

Australia and New Zealand Organ Donation Registry

(ANZOD Registry)

1999 Report

[Data collected to 31st December 1998]

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STATISTICAL METHODS

Actuarial and Kaplan-Meier survivals have been produced using the procedure contained in

SPSS® for Windows™ Release 6.1
SPSS Inc.





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Canberra ACT 2600

At the National Forum of Australians Donate held at Parliament House, Canberra, in early April, the main theme was "How to improve the organ donation rate in Australia." Although surveys indicate that 90 per cent of Australians support organ donation and that 60 per cent of the population would themselves be willing to become organ donors (with 30 per cent unsure and requiring further information), the fact is that the organ donation rate in Australia remains among the lowest in the developed world.

It is very pleasing to note that the problem is being addressed, with each State considering how it can best provide the structure to improve the organ donation rate. The annual forums that Australians Donate organise will provide opportunities for health professionals in the relevant fields to come together and discuss the varying approaches being made.

In this edition of the Registry, we again see the large variation between the organ donation rates, ranging from 23 donors per million population down to seven donors per million. The very successful transplantation programs, with their great benefits for the quality of life of the recipients, are also clearly demonstrated. Nevertheless, the long waiting lists for nearly all organ transplants, especially kidney transplants, show the overall insufficiency of organ donation rates in this country.

The care of donor families and recognition of the support they need before, during and after organ donation, was also highlighted at the National Forum. Let us hope that at the next National Forum and also in the statistics compiled in the Australia and New Zealand Organ Donor Registry, we will see a significant improvement in our organ donation rates.

I commend all who work in the field of organ donation and who take up the challenges outlined at the National Forum in April to improve organ donation rates and to give the necessary support and understanding to donor families. Finally, I congratulate the many organ coordinators who have compiled the statistics, and the editors who have provided this clear and concise report.

A handwritten signature in black ink, reading "William Deane". The signature is fluid and cursive, with a large loop at the end.

Sir William Deane

Governor-General of the Commonwealth of Australia

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INTRODUCTION

We are pleased to present the Eighth Report of the Australia and New Zealand Organ Donation Registry (ANZOD Registry). This joint project of the Australasian Transplant Coordinators Association (ATCA) and the ANZDATA Registry commenced data collection in 1989 in Australia and 1993 in New Zealand.

We are particularly honoured to have the foreword for this Report written by the Governor-General of the Commonwealth of Australia, Sir William Deane.

The data is collected on all cadaveric organ donors by the Donor Coordinators. From the 1st January 1998, limited data has been collected on intended as well as actual donors. Intended donors are those for whom consent to donate has been given, but donation has not occurred.

We are grateful for the contribution by the Australian and New Zealand Cardiothoracic Transplant Registry, which examines heart allograft survival related to donor factors. This section was contributed by Associate Professor Anne Keogh.

The editors would also like to acknowledge that the kidney graft survival analysis which incorporated specific donor data from this Registry, was produced using outcome data from the ANZDATA Registry.

The Registry is grateful for the ongoing support from the Australian Health Ministers' Advisory Council, the Australian Kidney Foundation and the New Zealand Ministry of Health.

It is a pleasure to work with the ANZDATA Registry staff. Mrs Lee Excell continues her meticulous work as database manager, programming and graphic displays. Mrs Lis Steinmetz is responsible for the layout and presentation of the report and Mr Brian Livingston for his computing and statistical analysis.

The report can be accessed via our Internet Web Site <http://www.anzdata.org.au> and copies are also sent to interested parties.

Requests for further information or inclusion on the mailing list should be directed to the Editor of the ANZOD Registry.

Karen Herbertt
Graeme Russ

SUMMARY - AUSTRALIA

1. There was a total of 2027 organ donors (average 11.4 donors per million of population [dpmp] per year) in Australia for the reporting period 1-Jan-89 to 31-Dec-98. The numbers of organ transplant recipients from these donors were: 3765 kidneys, 1125 livers, 1013 hearts, 581 lungs and 119 pancreas.

In 1998 there were: 196 donors (10 dpmp) with 354 kidneys, 138 livers, 69 hearts, 4 heart-lung, 128 lungs and 18 pancreas transplanted into Australian recipients.
2. In 1998 the highest donor rate was in South Australia (24 dpmp) and the Northern Territory (16 dpmp), the lowest was in Western Australia (7 dpmp).
3. The mean age of donors in 1998 remained at 40.4 years, with an age range of 0.94 to 73.7 years. The male to female ratio is 3:2 over the ten reporting years, 1989-1998.
4. In 1998, 53% of donors with a known occupation were classified as student, blue collar worker and home duties. The majority of donors were Caucasoid and their religion was recorded as Christian.
5. In 1998 the major cause of death in 51% of donors was cerebrovascular accident (CVA). Road trauma caused 21% of all deaths.
6. In 1998, consent for organ donation was sought in 60% of cases by the Intensive Care Unit Clinician, volunteered by the family in 23% of cases and sought by the Transplant Coordinator in 14% of cases.

Coronial inquiries were required in 48% of all donors in 1998.
7. Consent was given for more than one organ in 96% of donors in 1998.

The consent rates for specific organs were: kidneys 100%, liver 98%, heart 96%, lungs 97%, and pancreas 89%
8. The donation of more than one organ occurred in 77% of donors in 1998.
9. In 1998, from donors where organs had been retrieved, 97% of kidneys, 99% of livers, including (split liver technique), 97% of hearts, 93% of lungs and 72% of pancreas were actually transplanted.
10. The donor factor which has a significant effect on primary heart graft survival was donor age. There is an inferior survival when the donor age is over 59 years.
11. The average number of organs transplanted from each donor was 3.4.

SUMMARY - NEW ZEALAND

1. There was a total of 330 organ donors (average 9 donors per million of population [dpmp] per year) in New Zealand for the period 1-Jan-89 to 31-Dec-98.
The numbers of organ transplants were: 629 kidneys, 176 livers, 103 hearts, 39 lungs and one pancreas.
In 1998 there were: 46 donors (12 dpmp), which resulted in 79 kidneys, 30 livers, 13 hearts, 15 lungs and one pancreas being transplanted into recipients in New Zealand and Australia.
2. The mean age of donors has increased to 38.0 years in 1998, with an age range of 2.8 – 69.7 years.
The male to female ratio is 3:2 over the last six years.
3. The major cause of death in 1998 was cerebrovascular accident in 48%, followed by road trauma in 24%.
4. Over the six year period, 54% of donors with a known occupation were classified as blue collar worker, student and tradesperson. The majority of donors were Caucasoid and their religion was recorded as Christian.
5. Consent for organ donation was sought in 87% of cases in 1998 by the Intensive Care Unit Clinician. There were no cases whereby consent was volunteered by the family.
Coronial inquiries were required in 54% of all donors.
6. The donation of more than one organ occurred in 76% of donors in 1998.
7. Consent was given for more than one organ in 100% of kidneys, 100% livers, 100% hearts, 100% lung and 95% pancreas.
8. In 1998 from donors were organs had been retrieved, 91% of kidneys, 97% of livers, 100% of hearts, 94% of lungs and 50% of pancreas were actually transplanted.
The average number of organs transplanted was 2.9.
9. New Zealand has provided 13 kidneys, 162 livers, 11 hearts and 25 lungs (a total of 211 organs) to the Australian Transplant Programs in the ten year period 1989-98.

ORGAN DONORS IN AUSTRALIA AND NEW ZEALAND

The Australian and New Zealand organ donation rate over the last four years has remained unchanged at 10-11 donors per million of population (dpmp) per year.

In 1998, of the States with sufficient population to make figures meaningful there was a range of 24 dpmp in South Australia to 7 dpmp in Western Australia. New Zealand has had a slight increase to 12 dpmp.

Figure 1

Australia and New Zealand

Number of Donors 1994 - 1998

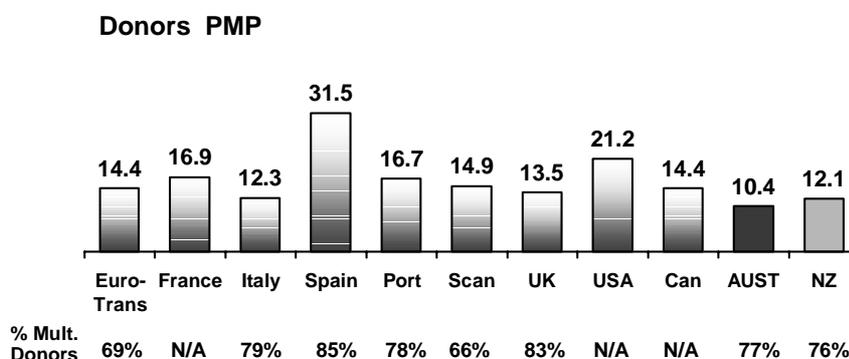
	1994		1995		1996		1997		1998	
Queensland	38	(12)	34	(10)	35	(10)	37	(11)	40	(12)
New South Wales/ACT	73	(11)	67	(10)	69	(11)	69	(10)	65	(10)
Victoria	26	(6)	38	(8)	49	(11)	42	(9)	40	(9)
Tasmania	6	(13)	4	(8)	1	(2)	5	(11)	0	0
South Australia	23	(16)	23	(16)	25	(17)	25	(17)	35	(24)
Northern Territory	1	(6)	1	(6)	3	(17)	4	(21)	3	(16)
Western Australia	16	(9)	17	(10)	12	(7)	8	(4)	13	(7)
Australia	183	(10)	184	(10)	194	(11)	190	(10)	196	(10)
New Zealand	35	(10)	35	(10)	36	(10)	42	(11)	46	(12)

() Per Million

Refer to Appendix for the number of donors by State and Hospital and population.

Figure 2

International Donor Statistics 1998 % of Multiple Organ Donors



Eurotransplant: Germany, Austria, Belgium, Luxembourg, The Netherlands
Scandia Transplant: Denmark, Finland, Norway, Sweden

Source: Council of Europe 1998

Technically the comparison between States and Countries has been based upon rate per million population (dpmp). However, the number of deaths that occur and therefore the ability of deceased to be donors may be a more valuable way of comparing donation rates (Figure 3-5).

Australian data on deaths for 1998 is not available until August of 1999.

New Zealand data is from 1993 and includes 1998.

Figure 3**Australia and New Zealand****Donors per Thousand Deaths 1992 - 1998**

Year	Australia	New Zealand
1992	1.75	0
1993	1.82	1.25
1994	1.44	1.29
1995	1.47	1.29
1996	1.51	1.27
1997	1.47	1.52
1998	N/A	1.76

Figure 4**Australian States****Donors per Thousand Deaths 1992 - 1997**

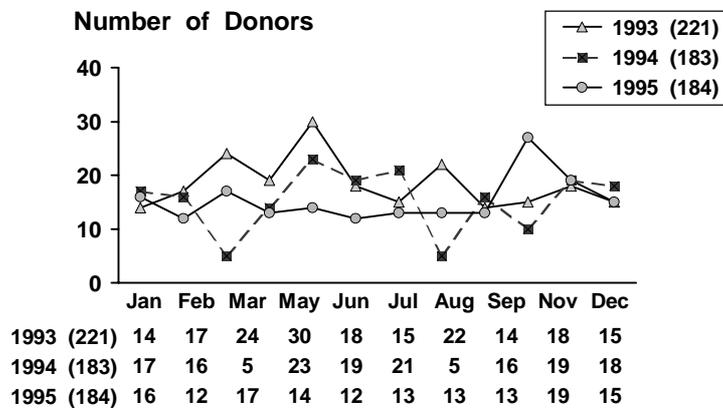
Year	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA
1992	3.2	1.53	1.32	1.07	1.83	0	1.41
1993	2.19	1.68	1.67	1.65	1.99	3.99	1.84
1994	1.74	1.59	0.8	1.54	1.96	1.29	1.55
1995	1.64	1.46	1.17	1.07	2.04	1.23	1.64
1996	1.56	1.49	1.5	0.26	2.15	3.89	1.09
1997	1.71	1.46	1.28	1.32	2.16	4.5	0.73

Figure 5**Australian States****State Comparison Between Donors per Million Population and Donors per Thousand Deaths () 1992 - 1997**

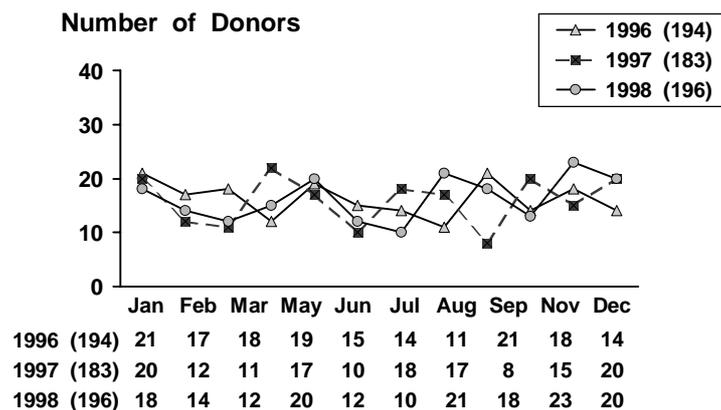
Year	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA
1992	22 (3.2)	11 (1.5)	9 (1.3)	8 (1.1)	14 (1.8)	0 0	8 (1.4)
1993	14 (2.2)	12 (1.7)	12 (1.7)	13 (1.7)	16 (2.0)	18 (4.0)	11 (1.8)
1994	12 (1.7)	11 (1.6)	6 (0.8)	13 (1.5)	16 (2.0)	6 (1.3)	9 (1.6)
1995	10 (1.6)	10 (1.5)	8 (1.2)	8 (1.1)	16 (2.0)	6 (1.2)	10 (1.6)
1996	10 (1.6)	11 (1.5)	11 (1.5)	2 (0.3)	17 (2.2)	17 (3.9)	7 (1.1)
1997	11 (1.7)	10 (1.5)	9 (1.3)	11 (1.3)	17 (2.2)	21 (4.5)	4 (0.7)

Figure 6

Donors Per Month in Australia 1993 - 1995



Donors Per Month in Australia 1996 - 1998



INTENDED DONORS

1998 was the first year the Registry collected data on intended donors.

An intended donor is a person for whom consent has been given or volunteered, but organ donation did not proceed.

Likely reasons for organ donation not proceeding include positive virology, cardiac arrest and further investigations which uncover reasons for medical unsuitability.

There were five intended donors in Australia.

The reasons the donations did not proceed included: hepatitis C positive antibody (two), further investigations detecting underlying disease (two) and hepatitis B positive antibody (one).

In New Zealand there were two intended donors one with hepatitis C antibody positive and one where the coroner denied permission.

DONOR PROFILE

Age and Gender Distribution

The mean age for donors has remained the same as in the previous year, 40.4 years. In 1998 there were 16 donors (8%) older than 65 years. This is the same as for 1997. The oldest donor was 73.7 years (Figure 7).

New Zealand has seen an increase in mean and median ages over the last four years (mean 34.3 to 38.0 years and median 34.8 to 35.9 years). In 1998 there was one donor (2%) older than 65 years, being 69.7 years (Figure 7).

When comparing Australian States, the mean age ranged from the highest in Victoria 43.4 years to the lowest 33.9 years in Western Australia (Figure 8).

The gender distribution by Australian States and New Zealand is shown in Figure 9.

See Figures 10-15 for a breakdown of donors according to age and gender in Australia and New Zealand for the years 1995-1998.

Figure 7 **Australia and New Zealand**
Age of Male and Female Donors 1995 - 1998

	Year	Mean (years)			Median (years)			Range Years
		All	Female	Male	All	Female	Male	
Australia	1995	37.6	40.0	36.4	38.1	41.7	35.2	3.0 - 72.0
	1996	38.3	40.3	36.9	38.5	46.1	36.2	1.45 - 74.2
	1997	40.4	42.4	39.3	43.1	41.9	43.6	2.5 - 76.1
	1998	40.4	43.8	37.7	43.2	46.2	37.2	0.94 - 73.7
New Zealand	1995	34.2	34.0	34.3	34.8	35.3	28.6	6.8 - 70.7
	1996	36.6	37.9	35.1	35.2	42.7	29.9	9.6 - 72.5
	1997	34.8	37.3	33.2	26.4	46.0	23.7	7.1 - 71.6
	1998	38.0	45.0	34.5	35.9	50.1	32.5	2.8 - 69.7

Figure 8 **Australian States**
Mean Age of Donors 1995 - 1998

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.
1995	34.4	37.2	38.8	23.4	40.2	43.4	42.0	37.6
1996	30.5	39.4	43.0	47.1	38.5	36.8	35.0	38.3
1997	37.5	40.1	43.8	38.1	45.3	33.5	28.7	40.4
1998	35.7	42.7	43.4	0	40.3	44.7	33.9	40.4

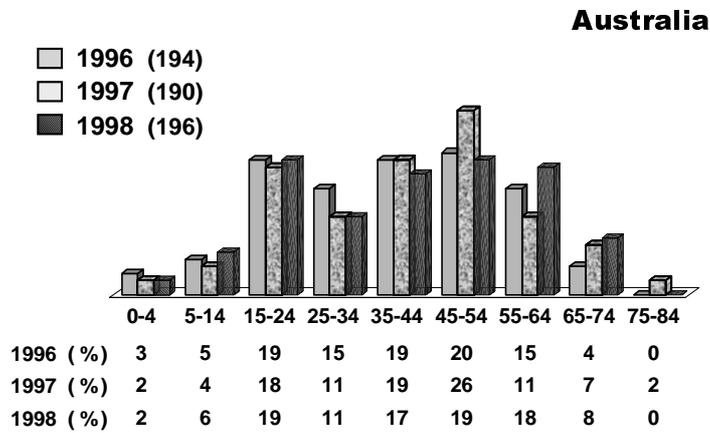
Figure 9 **Australia and New Zealand**
Gender of Donors 1989 - 1998

	Female		Male		Total
Queensland	149	36%	266	64%	415
New South Wales/ACT	293	40%	438	60%	731
Victoria	191	43%	253	57%	444
Tasmania	10	31%	22	69%	32
South Australia	97	41%	138	59%	235
Northern Territory	1	5%	19	95%	20
Western Australia	64	43%	86	57%	150
Australia	805	40%	1222	60%	2027
New Zealand 1993-98	92	40%	136	60%	228

Australia 1996 - 1998

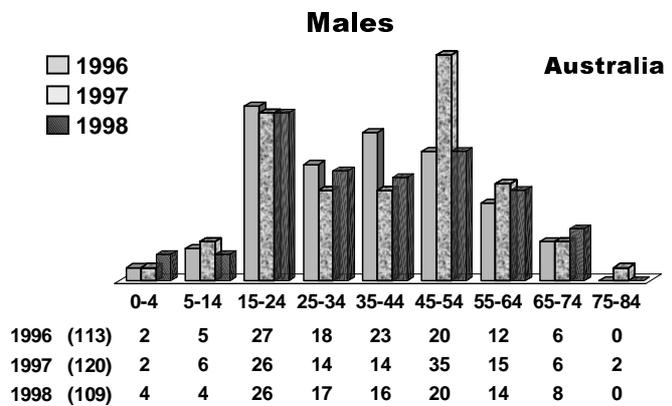
Figure 10

Age Group (%) Cadaver Donors

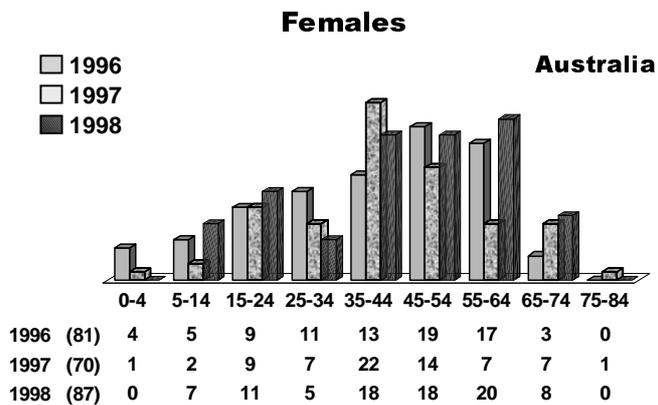


Figures 11 and 12

Age and Gender Distribution of Donors



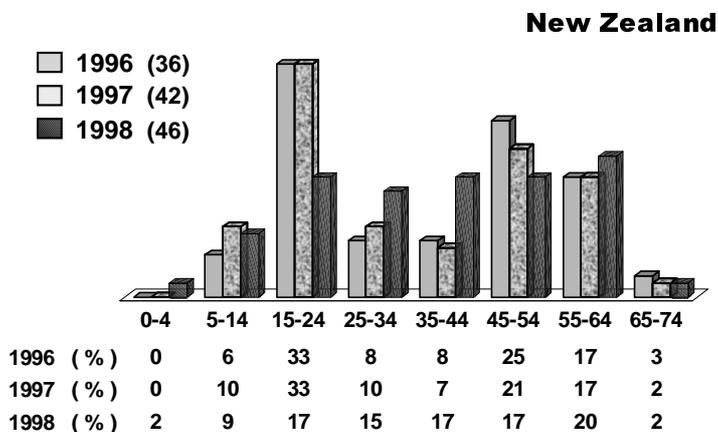
Age and Gender Distribution of Donors



New Zealand 1996 - 1998

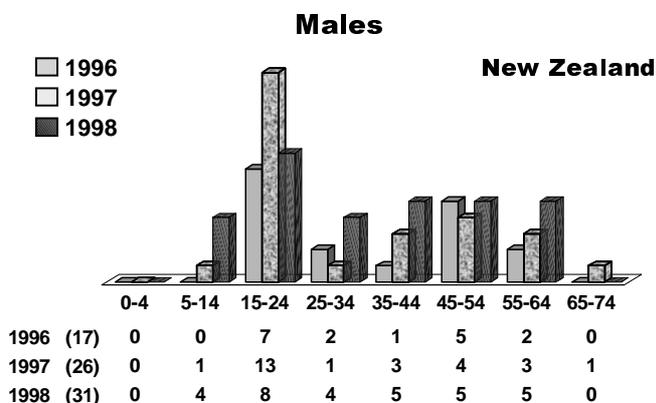
Figure 13

Age Group (%) Cadaver Donors

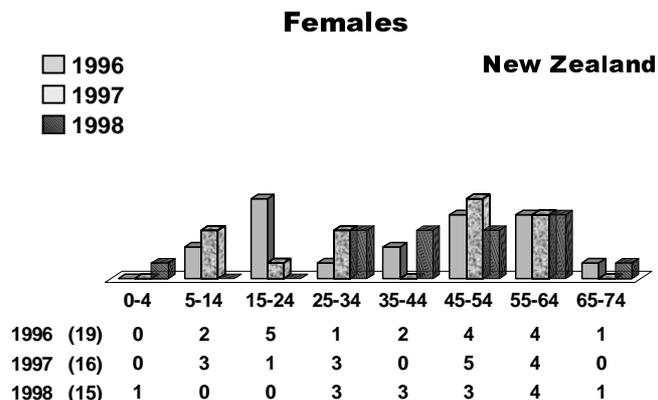


Figures 14 and 15

Age and Gender Distribution of Donors



Age and Gender Distribution of Donors



CAUSE OF DEATH - ALL DONORS

Figures 16 and 17 show the cause of death for all organ donors in Australia since 1989 and for New Zealand since 1993. The primary cause of death is cerebrovascular accident (CVA) (47% of all Australian donors and 49% of all New Zealand donors).

Figure 18 shows CVA is responsible for 80% of all deaths in donors 55 years and older, whereas in the 15-34 year age group, trauma accounted for 59% of all deaths, compared to 57% in 1997.

Figure 19 shows detailed cause of death by gender for 1998.

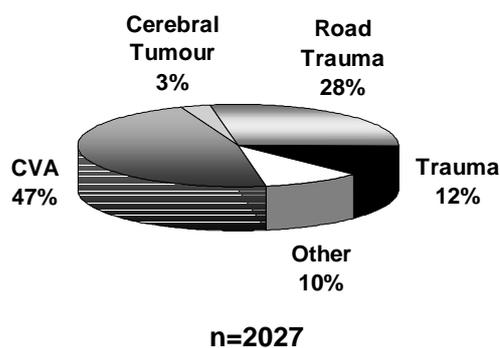
Figure 20 shows a breakdown by Australian States of the major causes of death for total donors in the last ten years. Of the larger States, in only Queensland does trauma (road and non-road) exceed CVA as a cause of donor death.

Figures 21 and 22 show cause of death according to age and State for organ donors in 1998 respectively.

Figures 23-25 show the occupation, ethnic origin and religious denomination of donors in Australia and New Zealand for 1995-1998.

Figures 16 and 17

**Cause of Donor Death
Australia 1989 - 1998**



**Cause of Donor Death
New Zealand 1993 - 1998**

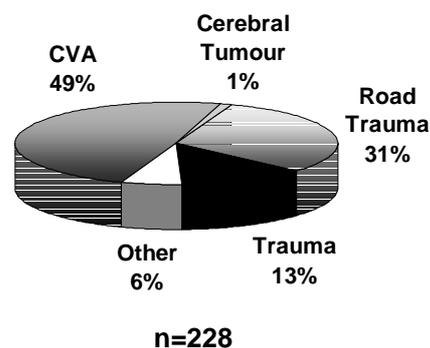


Figure 18

Australia and New Zealand

Cause of Donor Death Related to Age Group 1998

	Australia					New Zealand				
	0-14	15-34	35-54	55 on	Total	0-14	15-34	35-54	55 on	Total
CVA	4	12	45	40	101	1	3	10	8	22
Trauma (road)	5	26	7	3	41	0	9	2	0	11
Trauma (non-road)	0	9	7	3	19	2	2	2	0	6
Other	6	12	13	4	35	2	1	2	2	7
Total	15	59	72	50	196	5	15	16	10	46

Figure 19**Australia****Cause of Donor Death 1998**

Causes of Death		Australia			New Zealand		
		Male	Female	Total	Male	Female	Total
CVA	Cerebral Infarct	4	3	7	1	0	1
	Intracranial Haemorrhage	43	51	94	10	11	21
Road Trauma	Cyclist	0	1	1	2	1	3
	Motor Bike Accident	7	0	7	0	0	0
	Motor Vehicle Accident	14	9	23	5	1	6
	Pedestrian	5	4	9	2	0	2
	Other Road Accident	1	0	1	0	0	0
Other Trauma	Fall	8	2	10	4	0	4
	Felony / Crime - Assault	4	0	4	0	0	0
	Gunshot	5	0	5	1	0	1
	Other trauma	0	0	0	1	0	1
Hypoxia Anoxia	Asthma	1	3	4	0	0	0
	Carbon monoxide	2	0	2	0	0	0
	Cardiac arrest	3	2	5	1	0	1
	Cardiac Arrhythmia	0	1	1	0	0	0
	Drowning	3	1	4	0	0	0
	Drug Overdose	0	1	1	0	0	0
	Hanging	1	1	2	0	0	0
	Smoke Inhalation	0	1	1	0	0	0
Strychnine Poisoning	1	0	1	0	0	0	
Cerebral Tumour	Acoustic Neuroma (benign)	0	1	1	0	0	0
	Astrocytoma (malignant)	2	1	3	0	0	0
	Glioblastoma (malignant)	0	0	0	0	1	1
	Glioma (malignant)	1	0	1	0	0	0
	Medulloblastoma (malignant)	1	0	1	0	0	0
	Pinocytoma (benign)	0	0	0	1	0	1
	Pituitary Adenoma (benign)	0	1	1	0	0	0
Other	Cerebral Oedema	2	2	4	3	1	4
	Haemorrhage	0	1	1	0	0	0
	Meningitis (meningococcal)	1	0	1	0	0	0
	Respiratory Disease	0	1	1	0	0	0
Total		109	87	196	31	15	46

Figure 20

Australia and New Zealand

Cause of Donor Death 1989 - 1998

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z.
CVA	40%	51%	49%	41%	45%	20%	47%	47%	49%
Trauma (road)	31%	26%	27%	28%	25%	35%	39%	28%	30%
Trauma (non-road)	17%	12%	9%	22%	13%	25%	5%	12%	13%
Other	12%	11%	15%	9%	17%	20%	9%	13%	8%

Figure 21

Australian States

Cause of Donor Death Related to Age Group 1998

		0-14	15-34	35-54	55 on	Total
Queensland	CVA	1	6	7	6	20
	Trauma (road)	2	5	2	0	9
	Trauma (non-road)	0	4	1	0	5
	Other	0	3	3	0	6
	Total	3	18	13	6	40
NSW/ACT	CVA	1	2	14	17	34
	Trauma (road)	1	10	2	2	15
	Trauma (non-road)	0	4	2	2	8
	Other	0	5	2	1	8
	Total	2	21	20	22	65
Victoria	CVA	1	0	15	7	23
	Trauma (road)	1	3	2	0	6
	Trauma (non-road)	0	0	2	0	2
	Other	2	2	3	2	9
	Total	4	5	22	9	40
Tasmania	CVA	0	0	0	0	0
	Trauma (road)	0	0	0	0	0
	Trauma (non-road)	0	0	0	0	0
	Other	0	0	0	0	0
	Total	0	0	0	0	0
South Australia	CVA	1	2	8	6	17
	Trauma (road)	1	4	0	1	6
	Trauma (non-road)	0	1	0	1	2
	Other	3	1	5	1	10
	Total	5	8	13	9	35
Northern Territory	CVA	0	0	0	1	1
	Trauma (road)	0	0	0	0	0
	Trauma (non-road)	0	0	1	0	1
	Other	0	1	0	0	1
	Total	0	1	1	1	3
Western Australia	CVA	0	2	1	3	6
	Trauma (road)	0	4	1	0	5
	Trauma (non-road)	0	0	1	0	1
	Other	1	0	0	0	1
	Total	1	6	3	3	13

Figure 22

Australian States

Cause of Donor Death Related to Australian States 1991 - 1998

		1991	1992	1993	1994	1995	1996	1997	1998	Total
Queensland	CVA	17	25	16	13	10	12	23	20	136
	Trauma (road)	18	22	11	17	13	12	6	9	108
	Trauma (non-road)	6	12	10	5	7	8	4	5	57
	Other	5	7	7	3	4	3	4	6	39
	Total	46	66	44	38	34	35	37	40	340
NSW/ACT	CVA	38	35	41	41	34	31	39	34	293
	Trauma (road)	13	19	17	17	20	17	16	15	134
	Trauma (non-road)	14	6	8	9	6	9	6	8	66
	Other	11	10	8	6	7	12	8	8	70
	Total	76	70	74	73	67	69	69	65	563
Victoria	CVA	21	21	26	13	19	25	30	23	178
	Trauma (road)	13	11	16	8	9	11	3	6	77
	Trauma (non-road)	3	5	5	2	3	6	4	2	30
	Other	8	5	5	3	7	7	5	9	49
	Total	45	42	52	26	38	49	42	40	334
Tasmania	CVA	2	2	0	4	1	0	3	0	12
	Trauma (road)	0	1	2	2	1	0	1	0	7
	Trauma (non-road)	0	0	4	0	1	1	1	0	7
	Other	0	1	0	0	1	0	0	0	2
	Total	2	4	6	6	4	1	5	0	28
South Australia	CVA	4	12	12	10	13	9	14	17	91
	Trauma (road)	6	2	6	6	4	9	3	6	42
	Trauma (non-road)	1	4	2	3	2	5	3	2	22
	Other	4	2	3	4	4	2	5	10	34
	Total	15	20	23	23	23	25	25	35	189
Northern Territory	CVA	0	0	0	1	1	0	1	1	4
	Trauma (road)	1	0	2	0	0	2	1	0	6
	Trauma (non-road)	0	0	0	0	0	1	1	1	3
	Other	1	0	1	0	0	0	1	1	4
	Total	2	0	3	1	1	3	4	3	17
Western Australia	CVA	11	5	7	9	10	6	2	6	56
	Trauma (road)	9	6	8	6	6	3	5	5	48
	Trauma (non-road)	1	1	0	1	1	0	1	1	6
	Other	2	2	4	0	0	3	0	1	12
	Total	23	14	19	16	17	12	8	13	122

Figure 23**Australia and New Zealand****Occupation of Donors 1995 - 1998**

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Blue collar	31	35	30	28	124	7	3	3	5	18
Home duties	19	22	30	29	100	1	4	1	5	11
Invalid pensioner	6	8	7	8	29	0	0	1	0	1
Management	1	0	2	2	5	2	2	1	0	5
Other	1	0	1	4	6	0	0	0	0	0
Pre-school	4	6	3	4	17	0	0	0	1	1
Primary industry	1	4	5	1	11	0	0	2	2	4
Professional	12	20	8	7	47	2	2	3	2	9
Retired	14	13	15	17	59	2	3	1	1	7
Small business owner	9	5	5	0	19	0	0	0	0	0
Student	23	24	19	23	89	8	8	6	9	31
Tradesperson	12	9	8	7	36	2	5	9	4	20
Unemployed	6	8	9	5	28	3	1	3	1	8
Unknown	35	22	35	46	138	6	4	8	13	31
White collar	10	18	13	15	56	2	4	4	3	13
Total	184	194	190	196	764	35	36	42	46	159

Figure 24**Australia and New Zealand****Ethnic Origin of Donors 1995 - 1998**

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Aboriginal	1	2	0	1	4	0	0	0	0	0
Arab	0	0	1	0	1	0	0	0	0	0
Caucasoid	180	184	184	189	737	33	35	40	43	151
Greek	(1)	(2)	(2)	(3)	(8)	0	0	0	0	0
Italian	(4)	(3)	0	(2)	(9)	0	0	0	0	0
Chinese	0	2	1	1	4	0	0	0	0	0
Filipino	1	1	0	1	3	0	0	1	0	1
Indian	0	0	0	1	1	0	0	0	0	0
Korean	0	0	0	1	1	0	0	0	0	0
Maori	1	0	1	0	2	2	0	0	2	4
Mauritian	0	0	0	2	2	0	0	0	0	0
Pacific Islander	0	1	1	0	2	0	1	0	1	2
Pakistani	1	0	0	0	1	0	0	0	0	0
Sri Lankan	0	1	0	0	1	0	0	1	0	1
Vietnamese	0	3	2	0	5	0	0	0	0	0
Total	184	194	190	196	764	35	36	42	46	159

Figure 25**Australia and New Zealand****Religious Denomination of Donors 1995 - 1998**

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Buddhist	0	2	2	2	6	0	0	1	0	1
Christian	103	108	106	93	410	11	11	8	7	37
Jewish	0	2	0	0	2	0	0	0	0	0
Muslim	1	0	1	0	2	0	0	0	0	0
No religion	22	19	7	25	73	4	5	4	5	18
Unknown	58	63	74	76	271	20	20	29	34	103
Total	184	194	190	196	764	35	36	42	46	159

HEART-BEATING DONORS

The vast majority of donors are heart-beating, brain dead patients.

