

2006

SUMMARY - AUSTRALIA

1. In 2006 there were: 202 donors (10.0 donors per million population [dpmp] with 372 kidneys (including one en bloc and three double adult), (368 recipients), 153 livers (161 recipients), 76 hearts (including six heart/lungs), 181 lungs (77 double, six heart/lungs and 15 single lungs), 34 pancreas and seven pancreas islets transplanted into recipients. In addition there were 162 corneas, 34 heart valves and 17 bone donations.
2. In 2006 there were eight donations after cardiac death (DCD). Four of these donations occurred in New South Wales, three in South Australia and one in Victoria.
3. The highest donor rate was in South Australia (23 dpmp), followed by Tasmania (16 dpmp), Western Australia and the Northern Territory (10 dpmp), Queensland and Victoria (9 dpmp), New South Wales and the Australian Capital Territory (ACT) both (7 dpmp).
4. The mean age of donors was 43.3 years, median 45.3 years with a range of 1.3 - 78.2 years.
5. In 2006, the major cause of death in 57% of donors was (CVA) cerebrovascular accident, while road trauma caused 16% of all donor deaths.
6. Seventy percent of donors with a known occupation were classified as students, white and blue collar, tradesperson, management and professional worker. An additional 11% were retired, 9% home duties and 14% were unknown.
The majority of donors were Caucasoid and their religion was recorded as Christian.
7. Authority for organ donation was sought in 65% of cases by the Intensive Care Clinician, the Donor Coordinator in 8% and volunteered by the family in 45 (22%) of cases.
Coronial inquiries were required in 40% of all donors.
8. The donation of more than one organ occurred in 87% of donors. The average number of organs transplanted per donor was 3.7.
9. The consent rate for specific organs were 100% of kidneys, 99% livers, 97% hearts, 98% lungs and 98% pancreas.
10. In 2006, from donors where organs had been retrieved, 97% of kidneys, 94% of livers, 92% of hearts, 100% of lungs and 45% of pancreas (34 pancreas and seven pancreas islets) were actually transplanted.
11. Twelve livers were sent from Australia to New Zealand in 2006.

SUMMARY - NEW ZEALAND

1. In 2006 there were: 25 donors (6.0 donors per million population [dpmp], which resulted in 41 kidneys (41 recipients), 24 livers (28 recipients) nine hearts, 24 lungs (eleven double and two single lungs) and six pancreas being transplanted into recipients. In addition 16 corneas and six heart valves were sent to the tissue bank. There was no bone donation. There were no donation after cardiac death donors in 2006.
2. The mean age of donors was 36.5 years and median 35.4 years, with an age range of 11.6 - 69.4 years.
3. The major cause of death in 2006 was cerebrovascular accident (CVA) in 56% of donors, followed by road trauma, 32%.
4. Sixty nine percent of donors with a known occupation were classified as students, white and blue collar workers, tradespersons, professional and a small business owner. Two donors, 8%, were home duties and two donors, 8% were retired. Nine donors, 36% were unknown.
Sixty eight percent of donors (17) were Caucasoid and 28% (7) donors were Maori.
The religion was unknown for 88% of donors.
5. Authority for organ donation was sought in 72% of cases by the Intensive Care Clinician and volunteered by the family in six (24%) of cases.
Coronial inquiries were required in 60% of all donors.
6. The donation of more than one organ occurred in 92% of donors. The average number of organs transplanted per donor was 3.8.
7. The consent rate for specific organs were 100% of kidneys, 100% livers, 83% hearts, 96% lungs and 100% pancreas.
8. In 2006, from donors where organs had been retrieved, 98% of kidneys, 100% of livers, 100% of hearts, 92% of lungs and 100% of pancreas were actually transplanted.
9. New Zealand has provided 21 kidneys, 208 livers, 23 hearts and 70 lungs to the Australian Transplant Programs since 1989.
10. Eight livers, one heart and five lungs were sent from New Zealand to Australia in 2006.

ORGAN DONORS IN AUSTRALIA AND NEW ZEALAND

Figure 1

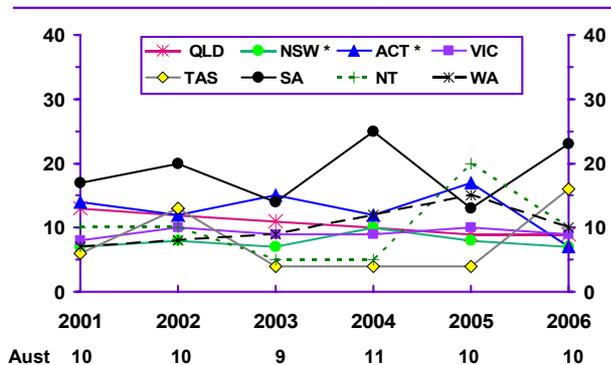
Number of Donors** by Retrieval State^x 2002 - 2006					
() Donors Per Million					
	2002	2003	2004	2005	2006
Queensland	44 (12)	40 (11)	39 (10)	35 (9)	36 (9)
New South Wales + *	55 (9+) (8*)	46 (7+) (7*)	63 (10+) (9*)	54 (8+) (8*)	49 (7+) (7*)
ACT + *	6 (12+) (19*)	8 (15+) (25*)	6 (12+) (19*)	9 (17+) (28*)	4 (7+) (12*)
Victoria	47 (10)	42 (9)	45 (9)	50 (10)	46 ^x (9)
Tasmania	6 (13)	2 (4)	2 (4)	2 (4)	8 (16)
South Australia	31 (20)	22 (14)	39 (25)	20 (13)	36 (23)
Northern Territory	2 (10)	1 (5)	1 (5)	4 (20)	2 (10)
Western Australia	15 (8)	18 (9)	23 (12)	30 (15)	21 (10)
Australia	206 (10)	179 (9)	218 (11)	204 (10)	202 (10)
New Zealand	38 (10)	40 (10)	40 (10)	29 (7)	25 (6)

^x Refers to donors retrieved by retrieval State (ie Albury-NSW donors retrieved by Victoria)
 + NSW population excludes residents of the NSW Southern Area Health Service (included in ACT population)
 * NSW population includes residents of the NSW Southern Area Health Service (excluded from ACT population)
 Medical services from the ACT service the NSW Southern Area Health Region. Population data—June 2006 ABS 3101.0

** This figure relates to the number of donors for whom the retrieval operation commenced for the purpose of transplantation. It includes donors who may have been deemed medically unsuitable at the time of surgery or after removal of organs.

Figure 2

Number of Donors in Australia 2001 - 2006 Per Million Population



* NSW population excludes residents of the NSW Southern Area Health Service
 * ACT population includes residents of the NSW Southern Area Health Service

Donor figures for Australia for 2006 include two donors who went to the operating theatre but organs were not retrieved.

One South Australian donor had an infection and medically unsuitable organs and one Western Australian donor had diseased organs.

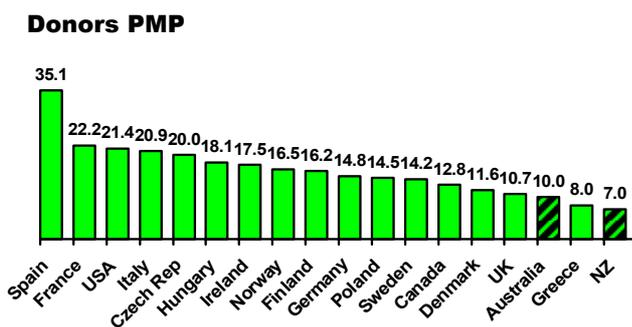
All New Zealand donors had organs retrieved.

