (95%) and UW (5%) were the only solutions used in Australia in 2011.

In New Zealand UW was the only solution used in 2011 (Figure 65).

UW was used as the second perfusion solution in 99% of cases and Ross (1%) in Australia in 2011 (Figure 66).

Figure 65

Kidney Perfusion with Only One Solution 2006 - 2011													
			Aust	ralia			New Zealand						
	2006	2007	2008	2009	2010	2011	2006	2007	2008	2009	2010	2011	
Ross	16	18	16	17	46	75	0	0	0	0	0	0	
UW	0	2	2	2	12	4	42	36	0	41	62	66	
нтк	38	7	24	10	0	0	0	28	59	32	0	0	
Celsior	2	0	0	0	0	0	0	0	0	0	0	0	
Total	56	27	42	29	58	79	42	64	59	73	62	66	

Figure 66

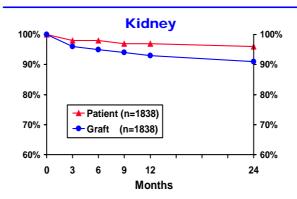
Second Perfusion Solution - Kidneys 2006 - 2011														
	Australia							New Zealand						
	2006	2007	2008	2009	2010	2011	2006	2007	2008	2009	2010	2011		
Ross	4	8	16	16	4	4	0	0	0	0	0	0		
UW	323	320	399	402	508	522	0	4	0	0	0	0		
НТК	2	0	20	10	0	0	0	0	0	0	0	0		
Total	329	328	435	428	512	526	0	4	0	0	0	0		

KIDNEY TRANSPLANT OUTCOME

Figure 67 shows the patient and graft outcome for kidney transplants performed over the preceding five years in Australia and New Zealand.

Figure 67

Primary Deceased Patient and Graft Survival Australia 2006 - 2010



Primary Deceased Patient and Graft Survival New Zealand 2006 - 2010

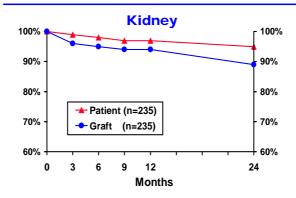
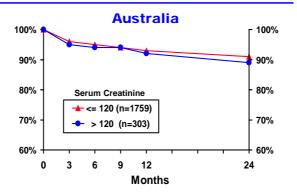


Figure 68

Primary Deceased Kidney Graft Survival Terminal Serum Creatinine 2006 - 2010



This data has been provided by the ANZDATA (Australia and New Zealand Dialysis and Transplant) Registry and further information on kidney transplant outcome is available from their website - www.anzdata.org.au