In 1998 there were two non-heart beating donors in Australia (both in South Australia) and none in New Zealand (Figure 26).

Figure 26

Australia and New Zealand

Heart-Beating Donors 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Yes	180	192	187	194	753	35	35	41	46	157
No	4	2	3	2	11	0	1	1	0	2
Total	184	194	190	196	764	35	36	42	46	159

Figure 27

Australia and New Zealand

Cardiopulmonary Resuscitation 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Yes	31	40	32	39	142	7	4	2	6	19
No	149	152	153	156	610	27	30	40	39	136
Unknown	4	2	5	1	12	1	2	0	1	4
Total	184	194	190	196	764	35	36	42	46	159

VIROLOGY SCREENING

Figure 28**Australia and New Zealand**

Cytomegalovirus (CMV) Status of Donors 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Positive	122	139	140	129	530	25	19	27	20	91
Negative	61	55	49	67	232	10	16	15	21	62
Not done	1	0	1	0	2	0	1	0	5	6
Total	184	194	190	196	764	35	36	42	46	159

HEPATITIS B AND HEPATITIS C STATUS OF DONORS

Since the collection of Hepatitis B surface antigen in 1993, all Australian and New Zealand donors have been negative.

The Registry commenced the collection of Hepatitis B core antibody results in 1998. In Australia, 183 (94%) of all donors were tested. A positive result was recorded for five (2.7%) donors. All New Zealand donors were tested, with a positive result for four (9%) donors.

EPSTEIN-BARR VIRUS (EBV) STATUS OF DONORS

There are no national guidelines requiring organ donors to be tested for EBV. However, 26% (50) of donors were tested, with 52% recording a positive result.

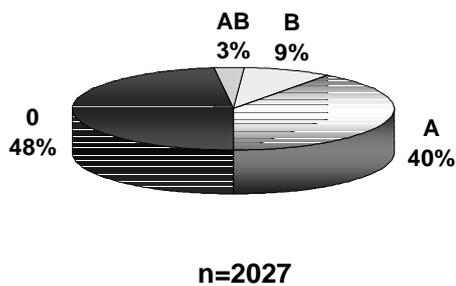
BLOOD GROUP OF DONORS

The distribution of blood groups in the general population is 'O': 49%, 'A': 38%, 'B': 10%, 'AB': 3% (data from the Australian Red Cross Blood Bank), and for New Zealand 'O': 48%, 'A': 39%, 'B': 10% and 'AB': 3% (Auckland Regional Blood Centre).

The distribution of donors for the total reporting period for each country is similar to population distribution (Figures 29, 30 and 31).

Figures 29 and 30

**Blood Group of Donors
Australia 1989 - 1998**



**Blood Group of Donors
New Zealand 1993 - 1998**

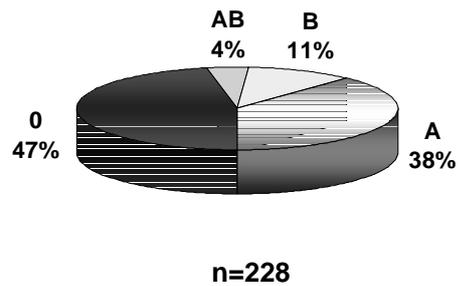


Figure 31

Australia and New Zealand

Blood Group of Donors 1995 - 1998

		1995		1996		1997		1998	
Australia	O	92	50%	92	47%	84	44%	102	52%
	A	68	37%	86	44%	80	42%	70	36%
	B	17	9%	13	7%	22	12%	18	9%
	AB	7	4%	3	2%	4	2%	6	3%
	Total	184	100%	194	100%	190	100%	196	100%
New Zealand	O	13	37%	14	39%	23	55%	22	48%
	A	17	49%	16	44%	11	26%	14	30%
	B	4	11%	5	14%	5	12%	6	13%
	AB	1	3%	1	3%	3	7%	4	9%
	Total	35	100%	36	100%	42	100%	46	100%

MEDICAL CONDITION OF DONORS

The following information relating to diabetes, hypertension, smoking and alcohol intake in donors has been collected since 1993.

Diabetes

There were two Type 1 diabetics (insulin dependent) and three Type 2 (non-insulin requiring) accepted as donors in Australia in 1998. There were two Type 1 and one Type 2 diabetic donors in New Zealand in 1998. There were no diabetic donors recorded prior to 1998 in New Zealand.

Hypertension

In 1998, 31 (16%) of Australian donors had a past history of chronic hypertension. New Zealand recorded four donors (9%) with a past history of chronic hypertension.

See Figure 32 and 33.

Smoking

In 1998, 34% of Australian organ donors were recorded as being current smokers, and 5% were recorded as being former smokers. In New Zealand, 24% were reported as current smokers and 2% recorded as being former smokers.

See Figure 32 and 33.

Alcohol

In Australia (1998), 23% of donors were recorded as having an alcohol intake of >40 grams per day. However, for the same year in New Zealand it was 4%. See Figure 32 and 33.

Donor weight

The allocation of heart, lungs and livers is based on the matching of recipient and donor weight. In 1998 there were ten donors in Australia and one in New Zealand who weighed less than 40 kilograms. See Figure 34.

Figure 32

Australia and New Zealand

		Donor Diabetes, Hypertension, Smoking and Alcohol 1994 - 1998									
		1994		1995		1996		1997		1998	
		(n=183)		(n=184)		(n=194)		(n=190)		(n=196)	
Australia	Diabetes Type 1	1	(<1%)	2	(1%)	0	0	2	(1%)	2	(1%)
	Diabetes Type 2	2	(1%)	6	(3%)	2	(1%)	2	(1%)	3	(1.5%)
	Hypertension	21	(11%)	27	(15%)	21	(11%)	28	(15%)	31	(16%)
	Unknown	10	(5%)	6	(3%)	10	(5%)	15	(8%)	9	(5%)
	Smoking										
	Current	59	(32%)	55	(30%)	77	(40%)	66	(35%)	66	(34%)
	Former	13	(7%)	20	(11%)	16	(8%)	15	(8%)	10	(5%)
	Unknown	11	(6%)	17	(9%)	16	(8%)	17	(9%)	12	(6%)
	Alcohol										
	Current	42	(23%)	57	(31%)	68	(35%)	63	(33%)	45	(23%)
	Former	2	(1%)	6	(3%)	4	(2%)	2	(1%)	4	(1%)
	Unknown	29	(16%)	33	(18%)	27	(14%)	28	(15%)	37	(19%)
New Zealand		(n=35)		(n=35)		(n=36)		(n=42)		(n=46)	
	Diabetes Type 1	0	0	0	0	0	0	0	0	2	
	Diabetes Type 2	0	0	0	0	0	0	0	0	1	
	Hypertension	10	(29%)	3	(9%)	2	(6%)	8	(19%)	4	(9%)
	Unknown	2	(6%)	2	(6%)	0	0	1	(2%)	1	(2%)
	Smoking										
	Current	11	(31%)	13	(37%)	11	(31%)	15	(36%)	11	(24%)
	Former	4	(11%)	2	(6%)	0	0	2	(5%)	1	(2%)
	Unknown	6	(17%)	6	(17%)	0	0	3	(7%)	3	(7%)
	Alcohol										
	Current	10	(29%)	5	(14%)	4	(11%)	4	(10%)	2	(4%)
	Former	1	(3%)	0	0	0	0	2	(5%)	1	(2%)
Unknown	7	(20%)	6	(17%)	1	(3%)	4	(10%)	4	(9%)	

Figure 33**Australian States****Medical Conditions of Donor by Australian State 1998 (1997)**

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Total
Diabetes Type 1	0	0 (1)	2 (0)	0	0	0 (1)	0	2 (2)
Diabetes Type 2	0	2 (2)	1 (0)	0	0	0	0	3 (2)
Hypertension	2 (2)	14 (11)	8 (9)	0 (1)	7 (4)	0	0 (1)	31 (28)
Smoking Current	7 (13)	24 (18)	16 (17)	0 (4)	15 (8)	1 (2)	3 (4)	66 (66)
Alcohol intake >40 gms per day	3 (9)	7 (12)	23 (21)	0 (4)	10 (10)	1 (4)	1 (3)	45 (63)

Figure 34**Australia and New Zealand****Donor Weight**

	Years	Kilograms									Total
		0-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90 +	
Australia 1989 - 1998	1989	5	6	7	8	28	47	45	23	6	175
	1990	7	5	6	3	14	48	50	37	13	183
	1991	4	6	3	6	19	50	57	43	18	206
	1992	7	6	2	4	17	46	57	48	23	210
	1993	6	4	6	6	16	53	55	49	19	214
	1994	4	8	0	2	13	48	50	34	20	179
	1995	1	5	3	2	19	29	54	44	25	182
	1996	5	2	2	6	18	42	47	47	22	191
	1997	3	1	2	2	17	28	52	43	38	186
	1998	4	2	4	6	22	34	60	36	26	194
	Total	46	45	35	45	183	425	528	404	210	1921
New Zealand 1993-1998	1993	0	1	0	0	2	8	12	9	0	32
	1994	1	0	0	0	2	8	8	11	5	35
	1995	0	1	1	0	2	7	10	12	1	34
	1996	0	0	1	2	6	7	12	8	0	36
	1997	0	0	3	1	3	7	15	10	2	41
	1998	1	0	0	1	3	12	12	15	2	46
		Total	2	2	5	4	18	49	69	65	10

DONOR INTENTION

Figures 35 to 38 show whether the donor had recorded an intention to be a donor through a signed driver's licence or a donor card.

In 1998, 28% of Australian and 22% of New Zealand organ donors had a signed driver's licence. There was a large variation between the Australian States, with the highest recordings in Western Australia 46%, South Australia 40%, and the lowest in Victoria 2% and Northern Territory 0%. There are a large number of donors in the "unknown" category.

In 1998, only seven Australian (3.5%) and no New Zealand donors had a signed donor card.

There were no donor cards signed in Queensland, Western Australia and the Northern Territory and only three in New South Wales and two in each of Victoria and South Australia. Once again there was a large number of donors in the "unknown" category.

There were four organ donors who had enrolled in the Western Australia Registry Scheme and none in the Victorian Scheme.

Figure 35 **Australia and New Zealand**

Driver's Licence Status 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Yes	48	39	46	54	187	6	6	11	10	33
No	54	67	53	60	234	1	6	2	1	10
Student / Not Applicable	16	22	18	18	74	6	1	3	9	19
Unknown	66	66	73	64	269	22	23	26	26	97
Total	184	194	190	196	764	35	36	42	46	159

Figure 36 **Australian States**

Driver's Licence Status 1998 (1997)

	Qld		NSW/ACT		Vic.		Tas.		SA		NT		WA		Total	
Yes	14	(16)	19	(19)	1	(1)	0	(1)	14	(6)	0	(2)	6	(1)	54	(46)
No	12	(8)	6	(5)	28	(20)	0	(3)	8	(10)	1	(2)	5	(5)	60	(53)
Student / Not Applicable	3	(4)	2	(9)	7	(2)	0	0	5	(1)	0	0	1	(2)	18	(18)
Unknown	11	(9)	38	(36)	4	(19)	0	(1)	8	(8)	2	(0)	1	(0)	64	(73)
Total	40	(37)	65	(69)	40	(42)	0	(5)	35	(25)	3	(4)	13	(8)	196	(190)

Figure 37 **Australia and New Zealand**

Donor Card Status 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Yes	12	11	5	7	35	0	0	1	0	1
No	75	79	77	92	323	28	31	33	39	131
Student / Not Applicable	15	22	18	21	76	6	5	3	7	21
Unknown	82	82	90	76	330	1	0	5	0	6
Total	184	194	190	196	764	35	36	42	46	159

Figure 38**Australian States****Donor Card Status 1998 (1997)**

	Qld		NSW/ACT		Vic.		Tas.		SA		NT		WA		Total	
Yes	0	0	3	(1)	2	(1)	0	(1)	2	(1)	0	0	0	(1)	7	(5)
No	23	(19)	11	(12)	31	(20)	0	(4)	19	(13)	1	(4)	7	(5)	92	(77)
Student/Not Applicable	3	(4)	3	(9)	4	(2)	0	0	7	(1)	0	0	4	(2)	21	(18)
Unknown	14	(14)	48	(47)	3	(19)	0	0	7	(10)	2	(0)	2	(0)	76	(90)
Total	40	(37)	65	(69)	40	(42)	0	(5)	35	(25)	3	(4)	13	(8)	196	(190)

CONSENT FOR ORGAN DONATION

Figure 39 shows that Intensive Care Clinicians and Registrars played the predominant role in requesting consent for organ donation in both Australia (60%) and New Zealand (89%) in 1998.

There is a large difference between the Australian States in the role of the Donor Coordinator in seeking consent. In 1998, consent was sought by the Donor Coordinator in Western Australia 62%, South Australia 23%, Queensland 15%, New South Wales/ACT

8% and Victoria 3%. Northern Territory and Tasmania do not have any resident Donor Coordinators. See Figure 40.

Twenty three percent of families volunteered consent for organ donation in Australia and none in New Zealand. Queensland had the highest number of donor families who volunteered consents, 48% in 1998, followed by South Australia 23%, Victoria 20%, Western Australia 15%, New South Wales/ACT 12% and Tasmania and Northern Territory 0%.

Figure 39**Australia and New Zealand****Consent 1995 - 1998**

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
ICU Clinician/Registrar	105	123	108	118	454	18	21	27	41	107
Renal Physician/Registrar	3	0	3	0	6	1	4	1	1	7
Other Doctor	0	0	0	1	1	1	0	6	4	11
Donor Coordinator	18	18	24	28	88	0	0	0	0	0
Volunteered	56	51	54	45	206	14	8	7	0	29
Nursing Staff	1	0	1	2	4	1	0	1	0	2
Social Worker	1	2	0	1	4	0	0	0	0	0
Others	0	0	0	1	1	0	3	0	0	3
Total	184	194	190	196	764	35	36	42	46	159

Figure 40**Australian States****Consent 1998 (1997)**

	Qld		NSW/ACT		Vic.		Tas.		SA		NT		WA		Total	
ICU Clinician/Registrar	15	(17)	48	(43)	31	(22)	0	(5)	19	(15)	2	(4)	3	(2)	118	(108)
Renal Physician/Registrar	0	(1)	0	(3)	0	0	0	0	0	0	0	0	0	0	0	(4)
Donor Coordinator	6	(7)	5	(7)	1	(6)	0	0	8	(4)	0	0	8	(0)	28	(24)
Volunteered	19	(12)	8	(16)	8	(14)	0	0	8	(6)	0	0	2	(6)	45	(54)
Other	0	0	4	(0)	0	0	0	0	0	0	1	(0)	0	0	5	(0)
Total	40	(37)	65	(69)	40	(42)	0	(5)	35	(25)	3	(4)	13	(8)	196	(190)

DIRECT CONTACT WITH DONOR COORDINATOR

The question regarding contact with donor families was reworded in 1998 to reflect a broader definition of direct contact. This question now reflects telephone as well as face

to face contact at the time of organ donation at the hospital. There were eleven families (6%) in Australia in which the donor coordinator had no contact, as compared to 67% in New Zealand.

Figure 41

Australia and New Zealand

Direct Contact with Donor Coordinator 1998

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z.
Face to Face	32 (80%)	38 (58%)	31 (78%)	0	29 (83%)	0	13 (100%)	143 (73%)	15 (33%)
Telephone	5 (12.5%)	22 (34%)	7 (17%)	0	6 (17%)	2 (67%)	0	42 (21%)	0
None	3 (7.5%)	5 (8%)	2 (5%)	0	0	1 (33%)	0	11 (6%)	31 (67%)
Total	40 (100%)	65 (100%)	40 (100%)	0	35 (100%)	3 (100%)	13 (100%)	196 (100%)	46 (100%)

CORONER'S CASES

Forty eight percent of all Australian donors were subject to Coronial inquiry. This is an increase from 43% in 1997.

In New Zealand it was 54% for 1998, a decrease from 67% in 1997.

Figure 42

Australia and New Zealand

Coroner's Cases 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Yes	96	110	82	94	382	24	17	28	25	94
No	88	84	108	102	382	11	19	14	21	65
Total	184	194	190	196	764	35	36	42	46	159

Figure 43

Australian States

Coroner's Cases 1998 (1997)

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Total
Yes	15 (15)	40 (37)	14 (10)	0 (2)	16 (9)	2 (2)	7 (7)	94 (82)
No	25 (22)	25 (32)	26 (32)	0 (3)	19 (16)	1 (2)	6 (1)	102 (108)
Total	40 (37)	65 (69)	40 (42)	0 (5)	35 (25)	3 (4)	13 (8)	196 (190)

SUMMARY - ORGANS REQUESTED, CONSENT GIVEN, RETRIEVED AND TRANSPLANTED

The information relating to the request for organ donation refers only to those patients who become organ donors. If consent was sought and refused, the Registry has no record of these potential donors.

The difference between a request and a consent is a family refusal for the specific organ.

Reasons for not requesting organs, not retrieving and not transplanting are documented for all of the specific organs.

Refer to the Appendices.

Figure 44 shows the outcome of organs requested in 1998 (1997).

Figure 44 **Australia and New Zealand**

Outcome Following Request for Organ Donation 1998 (1997)

		Kidneys		Liver		Heart		Lungs		Pancreas	
Australia	Requested	382	(374)	185	(165)	160	(151)	310	(292)	110	(99)
	Consent Given	382	(374)	182	(162)	154	(143)	300	(284)	98	(89)
	Retrieved	365	(366)	139	(130)	75	(98)	142	(133)	25	(26)
	Transplanted	354	(355)	*138	(*130)	73	(93)	132	(132)	18	(16)
New Zealand	Requested	92	(84)	41	(35)	35	(34)	56	(62)	20	(6)
	Consent Given	92	(84)	41	(34)	35	(33)	56	(60)	19	(4)
	Retrieved	87	(84)	32	(22)	13	(16)	16	(10)	2	(1)
	Transplanted	79	(83)	30	(22)	13	(16)	15	(7)	1	(0)

* Split Liver (7) 1998, (9) 1997.

Kidneys and Lungs are counted as separate organs

ORGANS REQUESTED

From the 196 Australian organ donors in 1998, specific organs requested were: kidneys 97%, liver 94%, heart 82%, lungs 79% and pancreas 56% of all donors.

From the 46 New Zealand donors in 1998, specific organs requested were: kidneys 100%, liver 89%, heart 76%, lungs 61% and pancreas 43% of all donors.

ORGANS CONSENTED

Overall consent to retrieve more than one organ or tissue was given in 96% of Australian donors in 1998. This is similar to the previous year (95%).

For New Zealand, 91% of 1998 donors consented to more than one organ. This was an increase from 90% in 1997.

The specific organs consented from those requested in Australia in 1998 were: kidneys 100%, liver 98%, heart 96%, lungs 97% and pancreas 89%.

In New Zealand, kidneys 100%, liver 100%, heart 100%, lungs 100% and pancreas 95%.

ORGANS RETRIEVED

For those Australian organs for whom consent had been given, the specific organ retrieval rates in 1998 were: kidneys 96%, liver 76%, heart 49%, lungs 47% and pancreas 26%.

Figure 45 shows the number of organs retrieved from each donor. In Australia in 1998, 77% of donors were multiple organ donors, compared to 80% in New Zealand. These figures exclude tissue donation.

Figure 46 shows some differences between

States. In particular, single organ donation ranged from 0% in Western Australia and Northern Territory to 37% in South Australia.

There was no donor in the Northern Territory and Queensland who donated five organs in 1998.

For New Zealand in 1998, the specific organ retrieval rates when consent had been given were: kidneys 95%, liver 78%, heart 37%, lungs 29% and pancreas 11%.

Figure 45

Australia and New Zealand

Trend to Multiple Organ Retrieval 1995 - 1998

No. of Organs	Australia				New Zealand			
	1995	1996	1997	1998	1995	1996	1997	1998
Single	18%	27%	24%	23%	29%	17%	33%	24%
Two	20%	23%	21%	32%	31%	44%	31%	45%
Three	32%	24%	24%	18%	20%	25%	33%	19%
Four	27%	20%	25%	21%	20%	14%	3%	10%
Five	3%	6%	6%	6%	0	0	0	2%

Figure 46

Australian States

State by State Comparison of Multiple Organ Retrieval 1998

No. of Organs	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA
Single	15%	22%	30%	0	37%	0	0
Two	32%	35%	30%	0	32%	0	31%
Three	27%	18%	10%	0	11%	33%	31%
Four	23%	14%	25%	0	17%	67%	31%
Five	3%	11%	5%	0	3%	0	7%
Total	100%	100%	100%	0	100%	100%	100%

NB: 2 kidneys = 1 organ 2 lungs = 1 organ

(On occasions when only one kidney is retrieved, this is also defined as one organ)

ORGANS TRANSPLANTED

The rate of transplantation from Australian organs that were retrieved in 1998 was: kidneys 97%, liver 99% (including recipients of "split" livers), heart 97%, lungs 93% and pancreas 72%.

In 1998, Australia had 3.4 organs used for transplantation, compared to New Zealand at 2.9.

Northern Territory had the highest number of organs transplanted, 5 per donor, followed by Queensland 3.7. These figures exclude tissue transplantation and relates to the number of recipients.

In 1998 for New Zealand, the transplantation rate was: kidneys 91%, liver 94%, heart 100%, lungs 94% and pancreas 50%.

Figure 47

Australia and New Zealand

Organs Transplanted per Donor 1998 (1997)

	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z.
No. Organs Transplanted	146 (150)	227 (240)	127 (144)	0 (16)	99 (79)	15 (14)	52 (36)	666 (679)	132 (126)
No. of Donors	40 (37)	65 (69)	40 (42)	0 (5)	35 (25)	3 (4)	13 (8)	196 (190)	46 (42)
Average per Donor	3.7 (4.1)	3.5 (3.5)	3.2 (3.4)	0 (3.2)	2.8 (3.1)	5.0 (3.5)	4.0 (4.5)	3.4 (3.6)	2.9 (3.0)

EXCHANGE OF ORGANS

Figure 48 shows the number of organs that were sent to and received from Australian States and New Zealand.

A balance is maintained between Australian States for the allocation of kidneys.

This is achieved by the Interstate Kidney

Exchange protocols in which all Australian States participate.

There is no monitoring of allocation for the other organs.

Neither the Northern Territory nor Tasmania have a transplant unit.

Figure 48

Australia and New Zealand

Exchange of Organs Between States and New Zealand 1998 (1997)

		Kidneys		Liver		Heart		Lungs *		Pancreas		Total	
Queensland	Sent	13	(9)	10	(6+)	8	(3)	18	(13)	1	(1)	50	(32)
	Received	4	(13)	25+	(23)	3	(3)	10	(4)	0	(0)	42	(43)
New South Wales/ACT	Sent	16	(26)	11	(17)	3	(0)	7	(6)	0	(0)	37	(47)
	Received	21	(32)	19	(15)	11	(8)	22	(15)	2	(1)	75	(71)
Victoria	Sent	14	(25)	14+	(5+)	2	(3)	1	(4)	0	(0)	31	(37)
	Received	19	(25)	19	(19)	14	(12)	34	(38)	1	(0)	87	(94)
Tasmania	Sent	0	(8)	0	(3)	0	(3)	0	(4)	0	(0)	0	(18)
South Australia	Sent	9	(11)	15	(11)	10	(10)	18	(14)	2	(0)	54	(46)
	Received	16	(12)	3	(2+)	0	(0)	0	(0)	0	(0)	19	(14)
Northern Territory	Sent	6	(6)	3	(4)	2	(2)	6	(4)	0	(0)	17	(16)
Western Australia	Sent	6	(7)	1	(3)	2	(2)	8	(10)	0	(0)	17	(22)
	Received	8	(12)	3	(12)	2	(2)	0	(0)	0	(0)	13	(26)
New Zealand	Sent	4	(2)	16	(22)	3	(2)	8	(2)	0	(0)	31	(28)
	Received	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)

* Total number of lungs (not recipients)

+ Number of recipients of livers

Figure 49

Summary of Organs from New Zealand Donors Transplanted in Australia 1989 - 1998

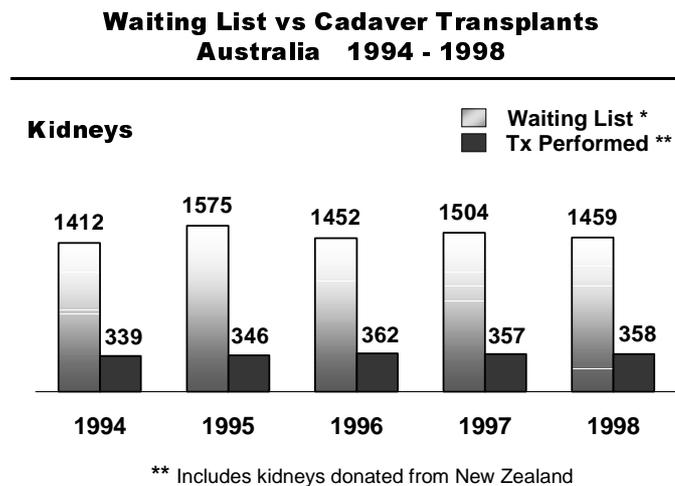
Year	Liver	Heart	Lungs	Kidneys	Total
1989	1	0	0	0	1
1990	7	0	0	0	7
1991	11	0	0	0	11
1992	24	0	0	2	26
1993	16	0	0	0	16
1994	21	0	2	4	27
1995	21	5	9	0	35
1996	23	1	4	1	29
1997	22	2	2	2	28
1998	16	3	8	4	31
Total	162	11	25	13	211

KIDNEY DONATION

Figure 50 shows the number of Australian patients waiting for a kidney transplant and the number of cadaver transplants performed for each year from 1994 - 1998.

Figure 51 shows the number of New Zealand patients waiting for a kidney transplant and the number of cadaver transplants performed for each year from 1995 - 1998.