In 2006 there was a range between the States of seven donors per million population (dpmp) in New South Wales and the ACT to 23 dpmp in South Australia.

The ACT had 12 dpmp when the NSW Southern Area Health Service population was excluded.

Figure 3

International Donor Statistics 2005



Source: IRODaT (International Registry of Organ Donation and Transplantation)

Figure 3 shows the number of donors per million population (dpmp) of Australia and New Zealand compared to other Countries. Note that the international definition of an organ donor is used for these comparisons (i.e. at least one organ is transplanted from that donor). This definition differs to that used in Figure 1 above.

Data for 2006 was not available at the time of publication.

Figure 4

Waiting List for Organs by Transplant Region 01-Jan-2007							
Organs	QLD	NSW/ACT	VIC/TAS	SA/NT	WA	AUST	NZ
Kidney	127	728	375	52	112	1394	433
Liver	34	46	20	16	4	120	13
Heart	5	20	10	-	5	40	5
Heart / Lung	3	3	3	-	1	10	-
Lung	14	16	45	-	3	78	8
Pancreas / Kidney	-	23	16	-	-	39	4
Pancreas Only	-	2	1	-	-	3	-
Pancreas Islets	-	4	2	-	-	6	-
Total	183	842	472	68	125	1690	463

Data provided by NOMS (National Organ Matching System), National Liver, ANZ Cardiothoracic and Pancreas Registries
Dr John Kanellis and A/Prof Frank Ierino (Pancreas-Victoria)
The New Zealand Donor Coordinators

Figure 5

Transplanted Organs Donated in Australia and New Zealand by State of Transplantation 2006							
Organs	QLD	NSW	VIC	SA	WA	AUST	NZ
Kidneys (Total)	100	195	185	98	63	641	90
Deceased Donor	58	105	99	72	34	368	41
Live Donor * Per Million []	42 (42%) [10]	90 (46%) [13]	86 (46%) [15]	26 (27%) [15]	29 (46%) [14]	273 (43%) [13]	49 (54%) [12]
Liver (Recipients)	31	53	40	14	19	157	32
Live Donor ⁺	-	2	-	-	-	2	4
Heart	16	19	29	-	7	71	8
Domino #	-	-	1	-	-	1	-
Heart / Lung	2	1	3	-	-	6	-
Lung (Recipients)	8 double 2 single	32 double 2 single	35 double 9 single	-	4 double 3 single	79 double 16 single	9 double 1 single
Pancreas / Kidney	-	25	8	-	-	33	6
Pancreas Only	-	1	-	-	-	1	-
Pancreas Islets	-	7	-	-	-	7	-
Total	159	337	310	112	96	1014	150

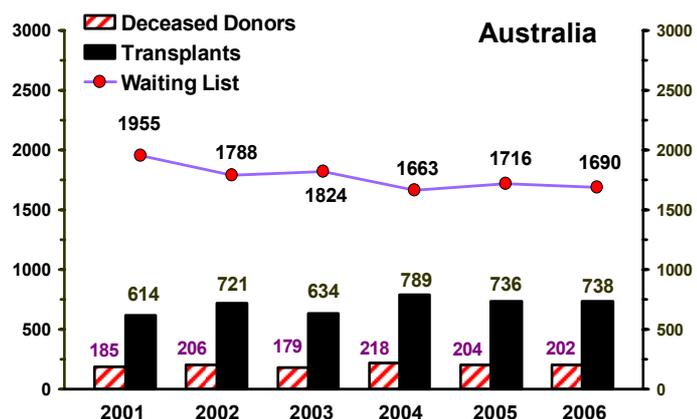
* Living Kidney Donor Registry (Anzdata) + National Liver Registry # ANZ Cardiothoracic Registry

Figure 6

Number of Deceased Donors and Solid Organ Transplants and Patients on the Waiting List 2001 - 2006

The number of donors, transplants, and patients on the waiting list from 2000 to 2006.

Transplants includes those from donor organs from Australia and New Zealand.



DONORS PER THOUSAND DEATHS

Historically the comparison of organ donation rates between states and countries has been based upon donors per million population (dpmp).

However, using the number of deaths and therefore the ability of a deceased person to be a donor as the denominator may be a more reasonable way of comparing donation rates shown in Figures 4 and 5.

Australian data on deaths for 2006 is not available until August of 2007.
New Zealand 2006 data was also not available.

Figure 7

Donors per Million Population and Donors per Thousand Deaths ()										
Australian States - Australia and New Zealand 2001 - 2005										
Year	QLD	NSW *	ACT *	VIC	TAS	SA	NT	WA	AUST	NZ
2001	13 (2.1)	7 (1.1)	22 (4.9)	8 (1.2)	6 (0.8)	17 (2.1)	10 (2.3)	7 (1.2)	10 (1.4)	10 (1.3)
2002	12 (1.9)	8 (1.2)	19 (4.6)	10 (1.4)	13 (1.5)	20 (2.7)	10 (2.4)	8 (1.3)	10 (1.6)	10 (1.3)
2003	11 (1.6)	7 (0.9)	25 (5.8)	9 (1.2)	4 (0.5)	14 (1.8)	5 (1.1)	9 (1.6)	9 (1.3)	10 (1.4)
2004	10 (1.6)	9 (1.4)	19 (4.2)	9 (1.4)	4 (0.5)	25 (3.4)	5 (1.1)	12 (2.1)	11 (1.6)	10 (1.4)
2005	9 (1.5)	8 (1.2)	28 (6.0)	10 (1.5)	4 (0.5)	13 (1.7)	20 (4.1)	15 (2.6)	10 (1.6)	7 (1.1)

* Donors per million population refers to the NSW and the ACT actual population.
Data for deaths in the NSW Southern Area Health Service was not available.

Figure 8

Donors per Thousand Deaths Aged <75 years 2001 - 2005										
() Represents % of Total Deaths Aged <75 years *										
Year	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ
2001	4.9 (43%)	2.6 (39%)	11.1 (44%)	3.2 (38%)	1.9 (39%)	5.3 (36%)	2.9 (78%)	2.8 (42%)	3.6 (40%)	3.2 (41%)
2002	4.4 (40%)	3.0 (38%)	11.6 (38%)	3.8 (34%)	3.9 (38%)	7.4 (35%)	2.7 (79%)	3.2 (40%)	4.0 (38%)	3.3 (41%)
2003	4.1 (40%)	2.5 (37%)	8.3 (42%)	3.5 (36%)	1.3 (38%)	5.0 (34%)	1.5 (76%)	3.9 (40%)	3.4 (38%)	3.4 (40%)
2004	4.0 (39%)	3.7 (35%)	10.1 (42%)	3.7 (34%)	1.4 (36%)	9.8 (34%)	1.4 (78%)	4.8 (40%)	4.3 (37%)	3.4 (48%)
2005	3.6 (39%)	3.2 (36%)	16.5 (36%)	4.4 (35%)	1.3 (37%)	4.8 (34%)	5.1 (78%)	6.3 (39%)	4.1 (37%)	2.7 (40%)

* The number of actual donors is compared to the number of deaths that are aged less than 75 years (Figure 8).
Australian Bureau of Statistics - Deaths 3302.0 and Statistics NZ

DONOR POSTCODES

In the last five years (2002-2006) there have been 13 deceased donors from overseas in Australia and four in New Zealand. There were two donors from overseas in 2006, one each in Queensland and South Australia and one in New Zealand.