Figure 50



* Data as at 30-Jun-94 ACCORD Newsletter 9, published Aug-94

* Data as at 30-Jun-95 ACCORD Newsletter 12, published Sep-95

* Data as at 30-Jun-96 ACCORD Newsletter 14, published Jul-96

* Data as at 30-Jun-97 ACCORD Newsletter 17, published Aug-97

* Data as at 31-Dec-98 Australians Donate

Figure 51

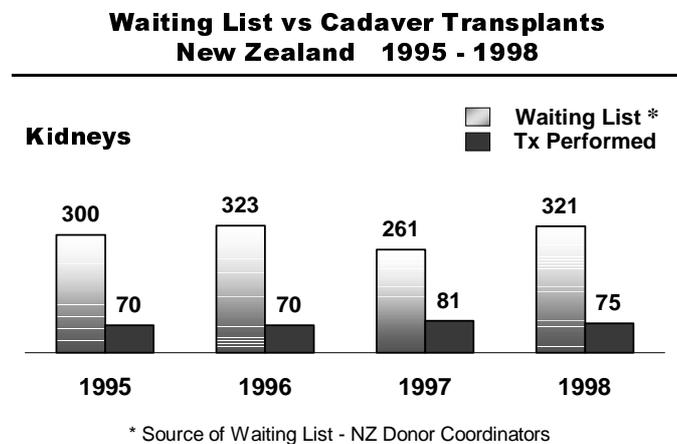


Figure 52

Australia and New Zealand

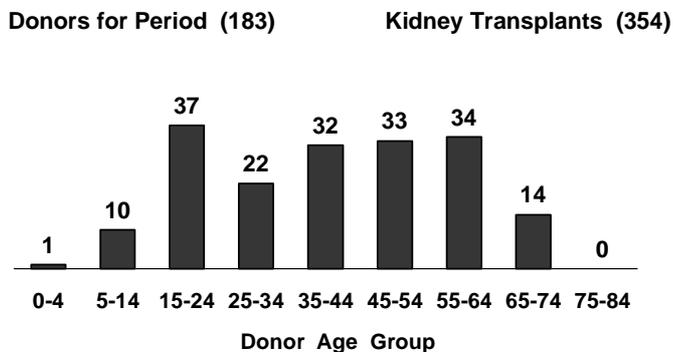
Age of Kidney Donors 1994 - 1998

	Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	Total
Australia	1994	5 (3)	10	46	23	27	32	17	10	1	171
	1995	4 (2)	9	39	31	33	29	23 (1)*	10	0	178
	1996	5 (3)	10	36	29	36	39	25	8	0	188
	1997	3 (2)	8	32	21	36	46	21	12	3	182
	1998	1 (1)	10	37	22	32	33	34 (1*)	14 (1x)	0	183
	Total	18 (11)	47	190	126	164	179	120	54	4	902
New Zealand	1994	1 (1)	0	4	8	7	10	4	1	0	35
	1995	0	4	9	6	7	5	2	2	0	35
	1996	0	2	12	3	3	9	6	1	0	36
	1997	0	4	14	4	3	9	7	1	0	42
	1998	1 (1)	4	8	6	8	7	6	1	0	41
	Total	2 (2)	14	47	27	28	40	25	6	0	189

() En-Bloc Kidneys
 * Horseshoe Kidney (Adult)
 x Double Adult

Figures 53 and 54

**Age of Kidney Donors
Australia 1998**



New Zealand 1998

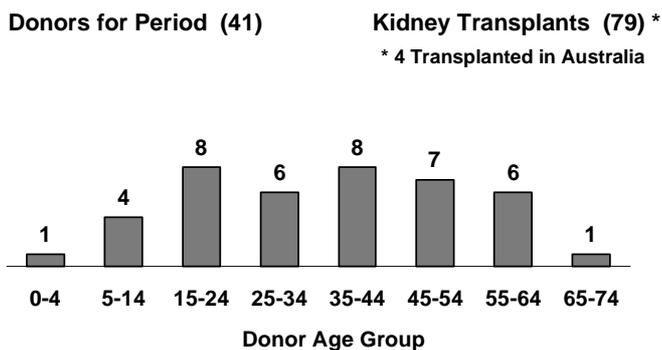


Figure 55**Australia and New Zealand****Reasons Kidneys were Unusable 1994 - 1998**

		1994	1995	1996	1997	1998	Total
Australia	Renal disease in donor	2	5	9	4	7	27
	Infection in donor	2	0	3	1	0	6
	Cancer in donor	2	2	0	0	0	4
	Anatomical	0	0	6	3	1	10
	Surgical	2	5	1	1	0	9
	Trauma	0	0	0	0	0	0
	No suitable recipient	0	0	1	0	0	1
	Unknown	0	0	1	0	0	1
Total	8	12	21	9	8	58	

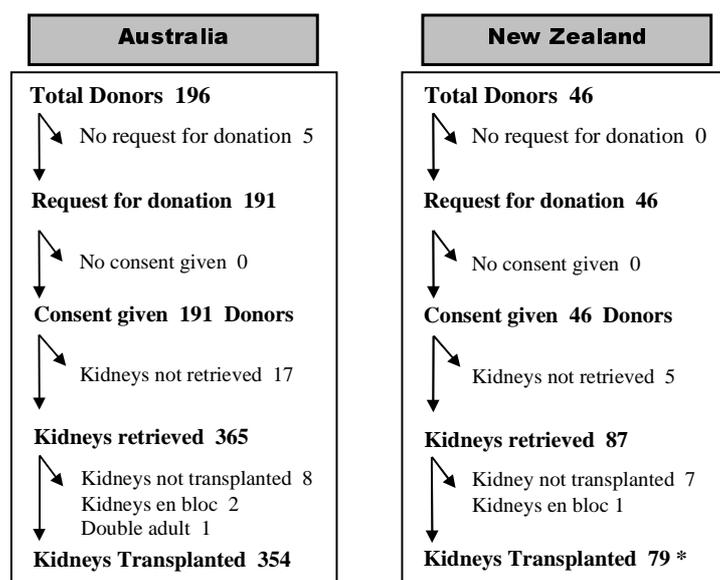
New Zealand	Renal Disease in Donor	0	0	0	0	5	5
	Infection in Donor	0	0	0	0	2	2
	Surgical	0	0	1	1	0	2
	Total	0	0	1	1	7	9

Figure 56**Australia and New Zealand****Donor Age of Unusable Kidneys 1994 - 1998**

		Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	Total
Australia *	1994	1	0	0	1	0	0	2	2		6
	1995	0	0	0	0	3	0	5	0		8
	1996	2	0	0	0	1	0	7	5		15
	1997	0	0	0	0	0	1	3	3		7
	1998	0	0	1	0	2	1	0	2		6
	Total	3	0	1	1	6	2	17	12		42

New Zealand *	1994	0	0	0	0	0	0	0	0		0
	1995	0	0	0	0	0	0	0	0		0
	1996	0	0	0	0	0	1	0	0		1
	1997	0	0	0	0	0	1	0	0		1
	1998	0	0	0	1	0	1	2	0		4
	Total	0	0	0	1	0	3	2	0		6

* Actual Donors

Figures 57 and 58**Outcome of Request for Kidney Donation 1998**

* 4 Transplanted in Australia

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

KIDNEY PERFUSION METHODS

Australia

In 1998, Ross solution was used predominantly (66%) as the single perfusion solution. See Figure 59.

However, University of Wisconsin (UW) was used as the final perfusion solution in 74% of cases when more than one solution was used. See Figure 60.

There has been a decrease since 1994 in the use of single solution perfusion and an increase in the addition of other solutions prior to the final use of UW solution over this period.

There were 56 kidneys in which the second preservation was UW. However, they were then stored in Ross or Hartmans.

New Zealand

UW solution was predominantly used as the single perfusion solution. The majority of kidneys were perfused with one solution.

UW was the final perfusion solution in 89% of kidneys. Kidneys were always stored in the second preservation solution in 1998.

Figure 59

Australia and New Zealand

Kidney Perfusion with Only One Solution 1994 - 1998

	Australia					New Zealand				
	1994	1995	1996	1997	1998	1994	1995	1996	1997	1998
Ross	97	84	114	71	46	6	0	8	12	6
UW	103	22	22	34	16	24	12	2	14	71
Collins	16	6	10	6	8	4	16	8	2	2
Hartmans	0	0	2	0	0	0	0	0	0	2
Total	216	112	148	111	70	34	28	18	28	81

Figure 60

Australia and New Zealand

Final Perfusion Solution - Kidneys 1994 - 1998

	Australia					New Zealand				
	1994	1995	1996	1997	1998	1994	1995	1996	1997	1998
Ross	125	130	130	99	60	10	2	12	14	6
UW	165	203	219	227	269	52	52	52	68	77
Collins	54	26	34	40	36	6	16	8	2	2
Hartmans	0	0	2	0	0	0	0	0	0	2
Total	344	359	385	366	365	68	70	72	84	87

DONOR KIDNEY FUNCTION

Terminal Levels of Serum Creatinine and Urea

In 1998, 91% of Australian donors had a terminal serum creatinine of < 125 $\mu\text{mol/L}$ and 94% had a terminal serum urea of < 9 mmol/L.

New Zealand had 96% of donors with a terminal serum creatinine of < 125 $\mu\text{mol/L}$ and 90% with terminal serum urea of < 9 mmol/L.

Figure 61

Australia and New Zealand

Terminal Serum Creatinine Levels 1994 - 1998

Creatinine Levels	Australia					New Zealand				
	1994	1995	1996	1997	1998	1994	1995	1996	1997	1998
00-99	72%	56%	63%	69%	72%	78%	56%	85%	67.5%	73%
100-124	17%	26%	22%	19%	19%	11%	35%	9%	22.5%	23%
125-149	4%	12%	7%	4%	6%	4.5%	9%	3%	5%	2%
150-174	3%	5%	5%	4%	2%	2%	0	0	2.5%	0
175-199	2%	0	1%	2%	<1%	0	0	3%	0	2%
200-224	1%	1%	1%	1%	<1%	0	0	0	2.5%	0
225-249	1%	0	<1%	<1%	0	4.5%	0	0	0	0
> 250	0	<1%	0	1%	0	0	0	0	0	0

Figure 62

Australia and New Zealand

Terminal Serum Urea Levels 1994 - 1998

Urea Levels	Australia					New Zealand				
	1994	1995	1996	1997	1998	1994	1995	1996	1997	1998
00-04	50%	35%	48%	49%	48%	43%	46%	47%	39%	41%
05-08	40%	55%	38%	38%	46%	48%	44%	47%	53%	49%
09-12	10%	9%	10%	10%	5%	3%	5%	3%	5%	10%
13-16	<1%	0	2%	2%	1%	6%	5%	3%	0	0
> 16	0	1%	2%	1%	0	0	0	0	3%	0

EFFECT OF CREATININE LEVEL ON KIDNEY GRAFT SURVIVAL

The kidney graft survival analysis has been produced by incorporating data from the ANZDATA Registry with specific donor data from the ANZOD Registry.

For Australia there is no significant difference in kidney graft survival when donors with a terminal serum creatinine of <120 µmol/L are compared to those with higher levels (p=0.7351).

For New Zealand the numbers of donors with a higher creatinine are small and for this group survival is only calculated to two years.

There is nevertheless no difference between the groups (p=0.2091).

Figure 63

Australia and New Zealand

Terminal Creatinine Levels in Kidney Donors Primary Cadaver Graft Survival

Creatinine Levels		1 Year	2 Years	3 Years	4 Years	5 Years
Australia 1989 to 30-Sep-98	< 120 µmol/L (n=2451)	87 + 1	84 + 1	80 + 1	77 + 1	74 + 1
	> 120 µmol/L (n=662)	86 + 1	84 + 1	80 + 2	77 + 2	73 + 2
New Zealand 1993 to 30-Sep-98	< 120 µmol/L (n=298)	80 + 2	77 + 3	74 + 3	71 + 3	
	> 120 µmol/L (n=42)	87 + 5	84 + 6			

[% survival ± S.E.]

EFFECT OF OLIGURIA ON KIDNEY GRAFT SURVIVAL

In Australia there was a difference in kidney graft survival which did not reach statistical significance when comparing donors who had no oliguria and those who were oliguric. The difference was not obvious at one year but became increasingly great in subsequent years. (log rank p=0.0654).

Oliguria was defined as urine output <20 mls for any hour in the terminal twelve hours.

For New Zealand donors there was no difference for survival between donors with and without oliguria.

Figure 64

Australia and New Zealand

Oliguria in Kidney Donors Primary Cadaver Graft Survival

Oliguria		1 Year	2 Years	3 Years	4 Years	5 Years
Australia 1989 to 30-Sep-98	No oliguria (n=2896)	87 + 1	84 + 1	80 + 1	77 + 1	74 + 1
	Oliguria (n=321)	86 + 2	82 + 2	76 + 3	72 + 3	66 + 3
New Zealand 1993 to 30-Sep-98	No oliguria (n=282)	81 + 2	79 + 3	75 + 3	73 + 3	66 + 5
	Oliguria (n=72)	81 + 5	74 + 6	74 + 6		

[% survival ± S.E.]

EFFECT OF HYPOTENSION ON KIDNEY GRAFT SURVIVAL

For the purpose of this analysis hypotension was defined as a systolic blood pressure <70 mmHg at any time during their terminal care.

In both Australia and New Zealand there was no significant difference in kidney graft survival between those donors with or without

hypotension (Australia log rank $p=0.57$, New Zealand log rank $p=0.45$).

The numbers for the New Zealand group with hypotension are small and have been calculated only to the end of two years.

Figure 65

Australia and New Zealand

Hypotension in Kidney Donors Primary Cadaver Graft Survival

		Hypotension	1 Year	2 Years	3 Years	4 Years	5 Years
Australia 1989 to 30-Sep-98	No Hypotension (n=2410)		87 + 1	84 + 1	80 + 1	77 + 1	74 + 1
	Hypotension (n=811)		86 + 1	83 + 1	79 + 1	76 + 2	72 + 2
New Zealand 1993 to 30-Sep-98	No Hypotension (n=309)		81 + 2	76 + 3	75 + 3	71 + 3	65 + 5
	Hypotension (n=45)		83 + 6	80 + 6			

[% survival \pm S.E.]

COMBINED EFFECT OF HYPOTENSION AND OLIGURIA ON KIDNEY GRAFT SURVIVAL

In the subset of Australian donors without hypotension, the presence of oliguria was associated with a statistically significant reduction in graft survival (log rank $p=0.0242$). Again the difference in graft survival became more obvious with increasing time post transplant.

In the presence of hypotension however, oliguria did not lead to significant reduction in graft survival.

For New Zealand the numbers in some groups becomes very small.

Figure 66

Australia and New Zealand

Hypotension and Oliguria in Kidney Donors Primary Cadaver Graft Survival

		1 Year	2 Years	3 Years	4 Years	5 Years
Australia 1989 to 30-Sep-98	No Hypotension (log rank $p=0.0242$)					
	Oliguria present (n=172)	86 + 3	82 + 3	73 + 4	69 + 4	64 + 5
	Oliguria absent (n=2235)	87 + 1	84 + 1	81 + 1	78 + 1	75 + 1
	Hypotension Present (log rank $p=0.7921$)					
	Oliguria present (n=149)	84 + 3	81 + 3	79 + 3	75 + 4	68 + 4
	Oliguria absent (n=659)	87 + 1	83 + 1	80 + 2	76 + 2	73 + 2
New Zealand 1993 to 30-Sep-98	No Hypotension (log rank $p=0.9606$)					
	Oliguria present (n=67)	81 + 5	75 + 6	75 + 6		
	Oliguria absent (n=242)	81 + 3	78 + 3	75 + 4	72 + 4	64 + 5
	Hypotension Present (log rank $p=0.4020$)					
	Oliguria present (n=5)	80 + 18				
	Oliguria absent (n=40)	83 + 6	83 + 6			

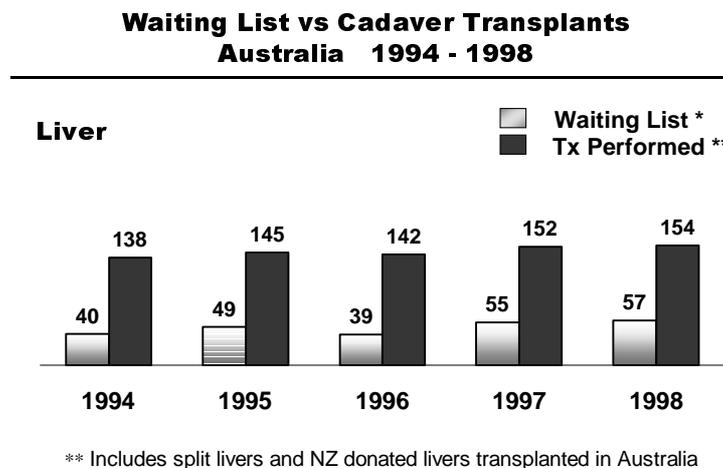
[% survival \pm S.E.]

LIVER DONATION

There were 154 liver transplants performed in 1998 from 132 donors. This includes 16 livers sent to Australia from New Zealand. Seven transplants were performed using the "split"

liver technique (five split livers at the Princess Alexandra Hospital, Brisbane and one split liver at the Austin Hospital, Victoria and Sir Charles Gairdner Hospital in Western Australia).

Figure 67



- * Data as at 30-Jun-94 ACCORD Newsletter 9, published Aug-94
- * Data as at 30-Jun-95 ACCORD Newsletter 12, published Sep-95
- * Data as at 30-Jun-96 ACCORD Newsletter 14, published Jul-96
- * Data as at 30-Jun-97 ACCORD Newsletter 17, published Aug-97
- * Data as at 31-Dec-98 Australians Donate

Figure 68

Australia and New Zealand

Regional Outcome of Requests for Liver Donation 1989 - 1998

Potential Donors	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z.**
Total	415	731	444	32	235	20	150	2027	228
Requested	408	647	378	26	195	17	120	1791	177
Consented	400	626	359	25	185	17	113	1725	175
Retrieved	297	409	229	19	123	10	75	1162	135
Transplanted *	308	401	200	17	117	10	72	1215	133

* Refers to number of recipients - use of split livers

** New Zealand 1993 - 1998

Figure 69

Australia and New Zealand

Age of Liver Donors 1994 - 1998

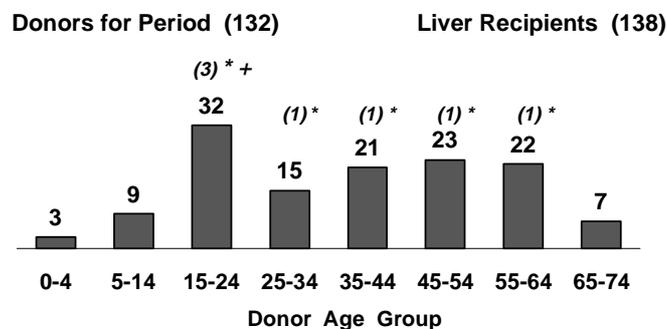
	Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	Total
Australia	1994	3	9	40++	17	20	18	8	0	115
	1995	4	8	32++	21+	22+	21	11	1	120
	1996	3	8	25(5+)	20	25++	23+	7	0	111
	1997	3	7	29+	15+	24(3+)	33	12	2	125
	1998	3	9	32 (3+)	15+	21+	23+	22+	7	132
	Total	16	41	158	88	112	118	60	10	603
New Zealand	1994	1	0	4	5	6	5	0	0	21
	1995	0	2	7	2	5	4	1	0	21
	1996	0	1	10	1	1	6	4	0	23
	1997	0	4	8	3	1	3	3	0	22
	1998	1	2	5	5	7	6	4	0	30
	Total	2	9	34	16	20	24	12	0	117

+ One liver transplanted into two recipients

Figures 70 and 71

Age of Liver Donors

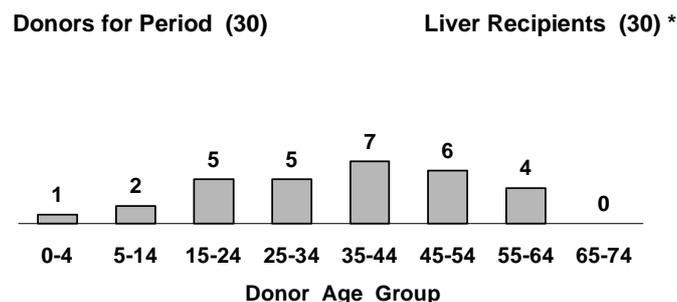
Australia 1998



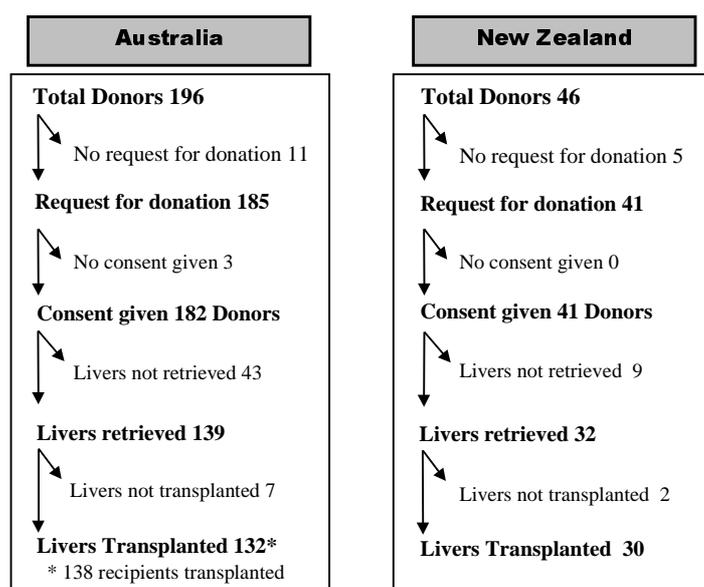
* Number of livers transplanted into two recipients

+ One liver split and used for one paediatric patient only

New Zealand 1998



* 16 Livers transplanted in Australia

Figures 72 and 73**Outcome of Request for Liver Donation 1998**

* Includes split livers and number of Recipients

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

PERFUSION OF LIVERS**Australia**

All but three livers retrieved in 1998 had a second perfusion with University of Wisconsin Solution (UW). Ross (43%) and Hartmans (44%), Collins (<1%) and UW (12%) were used as initial preservations.

New Zealand

Of the 32 livers retrieved in 1998, all but one had a final perfusion with UW.

DONOR LIVER FUNCTION

The results of the serum tests for liver function for 132 Australian and 30 New Zealand Donors in 1998 is shown below. Sixty seven percent of Australian and 40% of New Zealand donors had

all five tests performed. Figure 74 shows the number of donors whose liver function was above the normal range.

Figure 74**Australia and New Zealand****Number of Donors with Liver Function Tests above Normal Range**

Liver Function Tests	Australia			New Zealand		
	Donors with value recorded *	Above Normal	Maximum recorded 1989-1998	Donors with value recorded *	Above Normal	Maximum recorded 1989-1998
Alkaline Transaminase ALT > 40 u/L	133	37 (28%)	1194 (376)x	25	9 (36%)	208 (84)x
Aspartate Transaminase AST > 40 u/L	103	41 (40%)	1008 (225)	21	10 (48%)	428 (130)
Gamma Glutamol Transferase GGT > 60 u/L	123	26 (21%)	750 (750)	30	2 (7%)	106 (106)
Alkaline Phosphatase > 116 u/L	129	13 (10%)	309 (294)	31	2 (6%)	264 (264)
Total Bilirubin > 20 umol/L	135	14 (10%)	103 (58)	31	4 (13%)	57 (43)

* Not all Donors have all tests.

x (1998) Maximum

HEART DONATION

There were 72 hearts, four heart/lung bloc, 49 double and 34 single lung operations performed in Australia in 1998. This total includes three hearts and four double lungs donated from New Zealand.

In New Zealand in 1998, ten hearts, two double and three single lung transplants were performed.

Figure 75 and 76

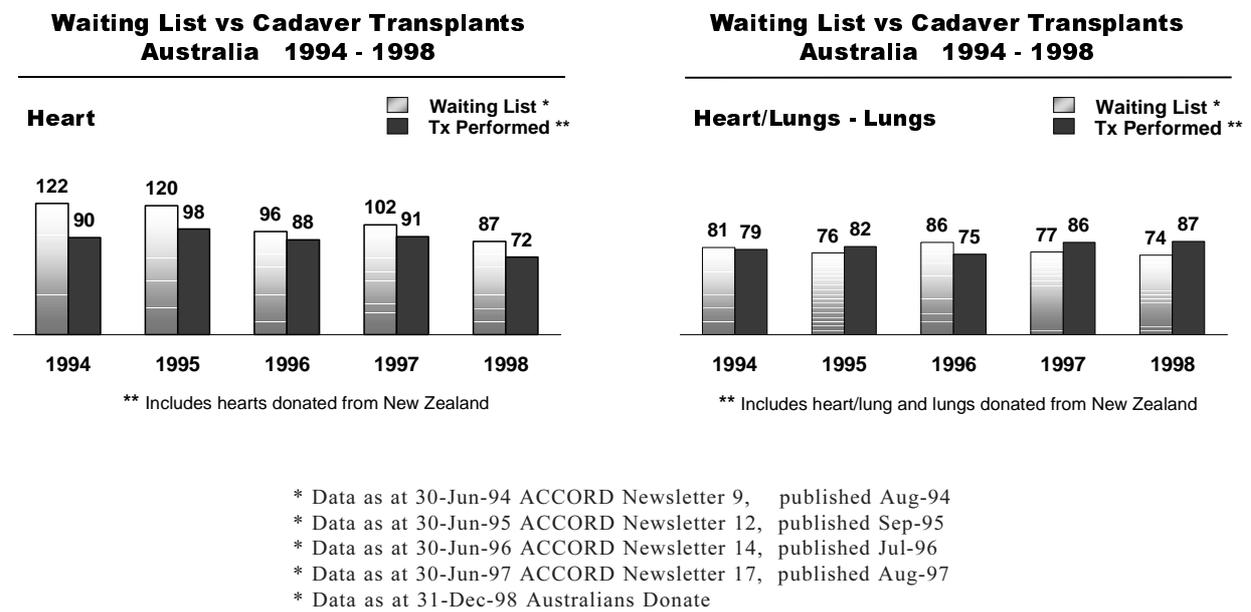


Figure 77 and 78

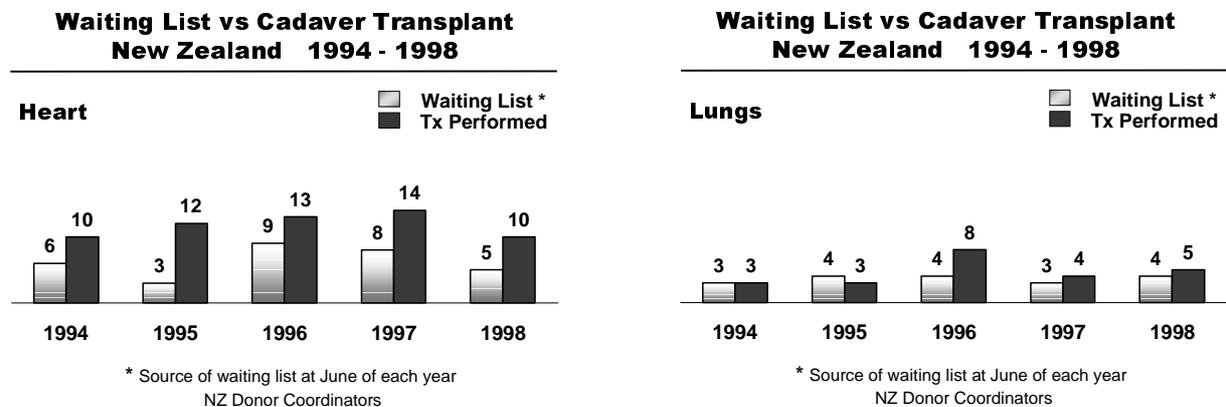


Figure 79

Australia and New Zealand

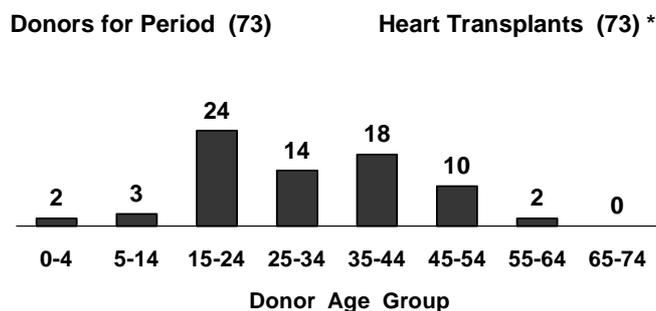
Age of Heart Donors 1994 - 1998

	Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	Total
Australia	1994	1	4	37	14	16	22	8	1	103
	1995	2	7	29	20	22	20	8	0	108
	1996	1	3	22	21	22	24	1	0	94
	1997	0	3	20	17	21	29	3	0	93
	1998	2	3	24	14	18	10	2	0	73
	Total	6	20	132	86	99	105	22	1	471
New Zealand	1994	0	0	1	5	2	2	0	0	10
	1995	0	1	4	1	6	0	0	0	12
	1996	0	0	6	1	2	5	0	0	14
	1997	0	0	10	3	0	3	0	0	16
	1998	0	0	2	3	5	2	1	0	13
	Total	0	1	23	13	15	12	1	0	65

Figures 80 and 81

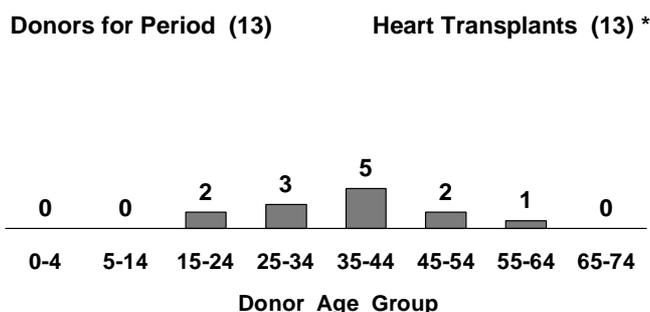
Age of Heart Donors

Australia 1998



* Includes four hearts used with lung bloc
Excludes hearts donated from New Zealand

New Zealand 1998



* Includes three hearts transplanted in Australia

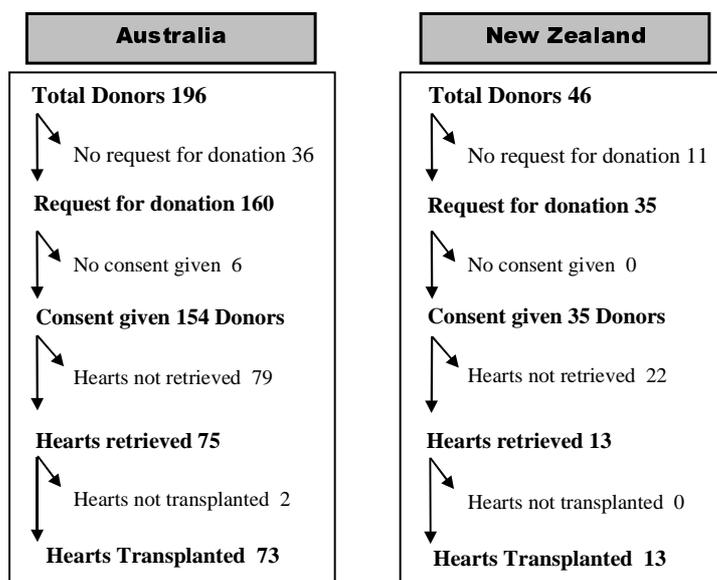
Figure 82**Australia and New Zealand****Regional Outcome of Requests for Heart Donation 1989 - 1998**

Potential Donors	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z. *
Total	415	731	444	32	235	20	150	2027	228
Requested	392	615	371	28	183	17	107	1713	178
Consented	371	577	345	27	175	17	94	1606	172
Retrieved	223	383	230	21	107	9	53	1026	73
Transplanted	221	381	223	21	106	9	52	1013	73

* New Zealand 1993 - 1998

Figure 83**Australia and New Zealand****Number of Recipients of Heart and Lung Transplants 1994 - 1998**

		1994	1995	1996	1997	1998	Total
Australia	Heart	90	93	87	90	69	429
	Heart/lung	13	15	7	3	4	42
	Double lung	43	36	37	44	49	209
	Single left lung	11	12	12	20	17	72
	Single right lung	10	14	16	18	17	75
	Total	167	170	159	175	156	827
New Zealand	Heart	10	12	14	15	13	64
	Heart/lung	0	0	0	1	0	1
	Double lung	1	6	7	1	6	21
	Single left lung	1	1	3	1	1	7
	Single right lung	3	1	1	2	2	9
	Total	15	20	25	20	22	102

Figures 84 and 85**Outcome of Request for Heart Donation 1998**

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

SPECIAL SECTION

DONOR FACTORS AFFECTING HEART ALLOGRAFT SURVIVAL

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St Vincent's Hospital, Darlinghurst, Sydney, NSW 2010

Reproduced from the Australia and New Zealand Cardiothoracic Transplant Registry

DONOR AGE

Mean donor age has been rising since 1984,
as Heart Transplant Units attempt to maintain
transplant activity, in the face of dwindling donor supply.