Figure 9

Location of Postcodes of Deceased Donors 2002 - 2006										
Postcode	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	
Metropolitan	92 (47%)	196 (73%)	22 (67%)	155 (68%)	0 (0%)	100 (68%)	0 (0%)	69 (64%)	633 (63%)	
Inner Regional	54 (28%)	56 (21%)	8 (24%)	58 (25%)	9 (45%)	23 (16%)	0 (0%)	14 (13%)	222 (22%)	
Outer Regional	34 (18%)	11 (4%)	3 (9%)	15 (7%)	8 (40%)	10 (6%)	3 (30%)	10 (10%)	94 (9%)	
Rural	9 (5%)	2 (1%)	0 (0%)	1 (<1%)	3 (15%)	12 (8%)	6 (60%)	13 (12%)	46 (5%)	
Overseas	5 (2%)	3 (1%)	0 (0%)	0 (0%)	0 (0%)	3 (2%)	1 (10%)	1 (1%)	13 (1%)	
Total	194	268	33	229	20	148	10	107	1009	

DONOR PROFILE

AGE AND GENDER DISTRIBUTION

In Australia in 2006, 12% (24 donors) were 65 years or older and 2% (four donors) were aged 75 years or older. The oldest donor was 78.2 years (Figure 11).

Donor gender in each State, Australia and New Zealand is shown in five year cohorts in Figure 10.

The mean age for donors in Australia increased slightly to 43.3 years in 2006 from 42.8 years in 2005. The mean age for Australian States ranged from 36.4 years in Tasmania to 51.0 years in the ACT.

The median age for Australia was 45.3 years in 2006, the same as in 2005. The age range was between 16.2 months and 78.2 years.

In Australian States the median age ranged from 34.0 years in Tasmania to 56.6 years in the ACT.

The mean and median age for donors from 1992 to 2006 for each State are shown in three year cohorts in Figures 12 and 13.

In New Zealand in 2006 the mean age decreased to 36.5 years from 45.3 years and the median age from 48.6 years to 35.4 years in 2006. One donor was over 65 years. The age range was 11.6 years to 69.4 years.

Figure 14 shows donors according to age and gender in Australia and New Zealand for the years 1998-2000, 2001-2003 and 2004-2006.

Figure 10

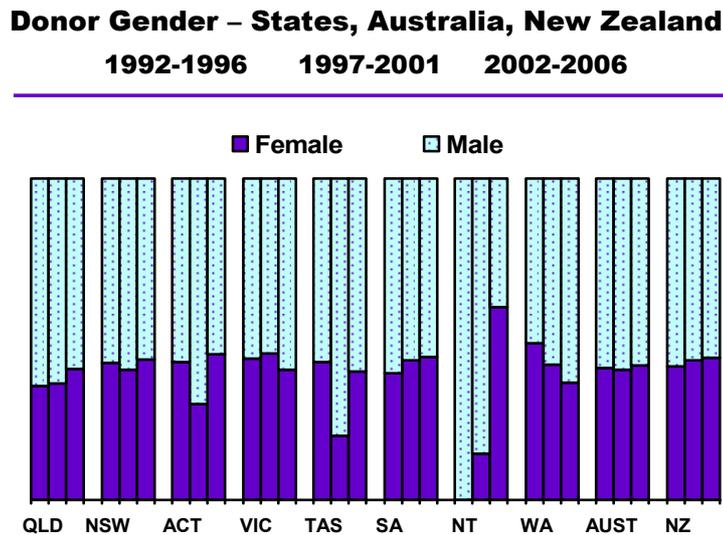


Figure 11

Age of Male and Female Donors 1998 - 2006								
	Year	Mean (years)			Median (years)			Range in Years
		All	Female	Male	All	Female	Male	
Aust	1998	40.4	43.8	37.7	43.2	46.2	37.2	0.94 - 73.7
	1999	39.3	43.2	36.4	42.5	47.5	36.2	0.21 - 77.1
	2000	41.1	42.6	40.0	44.1	45.1	43.0	0.4 - 77.9
	2001	40.0	43.1	38.3	42.9	47.3	39.9	6.4 - 77.4
	2002	38.7	39.4	38.3	40.8	42.1	40.0	0.01 - 78.8
	2003	42.7	46.4	40.1	45.5	48.4	42.1	0.96 - 85.3
	2004	43.2	44.0	42.7	46.6	47.4	44.1	1.12 - 80.5
	2005	42.8	46.8	39.3	45.3	50.0	40.5	0.6 - 79.5
2006	43.3	45.5	41.3	45.3	48.0	44.1	1.3 - 78.2	
NZ	1998	38.0	45.0	34.5	35.9	50.1	32.5	2.8 - 69.7
	1999	42.7	45.5	39.3	49.7	50.4	40.3	3.1 - 69.7
	2000	39.7	38.3	40.9	42.6	42.6	42.2	5.5 - 68.5
	2001	41.1	44.7	37.7	42.6	48.1	35.2	16.6 - 68.9
	2002	40.3	38.5	42.1	42.6	42.0	45.8	7.7 - 66.7
	2003	38.0	35.6	39.4	39.7	40.3	39.0	13.0 - 75.1
	2004	43.0	43.4	42.7	46.1	47.7	43.4	1.15 - 78.2
	2005	45.3	47.1	43.9	48.6	48.6	45.4	17.4 - 64.4
2006	36.5	41.6	33.2	35.4	38.4	30.0	11.6 - 69.4	

Figure 12

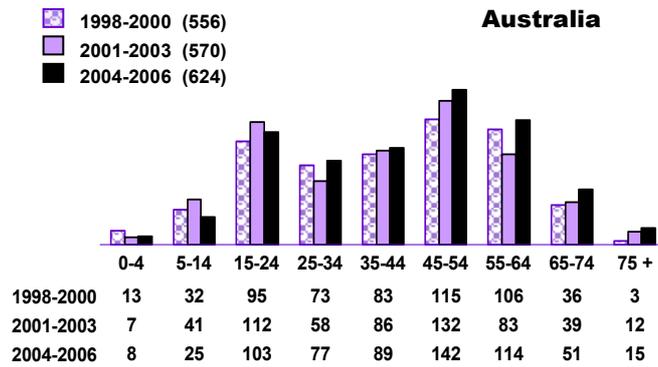
Australian States Mean Age of Donors								
Years	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
1992 - 1994	31.9	38.2	35.3	39.8	27.4	38.2	29.3	35.0
1995 - 1997	34.2	38.5	44.2	42.0	33.2	41.4	36.0	36.9
1998 - 2000	38.4	41.9	37.2	42.9	39.7	38.3	37.0	37.3
2001 - 2003	38.6	41.4	40.0	43.8	34.3	41.2	44.7	32.5
2004 - 2006	39.9	46.5	40.4	42.6	33.4	43.6	38.9	43.2

Figure 13

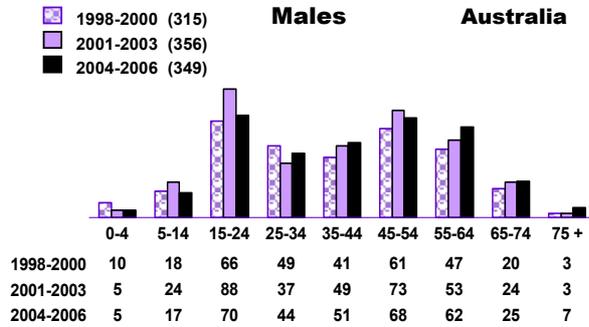
Australian States Median Age of Donors								
Years	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
1992 - 1994	31.4	40.1	27.2	40.7	25.1	38.6	27.9	33.6
1995 - 1997	37.5	38.4	45.9	45.5	33.9	45.4	35.5	39.4
1998 - 2000	40.3	43.6	37.2	46.4	42.6	42.4	32.8	44.7
2001 - 2003	40.5	42.9	37.9	48.8	21.4	44.7	47.6	31.8
2004 - 2006	42.2	48.3	45.8	46.9	34.0	47.2	42.4	44.6