Figure 86

Heart Transplants 1984 - 1997

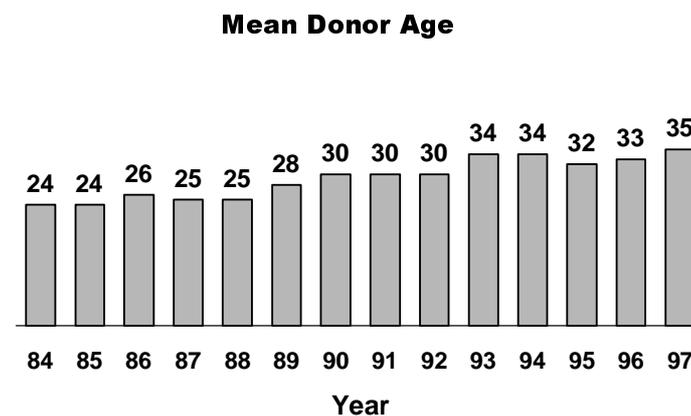


Figure 87

Australia and New Zealand

Donor Age - Years

Year	No. of Donors	Mean	Standard Deviation	Median	Min. - Max.
1984	14	24	+ 8	23	13-41
1985	19	24	+ 7	21	15-43
1986	32	26	+ 7	25	16-39
1987	30	25	+ 7	24	14-41
1988	56	25	+ 8	23	12-44
1989	93	28	+ 11	26	1-50
1990	103	30	+ 11	28	9-52
1991	103	30	+ 12	28	5-58
1992	115	30	+ 12	28	1-56
1993	114	34	+ 13	32	8-61
1994	104	34	+ 14	31	1-66
1995	108	32	+ 14	33	2-59
1996	103	33	+ 12	33	1-57
1997	105	35	+ 13	35	12-58
1984-1997	1099	31	+ 12	29	1-66

ACTUARIAL SURVIVAL: DOMINO-OTHER HEARTS

The survival of patients receiving “domino hearts” is inferior to that of cadaveric heart transplants (approximately 63% versus 77%, five year survival). Domino hearts are taken from patients undergoing heart lung

transplantation (with for example primary pulmonary hypertension) where the recipient heart is considered of adequate quality to re-use as a primary cardiac graft.

Figure 88

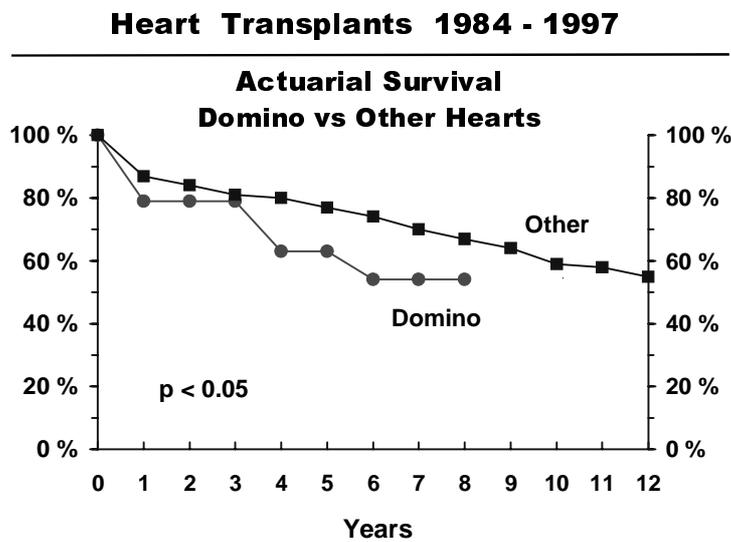


Figure 89

Australia and New Zealand

Actuarial Survival - Domino versus Other Heart Transplants

Year	Domino Heart Transplant		Other Heart Transplant	
	n *	%	n *	%
0	34	100%	1065	100%
1	27	79%	862	87%
2	27	79%	754	84%
3	26	79%	648	81%
4	18	63%	550	80%
5	18	63%	460	77%
6	11	54%	348	74%
7	6	54%	265	70%
8	2	54%	181	67%
9	0	0	115	64%
10	0	0	64	59%
11	0	0	42	58%
12	0	0	23	55%
13	0	0	11	55%

n * = Number alive at start of year

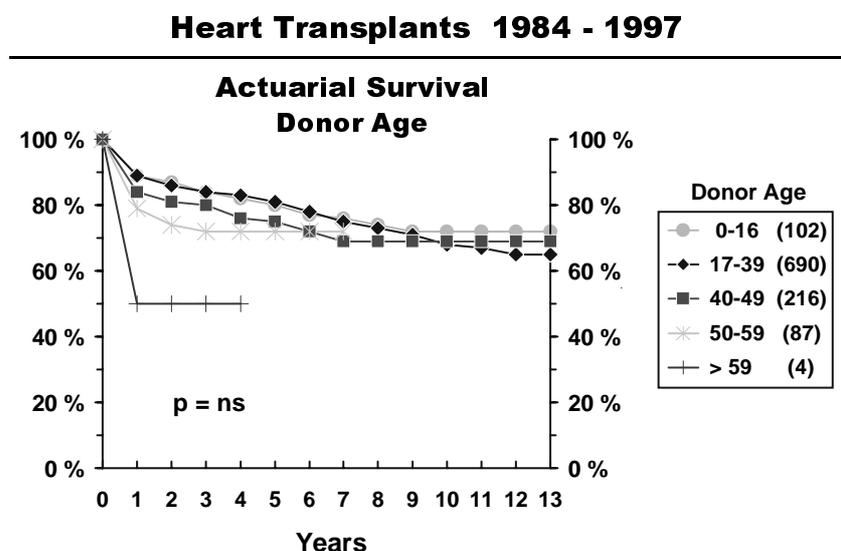
ACTUARIAL SURVIVAL: DONOR AGE

Donor age over 59 years is clearly associated with an inferior survival. In a separate analysis, donors over 55 years of age conferred to the recipient survival which was 20% to 30% lower than that from a donor under 55 years of age.

Australia is unable to offer coronary angiography for donors prior to procurement

(unlike North America) and so male donors over 50 years of age, and female donors over 55 years of age, must be viewed with a high degree of suspicion for coronary artery disease.

Coronary artery disease may not actually be detected until the procurement team arrives in the donor operating theatre.

Figure 90**Figure 91****Australia and New Zealand****Actuarial Survival - Donor Age**

Year	Age Groups									
	00 - 16		17 - 39		40 - 49		50 - 59		> 59	
	n *	%	n *	%	n *	%	n *	%	n *	%
0	102	100%	690	100%	216	100%	87	100%	4	100%
1	91	89%	613	89%	181	84%	69	79%	2	50%
2	89	87%	597	86%	175	81%	64	74%	2	50%
3	80	84%	535	84%	147	80%	49	72%	2	50%
4	74	82%	477	83%	116	76%	42	72%	2	50%
5	63	80%	411	81%	98	75%	33	72%	0	0
6	55	77%	352	78%	73	72%	25	72%	0	0
7	46	76%	291	75%	59	69%	13	72%	0	0
8	39	74%	216	73%	42	69%	8	72%	0	0
9	30	72%	165	71%	29	69%	0	0	0	0
10	22	72%	117	68%	15	69%	0	0	0	0
11	12	72%	71	67%	5	69%	0	0	0	0
12	7	72%	43	65%	2	69%	0	0	0	0
13	4	72%	28	65%	2	69%	0	0	0	0

n * = Number alive at start of year

ACTUARIAL SURVIVAL: DONOR GENDER

There is no difference in survival overall between the use of male and female donors. There is separate evidence however from other

registries, that use of a female donor into a male recipient is associated with inferior survival to using male donors in either gender.

Figure 92

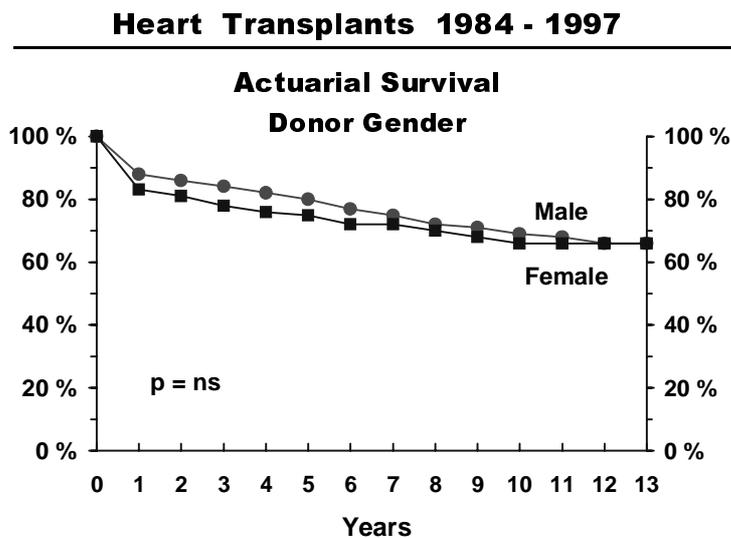


Figure 93

Australia and New Zealand

Actuarial Survival - Donor Gender

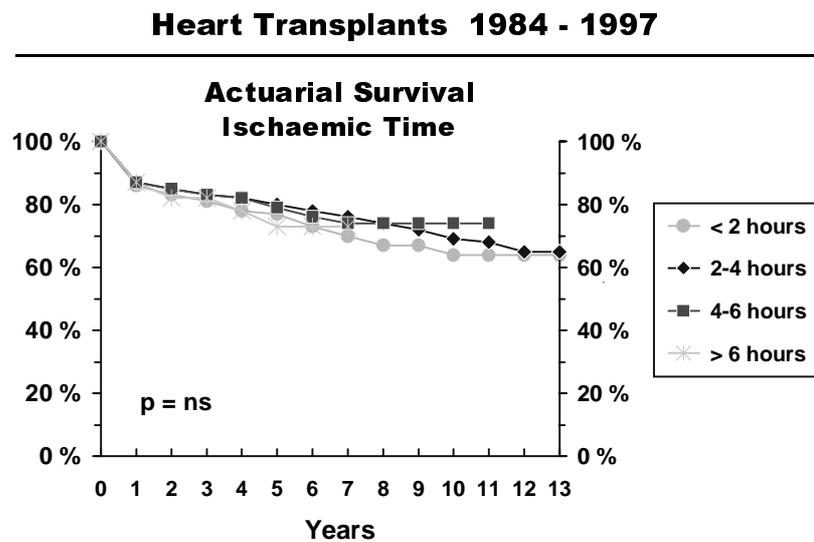
Year	Male		Female	
	n *	%	n *	%
0	794	100%	305	100%
1	702	88%	253	83%
2	680	86%	246	81%
3	601	84%	211	78%
4	528	82%	182	76%
5	448	80%	158	75%
6	381	77%	125	72%
7	313	75%	96	72%
8	238	72%	67	70%
9	181	71%	45	68%
10	122	69%	33	66%
11	77	68%	11	66%
12	44	66%	8	66%
13	28	66%	6	66%

n * = Number alive at start of year

ACTUARIAL SURVIVAL: ISCHAEMIC TIME

On the surface, ischaemic time of the donor does not appear to affect survival. To achieve these results in Australia however, a substantial amount of consideration has been given to using those organs with a longer ischaemic time to a transplant where there is a lower donor

recipient weight mismatch. It has been shown that without these adjustments, an ischaemic time of four hours and certainly over six hours is long for a cardiac donor, and causes inferior survival.

Figure 94**Figure 95****Australia and New Zealand****Actuarial Survival - Ischaemic Time**

Year	< 2 Hours		2-4 Hours		4-6 Hours		> 6 Hours	
	n *	%	n *	%	n *	%	n *	%
0	277	100%	586	100%	197	100%	39	100%
1	239	86%	511	87%	171	87%	34	87%
2	231	83%	496	85%	167	85%	32	82%
3	207	81%	445	83%	136	83%	24	82%
4	193	78%	382	82%	115	82%	20	78%
5	171	77%	330	80%	95	79%	10	73%
6	145	73%	280	78%	73	76%	7	73%
7	130	70%	226	76%	50	74%	2	73%
8	109	67%	165	74%	30	74%	0	0
9	83	67%	129	72%	14	74%	0	0
10	59	64%	90	69%	6	74%	0	0
11	36	64%	50	68%	2	74%	0	0
12	26	64%	25	65%	0	0	0	0
13	22	64%	12	65%	0	0	0	0

n * = Number alive at start of year

ACTUARIAL SURVIVAL: HLA MISMATCH

A complete match with donor has not yet occurred, and a one HLA mismatch situation has occurred by chance in <0.1% of patients. Most recipients by chance, demonstrate a high degree of mismatch with their donor.

Figure 96

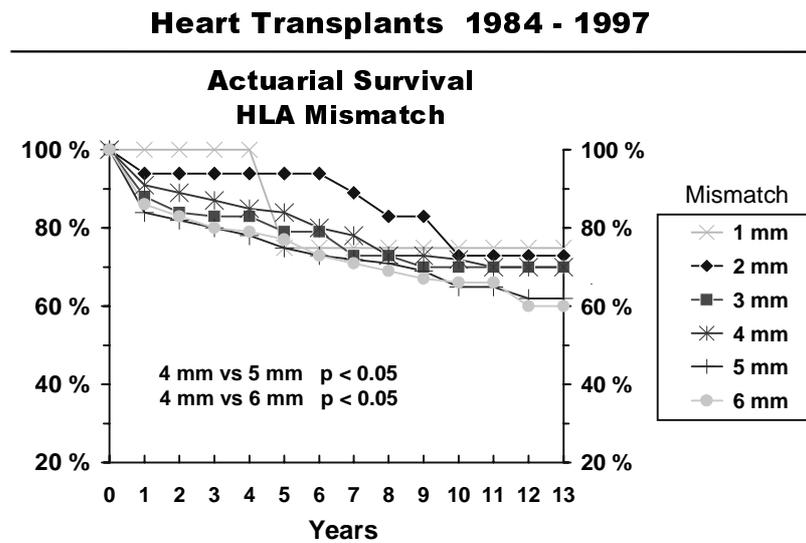


Figure 97

Australia and New Zealand

Actuarial Survival - HLA Mismatch

Year	mm0		mm1		mm2		mm3		mm4		mm5		mm6	
	n *	%	n *	%	n *	%	n *	%	n *	%	n *	%	n *	%
0	0		6	100%	31	100%	105	100%	257	100%	390	100%	275	100%
1	0		6	100%	29	94%	92	88%	233	91%	328	84%	237	86%
2	0		6	100%	29	94%	88	84%	229	89%	319	82%	227	83%
3	0		6	100%	26	94%	79	83%	202	87%	287	80%	199	80%
4	0		5	100%	24	94%	71	83%	180	85%	248	78%	175	79%
5	0		3	75%	22	94%	62	79%	157	84%	208	75%	153	77%
6	0		3	75%	20	94%	54	79%	129	80%	175	73%	122	73%
7	0		3	75%	17	89%	40	73%	108	78%	137	72%	100	71%
8	0		3	75%	14	83%	30	73%	79	73%	102	71%	77	69%
9	0		2	75%	9	83%	19	70%	65	73%	74	69%	55	67%
10	0		1	75%	6	73%	15	70%	48	72%	47	65%	35	65%
11	0		1	75%	5	73%	9	70%	28	70%	28	65%	17	66%
12	0		1	75%	2	73%	6	70%	20	70%	16	62%	6	60%
13	0		1	75%	1	73%	2	70%	15	70%	11	62%	4	60%

n * = Number alive at start of year

ACTUARIAL SURVIVAL: HLA DR LOCUS MISMATCH

Contrary to total locus matching, HLA DR Locus mismatching does seem more closely correlated with outcome, with significant difference being able to be shown between one DR mismatch with donor, and two DR mismatches with donor.

While it is not practical to DR match transplant recipients in the face of a small and dwindling donor population, it may be feasible to consider prospective matching in certain circumstances, eg elective re-transplantation.

Figure 98

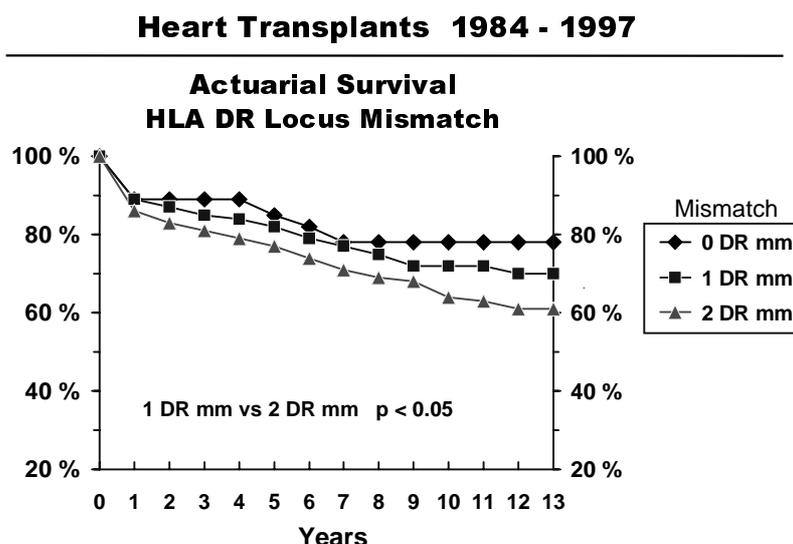


Figure 99

Australia and New Zealand

Actuarial Survival - HLA DR Locus Mismatch

Year	mm0		mm1		mm2	
	n *	%	n *	%	n *	%
0	35	100%	333	100%	675	100%
1	31	89%	296	89%	579	86%
2	31	89%	290	87%	558	83%
3	29	89%	262	85%	491	81%
4	28	89%	237	84%	422	79%
5	25	85%	203	82%	363	77%
6	23	82%	168	79%	297	74%
7	18	78%	135	77%	238	71%
8	16	78%	101	75%	177	69%
9	8	78%	77	72%	130	68%
10	6	78%	57	72%	82	64%
11	5	78%	33	72%	45	63%
12	2	78%	19	70%	25	61%
13	2	78%	14	70%	17	61%

n * = Number alive at start of year

LUNG DONATION

Figure 100

Australia and New Zealand

Age of Lung Donors 1994 - 1998

	Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	65-74	Total
Australia	1994	0	2	23	12	17	12	3	0	69
	1995	0	3	16	20	13	11	4	0	67
	1996	0	5	14	12	18	17	0	0	66
	1997	0	3	18	9	12	23	4	0	69
	1998	0	2	19	13	19	15	2	0	70
	Total	0	15	90	66	79	78	13	0	341
New Zealand	1994	0	0	1	2	1	0	0	0	4
	1995	0	0	4	0	3	1	0	0	8
	1996	0	0	3	0	1	5	1	0	10
	1997	0	1	2	0	1	1	0	0	5
	1998	0	0	1	1	2	2	2	0	8
	Total	0	1	11	3	8	9	3	0	35

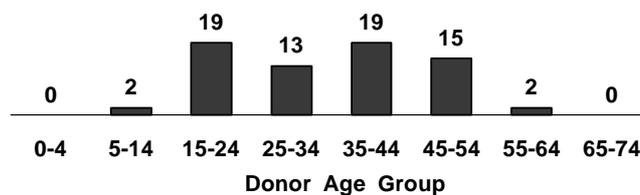
Figure 101 and 102

Age of Lung Donors

Australia 1998

Donors for Period (70)

Lung Transplants (132)*

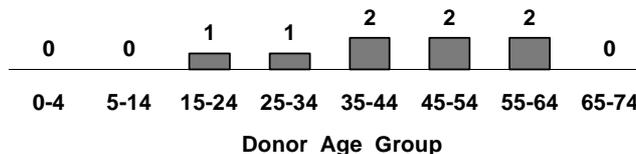
Number of Recipients
Double (49) - Single (34)

* Includes four double lungs transplanted with heart bloc

New Zealand 1998

Donors for Period (8)

Lung Transplants (15)*

Number of Recipients
Double (6) - Single (3)

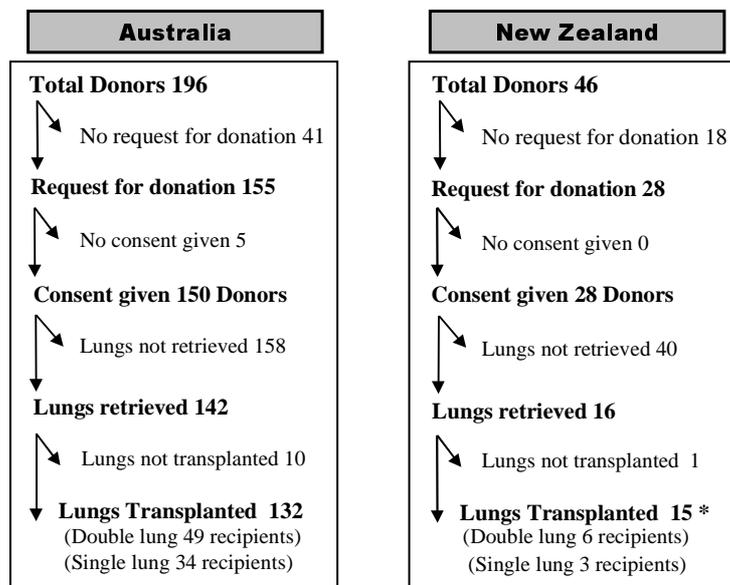
* Includes four double lungs transplanted in Australia

Figure 103**Australia and New Zealand****Regional Outcome of Requests for Lung Donation 1989 - 1998**

Potential Donors	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Aust.	N.Z.**
Total	415	731	444	32	235	20	150	2027	228
Requested	362	578	320	24	145	15	80	1524	119
Consented	333	537	295	23	137	15	73	1413	116
Retrieved x	179	382	213	22	124	18	68	1006	72
Transplanted x	162	366	196	22	116	18	66	946	61

x Number of lungs

** New Zealand 1993-1998

Figure 104 and 105**Outcome of Request for Lung Donation 1998**

* 4 Double lungs transplanted in Australia

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

DONOR LUNG FUNCTION

The arterial blood gas results from 70 Australian lung donors in 1998 shows 26% (18) to be acidotic (pH < 7.36) and 24% (17) to be alkalotic (pH > 7.44).

Oxygenation measured as PaO₂ ranged from 244-640 mmHg, median 447 mmHg.

Presumably FiO₂ was 100% and PEEP was 5 cm. PEEP was 10 cm in two donors, and 15 cms in one donor.

PaCO₂ ranged from 27-103 mmHg, median 38.0 mmHg.

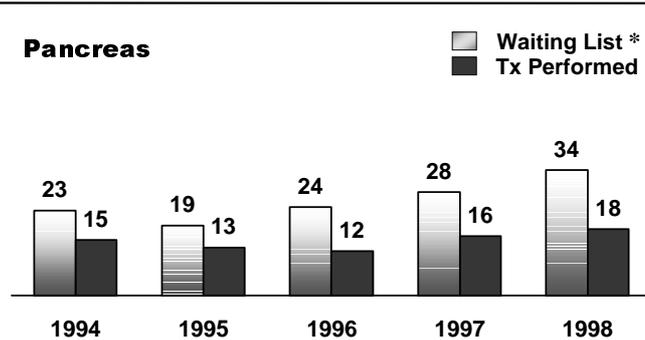
PANCREAS DONATION

There were 18 combined kidney/pancreas transplants performed in 1998, 14 at Westmead Hospital, NSW, and four at Monash Medical Centre, Victoria.

The first combined kidney/pancreas transplant was performed in New Zealand in August 1998.

Figure 106

Waiting List vs Cadaver Transplants Australia 1994 - 1998



* Data as at 30-Jun-94 ACCORD Newsletter 9, published Aug-94
 * Data as at 30-Jun-95 ACCORD Newsletter 12, published Sep-95
 * Data as at 30-Jun-96 ACCORD Newsletter 14, published Jul-96
 * Data as at 30-Jun-97 ACCORD Newsletter 17, published Aug-97
 * Data as at 31-Dec-98 Australians Donate

Figure 107

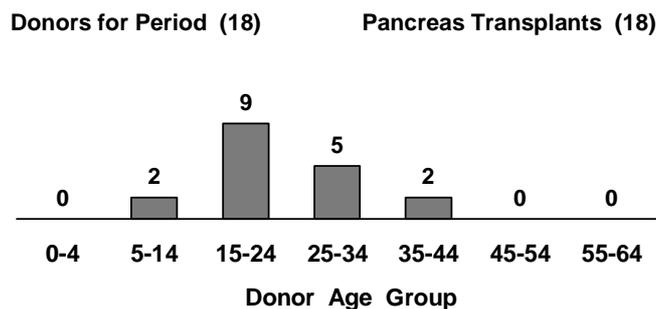
Australia

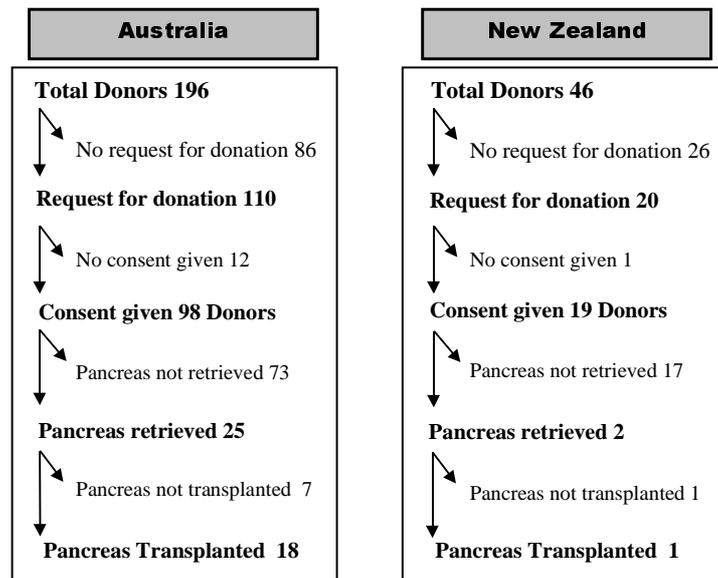
Donor Age for Transplanted Pancreas 1994 - 1998

Year	00-04	05-14	15-24	25-34	35-44	45-54	55-64	Total
1994	0	1	8	2	1	3	0	15
1995	0	1	9	3	0	0	0	13
1996	0	2	3	4	3	0	0	12
1997	0	2	8	5	1	0	0	16
1998	0	2	9	5	2	0	0	18
Total	0	8	37	19	7	3	0	74

Figure 108

Age of Pancreas Donors Australia 1998



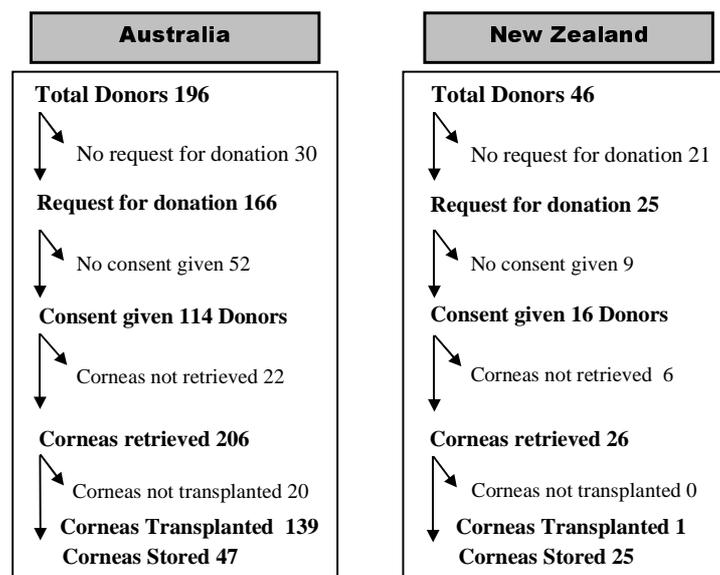
Figures 109 and 110**Outcome of Request for Pancreas Donation 1998**

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

CORNEA DONATION

This section refers only to corneas donated from solid organ donors. It does not include any cases of cornea only donation. Full data is available from The Australian Corneal Graft

Registry (Editors K.A.Williams, S.M. Muehlberg, C.Bartlett and D.J.Coster), Flinders Medical Centre, Bedford Park 5042, South Australia.

Figures 111 and 112**Outcome of Request for Corneal Donation 1998**

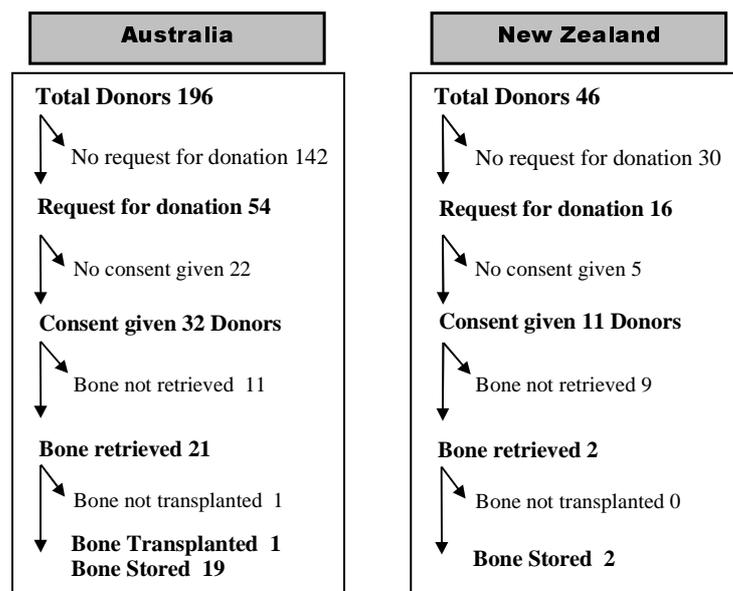
Refer to Appendices for reasons cornea were not requested, not retrieved and not transplanted.

BONE DONATION

There were 20 bone donations from the solid organ donors in Australia and two from New Zealand in 1998.

Figures 113 and 114

Outcome of Request for Bone Donation 1998



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

TERMINAL MANAGEMENT

Time from Admission to Brain Death

Australia

There has been a significant increase in the median time from admission to brain death. In 1998, 39 hours, and in 1997 it was 28 hours.

Fourteen percent of donors were in hospital for more than five days.

New Zealand

Forty six percent of donors were certified brain dead within 24 hours of hospital admission. This is a decrease from last year (55%).

Eight percent were in hospital for more than five days.

Figure 115

Australia and New Zealand

Time from Admission to Brain Death 1994 - 1998

	Year	Hours								Unknown	Median (hours)	No. of Donors
		0-23	24-47	48-71	72-95	96-119	120-143	144-167	> 168			
Australia	1994	37%	24%	11%	7%	3%	4%	4%	7%	3%	39	183
	1995	37%	27%	12%	3%	5%	3%	2%	7%	4%	30	184
	1996	38%	30%	8%	8%	4%	0	3%	7%	2%	32	194
	1997	38%	28%	13%	4%	3%	2%	1%	6%	5%	28	190
	1998	29%	25%	14%	10%	4%	3%	2%	9%	4%	39	196
New Zealand	1994	17%	31%	6%	6%	0	3%	0	9%	28%	35	35
	1995	31%	14%	11%	9%	6%	6%	0	11%	12%	46	35
	1996	38%	14%	8%	11%	6%	8%	3%	9%	3%	37	36
	1997	55%	17%	9%	5%	2%	5%	0	2%	5%	21	42
	1998	46%	33%	7%	4%	2%	0	2%	6%	0	25	46

Figure 116

Australia and New Zealand

Time from Ventilation to Brain Death 1994 - 1998

	Year	Hours								Unknown	No. of Donors
		0-23	24-47	48-71	72-95	96-119	120-143	144-167	> 168		
Australia	1994	35%	27%	12%	8%	2%	3%	3%	4%	6%	183
	1995	40%	27%	13%	3%	4%	3%	1%	6%	3%	184
	1996	41%	28%	10%	7%	3%	1%	3%	5%	2%	194
	1997	43%	29%	12%	3%	3%	1%	>1%	5%	4%	190
	1998	36%	28%	11%	9%	3%	3%	1%	4%	5%	196
New Zealand	1994	34%	34%	6%	6%	0	3%	0	9%	8%	35
	1995	37%	6%	17%	8%	3%	6%	0	9%	14%	35
	1996	50%	17%	8%	6%	3%	11%	0	3%	3%	36
	1997	55%	17%	9%	5%	2%	5%	0	2%	5%	42
	1998	52%	31%	9%	2%	0	0	2%	4%	0	46

The majority of donors had been ventilated for less than 48 hours.

Time from Brain Death to Aortic Cross Clamp

Australia

Sixty nine percent of donors had organs retrieved within 12 hours of the certification of brain death.

The median time 11.3 hours was similar to 1997.

There are State discrepancies between the median time to organize organ donation. Geography obviously plays a significant role with Northern Territory 29.63 hours. However,

South Australia has the shortest median time of 9.17 hours despite having to organize heart and lung retrieval services from other states. See Figure 118.

New Zealand

Ninety four percent of donor organs were retrieved within 12 hours. The median time was 8.8 hours.

Figure 117

Australia and New Zealand

Time from Brain Death to Aortic Cross Clamp 1995 - 1998

Hours	Australia				New Zealand			
	1995	1996	1997	1998	1995	1996	1997	1998
<= 6	10%	15%	12%	10%	31%	20%	32%	24%
7 - 12	61%	58%	56%	59%	51%	60%	46.5%	70%
13-18	23%	25%	26%	25%	6%	17%	12%	6%
19-24	4%	1%	4%	2%	6%	0	7.5%	0
> 24	0	1%	2%	4%	0	3%	2%	0
Median Hours	10.5	10.8	11.4	11.3	9.1	8.6	7.6	8.8
Number of Donors	184	192	187	194	35	35	41	46
Non-Heart Beating Donors	4	2	3	2	0	1	1	0

Figure 118

Australian States

Time from Brain Death to Aortic Cross Clamp 1998

Hours	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA
<= 6	0	6 (9%)	2 (5%)	0	10 (30%)	0	1 (8%)
7 - 12	33 (82.5%)	32 (49%)	24 (60%)	0	19 (58%)	1 (33%)	6 (46%)
13 - 18	5 (12.5%)	25 (39%)	14 (35%)	0	1 (3%)	0	4 (31%)
19 - 24	0	1 (1.5%)	0	0	1 (3%)	0	2 (15%)
> 24	2 (5%)	1 (1.5%)	0	0	2 (6%)	2 (67%)	0
Median hours	11.05	12.25	11.35	0	9.17	29.63	12.88
No. of Donors	40	65	40	0	33	3	13

Drugs for Maintenance of the Donor (given in the Intensive Care/Critical Care Unit)

Australia

In 1998 there were 32 (16%) donors who did not require inotropic support.

There has been an increase in the use of adrenaline, with adrenaline and noradrenaline being the inotropic agents of choice for the majority of donors.

Antidiuretic agents (desmopressin/vasopressin) were prescribed to 142 donors, 72% of all donors.

New Zealand

In 1998 there were eight (17%) donors who did not require inotropic support.

The inotropic support agents were dopamine (54%) and noradrenaline (39%)

Antidiuretic agents were prescribed to 34 donors, 74% of all donors.

Figure 119

Australia and New Zealand

Donor Maintenance 1995 - 1998

Drugs	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Number of Donors	(184)	(194)	(190)	(196)	(764)	(35)	(36)	(42)	(46)	(159)
Dopamine	89	76	57	48	270	28	25	21	25	99
Adrenaline	62	70	55	71	258	4	1	6	3	14
Noradrenaline	42	53	75	70	240	8	14	16	18	56
Aramine	12	14	12	8	46	3	2	1	1	7
Dobutamine	9	9	9	4	31	1	0	1	0	2
Desmopressin/Vasopressin	113	120	117	142	492	26	27	32	34	119

NB: Donors may be given more than one drug.

Terminal Treatment (provided in the Operating Theatres)

Australia

There were only two donors who received no heparin of which one donor received no form of terminal treatment. There has been an increase in the use of methyl prednisolone, chlorpromazine, mannitol and prostacyclin when compared to 1997.

There has been an increase in the use of antibiotics, 32% in 1998 (63 donors).

In 1998, 47 donors were given antibiotics from the cephalosporin group, 14 the penicillin group and two the antifungal group.

New Zealand

There were three donors who received no form of terminal treatment.

There has been a decrease in the use of methyl prednisolone and no donors received chlorpromazine in 1998.

In 1998, 32 donors (71%) were given antibiotics. The majority (31) were from the cephalosporin group and one from the penicillin group.

Figure 120

Australia and New Zealand

Terminal Treatment 1995 - 1998

	Australia					New Zealand				
	1995	1996	1997	1998	Total	1995	1996	1997	1998	Total
Number of Donors	(184)	(194)	(190)	(196)	(764)	(35)	(36)	(42)	(46)	(159)
Heparin	176	186	188	194	744	27	34	38	42	141
Methyl Prednisolone	160	175	178	192	705	22	25	22	14	83
Chlorpromazine	61	36	33	40	170	15	11	12	0	38
Mannitol	27	30	28	40	125	7	5	3	2	17
Prostacyclin	71	68	67	74	280	9	10	5	8	32

NB: Donors may be given more than one drug.

Australia
Estimated Resident Population by Age Groups In States and Territories 1990 - 1994

Age Groups	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Total
1990								
00-04	211,479	450,729	315,179	34,752	98,603	16,134	126,059	1,252,935
05-14	441,301	882,683	619,522	70,457	198,083	28,105	248,613	2,488,764
15-24	490,228	957,958	723,851	71,665	227,762	28,919	266,929	2,767,312
25-34	470,748	998,125	725,723	72,226	238,639	31,223	283,582	2,820,266
35-44	434,561	926,979	656,673	67,082	215,426	26,207	256,691	2,583,619
45-54	304,546	659,135	463,401	47,391	149,137	15,050	169,539	1,808,199
55-64	238,078	536,239	380,610	39,277	129,826	6,945	126,547	1,457,522
65-74	192,323	428,230	293,835	32,429	108,553	3,463	92,621	1,151,454
75-84	98,719	218,674	159,395	17,359	58,355	1,039	50,484	604,025
85 - on	24,855	53,606	41,792	4,025	14,773	219	12,831	152,101
Total	2,906,838	6,112,358	4,379,981	456,663	1,439,157	157,304	1,633,896	17,086,197
1991								
00-04	215,085	458,061	320,115	34,730	99,066	16,742	127,388	1,271,187
05-14	445,677	887,661	619,887	70,724	199,682	27,665	252,072	2,503,368
15-24	496,885	961,491	721,668	71,603	226,520	28,732	267,476	2,774,375
25-34	477,552	999,143	727,732	71,134	241,362	31,119	285,953	2,833,995
35-44	447,721	945,624	670,265	68,922	220,763	26,330	265,985	2,645,610
45-54	319,906	684,126	478,595	49,009	154,136	15,944	176,708	1,878,424
55-64	241,216	535,748	379,660	39,038	128,457	7,152	128,509	1,459,780
65-74	198,796	440,429	302,289	33,099	111,106	3,633	95,671	1,185,023
75-84	102,874	226,143	163,363	17,956	60,117	1,215	52,224	623,892
85 - on	26,292	56,231	43,797	4,250	15,503	247	13,959	160,279
Total	2,972,004	6,194,657	4,427,371	460,465	1,456,712	158,779	1,665,945	17,335,933
1992								
00-04	225,542	459,075	323,393	35,383	99,464	16,751	127,727	1,287,335
05-14	458,429	894,884	625,363	72,753	202,016	30,026	256,545	2,540,016
15-24	493,054	972,919	714,372	71,709	221,341	29,597	263,991	2,766,983
25-34	483,785	1,021,447	733,583	73,348	234,523	34,547	273,824	2,855,057
35-44	457,468	944,492	670,204	69,808	220,290	28,299	263,807	2,654,368
45-54	344,190	710,221	496,277	52,076	163,164	16,905	184,998	1,967,831
55-64	245,086	536,608	379,324	39,705	129,103	7,663	129,029	1,466,518
65-74	201,111	446,589	309,916	33,833	114,904	3,467	97,822	1,207,642
75-84	103,267	229,227	163,642	18,269	60,359	1,064	51,739	627,567
85 - on	25,473	55,060	42,821	4,234	14,458	324	13,295	155,665
Total	3,037,405	6,270,522	4,458,895	471,118	1,459,622	168,643	1,662,777	17,528,982
1993								
00-04	230,192	463,661	321,130	34,961	98,723	16,896	126,196	1,291,759
05-14	464,873	893,508	621,280	72,551	201,069	30,041	256,059	2,539,381
15-24	501,934	965,714	699,776	70,385	216,571	28,796	262,942	2,746,118
25-34	489,501	1,006,510	720,718	71,580	230,403	33,701	270,279	2,822,692
35-44	466,891	947,133	669,843	70,403	220,850	28,111	265,965	2,669,196
45-54	365,295	739,819	517,240	54,363	170,216	17,977	195,280	2,060,190
55-64	249,230	536,373	378,851	39,758	127,885	7,805	131,280	1,471,182
65-74	207,922	456,965	318,807	34,444	116,923	3,515	101,749	1,240,325
75-84	108,021	236,074	166,682	18,689	62,348	1,174	52,716	645,704
85 - on	28,738	61,712	47,737	4,601	16,733	250	15,150	174,921
Total	3,112,597	6,307,469	4,462,064	471,735	1,461,721	168,266	1,677,616	17,661,468
1994								
00-04	234,926	460,162	319,436	34,349	99,454	17,080	125,638	1,291,341
05-14	472,945	896,527	620,456	72,251	201,988	30,598	258,177	2,553,558
15-24	510,052	960,967	687,401	69,528	212,639	28,214	264,350	2,733,463
25-34	500,946	1,004,457	716,191	70,402	229,356	33,892	271,140	2,826,923
35-44	478,660	953,786	673,420	70,925	222,435	28,583	268,766	2,697,087
45-54	385,974	767,084	534,670	56,160	176,599	19,262	205,047	2,145,053
55-64	255,827	538,592	381,118	40,078	128,138	8,287	134,576	1,486,734
65-74	215,027	465,137	325,802	35,017	118,738	3,707	104,995	1,268,465
75-84	112,231	241,358	168,496	18,788	62,994	1,246	53,462	658,598
85 - on	30,346	64,288	49,110	4,859	17,443	265	15,728	182,046
Total	3,196,934	6,352,358	4,476,100	472,357	1,469,784	171,134	1,701,879	17,843,268

Australia
Estimated Resident Population by Age Groups In States and Territories 1995 -1998

Age Groups	Qld	NSW/ACT	Vic.	Tas.	SA	NT	WA	Total
1995								
00-04	237,499	460,245	317,960	34,097	98,141	17,237	125,019	1,290,413
05-14	482,529	903,555	622,859	72,051	202,765	30,978	261,801	2,577,198
15-24	513,983	955,786	675,987	68,204	207,382	27,750	265,698	2,715,095
25-34	512,012	1,008,092	714,911	69,169	227,320	34,159	273,172	2,839,355
35-44	492,847	968,064	681,072	71,739	224,608	29,029	274,055	2,741,940
45-54	405,753	794,746	552,547	57,838	183,047	20,324	214,850	2,229,399
55-64	263,591	543,778	383,685	40,539	128,112	8,867	137,583	1,506,305
65-74	220,064	469,410	328,941	35,148	119,250	3,907	107,216	1,283,982
75-84	117,052	248,348	173,354	19,179	65,250	1,337	55,765	680,319
85 - on	32,043	67,244	50,684	5,058	18,091	290	16,564	189,983
Total	3,277,373	6,419,268	4,502,000	473,022	1,473,966	173,878	1,731,723	18,053,989
1996								
00-04	238,996	456,940	314,444	33,220	96,859	17,890	124,831	1,283,180
05-14	490,862	911,240	625,997	71,624	202,754	31,239	264,289	2,598,005
15-24	514,895	948,631	667,195	66,928	202,908	27,619	266,131	2,694,379
25-34	522,513	1,017,297	717,971	68,005	225,094	34,290	276,407	2,861,577
35-44	506,985	986,071	690,683	72,360	226,786	29,609	279,028	2,791,522
45-54	425,959	823,363	571,629	59,726	189,633	21,533	225,362	2,317,205
55-64	272,354	552,579	388,960	41,094	128,903	9,558	141,643	1,535,091
65-74	224,478	471,183	330,590	35,182	118,746	4,169	109,406	1,293,754
75-84	123,494	258,864	180,183	19,923	68,131	1,492	58,095	710,182
85 - on	34,139	71,499	53,351	5,317	19,267	323	17,541	201,437
Total	3,354,675	6,497,667	4,541,003	473,379	1,479,153	177,722	1,762,733	18,286,332
1997								
00-04	242,652	460,265	313,805	33,415	96,794	17,991	127,019	1,292,230
05-14	498,896	922,324	634,021	71,030	201,181	31,982	267,998	2,628,106
15-24	508,746	933,675	659,166	65,130	201,148	31,572	267,455	2,667,250
25-34	526,140	1,019,967	726,401	66,305	219,447	37,226	283,723	2,879,850
35-44	520,274	1,015,135	707,385	73,278	226,897	30,657	286,046	2,860,246
45-54	441,670	845,976	586,934	61,029	193,785	21,872	232,525	2,384,175
55-64	281,001	566,749	398,847	42,076	131,433	9,707	145,360	1,575,322
65-74	220,891	474,471	333,320	34,887	118,252	4,250	109,712	1,295,823
75-84	125,164	268,476	187,887	20,551	70,101	1,475	59,484	733,162
85 - on	35,798	77,126	57,382	5,800	20,768	400	18,807	216,083
Total	3,401,232	6,584,164	4,605,148	473,501	1,479,806	187,132	1,798,129	18,532,247
1998								
00-04	242,596	456,349	312,397	32,252	94,977	17,716	127,042	1,283,599
05-14	502,200	925,388	637,451	69,776	201,001	32,703	269,559	2,638,768
15-24	509,874	935,237	662,685	64,933	200,290	31,264	272,509	2,677,161
25-34	530,270	1,019,782	729,869	64,866	217,097	37,582	286,031	2,886,104
35-44	530,015	1,028,900	715,790	72,580	227,837	31,347	291,186	2,898,261
45-54	459,641	872,752	606,621	62,571	199,690	22,715	243,050	2,467,446
55-64	291,203	579,701	407,551	42,837	134,394	10,360	150,071	1,616,286
65-74	222,511	472,964	333,972	34,896	117,441	4,345	110,735	1,296,910
75-84	130,010	277,900	194,252	21,075	72,481	1,545	61,572	758,854
85 - on	38,025	81,022	60,297	6,099	22,086	414	19,644	227,593
Total	3,456,345	6,650,005	4,660,885	471,885	1,487,294	189,991	1,831,399	18,750,982

New Zealand
Estimated Resident Population by Age Groups December 1993 - 1998

Age Groups	1993	1994	1995	1996	1997	1998
00-04	282,880	284,350	284,370	283,640	283,380	282,730
05-14	528,210	537,660	549,980	562,910	572,510	578,060
15-24	565,420	559,780	555,190	550,940	544,820	538,100
25-34	571,210	575,270	579,950	585,480	584,690	575,770
35-44	513,400	525,760	540,930	558,990	575,270	587,830
45-54	397,550	414,050	428,910	442,000	455,160	470,380
55-64	289,720	291,500	295,670	302,010	310,070	316,380
65-74	242,280	247,050	249,160	250,530	250,870	251,090
75-84	130,710	132,110	136,010	140,100	144,290	148,050
85 - on	34,370	36,190	37,710	39,110	41,200	43,560
Total	3,555,800	3,603,700	3,657,900	3,715,700	3,762,300	3,792,000

AUSTRALIA

APPENDIX I

DONOR NUMBERS FOR EACH STATE

1-JAN-89 to 31-DEC-98

YEAR	QLD	NSW	VIC	TAS	SA	NT	WA	AUST
1989	37	89	65	2	19	2	17	231
1990	38	79	45	2	27	1	11	203
1991	46	76	45	2	15	2	23	209
1992	66	70	42	4	20	0	14	216
1993	44	74	52	6	23	3	19	221
1994	38	73	26	6	23	1	16	183
1995	34	67	38	4	23	1	17	184
1996	35	69	49	1	25	3	12	194
1997	37	69	42	5	25	4	8	190
1998	40	65	40	0	35	3	13	196
	415	731	444	32	235	20	150	2027

DONOR GENDER NUMBERS AND AGE GROUPS FOR EACH STATE

1-JAN-89 to 31-DEC-98

YEAR	GENDER	AGE GROUP	QLD	NSW	VIC	TAS	SA	NT	WA	AUST	
1989	FEMALE	00-04	1	0	1	0	1	0	0	3	
		05-14	1	3	2	0	1	0	1	8	
		15-24	2	7	8	0	2	0	0	19	
		25-34	3	3	0	0	2	0	4	12	
		35-44	0	7	7	0	0	0	2	16	
		45-54	4	14	5	0	0	0	0	23	
		55-64	1	5	2	0	1	0	0	9	
		65-74	0	2	1	0	1	0	0	4	
				12	41	26	0	8	0	7	94
		MALE									
		00-04	0	0	0	0	1	0	1	2	
		05-14	4	5	10	1	0	0	3	23	
		15-24	9	11	11	1	4	1	3	40	
		25-34	5	8	6	0	2	0	1	22	
		35-44	4	13	0	0	2	0	2	21	
		45-54	2	6	5	0	2	1	0	16	
		55-64	1	5	7	0	0	0	0	13	
			25	48	39	2	11	2	10	137	
			37	89	65	2	19	2	17	231	
1990	FEMALE	00-04	1	0	0	0	1	0	0	2	
		05-14	1	1	1	0	1	0	0	4	
		15-24	2	9	3	0	2	0	1	17	
		25-34	0	2	5	0	0	0	1	8	
		35-44	4	3	3	0	5	0	0	15	
		45-54	3	2	3	0	2	0	1	11	
		55-64	0	2	1	0	0	0	1	4	
		65-74	0	2	0	0	0	0	1	3	
				11	21	16	0	11	0	5	64
		MALE									
		00-04	4	2	1	0	0	0	0	7	
		05-14	3	3	0	1	1	0	1	9	
		15-24	5	11	13	1	6	0	2	38	
		25-34	4	13	8	0	3	0	2	30	
		35-44	4	12	2	0	2	1	1	22	
		45-54	4	9	3	0	3	0	0	19	
		55-64	2	6	2	0	1	0	0	11	
		65-74	1	2	0	0	0	0	0	3	
			27	58	29	2	16	1	6	139	
			38	79	45	2	27	1	11	203	

DONOR GENDER NUMBERS AND AGE GROUPS FOR EACH STATE

1-JAN-89 to 31-DEC-98

YEAR	GENDER	AGE GROUP	QLD	NSW	VIC	TAS	SA	NT	WA	AUST		
1991	FEMALE	05-14	2	1	2	0	1	0	1	7		
		15-24	3	5	1	0	2	0	0	11		
		25-34	2	4	4	0	0	1	0	11		
		35-44	2	4	4	0	2	0	1	13		
		45-54	2	8	7	0	0	0	2	19		
		55-64	0	7	3	0	0	0	2	12		
		65-74	1	4	1	0	0	0	0	6		
				12	33	22	0	5	1	6	79	
	MALE	00-04	0	0	1	0	0	0	0	2	3	
		05-14	1	4	0	0	1	0	0	2	8	
		15-24	10	11	9	0	4	0	4	38		
		25-34	8	7	8	2	0	1	3	29		
		35-44	6	11	1	0	1	0	3	22		
		45-54	6	5	2	0	2	0	3	18		
		55-64	1	5	2	0	2	0	0	10		
		65-74	2	0	0	0	0	0	0	2		
				34	43	23	2	10	1	17	130	
				46	76	45	2	15	2	23	209	
		1992	FEMALE	00-04	2	0	0	0	0	0	0	2
				05-14	1	3	0	0	1	0	0	5
15-24	3			6	1	1	0	0	1	12		
25-34	1			4	1	0	1	0	2	9		
35-44	7			5	3	1	2	0	2	20		
45-54	1			3	2	0	3	0	2	11		
55-64	3			8	5	0	4	0	0	20		
65-74	0			2	1	0	1	0	0	4		
			18	31	13	2	12	0	7	83		
MALE	00-04		3	1	1	0	0	0	1	6		
	05-14		6	1	0	0	0	0	0	7		
	15-24		13	14	8	0	4	0	1	40		
	25-34		6	6	6	2	1	0	2	23		
	35-44		11	7	3	0	1	0	0	22		
	45-54		6	6	8	0	0	0	2	22		
	55-64		1	4	1	0	2	0	1	9		
	65-74		2	0	2	0	0	0	0	4		
				48	39	29	2	8	0	7	133	
			66	70	42	4	20	0	14	216		
1993	FEMALE	00-04	0	0	0	1	0	0	0	1		
		05-14	3	2	3	1	0	0	0	9		
		15-24	5	6	2	1	3	0	4	21		
		25-34	3	4	5	0	0	0	2	14		
		35-44	5	4	2	0	1	0	1	13		
		45-54	2	10	4	0	3	0	0	19		
		55-64	1	7	2	0	0	0	2	12		
		65-74	0	4	2	0	0	0	0	6		
			19	37	20	3	7	0	9	95		
	MALE	00-04	0	3	1	0	0	0	0	4		
		05-14	1	5	1	0	1	0	0	8		
		15-24	5	5	7	2	3	0	4	26		
		25-34	6	6	3	0	1	2	2	20		
		35-44	5	6	2	1	4	1	1	20		
		45-54	7	5	6	0	3	0	3	24		
		55-64	1	5	11	0	2	0	0	19		
		65-74	0	2	1	0	2	0	0	5		
				25	37	32	3	16	3	10	126	
			44	74	52	6	23	3	19	221		

**DONOR GENDER NUMBERS AND AGE GROUPS FOR EACH STATE
1-JAN-89 to 31-DEC-98**

YEAR	GENDER	AGE GROUP	QLD	NSW	VIC	TAS	SA	NT	WA	AUST	
1994	FEMALE	00-04	0	1	0	0	1	0	0	2	
		05-14	3	0	1	0	1	0	0	5	
		15-24	4	7	1	1	0	0	2	15	
		25-34	1	3	4	1	3	0	1	13	
		35-44	3	6	2	0	0	0	4	15	
		45-54	3	10	2	1	4	0	2	22	
		55-64	1	2	1	0	3	0	1	8	
		65-74	1	4	1	0	0	0	1	7	
		75-84	0	1	0	0	0	0	0	1	
			16	34	12	3	12	0	11	88	
		MALE	00-04	2	0	0	0	1	0	0	3
	05-14		1	3	0	0	1	0	0	5	
	15-24		8	13	5	1	2	0	3	32	
	25-34		3	3	1	0	2	1	1	11	
	35-44		3	6	2	1	4	0	1	17	
	45-54		3	5	4	1	0	0	0	13	
	55-64		1	8	1	0	0	0	0	10	
	65-74		1	1	1	0	1	0	0	4	
				22	39	14	3	11	1	5	95
		38	73	26	6	23	1	16	183		
1995	FEMALE	00-04	1	0	0	0	0	0	0	1	
		05-14	0	2	1	0	1	0	1	5	
		15-24	1	4	2	0	1	0	0	8	
		25-34	1	3	5	0	1	0	0	10	
		35-44	3	3	6	0	1	0	0	13	
		45-54	3	7	1	0	2	0	0	13	
		55-64	2	3	2	0	0	0	2	9	
		65-74	1	0	2	0	1	0	1	5	
				12	22	19	0	7	0	4	64
		MALE	00-04	3	0	0	0	0	0	0	3
	05-14		1	0	2	0	0	0	1	4	
	15-24		8	13	3	3	3	0	1	31	
	25-34		2	9	4	1	4	0	2	22	
	35-44		4	8	1	0	1	1	6	21	
	45-54		1	6	5	0	5	0	0	17	
	55-64		1	9	2	0	2	0	3	17	
	65-74		2	0	2	0	1	0	0	5	
				22	45	19	4	16	1	13	120
			34	67	38	4	23	1	17	184	
1996	FEMALE	00-04	0	2	2	0	0	0	0	4	
		05-14	0	1	1	0	3	0	0	5	
		15-24	4	1	1	0	1	0	2	9	
		25-34	0	6	3	0	0	0	2	11	
		35-44	4	5	3	0	0	0	1	13	
		45-54	2	5	9	1	1	0	1	19	
		55-64	2	4	8	0	2	0	1	17	
		65-74	0	3	0	0	0	0	0	3	
				12	27	27	1	7	0	7	81

**DONOR GENDER NUMBERS AND AGE GROUPS FOR EACH STATE
1-JAN-89 to 31-DEC-98**

YEAR	GENDER	AGE GROUP	QLD	NSW	VIC	TAS	SA	NT	WA	AUST	
1996	MALE	00-04	2	0	0	0	0	0	0	2	
		05-14	3	1	0	0	0	0	1	5	
		15-24	7	11	5	0	3	0	1	27	
		25-34	3	6	3	0	4	2	0	18	
		35-44	4	13	1	0	3	1	1	23	
		45-54	4	2	9	0	4	0	1	20	
		55-64	0	5	3	0	3	0	1	12	
		65-74	0	4	1	0	1	0	0	6	
				23	42	22	0	18	3	5	113
				35	69	49	1	25	3	12	194
1997	FEMALE	00-04	0	0	0	0	0	0	1	1	
		05-14	0	2	0	0	0	0	0	2	
		15-24	2	5	1	0	0	0	1	9	
		25-34	2	2	1	1	1	0	0	7	
		35-44	9	4	5	0	3	0	1	22	
		45-54	1	5	7	0	1	0	0	14	
		55-64	1	4	1	0	1	0	0	7	
		65-74	0	0	4	0	3	0	0	7	
		75-84	0	1	0	0	0	0	0	1	
				15	23	19	1	9	0	3	70
	MALE	00-04	0	2	0	0	0	0	0	2	
		05-14	4	2	0	0	0	0	0	6	
		15-24	2	9	9	0	3	1	2	26	
		25-34	3	4	2	1	2	1	1	14	
		35-44	5	4	1	2	1	1	0	14	
		45-54	6	14	4	1	7	1	2	35	
		55-64	2	7	5	0	1	0	0	15	
		65-74	0	3	1	0	2	0	0	6	
		75-84	0	1	1	0	0	0	0	2	
				22	46	23	4	16	4	5	120
		37	69	42	5	25	4	8	190		
1998	FEMALE	05-14	3	0	2	0	2	0	0	7	
		15-24	6	1	1	0	2	0	1	11	
		25-34	1	3	0	0	1	0	0	5	
		35-44	6	5	4	0	3	0	0	18	
		45-54	3	4	5	0	5	0	1	18	
		55-64	2	8	4	0	3	0	3	20	
		65-74	1	3	1	0	3	0	0	8	
				22	24	17	0	19	0	5	87
	MALE	00-04	0	0	1	0	2	0	1	4	
		05-14	0	2	1	0	1	0	0	4	
		15-24	5	10	3	0	4	0	4	26	
		25-34	6	7	1	0	1	1	1	17	
		35-44	3	6	4	0	2	1	0	16	
		45-54	1	5	9	0	3	0	2	20	
		55-64	2	5	3	0	3	1	0	14	
		65-74	1	6	1	0	0	0	0	8	
		18	41	23	0	16	3	8	109		
		40	65	40	0	35	3	13	196		