Figure 14

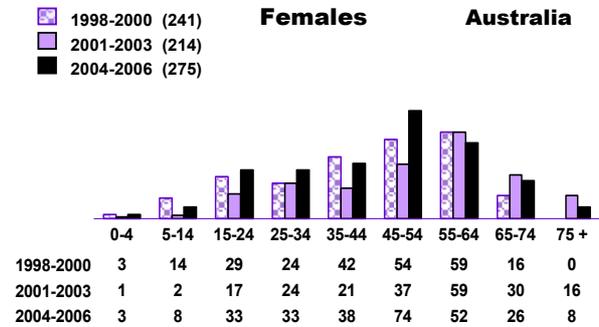
Age Group of Deceased Donors



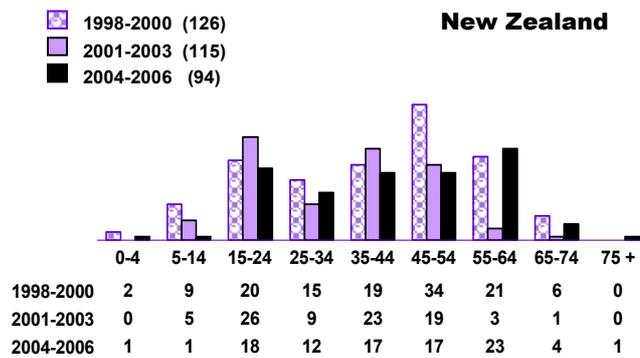
Age and Gender Distribution of Donors



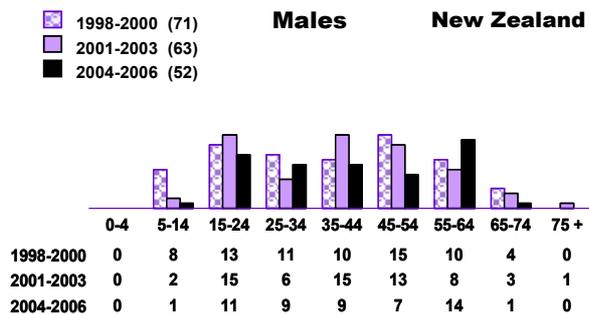
Age and Gender Distribution of Donors



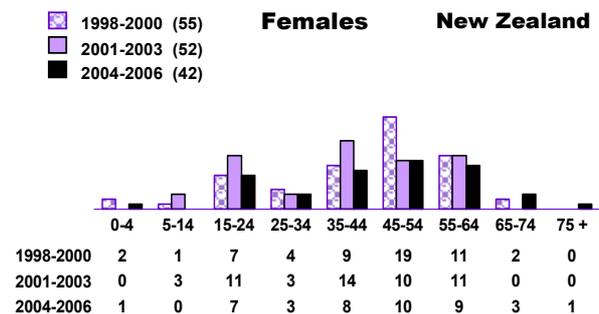
Age Group of Deceased Donors



Age and Gender Distribution of Donors



Age and Gender Distribution of Donors



CAUSE OF DEATH - ALL DONORS

Figure 15 shows the cause of death for all organ donors in Australia since 1989 and for New Zealand since 1993.

In Australia road trauma is a reducing cause of death, whereas cerebrovascular accident (CVA) is increasing since 1989.

In the period 2001-2006 CVA accounted for 54% of donor deaths and road trauma 18%.

Figure 16 shows the cause of death by percentage in each Australian State from 2001 to 2006.

Figure 17 shows detailed cause of death by gender for 2006.

Figure 18 shows that CVA is the main cause of death in donors 55 years and older, 70% in Australia and 100% in New Zealand, whereas in the 15-34 year age group, trauma accounted for 47% of all deaths in Australia and 45% in New Zealand in 2006.

The cause of death by age group is shown in Figure 19 for each Australian State for 2006.

Figures 21-23 show the occupation, ethnic origin and religious denomination of donors in Australia and New Zealand for 2002-2006.

Figure 15

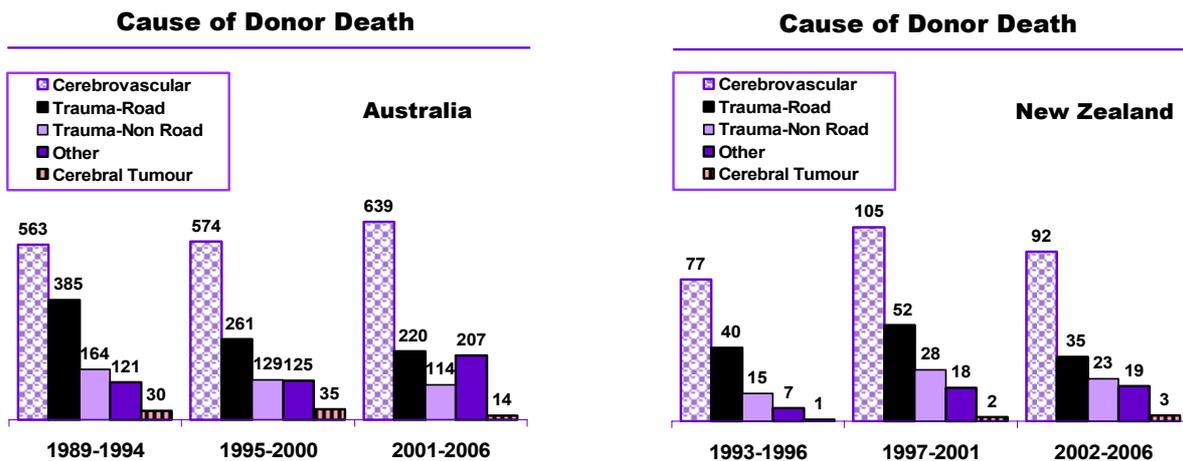


Figure 16

Cause of Donor Death 2001 - 2006										
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ *
CVA	50%	56%	48%	60%	57%	47%	67%	48%	54%	53%
Trauma (road)	24%	17%	25%	12%	9%	17%	25%	24%	18%	20%
Trauma (non-road)	14%	8%	12%	7%	17%	6%	8%	17%	10%	14%
Cerebral Tumour	1%	1%	0%	1%	0%	1%	0%	3%	1%	2%
Other	11%	18%	15%	20%	17%	29%	0%	8%	17%	11%

* NZ 2002 - 2006

Figure 17

Cause of Donor Death 2006							
Causes of Death		Australia			New Zealand		
		Male	Female	Total	Male	Female	Total
CVA	Cerebral Infarct	6	5	11	2	1	3
	Intracranial Haemorrhage	27	27	54	3	3	6
	Subarachnoid Haemorrhage	19	31	50	1	4	5
Road Trauma	Cyclist	1	0	1	1	1	2
	Motor Bike Accident	3	0	3	0	0	0
	Motor Vehicle Accident	14	7	21	4	0	4
	Pedestrian	2	4	6	1	0	1
	Other Road Accident	1	0	1	1	0	1
Other Trauma	Fall	4	2	6	0	1	1
	Felony / Crime - Assault	1	0	1	0	0	0
	Gunshot	3	0	3	0	0	0
Hypoxia Anoxia	Asthma	0	2	2	0	0	0
	Cardiac Arrest	12	9	21	1	0	1
	Choking	0	1	1	0	0	0
	Drowning	0	1	1	0	0	0
	Encephalopathy-Acute Liver Failure	0	1	1	0	0	0
	Hanging	6	0	6	1	0	1
	Precipitating Cause Unknown	1	0	1	0	0	0
	Respiratory Arrest	1	0	1	0	0	0
Respiratory Failure	0	1	1	0	0	0	
Other	Cerebral Oedema ? Aneurysm	0	1	1	0	0	0
	Cerebral Vasculitis	0	1	1	0	0	0
	Diabetic Ketoacidosis	0	1	1	0	0	0
	Hyponatraemia	1	0	1	0	0	0
	Meningioma (Benign)	1	1	2	0	0	0
	Meningitis (Meningococcal)	1	0	1	0	0	0
	Meningitis (Streptococcal)	0	1	1	0	0	0
	Sagittal Sinus Thrombosis	1	0	1	0	0	0
Thoracic Aortic Aneurysm	0	1	1	0	0	0	
Total		105	97	202	15	10	25

Figure 18

Cause of Donor Death Related to Age Group 2006										
	Australia					New Zealand				
	Age Groups				Total	Age Groups				Total
	0-14	15-34	35-54	55 on		0-14	15-34	35-54	55 on	
CVA	3	17	50	45	115	0	2	8	4	14
Trauma (road)	5	22	3	2	32	1	7	0	0	8
Trauma (non-road)	0	5	3	2	10	0	1	0	0	1
Hypoxia-Anoxia	2	12	9	12	35	0	1	1	0	2
Cerebral Tumour	0	0	2	0	2	0	0	0	0	0
Other	2	2	1	3	8	0	0	0	0	0
Total	12	58	68	64	202	1	11	9	4	25

Figure 19

Australian States Cause of Death Related to Age Group 2006						
		Age Groups				Total
		0-14	15-34	35-54	55 on	
Queensland	CVA	0	2	10	7	19
	Trauma (road)	2	6	0	0	8
	Trauma (non-road)	0	1	1	0	2
	Other	2	3	2	0	7
	Total	4	12	13	7	36
NSW	CVA	2	7	8	13	30
	Trauma (road)	1	6	1	2	10
	Trauma (non-road)	0	1	1	0	2
	Other	0	1	2	5	8
	Total	3	15	12	20	50
ACT	CVA	0	0	1	2	3
	Trauma (road)	0	0	0	0	0
	Trauma (non-road)	0	1	0	0	1
	Other	0	0	0	0	0
	Total	0	1	1	2	4
Victoria	CVA	1	2	14	8	25
	Trauma (road)	1	6	1	0	8
	Trauma (non-road)	0	0	0	1	1
	Other	2	6	2	1	11
	Total	4	14	17	10	45
Tasmania	CVA	0	3	1	1	5
	Trauma (road)	0	0	0	0	0
	Trauma (non-road)	0	0	0	0	0
	Other	0	1	2	0	3
	Total	0	4	3	1	8
South Australia	CVA	0	3	6	9	18
	Trauma (road)	0	3	0	0	3
	Trauma (non-road)	0	0	0	1	1
	Other	0	3	3	8	14
	Total	0	9	9	18	36
Northern Territory	CVA	0	0	2	0	2
	Trauma (road)	0	0	0	0	0
	Trauma (non-road)	0	0	0	0	0
	Other	0	0	0	0	0
	Total	0	0	2	0	0
Western Australia	CVA	0	0	8	5	13
	Trauma (road)	1	1	1	0	3
	Trauma (non-road)	0	2	1	0	3
	Other	0	0	1	1	2
	Total	1	3	11	6	21

Figure 20

		Cause of Donor Death 1999 - 2006							
		1999	2000	2001	2002	2003	2004	2005	2006
Queensland	CVA	12	17	25	21	19	18	19	19
	Trauma (road)	5	9	12	12	13	11	3	8
	Trauma (non-road)	1	5	6	6	6	7	6	2
	Other	2	6	5	5	2	3	7	7
	Total	20	37	48	44	40	39	35	36
NSW	CVA	25	27	24	31	24	37	31	30
	Trauma (road)	8	12	7	8	12	8	9	10
	Trauma (non-road)	9	9	3	6	4	5	3	2
	Other	6	7	13	10	6	13	11	8
	Total	48	55	47	55	46	63	54	50
ACT	CVA	1	2	3	3	4	3	3	3
	Trauma (road)	0	2	2	1	2	1	4	0
	Trauma (non-road)	1	1	0	0	1	2	1	1
	Other	0	0	2	2	1	0	1	0
	Total	2	5	7	6	8	6	9	4
Victoria	CVA	29	27	22	30	28	27	30	25
	Trauma (road)	7	8	7	10	1	4	3	8
	Trauma (non-road)	1	2	1	1	4	5	5	1
	Other	5	7	10	6	9	9	12	11
	Total	42	44	40	47	42	45	50	45
Tasmania	CVA	4	1	2	4	0	1	1	5
	Trauma (road)	2	0	0	1	1	0	0	0
	Trauma (non-road)	0	0	1	1	1	0	1	0
	Other	0	0	0	0	0	1	0	3
	Total	6	1	3	6	2	2	2	8
South Australia	CVA	13	14	12	13	11	17	11	18
	Trauma (road)	7	5	7	8	4	3	5	3
	Trauma (non-road)	3	4	2	1	2	3	2	1
	Other	7	7	4	9	5	16	2	14
	Total	30	30	25	31	22	39	20	36
Northern Territory	CVA	0	1	1	1	1	1	2	2
	Trauma (road)	2	1	1	0	0	0	2	0
	Trauma (non-road)	0	0	0	1	0	0	0	0
	Other	1	0	0	0	0	0	0	0
	Total	3	2	2	2	1	1	4	2
Western Australia	CVA	4	13	6	4	7	11	16	13
	Trauma (road)	6	4	5	6	4	5	6	3
	Trauma (non-road)	3	1	1	3	6	3	4	3
	Other	0	4	1	2	1	4	4	2
	Total	13	22	13	15	18	23	30	21
New Zealand	CVA	24	24	22	21	20	20	17	14
	Trauma (road)	8	6	9	8	9	7	3	8
	Trauma (non-road)	4	5	4	5	7	7	3	1
	Hypoxia-Anoxia	3	4	0	4	2	6	0	0
	Cerebral Tumour	0	0	0	0	2	0	1	0
	Other	0	2	2	0	0	0	5	2
	Total	39	41	37	38	40	40	29	25

Please refer to Appendix I (pages 8-12) and Appendix II (pages 4 and 5) for further details of causes of donor death

Figure 21

Occupation of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Blue collar	38	35	40	48	41	49	1	4	4	1	1	4
Home duties	11	8	7	15	17	16	5	2	0	1	0	2
Disability	6	9	3	8	10	5	0	3	2	0	1	1
Management	0	6	1	5	0	3	2	1	0	1	0	0
Other	3	3	0	2	2	2	0	0	1	0	0	0
Pre-school	0	5	2	1	7	0	0	0	0	1	0	0
Primary industry	3	3	2	6	2	2	2	1	3	2	0	0
Professional	9	18	11	16	15	15	4	4	1	3	5	1
Retired	16	17	22	25	18	20	0	1	1	4	0	2
Small business owner	1	2	3	1	1	2	0	0	2	1	1	1
Student	27	34	20	19	16	23	3	5	5	4	3	3
Tradesperson	13	17	17	20	8	6	0	3	3	2	0	1
Unemployed	11	7	6	6	6	5	0	1	0	0	0	0
Unknown	24	34	27	13	34	28	15	7	16	20	15	9
White collar	23	8	18	13	27	26	5	6	2	0	3	1
Total	185	206	179	218	204	202	37	38	40	40	29	25