**NUMBER OF DONORS FROM EACH HOSPITAL
QUEENSLAND 1989 - 1998**

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
BUNDABERG HOSPITAL - QUEENSLAND	1	0	2	1	0	0	1	0	2	0	7
CAIRNS HOSPITAL - QUEENSLAND	2	2	1	3	2	0	0	0	0	1	11
JOHN FLYNN HOSPITAL - QUEENSLAND	0	0	0	0	0	0	0	0	1	1	2
GLADSTONE HOSPITAL - QUEENSLAND	0	0	0	1	0	0	0	1	0	0	2
GOLDCOAST HOSPITAL - QUEENSLAND	4	1	5	7	2	1	1	3	8	2	34
IPSWICH HOSPITAL - QUEENSLAND	0	0	0	0	2	0	0	0	0	3	5
LOGAN SATELLITE CENTRE - QUEENSLAND	0	0	0	0	0	0	1	0	0	1	2
MATER CHILDREN'S HOSPITAL - QUEENSLAND	2	3	1	7	2	4	3	2	0	1	25
MACKAY HOSPITAL - QUEENSLAND	1	1	1	0	0	3	4	4	1	0	15
MARYBOROUGH HOSPITAL - QUEENSLAND	0	0	0	2	0	1	0	0	0	0	3
MATER PRIVATE HOSPITAL - QUEENSLAND	0	0	0	0	0	0	1	0	1	1	3
MT ISA HOSPITAL - QUEENSLAND	0	0	0	1	1	0	0	1	0	0	3
MATER PRIVATE ROCKHAMPTON - QUEENSLAND	0	0	0	0	0	0	0	0	0	1	1
NAMBOUR HOSPITAL - QUEENSLAND	1	0	0	0	0	0	1	1	0	1	4
PRINCE CHARLES HOSPITAL - QUEENSLAND	1	1	0	0	0	0	0	0	1	0	3
PRINCESS ALEXANDRA HOSPITAL - QUEENSLAND	9	11	14	15	14	5	7	7	4	9	95
MATER HOSPITAL - QUEENSLAND	0	0	0	1	1	1	1	1	0	0	5
QUEEN ELIZABETH HOSPITAL - QUEENSLAND	0	0	1	0	1	0	0	0	0	0	2
ROYAL CHILDREN'S HOSPITAL - QUEENSLAND	1	2	1	3	0	1	1	1	1	2	13
ROYAL BRISBANE HOSPITAL - QUEENSLAND	7	10	10	14	5	11	5	8	9	12	91
REDCLIFFE HOSPITAL - QUEENSLAND	0	1	3	1	1	1	0	0	0	1	8
ROCKHAMPTON HOSPITAL - QUEENSLAND	1	0	2	2	1	2	1	2	2	0	13
ST ANDREW'S PRIVATE HOSPITAL - QUEENSLAND	0	1	0	0	0	0	0	0	0	0	1
TOWNSVILLE HOSPITAL - QUEENSLAND	7	5	5	7	12	8	7	3	5	4	63
TOOWOOMBA HOSPITAL - QUEENSLAND	0	0	0	1	0	0	0	1	2	0	4
	37	38	46	66	44	38	34	35	37	40	415

NEW SOUTH WALES 1989 - 1998

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ALBURY HOSPITAL - NEW SOUTH WALES	1	1	2	1	0	2	0	0	0	0	7
ARMIDALE HOSPITAL - NEW SOUTH WALES	0	0	1	0	0	0	0	0	0	0	1
BANKSTOWN HOSPITAL - NEW SOUTH WALES	0	1	0	0	1	1	0	0	0	0	3
BLACKTOWN HOSPITAL - NEW SOUTH WALES	0	0	2	0	0	0	0	0	0	0	2
CAMPBELLTOWN HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	0	1	0	0	1
THE CANBERRA HOSPITAL - ACT	3	5	4	0	6	2	7	6	4	2	39
COFF'S HARBOUR HOSPITAL - NEW SOUTH WALES	0	0	0	1	3	4	0	3	0	3	14
CONCORD HOSPITAL - NEW SOUTH WALES	1	2	1	1	0	0	0	0	0	4	9
DUBBO BASE HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	0	0	1	1	2
GOSFORD HOSPITAL - NEW SOUTH WALES	2	1	0	1	1	1	1	1	1	2	11
GOULBOURN HOSPITAL - NEW SOUTH WALES	0	0	1	1	0	1	0	0	0	0	3
GRIFFITH BASE HOSPITAL - NEW SOUTH WALES	1	0	0	0	0	0	0	1	0	0	2
HASTINGS DISTRICT HOSPITAL - NEW SOUTH WALES	0	0	0	0	1	0	0	0	0	0	1
HORNSBY HOSPITAL - NEW SOUTH WALES	1	1	0	1	0	0	0	0	0	0	3
JOHN HUNTER HOSPITAL - NEW SOUTH WALES	8	5	9	11	14	5	10	7	9	5	83
KAREENA PRIVATE HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	1	1	0	0	2
LISMORE HOSPITAL - NEW SOUTH WALES	1	0	0	0	0	0	1	2	1	2	7
LIVERPOOL HOSPITAL - NEW SOUTH WALES	1	3	1	4	3	4	3	5	6	5	35
MANLY HOSPITAL - NEW SOUTH WALES	0	0	1	1	1	0	0	0	0	0	3
MT DRUITT HOSPITAL - NEW SOUTH WALES	0	0	1	0	0	0	0	0	0	0	1
NEPEAN HOSPITAL - NEW SOUTH WALES	1	2	2	2	1	3	4	8	4	4	31
NEWCASTLE MATER HOSPITAL - NEW SOUTH WALES	0	1	0	0	0	0	1	0	0	0	2
ORANGE HOSPITAL - NEW SOUTH WALES	0	1	0	0	2	0	0	0	0	0	3
PRINCE HENRY HOSPITAL - NEW SOUTH WALES	8	3	1	1	1	2	0	0	0	0	16
PRINCE OF WALES HOSPITAL - NEW SOUTH WALES	4	3	3	2	1	3	0	1	4	5	26
PORT MACQUARIE HOSPITAL - NEW SOUTH WALES	0	0	1	0	0	0	1	1	1	0	4
ROYAL ALEXANDRA HOSPITAL FOR CHILDREN - NSW	0	2	1	1	6	1	1	1	2	1	16
ROYAL NORTH SHORE HOSPITAL - NEW SOUTH WALES	8	12	9	9	6	8	12	8	11	7	90
ROYAL PRINCE ALFRED HOSPITAL - NEW SOUTH WALES	6	7	8	5	3	4	3	6	6	5	53
RYDE HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	1	0	0	1	2
SYDNEY CHILDREN'S HOSPITAL - NEW SOUTH WALES	1	0	0	0	2	1	0	1	2	1	8
SHOALHAVEN HOSPITAL - NEW SOUTH WALES	0	0	0	1	0	1	0	0	0	0	2
ST GEORGE HOSPITAL - NEW SOUTH WALES	0	2	4	3	2	2	2	4	4	4	27
ST VINCENT'S HOSPITAL - NEW SOUTH WALES	4	2	4	4	5	2	4	3	0	4	32
ST VINCENT'S PRIVATE HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	0	0	0	1	1
SUTHERLAND HOSPITAL - NEW SOUTH WALES	1	0	2	1	0	2	0	0	0	0	6
TAMWORTH HOSPITAL - NEW SOUTH WALES	2	0	0	2	1	0	0	1	2	0	8
TAREE HOSPITAL - NEW SOUTH WALES	0	0	1	0	0	0	0	0	0	0	1
TWEED HEADS HOSPITAL - NEW SOUTH WALES	0	0	0	0	0	0	0	0	0	1	1
WAGGA HOSPITAL - NEW SOUTH WALES	0	1	3	0	2	1	1	0	0	0	8
WESTMEAD HOSPITAL - NEW SOUTH WALES	27	21	10	14	10	15	7	3	7	7	121
WOLLONGONG HOSPITAL - NEW SOUTH WALES	8	3	4	3	2	8	7	5	4	0	44
	89	79	76	70	74	73	67	69	69	65	731

**NUMBER OF DONORS FROM EACH HOSPITAL
VICTORIA 1989 - 1998**

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ALFRED HOSPITAL - VICTORIA	7	8	10	13	16	6	12	16	14	14	116
AUSTIN HOSPITAL - VICTORIA	1	2	2	1	3	5	3	2	5	9	33
BALLARAT HOSPITAL - VICTORIA	1	0	2	1	0	0	1	1	1	0	7
BENDIGO HOSPITAL - VICTORIA	1	0	0	1	1	0	0	2	0	1	6
BOX HILL HOSPITAL - VICTORIA	2	5	1	0	3	0	0	2	1	0	14
CABRINI HOSPITAL - VICTORIA	0	0	0	1	0	0	0	0	0	0	1
CENTRAL GIPPSLAND HOSPITAL - VICTORIA	0	0	0	1	0	0	0	0	0	0	1
DANDENONG HOSPITAL - VICTORIA	0	5	2	0	1	2	2	0	2	2	16
DIAMOND VALLEY HOSPITAL- VICTORIA	0	0	0	0	0	0	0	1	1	0	2
EPWORTH HOSPITAL - VICTORIA	0	0	0	0	1	0	0	0	1	0	2
FRANKSTON HOSPITAL - VICTORIA	1	1	0	0	2	1	0	0	2	0	7
GEE LONG HOSPITAL - VICTORIA	2	2	5	6	1	1	2	3	0	0	22
GEE LONG PRIVATE HOSPITAL - VICTORIA	0	0	0	0	0	0	0	0	0	1	1
HAMILTON HOSPITAL - VICTORIA	0	0	0	1	0	0	0	0	0	0	1
HEIDELBERG HOSPITAL - VICTORIA	2	0	0	0	1	1	1	0	0	0	5
KNOX PRIVATE HOSPITAL - VICTORIA	0	0	0	0	0	0	0	1	2	0	3
MAROONDAH HOSPITAL - VICTORIA	0	0	0	0	4	0	1	0	0	0	5
MILDURA HOSPITAL - VICTORIA	1	0	0	0	1	0	0	0	0	1	3
MONASH MEDICAL (ADULTS) - VICTORIA	10	1	0	3	2	0	2	9	2	4	33
MONASH MEDICAL (PAEDIATRIC) - VICTORIA	3	0	1	0	0	0	0	0	0	0	4
MELBOURNE PRIVATE HOSPITAL - VICTORIA	0	0	0	0	0	0	1	1	0	0	2
PRESTON AND NORTHCOLE HOSPITAL - VICTORIA	2	1	0	1	1	0	3	1	1	0	10
ROYAL CHILDREN'S HOSPITAL - VICTORIA	12	2	3	1	4	1	3	1	0	3	30
ROYAL MELBOURNE HOSPITAL - VICTORIA	10	15	8	7	6	4	3	3	3	1	60
SALE HOSPITAL - VICTORIA	0	0	0	0	1	0	1	1	0	0	3
ST VINCENT'S HOSPITAL - VICTORIA	6	3	8	0	1	4	2	3	2	2	31
ST VINCENT'S PRIVATE HOSPITAL - VICTORIA	0	0	0	0	0	0	0	0	0	1	1
TRARALGON HOSPITAL - VICTORIA	1	0	0	0	0	0	0	0	0	0	1
WANGARATTA HOSPITAL - VICTORIA	1	0	2	3	2	0	1	0	1	0	10
WARNAMBOOL HOSPITAL - VICTORIA	0	0	0	1	1	0	0	0	0	0	2
WODONGA HOSPITAL - VICTORIA	1	0	0	0	0	0	0	0	0	0	1
WESTERN HOSPITAL - VICTORIA	0	0	0	1	0	1	0	2	2	1	7
	64	45	44	42	52	26	38	49	40	40	440

TASMANIA 1989 - 1998

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
BURNIE HOSPITAL - TASMANIA	0	0	0	2	0	1	0	0	0	0	3
CALVARY HOSPITAL - TASMANIA	0	0	0	0	0	0	0	1	0	0	1
LAUNCESTON HOSPITAL - TASMANIA	0	1	0	0	3	1	0	0	0	0	5
MERSEY HOSPITAL - TASMANIA	0	0	0	0	0	0	0	0	1	0	1
ROYAL HOBART HOSPITAL - TASMANIA	2	1	2	2	3	4	4	0	4	0	22
	2	2	2	4	6	6	4	1	5	0	32

SOUTH AUSTRALIA 1989 - 1998

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ASHFORD HOSPITAL - SOUTH AUSTRALIA	0	0	0	0	1	0	0	0	2	1	4
FLINDERS MEDICAL CENTRE - SOUTH AUSTRALIA	5	6	3	6	6	7	9	6	10	12	70
LYELL MC EWIN HOSPITAL - SOUTH AUSTRALIA	0	0	0	0	3	0	1	0	0	0	4
MEMORIAL HOSPITAL - SOUTH AUSTRALIA	0	0	0	0	0	0	0	0	0	1	1
MODBURY HOSPITAL - SOUTH AUSTRALIA	0	2	0	0	1	0	0	0	0	0	3
THE QUEEN ELIZABETH HOSPITAL - SOUTH AUSTRALIA	2	3	0	4	3	4	2	2	3	5	28
ROYAL ADELAIDE HOSPITAL - SOUTH AUSTRALIA	9	14	10	9	9	10	10	14	9	13	107
WOMEN'S AND CHILDREN'S - SOUTH AUSTRALIA	3	2	2	1	0	2	1	3	1	3	18
	19	27	15	20	23	23	23	25	25	35	235

**NUMBER OF DONORS FROM EACH HOSPITAL
NORTHERN TERRITORY 1989 - 1997**

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
ALICE SPRINGS HOSPITAL - NORTHERN TERRITORY	0	0	0	0	0	1	1	1	0	1	4
ROYAL DARWIN HOSPITAL - NORTHERN TERRITORY	2	1	2	0	3	0	0	2	4	2	16
	2	1	2	0	3	1	1	3	4	3	20

WESTERN AUSTRALIA 1989 - 1998

DONOR HOSPITAL	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	TOTAL
FREMANTLE HOSPITAL - WESTERN AUSTRALIA	0	0	0	1	1	0	2	0	0	1	5
PRINCESS MARGARET HOSPITAL - WESTERN AUSTRALIA	5	1	5	1	0	0	2	1	1	1	17
ROYAL PERTH HOSPITAL - WESTERN AUSTRALIA	5	4	9	5	9	9	7	8	4	7	67
SIR CHARLES GAIRDNER HOSPITAL - WESTERN AUSTRALIA	7	6	9	7	9	7	6	3	3	4	61
	17	11	23	14	19	16	17	12	8	13	150

NEW ZEALAND 1993-1998

DONOR HOSPITAL	1993	1994	1995	1996	1997	1998	TOTAL
AUCKLAND HOSPITAL - NEW ZEALAND	7	5	9	8	13	14	56
BLenheim HOSPITAL - NEW ZEALAND	0	0	0	0	0	2	2
CHRISTCHURCH HOSPITAL - NEW ZEALAND	5	6	1	4	6	6	28
DUNEDIN HOSPITAL - NEW ZEALAND	4	2	5	4	1	2	18
HASTINGS HOSPITAL - NEW ZEALAND	1	0	0	1	0	2	4
LOWER HUTT HOSPITAL - NEW ZEALAND	0	0	1	0	0	1	2
INVERCARGILL HOSPITAL - NEW ZEALAND	0	2	0	1	1	0	4
MIDDLEMORE HOSPITAL - NEW ZEALAND	3	0	2	2	5	4	16
NELSON HOSPITAL - NEW ZEALAND	1	2	2	0	2	3	10
PALMERSTON HOSPITAL - NEW ZEALAND	2	2	5	5	1	2	17
NEW PLYMOUTH HOSPITAL - NEW ZEALAND	1	0	0	0	0	0	1
ROTORUA HOSPITAL - NEW ZEALAND	1	1	0	1	1	1	5
STARSHIP CHILDREN'S HOSPITAL - NEW ZEALAND	0	0	0	0	1	1	2
TAURANGA HOSPITAL - NEW ZEALAND	3	0	1	1	1	1	7
TIMARU HOSPITAL - NEW ZEALAND	0	0	0	0	3	1	4
WELLINGTON HOSPITAL - NEW ZEALAND	3	7	4	4	4	3	25
WANGANUI HOSPITAL - NEW ZEALAND	1	0	0	0	0	1	2
WHANGAREI HOSPITAL - NEW ZEALAND	0	1	1	0	2	0	4
WAIKATO HOSPITAL - HAMILTON - NEW ZEALAND	2	7	4	5	1	2	21
	34	35	35	36	42	46	228

REASON ORGANS NOT REQUESTED BY DONOR STATE

AUSTRALIA 1-JAN-89 to 31-DEC-98

ORGANS NOT REQUESTED	REASON NOT REQUESTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
KIDNEYS	DISEASE OF ORGAN	0	2	4	1	1	1	0	9
	TRAUMA TO ORGAN	0	0	1	0	1	0	0	2
	AGE OF DONOR	1	1	1	0	0	0	1	4
	PRIOR FAMILY REQUEST	0	1	0	0	0	0	0	1
	DONOR REFUSAL	0	1	0	0	0	0	0	1
	MEDICALLY UNSUITABLE	0	0	0	0	1	0	0	1
		1	5	6	1	3	1	1	18
LIVER	DISEASE OF ORGAN	1	9	11	1	5	1	4	32
	TRAUMA TO ORGAN	0	2	5	1	2	0	0	10
	AGE OF DONOR	5	37	28	0	12	0	1	83
	PRIOR FAMILY REQUEST	1	5	6	3	4	0	1	20
	DONOR REFUSAL	0	0	0	0	1	0	0	1
	STAFF OVERSIGHT	0	0	0	0	2	1	0	3
	STAFF RELUCTANCE	0	0	0	0	1	0	2	3
	DONOR UNSTABLE	0	0	0	0	4	0	1	5
	LOGISTICS	0	0	2	0	0	0	0	2
	MEDICALLY UNSUITABLE	0	4	5	1	2	0	0	12
	NO SUITABLE RECIPIENT	0	1	4	0	3	0	0	8
	NON HEART BEATING DONOR	0	7	0	0	4	0	0	11
	UNKNOWN	0	13	3	0	0	0	20	36
FAMILY REFUSAL	0	6	2	0	0	1	1	10	
		7	84	66	6	40	3	30	236
HEART	DISEASE OF ORGAN	6	9	12	0	14	1	3	45
	TRAUMA TO ORGAN	1	6	4	1	0	0	2	14
	AGE OF DONOR	13	66	37	0	21	1	11	149
	PRIOR FAMILY REQUEST	2	7	5	3	4	0	1	22
	DONOR REFUSAL	0	0	0	0	1	0	0	1
	STAFF OVERSIGHT	0	0	0	0	2	0	0	2
	STAFF RELUCTANCE	0	0	0	0	1	0	1	2
	CORONER REFUSAL	0	0	0	0	1	0	0	1
	DONOR UNSTABLE	0	0	0	0	2	0	0	2
	LOGISTICS	0	1	2	0	0	0	0	3
	MEDICALLY UNSUITABLE	0	1	3	0	1	0	1	6
	NO SUITABLE RECIPIENT	1	0	3	0	0	0	0	4
	NON HEART BEATING DONOR	0	7	0	0	4	0	0	11
UNKNOWN	0	11	3	0	0	0	23	37	
FAMILY REFUSAL	0	8	4	0	1	1	1	15	
		23	116	73	4	52	3	43	314
LUNGS	DISEASE OF ORGAN	9	16	12	1	20	2	6	66
	TRAUMA TO ORGAN	1	11	15	3	13	1	11	55
	AGE OF DONOR	19	76	48	0	32	0	14	189
	PRIOR FAMILY REQUEST	4	9	6	3	4	0	1	27
	DONOR REFUSAL	0	0	0	0	1	0	0	1
	STAFF OVERSIGHT	8	2	0	0	3	0	1	14
	STAFF RELUCTANCE	3	0	0	0	1	0	2	6
	CORONER REFUSAL	0	1	0	0	2	0	0	3
	DONOR UNSTABLE	0	0	0	0	5	0	1	6
	LOGISTICS	6	1	23	1	2	1	0	34
	MEDICALLY UNSUITABLE	1	3	2	0	1	0	1	8
	NO SUITABLE RECIPIENT	1	0	8	0	2	0	0	11
	NON HEART BEATING DONOR	0	8	0	0	4	0	0	12
UNKNOWN	0	20	8	0	0	0	32	60	
FAMILY REFUSAL	1	6	2	0	0	1	1	11	
		53	153	124	8	90	5	70	503

REASON ORGANS NOT REQUESTED BY DONOR STATE

AUSTRALIA 1-JAN-89 to 31-DEC-98

ORGANS NOT REQUESTED	REASON NOT REQUESTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL	
PANCREAS	DISEASE OF ORGAN	3	6	9	1	6	1	1	27	
	TRAUMA TO ORGAN	1	2	3	1	2	0	0	9	
	AGE OF DONOR	32	108	90	1	36	0	3	270	
	PRIOR FAMILY REQUEST	6	9	6	3	9	0	1	34	
	DONOR REFUSAL	0	0	0	0	1	0	0	1	
	STAFF OVERSIGHT	17	3	28	4	15	0	4	71	
	STAFF RELUCTANCE	4	1	4	0	2	0	2	13	
	DONOR UNSTABLE	0	0	0	0	3	0	0	3	
	LOGISTICS	15	5	45	4	74	16	80	239	
	MEDICALLY UNSUITABLE	0	2	4	0	3	0	0	9	
	NO SUITABLE RECIPIENT	0	1	25	9	22	1	0	58	
	NON HEART BEATING DONOR	0	8	0	0	4	0	0	12	
	UNKNOWN	0	22	4	0	1	0	28	55	
	FAMILY REFUSAL	1	6	3	0	1	1	1	13	
		79	173	221	23	179	19	120	814	
CORNEA	DISEASE OF ORGAN	1	0	5	0	2	1	2	11	
	TRAUMA TO ORGAN	0	3	5	1	14	1	1	25	
	AGE OF DONOR	5	0	3	0	3	0	2	13	
	PRIOR FAMILY REQUEST	7	32	11	2	18	0	1	71	
	DONOR REFUSAL	0	2	1	1	1	0	0	5	
	STAFF OVERSIGHT	10	7	5	1	10	0	0	33	
	STAFF RELUCTANCE	4	1	1	0	8	0	0	14	
	CORONER REFUSAL	0	3	0	0	1	0	1	5	
	LOGISTICS	2	1	6	3	3	10	0	25	
	MEDICALLY UNSUITABLE	1	0	1	1	0	0	1	4	
	NO SUITABLE RECIPIENT	0	0	1	3	1	0	0	5	
	UNKNOWN	0	11	1	0	2	0	16	30	
	FAMILY REFUSAL	3	24	8	1	5	2	3	46	
			33	84	48	13	68	14	27	287
BONE	DISEASE OF ORGAN	1	0	0	0	2	0	2	5	
	TRAUMA TO ORGAN	2	1	1	0	5	0	2	11	
	AGE OF DONOR	42	43	53	2	36	0	19	195	
	PRIOR FAMILY REQUEST	11	10	11	4	13	0	1	50	
	DONOR REFUSAL	0	0	0	0	3	0	0	3	
	STAFF OVERSIGHT	21	6	19	0	18	1	2	67	
	STAFF RELUCTANCE	5	1	3	0	32	0	3	44	
	CORONER REFUSAL	0	0	0	0	1	0	1	2	
	LOGISTICS	26	605	304	23	7	18	36	1019	
	MEDICALLY UNSUITABLE	0	1	1	0	4	0	12	18	
	NO SUITABLE RECIPIENT	0	0	2	0	0	0	0	2	
	FAMILY REFUSAL	0	8	11	0	7	1	2	29	
			108	675	405	29	128	20	80	1445

REASON ORGANS NOT REQUESTED BY DONOR STATE

AUSTRALIA 1-JAN-98 to 31-DEC-98

ORGANS NOT REQUESTED	REASON NOT REQUESTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
KIDNEYS	DISEASE OF ORGAN	0	0	4	0	0	0	0	4
	AGE OF DONOR	0	0	1	0	0	0	0	1
		0	0	5	0	0	0	0	5
LIVER	DISEASE OF ORGAN	0	1	2	0	0	0	0	3
	AGE OF DONOR	0	0	3	0	2	0	0	5
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
		0	1	6	0	4	0	0	11
HEART	DISEASE OF ORGAN	1	0	3	0	2	0	0	6
	AGE OF DONOR	4	9	3	0	3	0	2	21
	PRIOR FAMILY REQUEST	1	1	0	0	0	0	0	2
	LOGISTICS	0	0	1	0	0	0	0	1
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	2	1	0	0	0	0	3
	6	12	9	0	7	0	2	36	
LUNGS	DISEASE OF ORGAN	1	0	1	0	3	0	0	5
	TRAUMA TO ORGAN	0	0	1	0	1	0	1	3
	AGE OF DONOR	4	9	5	0	5	0	3	26
	PRIOR FAMILY REQUEST	1	1	0	0	0	0	0	2
	LOGISTICS	0	0	1	0	0	0	0	1
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	1	0	0	0	0	0	1
	6	11	9	0	11	0	4	41	
PANCREAS	DISEASE OF ORGAN	0	1	5	0	1	0	0	7
	AGE OF DONOR	8	13	18	0	10	0	0	49
	PRIOR FAMILY REQUEST	1	0	0	0	0	0	0	1
	STAFF OVERSIGHT	1	0	1	0	0	0	0	2
	LOGISTICS	0	0	2	0	11	3	8	24
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	1	0	0	0	0	0	1
	10	15	26	0	24	3	8	86	
CORNEA	DISEASE OF ORGAN	0	0	1	0	0	0	0	1
	TRAUMA TO ORGAN	0	0	0	0	2	0	0	2
	AGE OF DONOR	0	0	1	0	1	0	1	3
	PRIOR FAMILY REQUEST	1	1	1	0	3	0	0	6
	STAFF OVERSIGHT	0	0	0	0	2	0	0	2
	STAFF RELUCTANCE	0	0	0	0	2	0	0	2
	LOGISTICS	0	0	0	0	0	2	0	2
	MEDICALLY UNSUITABLE	0	0	0	0	0	0	1	1
	NO SUITABLE RECIPIENT	0	0	0	0	1	0	0	1
FAMILY REFUSAL	1	8	1	0	0	0	0	10	
	2	9	4	0	11	2	2	30	
BONE	DISEASE OF ORGAN	0	0	0	0	1	0	0	1
	AGE OF DONOR	3	1	12	0	7	0	3	26
	PRIOR FAMILY REQUEST	2	0	0	0	3	0	0	5
	STAFF OVERSIGHT	0	0	0	0	4	0	0	4
	STAFF RELUCTANCE	0	0	0	0	8	0	0	8
	LOGISTICS	1	58	25	0	1	3	0	88
	MEDICALLY UNSUITABLE	0	0	0	0	0	0	4	4
	FAMILY REFUSAL	0	3	1	0	2	0	0	6
		6	62	38	0	26	3	7	142

**SOLID ORGANS RETRIEVED BY DONOR STATE
AUSTRALIA 1-JAN-89 to 31-DEC-98**

ORGANS RETRIEVED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
(L) KIDNEY/	3	5	1	0	0	0	0	9
(L) KIDNEY/HEART/	0	3	1	0	0	0	0	4
(L) KIDNEY/LIVER/	1	0	1	0	1	0	0	3
(L) KIDNEY/LIVER/HEART/	1	1	0	0	1	0	0	3
(L) KIDNEY/LIVER/HEART/LUNGS/	0	1	0	0	0	0	1	2
(L) KIDNEY/LIVER/HEART/LUNGS/PANCREAS	0	1	0	0	0	0	0	1
(L) KIDNEY/LIVER/HEART/PANCREAS	0	0	1	0	0	0	0	1
(R) KIDNEY/	0	3	4	0	0	0	0	7
(R) KIDNEY/HEART/	0	1	0	0	0	0	0	1
(R) KIDNEY/LIVER/	0	2	1	0	0	0	0	3
(R) KIDNEY/LIVER/HEART/	0	0	2	0	0	0	0	2
(R) KIDNEY/LIVER/HEART/LUNGS/	1	0	0	0	0	0	0	1
(R) KIDNEY/PANCREAS	0	0	1	0	0	0	0	1
HEART/	3	4	1	0	2	0	0	10
HEART/LUNGS/	1	1	0	0	1	0	0	3
HEART/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/	68	189	118	6	65	5	61	512
KIDNEYS/(L) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/(L) LUNG/PANCREAS	0	1	0	0	0	0	0	1
KIDNEYS/HEART/	33	59	41	6	26	1	5	171
KIDNEYS/HEART/(L) LUNG/	1	1	2	0	0	0	0	4
KIDNEYS/HEART/(L) LUNG/PANCREAS	0	1	0	0	0	0	0	1
KIDNEYS/HEART/(R) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/HEART/(R) LUNG/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/HEART/LUNGS/	9	27	11	1	8	3	3	62
KIDNEYS/HEART/LUNGS/PANCREAS	0	4	0	0	0	0	0	4
KIDNEYS/HEART/PANCREAS	0	12	13	0	0	0	1	26
KIDNEYS/LIVER/	98	99	48	4	35	4	24	312
KIDNEYS/LIVER/(L) LUNG/	1	0	0	0	0	0	0	1
KIDNEYS/LIVER/(R) LUNG/	1	0	1	0	0	0	0	2
KIDNEYS/LIVER/HEART/	112	91	58	5	29	1	11	307
KIDNEYS/LIVER/HEART/(L) LUNG/	0	1	3	0	0	0	0	4
KIDNEYS/LIVER/HEART/(L) LUNG/PANCREAS	1	1	0	0	0	0	0	2
KIDNEYS/LIVER/HEART/(R) LUNG/	1	5	6	0	0	0	0	12
KIDNEYS/LIVER/HEART/(R) LUNG/PANCREAS	0	2	0	0	0	0	0	2
KIDNEYS/LIVER/HEART/LUNGS/	54	93	55	9	36	3	20	270
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	4	41	17	0	2	0	7	71
KIDNEYS/LIVER/HEART/PANCREAS	0	32	15	0	0	0	5	52
KIDNEYS/LIVER/LUNGS/	18	13	8	0	13	1	3	56
KIDNEYS/LIVER/LUNGS/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/PANCREAS	1	17	8	0	1	0	3	30
KIDNEYS/LUNGS/	0	2	2	0	1	1	0	6
KIDNEYS/LUNGS/PANCREAS	0	1	0	0	0	0	0	1
KIDNEYS/PANCREAS	0	6	11	0	6	0	3	26
LIVER/	1	6	2	0	2	0	1	12
LIVER/HEART/	2	1	1	0	2	0	0	6
LIVER/HEART/LUNGS/	0	0	0	0	0	1	0	1
LIVER/LUNGS/	0	1	1	1	1	0	0	4
LIVER/PANCREAS	0	1	0	0	0	0	0	1
LUNGS/	0	0	4	0	0	0	0	4
PANCREAS	0	0	0	0	1	0	0	1
	415	729	443	32	233	20	148	2020