Figure 22

Ethnic Origin of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Aboriginal	2	0	1	2	1	2	0	0	0	0	0	0
Afrikaans	0	0	1	0	0	0	0	0	0	0	0	0
Caucasoid	172	197	169	208	192	187	34	33	39	35	24	17
Greek	(1)	(4)	(0)	(2)	(1)	(1)	0	0	0	0	0	0
Italian	(0)	(1)	(4)	(0)	(1)	(1)	0	0	0	0	0	0
Chinese	2	2	0	2	2	2	2	0	0	0	0	0
Columbian	0	0	1	0	0	0	0	0	0	0	0	0
Eurasian	0	0	1	0	0	0	0	0	0	0	0	0
Filipino	1	1	0	1	0	1	0	0	0	1	0	0
Indian	2	2	1	2	3	2	0	1	0	0	1	1
Japanese	0	0	0	0	0	1	0	0	0	0	0	0
Korean	0	0	0	0	0	0	0	0	0	0	2	0
Malay	2	0	0	0	0	3	0	0	0	0	1	0
Maori	1	0	3	0	0	0	1	3	0	3	0	7
Mauritian	1	0	0	0	1	1	0	0	0	0	0	0
Pacific People	0	1	1	0	1	0	0	1	1	1	0	0
Sri Lankan	2	1	0	1	2	0	0	0	0	0	0	0
Thai	0	0	0	0	0	1	0	0	0	0	0	0
Unknown	0	0	0	0	0	1	0	0	0	0	1	0
Vietnamese	0	2	1	2	2	1	0	0	0	0	0	0
Total	185	206	179	218	204	202	37	38	40	40	29	25

Figure 23

Religious Denomination of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Bahai	0	0	0	0	0	0	0	0	0	1	0	0
Buddhist	1	1	1	0	3	1	0	0	0	0	0	0
Christian	89	87	75	92	72	92	2	5	3	7	6	2
Jehovah's Witness	0	1	0	2	0	0	0	0	0	0	0	0
Jewish	0	0	0	1	0	0	0	0	0	0	0	0
Druid	0	1	0	0	0	0	0	0	0	0	0	0
Hindu	0	0	0	3	3	2	0	1	0	0	1	1
Muslim	0	0	2	0	0	0	0	0	0	0	0	0
No religion	20	24	20	16	37	28	4	0	0	0	0	0
Unknown	75	92	81	104	89	79	31	32	37	32	22	22
Total	185	206	179	218	204	202	37	38	40	40	29	25

INTENDED DONORS

An intended donor is a person for whom consent has been given or volunteered, but for various reasons the donor does not proceed to the operating theatre.

(These numbers are **not** included in the donor numbers in Figure 1).

Figure 24

Intended Donors 2000 - 2006										
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ
2000	0	1	0	0	0	0	1	0	2	1
2001	1	6	1	0	0	2	0	0	10	0
2002	0	3	0	1	0	3	0	1	8	0
2003	0	2	0	3	0	0	0	1	6	0
2004	3	6	0	4	0	1	0	0	14	0
2005	3	2	0	0	1	1	0	0	7	0
2006	1	6	0	2	0	2	0	1	12	0

Figure 25

Reasons Why Donation Did Not Proceed 2000 - 2006		
Year	Australia	New Zealand
2000	Late decline of offer by Transplant Unit Malignant cerebral tumour detected	Unstable donor
2001	Cardiac Arrest Hepatitis C antibody positive (3) HTLV1 positive Disease of organ Rapid rise in creatinine Coronial refusal Hepatitis B core antibody Later withdrawal by Transplant Unit	
2002	Hepatitis C antibody positive Coronial refusal (2) Cardiac arrest in operating theatre Potential non-heart beating donor - criteria not meet Surgical team not available High risk behaviour - Hepatitis C antibody positive Risk factors Creutzfeldt-Jacob Disease	
2003	Cardiac Arrest (2) Coronial refusal Hepatitis B surface antigen and core antibody positive Hepatitis C antibody positive - No suitable recipients High risk behaviour	
2004	Cardiac arrest Coronial refusal Deterioration of renal function and unstable donor Family refusal prior to donation Hepatitis B surface antigen and core antibody positive Hepatitis C antibody positive (2) High risk behaviour (2) Past history of malignancy (2) Suspected malignancy (2) Reassessment of medical history, then deemed medically unfit	
2005	DCD potential donors - did not proceed to cardiac standstill (2) Disease of organs and infection Family refusal prior to donation Parainfluenza3 virus Past history of malignancy Past medical history and overall poor health	
2006	DCD potential donors - did not proceed to cardiac standstill (4) Disease of organs and infection (3) Past history of malignancy (2) Consent withdrawn Hepatitis B surface antigen and core antibody positive Hepatitis B core antibody and Hepatitis C positive	

DONATION AFTER CARDIAC DEATH DONORS

The majority of organs are donated by heart-beating brain dead patients.

After a heart-beating donor is certified brain dead, they remain on the ventilator and the removal of organs may occur many hours later.

Donation after cardiac death (DCD) donors are defined as patients who are certified dead using the criterion of irreversible cessation of circulation.

As soon as cardiac death is confirmed the retrieval procedure is commenced in order to minimize warm ischaemic time.

In 2005 there was an increase in the number of DCD donors to nine. Eight of these donations occurred in New South Wales.

In 2006 there were a further eight DCD donors, four in New South Wales, three in South Australia and one in Victoria.

There were also another four intended DCD donors, who did not proceed to cardiac death within the time frame required.

For the first time in 2006, two kidneys, a liver and double lungs were transplanted from a DCD donor from South Australia. Double lungs and two corneas were also transplanted from a DCD donor from Victoria.

Together, these eight DCD donors provided for transplantation, twelve kidneys, two double lungs, one liver, eight corneas, three heart valves. Bone was stored, for later transplantation, from one donor.

Kidneys were not requested in one case (DCD lung donor only) and warm ischaemic time prevented the kidneys being retrieved in another case.

Figure 26

Donation after Cardiac Death Donors 1989 - 2006										
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ
1989	0	0	0	1	0	1	0	0	2	-
1990	0	2	0	0	0	1	0	0	3	-
1991	0	2	0	0	0	0	0	0	2	-
1992	0	1	0	0	0	0	0	0	1	-
1993	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	1	0	0	1	1
1995	0	3	0	1	0	0	0	0	4	0
1996	1	1	0	0	0	0	0	0	2	0
1997	0	2	0	0	0	1	0	0	3	1
1998	0	0	0	0	0	2	0	0	2	0
1999	1	0	0	0	0	0	0	0	1	0
2000	0	0	0	0	0	0	1	0	1	0
2001	0	1	0	1	0	0	0	0	2	0
2002	0	0	0	0	0	1	1	0	2	0
2003	0	1	0	0	0	0	0	0	1	0
2004	0	2	0	0	0	0	0	1	3	0
2005	0	8	0	0	0	1	0	0	9	0
2006	0	4	0	1	0	3	0	0	8	0
Total	2	27	0	4	0	11	2	1	47	2

CARDIOPULMONARY RESUSCITATION

Cardiopulmonary resuscitation is recorded for events leading up to the admission and hospital stay for the patient, prior to organ donation (Figures 27 and 28).

Figure 27

Cardiopulmonary Resuscitation 2002 - 2006										
	Australia					New Zealand				
	2002	2003	2004	2005	2006	2002	2003	2004	2005	2006
Yes	48	39	65	47	51	10	6	12	6	17
No	157	140	153	157	151	28	34	28	23	8
Unknown	1	0	0	0	0	0	0	0	0	0
Total	206	179	218	204	202	38	40	40	29	25

Figure 28

Australian States Cardiopulmonary Resuscitation 2006 (2005)								
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
Yes	9 (9)	10 (10)	1 (3)	12 (19)	3 (1)	14 (4)	0 (0)	2 (1)
No	27 (26)	40 (44)	3 (6)	33 (31)	5 (1)	22 (16)	2 (4)	19 (29)
Total	36 (35)	50 (54)	4 (9)	45 (50)	8 (2)	36 (20)	2 (4)	21 (30)

DONOR WEIGHT

The allocation of heart, lungs and livers are based on the matching of recipient and donor size and weight.

In 2006 there were nine donors in Australia and one donor in New Zealand who weighed less than 40 kilograms (Figure 29).

Figure 29

Donor Weight 2002 - 2006												
		Kilograms										Total
		0-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100 +	
Australia	2002	5	3	4	4	17	40	51	41	28	13	206
	2003	2	2	2	7	12	27	43	46	23	15	179
	2004	1	1	3	1	21	34	59	41	32	24	217
	2005	6	3	2	5	16	35	50	45	23	19	204
	2006	1	4	4	5	10	43	41	50	26	18	202
New Zealand	2002	0	0	3	1	2	8	7	8	4	5	38
	2003	0	0	0	2	5	4	7	14	6	2	40
	2004	1	0	0	1	1	12	8	12	3	2	40
	2005	0	0	0	1	0	8	10	4	1	4	28
	2006	0	1	0	0	2	5	6	4	4	3	25

VIROLOGY SCREENING

Figure 30

Cytomegalovirus (CMV) Status of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Positive	132	131	111	151	152	137	19	18	26	26	16	15
Negative	53	75	68	66	52	65	18	20	14	14	13	10
Not done	0	0	0	1	0	0	0	0	0	0	0	0
Total	185	206	179	218	204	202	37	38	40	40	29	25

Figure 31

Epstein-Barr Virus (EBV) Status of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Positive	61	94	96	122	118	123	0	5	24	19	19	24
Negative	21	31	21	19	21	123	1	0	9	3	2	1
Not done	103	94	62	77	65	53	36	33	7	18	8	0
Total	185	206	179	218	204	202	37	38	40	40	29	25

Not all Australian States require organ donors to be tested for EBV

Figure 32

Hepatitis C Antibody Status of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Positive	1	0	2	3	4	1	1	0	0	0	2	1
Negative	185	206	177	214	200	201	36	38	40	40	27	24
Not done	0	0	0	1	0	0	0	0	0	0	0	0
Total	185	206	179	218	204	202	37	38	40	40	29	25

HEPATITIS C ANTIBODY

There was one positive Hepatitis C donor in Australia and one in New Zealand in 2006.

Two kidneys and one liver were transplanted from the Hepatitis C donor in Australia.

One liver was transplanted from a New Zealand donor who was also Hepatitis B Core Antibody Positive. Heart valves were also retrieved.

Figure 33

Hepatitis B Core Antibody Status of Donors 2001 - 2006												
	Australia						New Zealand					
	2001	2002	2003	2004	2005	2006	2001	2002	2003	2004	2005	2006
Positive	12	14	6	10	11	11	1	0	0	0	2	1
Negative	172	192	173	207	193	191	36	38	40	40	27	24
Not done	1	0	0	1	0	0	0	0	0	0	0	0
Total	185	206	179	218	204	202	37	38	40	40	29	25

HEPATITIS B CORE ANTIBODY

The Registry commenced collection of Hepatitis B core antibody results in 1998.

A positive result was recorded for 5% (11) of Australian donors and 16% (4) of New Zealand donors in 2006.

From the eleven Australian donors there were 21 kidneys, five livers, two hearts, two double lungs, one kidney/pancreas and four corneas were retrieved.

From the four New Zealand donors, five kidneys, four livers, one single lung, four cornea and two heart valves were retrieved.

HEPATITIS B SURFACE ANTIGEN

Since 1993, all donors in Australia and New Zealand have been negative for Hepatitis B surface antigen, excepting one donor in 2004 who was not tested as their condition deteriorated in theatre and no organs were retrieved.

MEDICAL CONDITION OF DONORS

Information related to diabetes, hypertension and smoking has been collected since 1993. Cancer data collection commenced on 1st January 2002.

DIABETES

There were seven Type 1 and eleven Type 2 diabetic donors in Australia in 2006. There was one Type 1 and one Type 2 diabetic donors in New Zealand.

The seven diabetic Type 1 donors provided eight kidneys, six livers, three double lungs, four corneas and three heart valves, while the Type 2 diabetic donors provided 16 kidneys, five livers, two hearts, one double lung, eleven cornea and one bone. One donor did not have any solid organs retrieved due to disease, but the two cornea were transplanted.

The one diabetic Type 1 donor in New Zealand provided two kidneys, a liver and double lungs. The Type 2 donor had the liver and heart valves transplanted.

HYPERTENSION

A past history of hypertension was recorded in 22% (44 donors) in Australia and 20% (five donors) in New Zealand in 2006 (Figures 35 and 36).

These donors provided Australia with 69 kidneys, 24 livers, five split livers, six hearts, eleven double lungs, six single lungs, two pancreas islets, 47 corneas, eight heart valves and three bone for transplantation.

In New Zealand, four kidneys, four livers, one double, one single lung, four cornea and two heart valves were transplanted.

SMOKING

In 2006, 38% (77) of Australian donors were recorded as current smokers and 22% (44) as former smokers, while in New Zealand, 32% (8 donors) were reported as current and 12% (3) as former.

CANCER IN DONOR

Australia (three donors)

- * two renal cell carcinoma of the kidneys
- * one adenocarcinoma of the breast

Four kidneys, one heart, one single lung and two cornea were transplanted from these donors.

New Zealand (no cancer in donors in 2006)

Figure 34

		2001	2002	2003	2004	2005	2006
Australia	Diabetes Type 1	4 (2%)	2 (1%)	1 (<1%)	6 (3%)	1 (<1%)	7 (3%)
	Diabetes Type 2	7 (4%)	5 (2%)	4 (2%)	6 (3%)	13 (6%)	11 (5%)
	Hypertension	31 (17%)	28 (14%)	37 (21%)	50 (23%)	46 (23%)	44 (22%)
	Unknown	5 (3%)	3 (1.5%)	3 (2%)	7 (3%)	3 (1%)	2 (1%)
	Smoking						
	Current	71 (38%)	89 (43%)	82 (46%)	90(41%)	67 (33%)	77 (38%)
	Former	21 (11%)	30 (15%)	29 (16%)	46 (21%)	34 (17%)	44 (22%)
	Unknown	3 (2%)	5 (2%)	1 (<1%)	2 (<1%)	0 (0%)	0 (0%)
	Cancer *	-	5 (2%)	1 (<1%)	6 (3%)	7 (3%)	3 (1%)
	Total Donors	(n=185)	(n=206)	(n=179)	(n=218)	(n=204)	(n=202)
New Zealand	Diabetes Type 1	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (4%)
	Diabetes Type 2	0 (0%)	0 (0%)	0 (0%)	1 (2.5%)	2 (7%)	1 (4%)
	Hypertension	3 (8%)	6 (16%)	5 (12.5%)	9 (22.5%)	7 (24%)	5 (20%)
	Smoking						
	Current	10 (27%)	16 (42%)	17 (43%)	13 (32.5%)	9 (31%)	8 (32%)
	Former	4 (11%)	2 (5%)	2 (5%)	3 (7.5%)	5 (17%)	3 (12%)
	Unknown	1 (3%)	1 (3%)	0 (0%)	0 (0%)	1 (3%)	0 (0%)
	Cancer *	-	1 (3%)	2 (2%)	0 (0%)	1 (3%)	0 (0%)
Total Donors	(n=37)	(n=38)	(n=40)	(n=40)	(n=29)	(n=25)	