AUSTRALIA 1-JAN-98 to 31-DEC-98

ORGANS RETRIEVED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
(L) KIDNEY/LIVER/	0	0	0	0	1	0	0	1
(L) KIDNEY/LIVER/HEART/	0	1	0	0	0	0	0	1
(R) KIDNEY/LIVER/	0	2	0	0	0	0	0	2
(R) KIDNEY/LIVER/HEART/LUNGS/	1	0	0	0	0	0	0	1
KIDNEYS/	6	13	7	0	11	0	0	37
KIDNEYS/(L) LUNG/PANCREAS	0	1	0	0	0	0	0	1
KIDNEYS/HEART/	1	1	2	0	1	0	1	6
KIDNEYS/HEART/LUNGS/	1	2	0	0	0	0	0	3
KIDNEYS/HEART/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/	12	17	8	0	8	0	3	48
KIDNEYS/LIVER/HEART/	3	2	2	0	1	0	3	11
KIDNEYS/LIVER/HEART/(L) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/HEART/(L) LUNG/PANCREAS	1	0	0	0	0	0	0	1
KIDNEYS/LIVER/HEART/(R) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/HEART/LUNGS/	8	5	8	0	6	2	4	33
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	0	7	2	0	1	0	1	11
KIDNEYS/LIVER/HEART/PANCREAS	0	4	0	0	0	0	0	4
KIDNEYS/LIVER/LUNGS/	7	5	1	0	2	1	0	16
KIDNEYS/LIVER/PANCREAS	0	1	0	0	1	0	1	3
KIDNEYS/PANCREAS	0	3	0	0	0	0	0	3
LIVER/	0	1	1	0	1	0	0	3
LIVER/HEART/	0	0	0	0	1	0	0	1
LIVER/LUNGS/	0	0	1	0	0	0	0	1
LUNGS/	0	0	4	0	0	0	0	4
PANCREAS	0	0	0	0	1	0	0	1
	40	65	39	0	35	3	13	195

REASON ORGANS NOT RETRIEVED BY DONOR STATE
AUSTRALIA 1-JAN-89 to 31-DEC-98

ORGANS NOT RETRIEVED	REASON NOT RETRIEVED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
KIDNEY (LEFT)	NO SUITABLE RECIPIENT	1	0	0	0	0	0	1	2
	DISEASE OF ORGAN	2	9	6	0	2	0	1	20
	TRAUMA TO ORGAN	0	3	1	0	2	0	0	6
	CARDIAC ARREST	0	0	1	0	0	0	0	1
	INFECTION	1	0	0	0	4	0	0	5
	BIOCHEMISTRY	3	0	0	0	0	0	0	3
	ABSENT KIDNEY	0	0	2	0	0	0	0	2
	HORSESHOE KIDNEY	0	1	0	0	0	0	0	1
	MEDICALLY UNSUITABLE	0	1	3	0	0	0	0	4
	PREVIOUS NEPHRECTOMY	0	1	0	0	0	0	0	1
	AGE OF DONOR	0	1	0	0	0	0	0	1
		7	16	13	0	8	0	2	46
KIDNEY (RIGHT)	NO SUITABLE RECIPIENT	1	0	0	0	0	0	1	2
	DISEASE OF ORGAN	3	10	3	0	3	0	1	20
	TRAUMA TO ORGAN	2	1	4	0	2	0	1	10
	CARDIAC ARREST	0	0	1	0	0	0	0	1
	INFECTION	1	0	0	0	4	0	0	5
	MALIGNANCY	0	0	1	0	0	0	0	1
	BIOCHEMISTRY	3	0	0	0	0	0	0	3
	ABSENT KIDNEY	0	2	0	0	1	0	0	3
	HORSESHOE KIDNEY	0	1	0	0	0	0	0	1
	MEDICALLY UNSUITABLE	1	3	0	0	0	0	0	4
	PREVIOUS NEPHRECTOMY	0	3	0	0	0	0	0	3
AGE OF DONOR	0	1	0	0	0	0	0	1	
		11	21	9	0	10	0	3	54
LIVER	NO SUITABLE RECIPIENT	53	89	67	3	23	2	22	259
	DISEASE OF ORGAN	24	59	11	0	15	0	3	112
	TRAUMA TO ORGAN	5	9	4	0	1	2	0	21
	CARDIAC ARREST	1	0	5	0	0	0	0	6
	INFECTION	1	1	0	0	2	0	0	4
	HYPOTENSION	4	5	2	0	3	0	0	14
	BIOCHEMISTRY	3	12	10	1	3	0	1	30
	INOTROPIC SUPPORT	1	13	12	1	3	1	2	33
	LOGISTICS	1	11	5	0	2	0	3	22
	CORONER REFUSAL	0	0	0	0	1	0	0	1
	DONOR UNSTABLE	1	3	2	0	4	1	0	11
	MEDICALLY UNSUITABLE	3	6	1	1	4	1	1	17
	NON HEART BEATING DONOR	0	1	0	0	0	0	0	1
	RECIPIENT DIED RETRIEVAL	0	0	0	0	1	0	0	1
	RECIPIENT INOPERABLE	0	1	0	0	0	0	0	1
	UNKNOWN	0	0	0	0	0	0	3	3
	AGE OF DONOR	6	7	11	0	0	0	3	27
		103	217	130	6	62	7	38	563
HEART	NO SUITABLE RECIPIENT	41	37	38	4	14	2	15	151
	DISEASE OF ORGAN	42	56	23	1	27	3	6	158
	TRAUMA TO ORGAN	10	7	8	1	5	0	3	34
	CARDIAC ARREST	3	4	9	0	0	0	0	16
	INFECTION	3	1	0	0	2	0	0	6
	HYPOTENSION	8	7	0	0	1	0	0	16
	BIOCHEMISTRY	0	1	1	0	0	0	0	2
	INOTROPIC SUPPORT	14	30	11	0	3	0	5	63
	ECG	0	4	7	0	2	1	1	15
	ABG	1	0	0	0	0	0	0	1
	CHEST XRAY	1	0	0	0	0	0	0	1
	LOGISTICS	5	4	1	0	2	1	3	16
	RECIPIENT UNSTABLE	0	0	1	0	0	0	0	1
	CORONER REFUSAL	1	0	0	0	2	0	1	4
	DONOR UNSTABLE	2	3	2	0	8	1	0	16
	MEDICALLY UNSUITABLE	7	5	5	0	1	0	4	22
	NON HEART BEATING DONOR	0	2	0	0	0	0	0	2
	UNKNOWN	0	0	0	0	0	0	1	1
	AGE OF DONOR	10	33	9	0	1	0	2	55
			148	194	115	6	68	8	41

REASON ORGANS NOT RETRIEVED BY DONOR STATE
AUSTRALIA 1-JAN-89 to 31-DEC-98

ORGANS NOT RETRIEVED	REASON NOT RETRIEVED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
LUNGS	NO SUITABLE RECIPIENT	45	88	57	3	22	3	10	228
	DISEASE OF ORGAN	24	64	25	2	17	1	8	141
	TRAUMA TO ORGAN	20	30	30	3	10	0	3	96
	CARDIAC ARREST	0	3	7	0	0	0	1	11
	INFECTION	26	8	11	2	3	0	4	54
	HYPOTENSION	2	6	0	0	0	0	0	8
	BIOCHEMISTRY	2	2	1	0	0	0	0	5
	INOTROPIC SUPPORT	1	5	2	0	1	0	4	13
	ABG	58	55	18	1	8	1	2	143
	CHEST XRAY	16	18	14	0	3	0	0	51
	LOGISTICS	25	11	1	0	2	0	1	40
	CORONER REFUSAL	0	0	0	0	2	0	0	2
	DONOR UNSTABLE	2	3	2	0	4	1	0	12
	MEDICALLY UNSUITABLE	2	5	3	1	2	0	4	17
	NO HEART CONSENT	0	1	0	0	0	0	0	1
	NON HEART BEATING DONOR	0	1	0	0	0	0	0	1
	PERFUSION ACCIDENT	0	0	0	0	0	0	1	1
	AGE OF DONOR	18	40	9	0	1	0	1	69
		241	340	180	12	75	6	39	893
LUNG (LEFT)	NO SUITABLE RECIPIENT	0	2	2	0	0	0	0	4
	DISEASE OF ORGAN	0	1	2	0	0	0	0	3
	TRAUMA TO ORGAN	1	1	1	0	0	0	0	3
	INFECTION	1	1	0	0	0	0	0	2
	CHEST XRAY	0	0	2	0	0	0	0	2
	MEDICALLY UNSUITABLE	1	0	0	0	0	0	0	1
			3	5	7	0	0	0	15
LUNG (RIGHT)	NO SUITABLE RECIPIENT	0	3	5	0	0	0	0	8
	DISEASE OF ORGAN	0	1	1	0	0	0	0	2
	TRAUMA TO ORGAN	0	3	4	0	0	0	0	7
	ECG	1	0	0	0	0	0	0	1
	CHEST XRAY	1	0	0	0	0	0	0	1
		2	7	10	0	0	0	19	
PANCREAS	NO SUITABLE RECIPIENT	15	83	88	4	6	0	1	197
	DISEASE OF ORGAN	4	34	1	0	1	0	0	40
	TRAUMA TO ORGAN	2	8	3	0	0	0	0	13
	CARDIAC ARREST	0	0	1	0	0	0	0	1
	INFECTION	1	0	0	0	1	0	0	2
	HYPOTENSION	3	7	0	0	1	0	0	11
	BIOCHEMISTRY	3	9	3	1	1	0	0	17
	INOTROPIC SUPPORT	2	5	2	0	0	0	0	9
	LOGISTICS	236	130	13	1	11	1	2	394
	CORONER REFUSAL	0	0	0	0	1	0	0	1
	DONOR UNSTABLE	2	2	1	0	2	0	0	7
	MEDICALLY UNSUITABLE	0	15	2	1	1	0	1	20
	NO CONSENT FOR RESEARCH	0	0	0	0	1	0	0	1
	NON HEART BEATING DONOR	0	1	0	0	0	0	0	1
	UNKNOWN	0	1	0	0	0	0	2	3
AGE OF DONOR	17	107	15	0	3	0	0	142	
		285	402	129	7	29	1	6	859
CORNEA	NO SUITABLE RECIPIENT	7	0	0	0	0	0	0	7
	DISEASE OF ORGAN	1	4	0	0	1	0	0	6
	TRAUMA TO ORGAN	20	4	3	0	2	0	1	30
	INFECTION	3	0	0	0	0	0	0	3
	LOGISTICS	36	7	0	0	3	3	0	49
	CORONER REFUSAL	0	4	0	0	0	0	0	4
	MEDICALLY UNSUITABLE	4	3	0	0	1	0	0	8
	STAFF OVERSIGHT	3	0	0	0	1	0	0	4
	UNKNOWN	0	0	0	0	0	0	2	2
	WITHDRAWAL OF CONSENT	0	1	0	0	0	0	0	1
	AGE OF DONOR	2	1	0	0	1	0	1	5
			76	24	3	0	9	3	4
CORNEA (LEFT)	TRAUMA TO ORGAN	0	0	1	0	0	0	0	1
	LOGISTICS	1	0	0	0	0	0	0	1
		1	0	1	0	0	0	0	2
CORNEA (RIGHT)	LOGISTICS	0	0	1	0	0	0	0	1
BONE	NO SUITABLE RECIPIENT	0	0	3	0	1	0	0	4
	DISEASE OF ORGAN	2	0	1	0	1	0	2	6
	TRAUMA TO ORGAN	3	0	1	0	0	0	0	4
	INFECTION	8	1	0	0	3	0	1	13
	BIOCHEMISTRY	0	0	0	0	0	0	1	1
	LOGISTICS	113	35	19	0	7	0	3	177
	CORONER REFUSAL	0	0	0	0	2	0	0	2
	MEDICALLY UNSUITABLE	1	0	0	0	1	0	4	6
	AGE OF DONOR	29	5	1	0	0	0	3	38
			156	41	25	0	15	0	14

REASON ORGANS NOT REQUESTED BY DONOR STATE

AUSTRALIA 1-JAN-98 to 31-DEC-98

ORGANS NOT REQUESTED	REASON NOT REQUESTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
KIDNEYS	DISEASE OF ORGAN	0	0	4	0	0	0	0	4
	AGE OF DONOR	0	0	1	0	0	0	0	1
		0	0	5	0	0	0	0	5
LIVER	DISEASE OF ORGAN	0	1	2	0	0	0	0	3
	AGE OF DONOR	0	0	3	0	2	0	0	5
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
		0	1	6	0	4	0	0	11
HEART	DISEASE OF ORGAN	1	0	3	0	2	0	0	6
	AGE OF DONOR	4	9	3	0	3	0	2	21
	PRIOR FAMILY REQUEST	1	1	0	0	0	0	0	2
	LOGISTICS	0	0	1	0	0	0	0	1
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	2	1	0	0	0	0	3
		6	12	9	0	7	0	2	36
LUNGS	DISEASE OF ORGAN	1	0	1	0	3	0	0	5
	TRAUMA TO ORGAN	0	0	1	0	1	0	1	3
	AGE OF DONOR	4	9	5	0	5	0	3	26
	PRIOR FAMILY REQUEST	1	1	0	0	0	0	0	2
	LOGISTICS	0	0	1	0	0	0	0	1
	NO SUITABLE RECIPIENT	0	0	1	0	0	0	0	1
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	1	0	0	0	0	0	1
		6	11	9	0	11	0	4	41
PANCREAS	DISEASE OF ORGAN	0	1	5	0	1	0	0	7
	AGE OF DONOR	8	13	18	0	10	0	0	49
	PRIOR FAMILY REQUEST	1	0	0	0	0	0	0	1
	STAFF OVERSIGHT	1	0	1	0	0	0	0	2
	LOGISTICS	0	0	2	0	11	3	8	24
	NON HEART BEATING DONOR	0	0	0	0	2	0	0	2
	FAMILY REFUSAL	0	1	0	0	0	0	0	1
		10	15	26	0	24	3	8	86
CORNEA	DISEASE OF ORGAN	0	0	1	0	0	0	0	1
	TRAUMA TO ORGAN	0	0	0	0	2	0	0	2
	AGE OF DONOR	0	0	1	0	1	0	1	3
	PRIOR FAMILY REQUEST	1	1	1	0	3	0	0	6
	STAFF OVERSIGHT	0	0	0	0	2	0	0	2
	STAFF RELUCTANCE	0	0	0	0	2	0	0	2
	LOGISTICS	0	0	0	0	0	2	0	2
	MEDICALLY UNSUITABLE	0	0	0	0	0	0	1	1
	NO SUITABLE RECIPIENT	0	0	0	0	1	0	0	1
FAMILY REFUSAL	1	8	1	0	0	0	0	10	
		2	9	4	0	11	2	2	30
BONE	DISEASE OF ORGAN	0	0	0	0	1	0	0	1
	AGE OF DONOR	3	1	12	0	7	0	3	26
	PRIOR FAMILY REQUEST	2	0	0	0	3	0	0	5
	STAFF OVERSIGHT	0	0	0	0	4	0	0	4
	STAFF RELUCTANCE	0	0	0	0	8	0	0	8
	LOGISTICS	1	58	25	0	1	3	0	88
	MEDICALLY UNSUITABLE	0	0	0	0	0	0	4	4
	FAMILY REFUSAL	0	3	1	0	2	0	0	6
		6	62	38	0	26	3	7	142

ORGANS RETRIEVED IN EACH DONOR STATE BY RETRIEVAL STATE TEAM

AUSTRALIA 1-DEC-89 to 31-DEC-98

ORGANS RETRIEVED	DONOR STATE	RETRIEVAL STATE TEAM							TOTAL
		QLD	NSW	VIC	TAS	SA	NT	WA	
KIDNEYS	QLD	729	56	23	0	2	0	0	810
	NSW	130	1237	40	0	6	0	0	1413
	VIC	49	23	782	0	0	0	0	854
	TAS	14	4	32	12	0	0	0	62
	SA	24	22	14	0	386	0	0	446
	NT	6	4	2	0	10	16	0	38
	WA	2	0	0	0	0	0	291	293
	NZ	98	36	34	0	0	0	0	168
		1052	1382	927	12	404	16	291	4084
LIVER	QLD	257	27	12	0	1	0	0	297
	NSW	79	300	26	0	4	0	0	409
	VIC	32	14	183	0	0	0	0	229
	TAS	7	3	9	0	0	0	0	19
	SA	12	10	9	0	92	0	0	123
	NT	3	2	2	0	3	0	0	10
	WA	4	1	1	0	0	0	69	75
	NZ	52	21	17	0	0	0	0	90
		446	378	259	0	100	0	69	1252
HEART	QLD	161	36	26	0	0	0	0	223
	NSW	6	348	29	0	0	0	0	383
	VIC	0	9	221	0	0	0	0	230
	TAS	1	0	20	0	0	0	0	21
	SA	13	33	56	0	0	0	5	107
	NT	1	1	6	0	0	0	1	9
	WA	1	5	13	0	0	0	34	53
	NZ	0	2	7	0	0	0	0	9
		183	434	378	0	0	0	40	1035
LUNGS	QLD	28	28	31	0	0	0	0	87
	NSW	2	170	13	0	0	0	0	185
	VIC	0	4	95	0	0	0	0	99
	TAS	0	0	11	0	0	0	0	11
	SA	2	26	33	0	0	0	1	62
	NT	1	0	7	0	0	0	1	9
	WA	0	4	10	0	0	0	20	34
	NZ	0	1	7	0	0	0	0	8
		33	233	207	0	0	0	22	495
LUNG (LEFT)	QLD	2	0	0	0	0	0	0	2
	NSW	0	7	0	0	0	0	0	7
	VIC	0	0	9	0	0	0	0	9
		2	7	9	0	0	0	0	18
LUNG (RIGHT)	QLD	1	1	1	0	0	0	0	3
	NSW	0	5	0	0	0	0	0	5
	VIC	0	0	6	0	0	0	0	6
		1	6	7	0	0	0	0	14
PANCREAS	QLD	4	2	0	0	0	0	0	6
	NSW	1	118	1	0	0	0	0	120
	VIC	1	2	66	0	0	0	0	69
	SA	0	1	1	0	8	0	0	10
	WA	1	0	0	0	0	0	18	19
		7	123	68	0	8	0	18	224
*****		1724	2563	1855	12	512	16	440	7122
TOTAL		1724	2563	1855	12	512	16	440	7122

ORGANS RETRIEVED IN EACH DONOR STATE BY RETRIEVAL STATE TEAM
AUSTRALIA 1-JAN-98 to 31-DEC-98

YEAR	ORGANS RETRIEVED	DONOR STATE	RETRIEVAL STATE TEAM							TOTAL
			QLD	NSW	VIC	TAS	SA	NT	WA	
1998	KIDNEYS	QLD	75	4	0	0	0	0	0	79
		NSW	4	119	2	0	0	0	0	125
		VIC	4	2	60	0	0	0	0	66
		SA	2	0	2	0	59	0	0	63
		NT	2	0	0	0	4	0	0	6
		WA	0	0	0	0	0	0	26	26
		NZ	0	0	6	0	0	0	0	6
			87	125	70	0	63	0	26	371
	LIVER	QLD	31	1	0	0	0	0	0	32
		NSW	4	39	2	0	0	0	0	45
		VIC	2	1	22	0	0	0	0	25
		SA	1	0	0	0	21	0	0	22
		NT	1	0	0	0	2	0	0	3
		WA	0	0	0	0	0	0	12	12
		NZ	0	0	3	0	0	0	0	3
			39	41	27	0	23	0	12	142
	HEART	QLD	12	2	1	0	0	0	0	15
		NSW	0	20	2	0	0	0	0	22
		VIC	0	0	17	0	0	0	0	17
		SA	2	2	5	0	0	0	1	10
		NT	0	0	1	0	0	0	1	2
		WA	0	1	1	0	0	0	7	9
		NZ	0	0	2	0	0	0	0	2
			14	25	29	0	0	0	9	77
	LUNGS	QLD	14	3	0	0	0	0	0	17
		NSW	1	17	1	0	0	0	0	19
		VIC	0	0	16	0	0	0	0	16
		SA	1	4	4	0	0	0	0	9
		NT	0	0	2	0	0	0	1	3
		WA	0	1	0	0	0	0	4	5
		NZ	0	0	2	0	0	0	0	2
			16	25	25	0	0	0	5	71
	LUNG (LEFT)	VIC	0	0	1	0	0	0	0	1
			0	0	1	0	0	0	0	1
	LUNG (RIGHT)	QLD	0	0	1	0	0	0	0	1
		NSW	0	1	0	0	0	0	0	1
		VIC	0	0	1	0	0	0	0	1
			0	1	2	0	0	0	0	3
	PANCREAS	QLD	0	1	0	0	0	0	0	1
		NSW	0	16	0	0	0	0	0	16
		VIC	0	0	3	0	0	0	0	3
		SA	0	1	1	0	1	0	0	3
		WA	0	0	0	0	0	0	2	2
			0	18	4	0	1	0	2	25

	TOTAL		156	235	158	0	87	0	54	690

COMBINATION OF TRANSPLANTED SOLID ORGANS FROM DONOR STATES

AUSTRALIAN DONORS 1-JAN-89 to 31-DEC-98

ORGANS TRANSPLANTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
(L) KIDNEY/	8	9	6	0	5	0	0	28
(L) KIDNEY/(R) LIVER/(L) LIVER/	1	0	0	0	0	0	0	1
(L) KIDNEY/(R) LIVER/HEART/	1	0	0	0	0	0	0	1
(L) KIDNEY/HEART/	0	4	2	0	2	0	1	9
(L) KIDNEY/HEART/LUNGS/	1	0	1	0	0	0	0	2
(L) KIDNEY/LIVER/	7	8	3	1	2	0	0	21
(L) KIDNEY/LIVER/HEART/	1	1	2	0	1	0	0	5
(L) KIDNEY/LIVER/HEART/(L) LUNG/	0	0	1	0	0	0	0	1
(L) KIDNEY/LIVER/HEART/LUNGS/	0	1	1	0	0	0	1	3
(L) KIDNEY/LIVER/HEART/LUNGS/PANCREAS	0	0	0	0	1	0	0	1
(L) KIDNEY/LIVER/LUNGS/	1	1	0	0	0	0	0	2
(L) KIDNEY/LUNGS/	0	0	0	0	0	1	0	1
(R) KIDNEY/	0	8	10	1	3	0	2	24
(R) KIDNEY/(R) LIVER/HEART/	1	0	0	0	0	0	0	1
(R) KIDNEY/(R) LUNG/	0	0	1	0	0	0	0	1
(R) KIDNEY/HEART/	0	3	0	0	0	0	0	3
(R) KIDNEY/HEART/LUNGS/	0	1	0	0	0	0	0	1
(R) KIDNEY/LIVER/	2	4	1	0	0	0	0	7
(R) KIDNEY/LIVER/HEART/	1	1	4	0	1	0	2	9
(R) KIDNEY/LIVER/HEART/(R) LUNG/(L) LUNG/	1	0	0	0	0	0	0	1
(R) LUNG/(L) LUNG/	0	0	1	0	0	0	0	1
HEART/	3	4	4	0	3	0	0	14
HEART/LUNGS/	1	1	0	0	1	0	0	3
KIDNEYS/	69	181	121	4	61	4	63	503
KIDNEYS/(L) LIVER/	1	0	0	0	0	0	0	1
KIDNEYS/(L) LIVER/HEART/	3	0	0	0	0	0	0	3
KIDNEYS/(L) LUNG/	0	1	1	0	0	0	0	2
KIDNEYS/(R) LIVER/	3	0	0	0	0	0	0	3
KIDNEYS/(R) LIVER/(L) LIVER/	4	0	0	0	0	0	0	4
KIDNEYS/(R) LIVER/(L) LIVER/HEART/	8	0	1	0	0	0	1	10
KIDNEYS/(R) LIVER/(L) LIVER/HEART/(R) LUNG/	1	0	0	0	0	0	0	1
KIDNEYS/(R) LIVER/(L) LIVER/HEART/(R) LUNG/(L) LUNG/	3	0	0	0	0	0	0	3
KIDNEYS/(R) LIVER/(L) LIVER/HEART/LUNGS/	5	2	0	0	0	0	0	7
KIDNEYS/(R) LIVER/(L) LIVER/LUNGS/	1	0	0	0	0	0	0	1
KIDNEYS/(R) LIVER/HEART/	7	0	0	0	2	0	0	9
KIDNEYS/(R) LIVER/HEART/(L) LUNG/	1	0	0	0	0	0	0	1
KIDNEYS/(R) LIVER/HEART/LUNGS/	3	0	0	0	0	0	0	3
KIDNEYS/(R) LIVER/HEART/LUNGS/PANCREAS	2	0	0	0	0	0	0	2
KIDNEYS/(R) LIVER/LUNGS/	2	0	0	0	0	0	0	2
KIDNEYS/(R) LUNG/(L) LUNG/	0	1	0	0	1	0	0	2
KIDNEYS/HEART/	39	57	59	7	26	1	6	195
KIDNEYS/HEART/(L) LUNG/	2	2	2	0	1	0	0	7
KIDNEYS/HEART/(L) LUNG/PANCREAS	0	1	0	0	0	0	0	1
KIDNEYS/HEART/(R) LUNG/	0	1	1	0	1	0	0	3
KIDNEYS/HEART/(R) LUNG/(L) LUNG/	2	4	1	0	1	1	0	9
KIDNEYS/HEART/(R) LUNG/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/HEART/LUNGS/	5	21	11	2	7	2	3	51
KIDNEYS/HEART/LUNGS/PANCREAS	0	4	1	0	0	0	0	5
KIDNEYS/HEART/PANCREAS	0	11	6	0	0	0	0	17
KIDNEYS/LIVER/	78	86	43	3	33	4	23	270
KIDNEYS/LIVER/(L) LUNG/	3	0	0	0	0	0	0	3
KIDNEYS/LIVER/(R) LUNG/	1	0	3	0	0	0	0	4
KIDNEYS/LIVER/(R) LUNG/(L) LUNG/	3	2	2	0	1	1	0	9
KIDNEYS/LIVER/HEART/	86	98	55	4	22	1	13	279
KIDNEYS/LIVER/HEART/(L) LUNG/	3	2	3	0	4	0	0	12
KIDNEYS/LIVER/HEART/(L) LUNG/PANCREAS	1	4	0	0	0	0	0	5
KIDNEYS/LIVER/HEART/(R) LUNG/	2	10	9	0	2	0	0	23
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/	8	21	4	2	5	0	3	43
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/PANCREAS	0	3	2	0	0	0	0	5
KIDNEYS/LIVER/HEART/(R) LUNG/PANCREAS	0	3	0	0	0	0	0	3
KIDNEYS/LIVER/HEART/LUNGS/	26	70	43	6	23	3	22	193
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	1	23	7	0	0	0	0	31
KIDNEYS/LIVER/HEART/PANCREAS	0	25	2	0	0	0	0	27
KIDNEYS/LIVER/LUNGS/	8	10	6	0	12	0	4	40
KIDNEYS/LIVER/LUNGS/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/PANCREAS	0	12	2	0	1	0	0	15
KIDNEYS/LUNGS/	0	4	3	0	1	0	0	8
KIDNEYS/PANCREAS	0	3	1	0	1	0	0	5
LIVER/	2	8	3	0	3	0	2	18
LIVER/(R) LUNG/(L) LUNG/	0	0	1	0	0	0	0	1
LIVER/HEART/	2	2	0	0	3	0	0	7
LIVER/HEART/LUNGS/	1	1	0	0	0	1	0	3
LIVER/LUNGS/	0	1	0	1	1	0	0	3
LUNGS/	0	0	2	0	0	0	0	2
	415	720	434	31	231	19	146	1996