* Cancer data collected from 1st January 2002

Figure 35

Medical Condition of Donors by Australian States 2006 (2005)								
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
Diabetes Type 1	2 (0)	2 (0)	0 (0)	0 (0)	1 (0)	2 (0)	0 (1)	0 (1)
Diabetes Type 2	0 (1)	5 (3)	0 (0)	1 (3)	0 (0)	4 (1)	0 (1)	1 (4)
Hypertension	5 (6)	12 (18)	1 (1)	8 (13)	3 (0)	10 (4)	1 (1)	4 (3)
Smoking Current	17 (12)	18 (12)	0 (1)	16 (19)	3 (2)	12 (13)	1 (0)	10 (8)
Cancer *	0 (2)	0 (0)	1 (0)	0 (3)	1 (0)	0 (0)	0 (0)	1 (2)

Figure 36

Expanded* Criteria for Kidney Donors 2006 (2005) States, Australia and New Zealand										
Donor Type	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ
Expanded	6 (6)	16 (14)	2 (0)	13 (12)	1 (0)	16 (3)	1 (1)	7 (6)	62 (42)	4 (6)
Non Expanded	30 (29)	34 (40)	2 (9)	32 (37)	7 (2)	19 (17)	1 (3)	14 (24)	139 (161)	21 (21)
Total	36 (35)	50 (54)	4 (9)	45 (50)	8 (2)	35 (20)	2 (4)	21 (30)	201 (203)	25 (27)

*An expanded criteria kidney donor as defined in American Journal of Transplantation 2003; 3 (Suppl. 4): 114-125.
i.e. any donor aged ≥ 60 years, or any donor aged 50-59, with two of the following three criteria:
CVA death, or terminal creatinine >133 , or hypertension.

DONOR INTENTION

Figures 37 and 38 show whether the donor had recorded an intention to donate through a signed driver's licence. In 2006, 28% of Australian and 20% of New Zealand organ donors had a signed driver's licence. Figure 39 shows the number of donors enrolled in the Australian Organ Donation Registry, which commenced in 2000.

Figure 37

Driver's Licence Intention Status 2002 - 2006										
Intention	Australia					New Zealand				
	2002	2003	2004	2005	2006	2002	2003	2004	2005	2006
Yes	62 (30%)	42 (23%)	53 (24%)	48 (24%)	57 (28%)	10 (26%)	10 (25%)	10 (25%)	4 (14%)	5 (20%)
No	40	40	36	31	23	1	0	0	1	0
Age / Not Applicable	34	16	24	35	38	4	2	6	1	1
Unknown	70	81	105	90	84	23	28	24	23	19
Total	206	179	218	204	202	38	40	40	29	25

Figure 38

Australian States 2006 (2005) Driver's Licence Intention Status								
Intention	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
Yes	13 (17)	18 (13)	0 (0)	1 (2)	0 (0)	23 (8)	0 (1)	2 (7)
No	4 (2)	5 (1)	0 (1)	5 (15)	1 (0)	7 (3)	0 (1)	1 (8)
Age / Not Applicable	7 (3)	5 (6)	1 (2)	8 (10)	1 (0)	1 (2)	0 (1)	15 (11)
Unknown	12 (13)	22 (34)	3 (6)	31 (23)	6 (2)	5 (7)	2 (1)	3 (4)
Total	36 (35)	50 (54)	4 (9)	45 (50)	8 (2)	36 (20)	2 (4)	21 (30)

Figure 39

Donors for 2006 (2005) Enrolled in the Australian Organ Donor Registry									
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST
Yes	4 (16)	6 (0)	0 (1)	8 (7)	3 (0)	12 (5)	0 (1)	8 (14)	41 (44)
Not Registered	27 (17)	9 (2)	0 (2)	34 (39)	5 (2)	12 (5)	0 (1)	12 (15)	99 (83)
Not Accessed	0 (0)	33 (48)	3 (6)	0 (0)	0 (0)	11 (10)	2 (2)	0 (0)	49 (66)
Not Applicable	5 (2)	2 (4)	1 (0)	3 (4)	0 (0)	1 (0)	0 (0)	1 (1)	13 (11)
Total	36 (35)	50 (54)	4 (9)	45 (50)	8 (2)	36 (20)	2 (4)	21 (30)	202 (204)

AUTHORITY SOUGHT FOR ORGAN DONATION

The predominant group in requesting authority for organ donation in 2006 were the Intensive Care Clinicians and Registrars, (65%) in Australia and (72%) in New Zealand shown in Figure 40.

In Australia authority for organ donation was sought by donor coordinators 8% of the time compared to 12% in 2005 and 21% in 2004 (Figure 40). See Figure 41 for individual State and Territory statistics.

Authority for organ donation was not sought by donor coordinators in New Zealand.

In 2006, 22% of families volunteered authority for organ donation in Australia, compared to 32% in 2005 (Figure 40).

Twenty four percent volunteered authority in New Zealand in 2006 compared to 14% the previous year.

Figure 40

Authority to Donate 2002 - 2006										
	Australia					New Zealand				
	2002	2003	2004	2005	2006	2002	2003	2004	2005	2006
ICU Clinician	116	104	121	101	117	25	26	29	23	16
ICU Registrar	7	2	7	7	14	0	0	2	1	2
Emergency Consultant/Registrar	3	0	2	1	4	0	0	0	0	0
Other Physicians/Anaesthetist	0	0	0	2	4	0	2	0	1	1
Donor Coordinator	50	48	45	25	17	0	0	0	0	0
Volunteered by Family	28	22	43	66	45	9	11	8	4	6
Nursing Staff	2	2	0	2	1	4	1	1	0	0
Social Worker	0	1	0	0	0	0	0	0	0	0
Total	206	179	218	204	202	38	40	40	29	25

Figure 41

Authority to Donate 2006 (2005)								
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA
ICU Clinician	18 (15)	36 (35)	2 (9)	18 (22)	4 (1)	27 (6)	1 (1)	11 (12)
ICU Registrar	1 (1)	0 (0)	1 (0)	4 (5)	0 (0)	4 (1)	0 (0)	4 (0)
Donor Coordinator	9 (13)	5 (12)	0 (0)	0 (0)	0 (0)	3 (0)	0 (0)	0 (0)
Volunteered by Family	8 (5)	9 (7)	1 (0)	16 (21)	3 (1)	2 (13)	1 (3)	5 (16)
Nursing Staff	0 (1)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	1 (1)
Emergency/Other Physician	0 (0)	0 (0)	0 (0)	7 (2)	1 (0)	0 (0)	0 (0)	0 (1)
Total	36 (35)	50 (54)	4 (9)	45 (50)	8 (2)	36 (20)	2 (4)	21 (30)

DIRECT CONTACT WITH DONOR COORDINATOR

There were three families (1%) in Australia with which the Donor Coordinator had no contact, compared to 12 families (48%) in New Zealand in 2006.

Figure 42

Direct Contact with Donor Coordinator 2006										
	QLD	NSW	ACT	VIC	TAS	SA	NT	WA	AUST	NZ
Face to Face	34 (94%)	48 (96%)	4 (100%)	41 (91%)	4 (50%)	33 (92%)	0 (0%)	19 (90%)	183 (91%)	11 (44%)
Telephone	2 (6%)	2 (4%)	0 (0%)	4 (9%)	3 (38%)	3 (8%)	0 (0%)	2 (10%)	16 (8%)	2 (8%)
None	0 (0%)	0 (0%)	0 (0%)	0 (0%)	1 (12%)	0 (0%)	2 (100%)	0 (0%)	3 (1%)	12 (48%)
Total	36	50	4	45	8	36	2	21	202	25