COMBINATION OF TRANSPLANTED SOLID ORGANS FROM DONOR STATES
AUSTRALIAN DONORS 1-JAN-98 to 31-DEC-98

ORGANS TRANSPLANTED	QLD	NSW	VIC	TAS	SA	NT	WA	TOTAL
(L) KIDNEY/	0	0	0	0	2	0	0	2
(L) KIDNEY/HEART/	0	0	0	0	0	0	1	1
(L) KIDNEY/LIVER/	0	0	0	0	2	0	0	2
(L) KIDNEY/LIVER/HEART/	0	1	1	0	0	0	0	2
(L) KIDNEY/LIVER/HEART/LUNGS/PANCREAS	0	0	0	0	1	0	0	1
(L) KIDNEY/LIVER/LUNGS/	1	0	0	0	0	0	0	1
(R) KIDNEY/LIVER/	0	2	0	0	0	0	0	2
(R) KIDNEY/LIVER/HEART/(R) LUNG/(L) LUNG/	1	0	0	0	0	0	0	1
(R) LUNG/(L) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/	7	16	9	0	9	0	0	41
KIDNEYS/(L) LUNG/	0	1	0	0	0	0	0	1
KIDNEYS/(R) LIVER/(L) LIVER/HEART/	2	0	1	0	0	0	1	4
KIDNEYS/(R) LIVER/(L) LIVER/HEART/LUNGS/	1	0	0	0	0	0	0	1
KIDNEYS/(R) LIVER/(L) LIVER/LUNGS/	1	0	0	0	0	0	0	1
KIDNEYS/(R) LIVER/LUNGS/	1	0	0	0	0	0	0	1
KIDNEYS/HEART/	1	1	3	0	1	0	0	6
KIDNEYS/HEART/(R) LUNG/(L) LUNG/	0	1	0	0	0	0	0	1
KIDNEYS/HEART/LUNGS/	1	1	0	0	2	0	0	4
KIDNEYS/HEART/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/	11	17	6	0	6	0	4	44
KIDNEYS/LIVER/(R) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/(R) LUNG/(L) LUNG/	0	1	0	0	0	1	0	2
KIDNEYS/LIVER/HEART/	1	2	0	0	1	0	3	7
KIDNEYS/LIVER/HEART/(L) LUNG/	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/HEART/(L) LUNG/PANCREAS	1	1	0	0	0	0	0	2
KIDNEYS/LIVER/HEART/(R) LUNG/	1	0	2	0	0	0	0	3
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/	0	2	2	0	1	0	1	6
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/PANCREAS	0	0	1	0	0	0	0	1
KIDNEYS/LIVER/HEART/LUNGS/	5	3	2	0	3	2	3	18
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	0	6	1	0	0	0	0	7
KIDNEYS/LIVER/HEART/PANCREAS	0	4	0	0	0	0	0	4
KIDNEYS/LIVER/LUNGS/	4	4	2	0	2	0	0	12
KIDNEYS/LIVER/PANCREAS	0	0	0	0	1	0	0	1
KIDNEYS/PANCREAS	0	1	0	0	0	0	0	1
LIVER/	0	1	1	0	2	0	0	4
LIVER/(R) LUNG/(L) LUNG/	0	0	1	0	0	0	0	1
LIVER/HEART/	0	0	0	0	1	0	0	1
LIVER/HEART/LUNGS/	1	0	0	0	0	0	0	1
LUNGS/	0	0	2	0	0	0	0	2
	40	65	38	0	34	3	13	193

OUTCOME OF ORGANS RETRIEVED IN AUSTRALIA

1-JAN-89 to 31-DEC-98

YEAR	OUTCOME	KIDNEYS		(L)	(R)	HEART	LUNGS		PANC	CORNEA	BONE	HEART VALVES	TOTAL	
		LIVER	LIVER	LIVER	LUNG		LUNG							
1989	NOT USED	2	3	0	0	0	0	0	0	2	3	0	0	10
	RESEARCH	0	3	0	0	0	1	0	0	23	0	0	0	27
	STORED	0	0	0	0	0	0	0	0	0	22	8	24	54
	TRANSPLANTED	443	95	1	1	98	14	0	0	7	263	3	0	925
	UNKNOWN	0	0	0	0	0	0	0	0	0	18	0	1	19
	UNUSEABLE	6	0	0	0	0	0	0	0	0	6	0	0	12
		451	101	1	1	98	15	0	0	32	312	11	25	1047
1990	EN BLOC	5	0	0	0	0	0	0	0	0	0	0	0	5
	NOT USED	4	1	0	0	0	0	2	2	0	18	0	0	27
	RESEARCH	1	2	0	0	0	0	0	0	9	2	0	0	14
	STORED	0	0	0	0	0	0	0	0	0	6	7	24	37
	TRANSPLANTED	383	72	0	0	102	13	2	2	9	226	1	3	813
	UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	1	1
	UNUSEABLE	2	0	0	0	0	0	0	0	0	0	0	0	2
		395	75	0	0	102	13	4	4	18	252	8	28	899
1991	EN BLOC	1	0	0	0	0	0	0	0	0	0	0	0	1
	NOT USED	3	0	0	0	0	0	3	3	0	1	0	0	10
	RESEARCH	0	3	0	0	0	0	0	0	16	1	0	0	20
	STORED	0	0	0	0	0	0	0	0	0	22	19	28	69
	TRANSPLANTED	395	101	1	1	108	21	10	6	8	171	0	1	823
	UNKNOWN	0	0	0	0	0	0	0	0	0	14	0	0	14
	UNUSEABLE	4	6	0	0	0	0	0	0	0	25	0	0	35
		403	110	1	1	108	21	13	9	24	234	19	29	972
1992	EN BLOC	2	0	0	0	0	0	0	0	0	0	0	0	2
	NOT USED	2	4	0	0	0	0	1	3	1	3	0	2	16
	RESEARCH	0	5	0	0	0	0	0	0	8	0	0	0	13
	STORED	0	0	0	0	0	0	0	0	2	22	18	31	73
	TRANSPLANTED	401	114	0	0	119	23	13	12	10	200	0	0	892
	UNKNOWN	0	0	0	0	0	0	0	0	0	2	0	0	2
	UNUSEABLE	15	1	0	0	0	1	0	0	0	30	1	0	48
		420	124	0	0	119	24	14	15	21	257	19	33	1046
1993	EN BLOC	1	0	0	0	0	0	0	0	0	0	0	0	1
	NOT USED	5	1	0	5	0	0	1	1	0	4	0	1	18
	RESEARCH	1	2	1	0	0	0	0	0	8	11	3	0	26
	STORED	0	0	0	0	0	0	0	0	0	12	23	28	63
	TRANSPLANTED	393	105	5	1	115	47	13	11	11	224	0	2	927
	UNKNOWN	0	0	0	0	0	0	0	0	0	0	0	2	2
	UNUSEABLE	24	4	0	0	1	0	1	0	1	17	0	0	48
		424	112	6	6	116	47	15	12	20	268	26	33	1085

OUTCOME OF ORGANS RETRIEVED IN AUSTRALIA

1-JAN-89 to 31-DEC-98

YEAR	OUTCOME	KIDNEYS	(L) (R)		HEART	LUNGS	(L) (R)		PANC REAS	CORNEA	BONE	HEART VALVES	TOTAL	
			LIVER	LIVER			LUNG	LUNG						
1994	EN BLOC	3	0	0	0	0	0	0	0	0	0	0	3	
	NOT USED	4	1	0	4	0	0	2	0	10	0	0	21	
	RESEARCH	0	2	0	0	0	1	0	0	2	4	2	11	
	STORED	0	0	0	0	0	0	0	0	42	16	29	87	
	TRANSPLANTED	335	109	6	2	103	56	11	10	15	114	0	4	765
	UNKNOWN	0	0	0	0	0	0	0	0	0	2	0	0	2
	UNUSEABLE	4	2	0	0	2	2	1	0	2	22	0	1	36
		346	114	6	6	105	59	12	12	19	194	18	34	925
1995	EN BLOC	3	0	0	0	0	0	0	0	0	0	0	3	
	NOT USED	4	2	1	6	0	2	0	1	2	0	0	18	
	RESEARCH	0	0	1	0	0	0	0	0	1	0	1	3	
	STORED	0	0	0	0	0	0	0	0	32	7	19	58	
	TRANSPLANTED	346	108	10	6	108	51	12	14	13	140	0	1	809
	UNKNOWN	0	0	0	0	0	0	0	0	0	4	0	0	4
	UNUSEABLE	8	7	0	0	3	0	2	1	0	21	0	0	42
		361	117	12	12	111	53	14	16	14	199	8	20	937
1996	EN BLOC	3	0	0	0	0	0	0	0	0	0	0	3	
	NOT USED	6	0	1	1	0	1	3	1	1	0	0	14	
	RESEARCH	0	1	0	1	0	1	0	1	11	0	0	15	
	STORED	0	0	0	0	0	0	0	0	25	15	21	61	
	TRANSPLANTED	361	100	10	9	94	44	12	16	12	166	0	5	829
	UNKNOWN	0	0	0	0	0	0	0	0	0	4	0	0	4
	UNUSEABLE	15	2	0	0	0	0	2	0	2	5	0	0	26
		385	103	11	11	94	46	17	18	25	197	15	26	948
1997	EN BLOC	2	0	0	0	0	0	0	0	0	0	0	2	
	NOT USED	2	2	0	2	2	0	0	0	2	2	0	12	
	RESEARCH	1	0	0	0	0	0	1	0	8	4	0	14	
	STORED	0	0	0	0	0	0	0	0	0	48	16	32	96
	TRANSPLANTED	355	116	9	5	93	47	20	18	16	128	0	1	808
	UNKNOWN	0	0	0	0	0	0	0	0	0	4	0	0	4
	UNUSEABLE	6	3	0	2	3	0	0	0	0	14	0	0	28
		366	121	9	9	98	47	21	18	26	196	16	33	960
1998	DOUBLE ADULT	1	0	0	0	0	0	0	0	0	0	0	1	
	EN BLOC	2	0	0	0	0	0	0	0	0	0	0	2	
	NOT USED	3	6	0	0	0	1	1	1	0	6	0	18	
	RESEARCH	0	0	0	0	0	0	0	0	7	2	0	9	
	STORED	0	0	0	0	0	0	0	0	0	47	19	36	102
	TRANSPLANTED	354	125	7	6	73	49	17	17	18	139	1	1	807
	UNUSEABLE	5	1	0	1	2	2	0	2	0	12	1	1	27
		365	132	7	7	75	52	18	20	25	206	21	38	966

TRANSPLANTED SOLID ORGANS 1-JAN-89 to 31-DEC-98

DONOR STATE TO DESTINATION STATE

ORGANS TRANSPLANTED	DONOR STATE	DESTINATION STATE						
		QLD	NSW	VIC	SA	WA	AUST	NZ
KIDNEY	QLD	586	102	68	25	6	787	0
	NSW	96	1041	146	69	13	1365	0
	VIC	63	126	569	47	9	814	0
	TAS	2	15	40	0	1	58	0
	SA	30	50	45	292	7	424	1
	NT	2	7	2	24	0	35	0
	WA	3	18	10	1	250	282	0
	NZ	1	10	2	0	0	13	616
		-----	-----	-----	-----	-----	-----	-----
		783	1369	882	458	286	3778	617
LIVER	QLD	163	39	27	4	5	238	0
	NSW	91	248	40	10	8	397	0
	VIC	50	41	98	3	6	198	0
	TAS	7	3	7	0	0	17	0
	SA	30	29	18	26	12	115	0
	NT	4	2	3	1	0	10	0
	WA	10	16	7	1	36	70	0
	NZ	76	49	31	0	0	156	14
		-----	-----	-----	-----	-----	-----	-----
		431	427	231	45	67	1201	14
LIVER (LEFT)	QLD	40	2	1	0	0	43	0
	NSW	2	0	0	0	0	2	0
	VIC	1	0	0	0	0	1	0
	SA	1	1	0	0	0	2	0
	WA	0	0	0	0	1	1	0
	NZ	4	1	0	0	0	5	0
			-----	-----	-----	-----	-----	-----
		48	4	1	0	1	54	0
LIVER (RIGHT)	QLD	26	0	0	1	0	27	0
	NSW	2	0	0	0	0	2	0
	VIC	0	0	0	0	1	1	0
	WA	0	0	0	0	1	1	0
	NZ	1	0	0	0	0	1	0
			-----	-----	-----	-----	-----	-----
		29	0	0	1	2	32	0
HEART	QLD	147	39	35	0	0	221	0
	NSW	7	345	29	0	0	381	0
	VIC	2	15	206	0	0	223	0
	TAS	1	0	20	0	0	21	0
	SA	15	30	53	0	8	106	0
	NT	1	1	6	0	1	9	0
	WA	1	10	25	0	16	52	0
	NZ	0	4	7	0	0	11	92
		-----	-----	-----	-----	-----	-----	-----
		174	444	381	0	25	1024	92

TRANSPLANTED SOLID ORGANS 1-JAN-89 to 31-DEC-98

DONOR STATE TO DESTINATION STATE

ORGANS TRANSPLANTED	DONOR STATE	DESTINATION STATE						
		QLD	NSW	VIC	SA	WA	AUST	NZ
LUNGS	QLD	15	18	24	0	0	57	0
	NSW	2	121	17	0	0	140	0
	VIC	0	4	72	0	0	76	0
	TAS	0	0	9	0	0	9	0
	SA	1	22	23	0	0	46	0
	NT	2	0	5	0	0	7	0
	WA	1	10	19	0	0	30	0
	NZ	1	3	6	0	0	10	12
		----	----	----	----	----	----	----
		22	178	175	0	0	375	12
LUNG (LEFT)	QLD	2	7	12	0	0	21	0
	NSW	0	37	8	0	0	45	0
	VIC	0	2	24	0	0	26	0
	TAS	0	0	2	0	0	2	0
	SA	0	5	6	0	0	11	0
	NT	0	1	1	0	0	2	0
	WA	0	0	3	0	0	3	0
	NZ	0	1	1	0	0	2	5
		----	----	----	----	----	----	----
		2	53	57	0	0	112	5
LUNG (RIGHT)	QLD	3	9	15	0	0	27	0
	NSW	0	32	9	0	0	41	0
	VIC	0	0	18	0	0	18	0
	TAS	0	1	1	0	0	2	0
	SA	0	3	10	0	0	13	0
	NT	0	0	2	0	0	2	0
	WA	0	0	3	0	0	3	0
	NZ	0	1	2	0	0	3	7
		----	----	----	----	----	----	----
		3	46	60	0	0	109	7
PANCREAS	QLD	0	4	0	0	0	4	0
	NSW	0	89	0	0	0	89	0
	VIC	0	0	23	0	0	23	0
	SA	0	1	1	1	0	3	0
	NZ	0	0	0	0	0	0	1
		----	----	----	----	----	----	----
		0	94	24	1	0	119	1
*****		----	----	----	----	----	----	----
TOTAL		1492	2615	1811	505	381	6804	748

TRANSPLANTED SOLID ORGANS 1-JAN-98 to 31-DEC-98

DONOR STATE TO DESTINATION STATE

ORGANS YEAR	TRANSPLANTED	DONOR STATE	DESTINATION STATE							
			QLD	NSW	VIC	SA	WA	AUST	NZ	
1998	KIDNEY	QLD	63	6	4	1	2	76	0	
		NSW	2	109	9	4	1	125	0	
		VIC	1	6	51	4	3	65	0	
		SA	1	3	3	48	2	57	0	
		NT	0	0	0	6	0	6	0	
		WA	0	3	2	1	19	25	0	
		NZ	0	3	1	0	0	4	75	
			---	---	---	---	---	---	---	
			67	130	70	64	27	358	75	
		LIVER	QLD	16	5	5	0	0	26	0
			NSW	7	33	3	1	0	44	0
			VIC	6	4	9	1	1	21	0
			SA	6	5	2	5	2	20	0
			NT	1	0	1	1	0	3	0
			WA	0	1	0	0	10	11	0
			NZ	4	4	8	0	0	16	14
			---	---	---	---	---	---	---	
			40	52	28	8	13	141	14	
		LIVER (LEFT)	QLD	5	0	0	0	0	5	0
			VIC	1	0	0	0	0	1	0
			WA	0	0	0	0	1	1	0
			---	---	---	---	---	---	---	
		6	0	0	0	1	7	0		
	LIVER (RIGHT)	QLD	4	0	0	0	0	4	0	
		VIC	0	0	0	0	1	1	0	
		WA	0	0	0	0	1	1	0	
		---	---	---	---	---	---	---		
		4	0	0	0	2	6	0		
	HEART	QLD	7	5	3	0	0	15	0	
		NSW	1	19	2	0	0	22	0	
		VIC	0	2	13	0	0	15	0	
		SA	2	2	5	0	1	10	0	
		NT	0	0	1	0	1	2	0	
		WA	0	1	1	0	7	9	0	
		NZ	0	1	2	0	0	3	10	
		---	---	---	---	---	---	---		
		10	30	27	0	9	76	10		
	LUNGS	QLD	8	3	4	0	0	15	0	
		NSW	1	12	1	0	0	14	0	
		VIC	0	0	7	0	0	7	0	
		SA	1	4	3	0	0	8	0	
		NT	1	0	1	0	0	2	0	
		WA	1	2	0	0	0	3	0	
		NZ	1	1	2	0	0	4	2	
			---	---	---	---	---	---	---	
		13	22	18	0	0	53	2		
	LUNG (LEFT)	QLD	0	1	1	0	0	2	0	
		NSW	0	3	1	0	0	4	0	
		VIC	0	1	7	0	0	8	0	
		SA	0	0	1	0	0	1	0	
		NT	0	0	1	0	0	1	0	
		WA	0	0	1	0	0	1	0	
		NZ	0	0	0	0	0	0	1	
		---	---	---	---	---	---	---		
		0	5	12	0	0	17	1		
	LUNG (RIGHT)	QLD	0	0	2	0	0	2	0	
		NSW	0	4	2	0	0	6	0	
		VIC	0	0	6	0	0	6	0	
		SA	0	0	1	0	0	1	0	
		NT	0	0	1	0	0	1	0	
		WA	0	0	1	0	0	1	0	
		NZ	0	0	0	0	0	0	2	
		---	---	---	---	---	---	---		
		0	4	13	0	0	17	2		
	PANCREAS	QLD	0	1	0	0	0	1	0	
		NSW	0	12	0	0	0	12	0	
		VIC	0	0	3	0	0	3	0	
		SA	0	1	1	0	0	2	0	
		NZ	0	0	0	0	0	0	1	
		---	---	---	---	---	---	---		
		0	14	4	0	0	18	1		
*****			---	---	---	---	---	---		
TOTAL			140	257	172	72	52	693	105	

NEW ZEALAND

APPENDIX II

DONOR GENDER NUMBERS AND AGE GROUPS

NEW ZEALAND 1-JAN-93 to 31-DEC-98

YEAR	AGE GROUP	FEMALE	MALE	TOTAL	YEAR	AGE GROUP	FEMALE	MALE	TOTAL
1993	00-04	1	0	1	1996	05-14	2	0	2
	15-24	2	4	6		15-24	5	7	12
	25-34	2	2	4		25-34	1	2	3
	35-44	5	1	6		35-44	2	1	3
	45-54	6	8	14		45-54	4	5	9
	55-64	1	1	2		55-64	4	2	6
	65-74	1	0	1		65-74	1	0	1
		18	16	34			19	17	36
1994	00-04	0	1	1	1997	05-14	3	1	4
	15-24	1	3	4		15-24	1	13	14
	25-34	1	7	8		25-34	3	1	4
	35-44	3	4	7		35-44	0	3	3
	45-54	5	5	10		45-54	5	4	9
	55-64	2	2	4		55-64	4	3	7
	65-74	0	1	1		65-74	0	1	1
		12	23	35			16	26	42
1995	05-14	2	2	4	1998	00-04	1	0	1
	15-24	2	7	9		05-14	0	4	4
	25-34	2	4	6		15-24	0	8	8
	35-44	3	4	7		25-34	3	4	7
	45-54	2	3	5		35-44	3	5	8
	55-64	1	1	2		45-54	3	5	8
	65-74	0	2	2		55-64	4	5	9
		12	23	35	65-74	1	0	1	
						15	31	46	

NUMBER OF DONORS FROM EACH HOSPITAL

NEW ZEALAND 1-JAN-93 to 31-DEC-98

DONOR HOSPITAL	1993	1994	1995	1996	1997	1998	TOTAL
AUCKLAND HOSPITAL - NEW ZEALAND	7	5	9	8	13	14	56
BLENHEIM HOSPITAL - NEW ZEALAND	0	0	0	0	0	2	2
CHRISTCHURCH HOSPITAL - NEW ZEALAND	5	6	1	4	6	6	28
DUNEDIN HOSPITAL - NEW ZEALAND	4	2	5	4	1	2	18
HASTINGS HOSPITAL - NEW ZEALAND	1	0	0	1	0	2	4
LOWER HUTT HOSPITAL - NEW ZEALAND	0	0	1	0	0	1	2
INVERCARGILL HOSPITAL - NEW ZEALAND	0	2	0	1	1	0	4
MIDDLEMORE HOSPITAL - NEW ZEALAND	3	0	2	2	5	4	16
NELSON HOSPITAL - NEW ZEALAND	1	2	2	0	2	3	10
PALMERSTON HOSPITAL - NEW ZEALAND	2	2	5	5	1	2	17
NEW PLYMOUTH HOSPITAL - NEW ZEALAND	1	0	0	0	0	0	1
ROTORUA HOSPITAL - NEW ZEALAND	1	1	0	1	1	1	5
STARSHIP CHILDREN'S HOSPITAL - NEW ZEALAND	0	0	0	0	1	1	2
TAURANGA HOSPITAL - NEW ZEALAND	3	0	1	1	1	1	7
TIMARU HOSPITAL - NEW ZEALAND	0	0	0	0	3	1	4
WELLINGTON HOSPITAL - NEW ZEALAND	3	7	4	4	4	3	25
WANGANUI HOSPITAL - NEW ZEALAND	1	0	0	0	0	1	2
WHANGAREI HOSPITAL - NEW ZEALAND	0	1	1	0	2	0	4
WAIKATO HOSPITAL - HAMILTON - NEW ZEALAND	2	7	4	5	1	2	21
	34	35	35	36	42	46	228

REASON ORGANS NOT REQUESTED - NEW ZEALAND

1-JAN-93 to 31-DEC-98

ORGANS NOT REQUESTED	REASON NOT REQUESTED	TOTAL
LIVER	DISEASE OF ORGAN	4
	TRAUMA TO ORGAN	6
	AGE OF DONOR	20
	PRIOR FAMILY REQUEST	3
	DONOR REFUSAL	1
	STAFF OVERSIGHT	3
	STAFF RELUCTANCE	5
	CORONER REFUSAL	1
	INOTROPIC SUPPORT	1
	LOGISTICS	20
	MEDICALLY UNSUITABLE	8
	NO SUITABLE RECIPIENT	17
	FAMILY REFUSAL	11
	-----	100
HEART	DISEASE OF ORGAN	4
	TRAUMA TO ORGAN	2
	AGE OF DONOR	31
	PRIOR FAMILY REQUEST	9
	DONOR REFUSAL	1
	CORONER REFUSAL	1
	INOTROPIC SUPPORT	1
	LOGISTICS	1
	NO SUITABLE RECIPIENT	8
	FAMILY REFUSAL	13
	-----	71
LUNGS	DISEASE OF ORGAN	9
	TRAUMA TO ORGAN	41
	AGE OF DONOR	24
	PRIOR FAMILY REQUEST	7
	DONOR REFUSAL	1
	STAFF OVERSIGHT	1
	CORONER REFUSAL	1
	DONOR UNSTABLE	1
	LOGISTICS	94
	MEDICALLY UNSUITABLE	5
	NO SUITABLE RECIPIENT	18
	FAMILY REFUSAL	8
	-----	210
PANCREAS	AGE OF DONOR	13
	PRIOR FAMILY REQUEST	10
	DONOR REFUSAL	1
	STAFF OVERSIGHT	3
	STAFF RELUCTANCE	4
	CORONER REFUSAL	1
	LOGISTICS	237
	NO SUITABLE RECIPIENT	2
	FAMILY REFUSAL	11
	-----	282
CORNEA	DISEASE OF ORGAN	2
	TRAUMA TO ORGAN	4
	AGE OF DONOR	1
	PRIOR FAMILY REQUEST	37
	DONOR REFUSAL	2
	STAFF OVERSIGHT	10
	STAFF RELUCTANCE	8
	CORONER REFUSAL	2
	LOGISTICS	29
	MEDICALLY UNSUITABLE	1
	NO SUITABLE RECIPIENT	1
	UNKNOWN	7
	FAMILY REFUSAL	34
	-----	138

ORGANS NOT REQUESTED	REASON NOT REQUESTED	TOTAL
BONE	TRAUMA TO ORGAN	1
	AGE OF DONOR	28
	PRIOR FAMILY REQUEST	16
	DONOR REFUSAL	1
	STAFF OVERSIGHT	5
	STAFF RELUCTANCE	6
	CORONER REFUSAL	2
	LOGISTICS	178
	MEDICALLY UNSUITABLE	1
	FAMILY REFUSAL	18
	-----	256

**1-JAN-98 to 31-DEC-98
NEW ZEALAND**

ORGANS NOT REQUESTED	REASON NOT REQUESTED	TOTAL
LIVER	TRAUMA TO ORGAN	1
	CORONER REFUSAL	1
	NO SUITABLE RECIPIENT	2
	FAMILY REFUSAL	1
	-----	5
HEART	AGE OF DONOR	5
	PRIOR FAMILY REQUEST	2
	CORONER REFUSAL	1
	NO SUITABLE RECIPIENT	2
	FAMILY REFUSAL	1
	-----	11
LUNGS	DISEASE OF ORGAN	1
	TRAUMA TO ORGAN	10
	AGE OF DONOR	3
	PRIOR FAMILY REQUEST	1
	CORONER REFUSAL	1
	NO SUITABLE RECIPIENT	1
	FAMILY REFUSAL	1
	-----	18
PANCREAS	AGE OF DONOR	5
	PRIOR FAMILY REQUEST	1
	CORONER REFUSAL	1
	LOGISTICS	15
	NO SUITABLE RECIPIENT	2
	FAMILY REFUSAL	2
	-----	26
CORNEA	TRAUMA TO ORGAN	1
	PRIOR FAMILY REQUEST	3
	STAFF OVERSIGHT	1
	STAFF RELUCTANCE	1
	CORONER REFUSAL	2
	LOGISTICS	6
	MEDICALLY UNSUITABLE	1
	FAMILY REFUSAL	6
	-----	21
BONE	AGE OF DONOR	2
	PRIOR FAMILY REQUEST	2
	STAFF RELUCTANCE	1
	CORONER REFUSAL	2
	LOGISTICS	21
	FAMILY REFUSAL	2
	-----	30

SOLID ORGANS RETRIEVED - NEW ZEALAND

1-JAN-93 to 31-DEC-98

ORGANS RETRIEVED	TOTAL
(L) KIDNEY/	1
(L) KIDNEY/LIVER/	1
(L) KIDNEY/LIVER/HEART/	1
KIDNEYS/	63
KIDNEYS/HEART/	9
KIDNEYS/HEART/LUNGS/	6
KIDNEYS/HEART/LUNGS/PANCREAS	1
KIDNEYS/HEART/PANCREAS	1
KIDNEYS/LIVER/	74
KIDNEYS/LIVER/HEART/	34
KIDNEYS/LIVER/HEART/LUNGS/	17
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	1
KIDNEYS/LIVER/HEART/PANCREAS	3
KIDNEYS/LIVER/LUNGS/	6
KIDNEYS/LIVER/PANCREAS	1
KIDNEYS/LUNGS/	4
KIDNEYS/LUNGS/PANCREAS	1
KIDNEYS/PANCREAS	2
-----	226

1-JAN-98 to 31-DEC-98

ORGANS RETRIEVED	TOTAL
(L) KIDNEY/LIVER/	1
KIDNEYS/	9
KIDNEYS/HEART/	2
KIDNEYS/HEART/LUNGS/	1
KIDNEYS/LIVER/	19
KIDNEYS/LIVER/HEART/	4
KIDNEYS/LIVER/HEART/LUNGS/	4
KIDNEYS/LIVER/HEART/LUNGS/PANCREAS	1
KIDNEYS/LIVER/HEART/PANCREAS	1
KIDNEYS/LIVER/LUNGS/	2
-----	44

ORGANS RETRIEVED IN NEW ZEALAND BY RETRIEVAL STATE TEAM

1-JAN-93 to 31-DEC-98

DONOR YEAR	ORGANS RETRIEVED	COUNTRY	RETRIEVAL TEAM FROM								TOTAL
			NZ	QLD	NSW	VIC	TAS	SA	NT	WA	
1993	KIDNEYS	NZ	52	14	0	2	0	0	0	0	68
	LIVER		9	7	0	1	0	0	0	0	17
	HEART		8	0	0	0	0	0	0	0	8
	LUNGS		1	0	0	0	0	0	0	0	1
	PANCREAS		1	0	0	0	0	0	0	0	1
			71	21	0	3	0	0	0	0	95
1994	KIDNEYS	NZ	38	26	2	2	0	0	0	0	68
	LIVER		7	13	1	1	0	0	0	0	22
	HEART		9	0	0	1	0	0	0	0	10
	LUNGS		3	0	0	1	0	0	0	0	4
			57	39	3	5	0	0	0	0	104
1995	KIDNEYS	NZ	52	14	2	2	0	0	0	0	70
	LIVER		13	7	1	1	0	0	0	0	22
	HEART		8	0	2	2	0	0	0	0	12
	LUNGS		4	0	1	3	0	0	0	0	8
	PANCREAS		4	0	0	0	0	0	0	0	4
			81	21	6	8	0	0	0	0	116
1996	KIDNEYS	NZ	48	8	8	8	0	0	0	0	72
	LIVER		11	4	4	4	0	0	0	0	23
	HEART		13	0	0	1	0	0	0	0	14
	LUNGS		10	0	0	0	0	0	0	0	10
	PANCREAS		2	0	0	0	0	0	0	0	2
			84	12	12	13	0	0	0	0	121
1997	KIDNEYS	NZ	68	6	4	6	0	0	0	0	84
	LIVER		14	3	2	3	0	0	0	0	22
	HEART		15	0	0	1	0	0	0	0	16
	LUNGS		4	0	0	1	0	0	0	0	5
	PANCREAS		1	0	0	0	0	0	0	0	1
			102	9	6	11	0	0	0	0	128
1998	KIDNEYS	NZ	81	0	0	6	0	0	0	0	87
	LIVER		29	0	0	3	0	0	0	0	32
	HEART		11	0	0	2	0	0	0	0	13
	LUNGS		6	0	0	2	0	0	0	0	8
	PANCREAS		2	0	0	0	0	0	0	0	2
			129	0	0	13	0	0	0	0	142

REASON ORGANS NOT RETRIEVED - NEW ZEALAND

1-JAN-93 to 31-DEC-98			1-JAN-98 to 31-DEC-98			
ORGANS NOT RETRIEVED	REASON NOT RETRIEVED	TOTAL	YEAR	ORGANS NOT RETRIEVED	REASON NOT RETRIEVED	TOTAL
KIDNEY (LEFT)	DISEASE OF ORGAN	1	1998	KIDNEY (LEFT)	DISEASE OF ORGAN	1
	ABDOMINAL HAEMORRHAGE	1			ABDOMINAL HAEMORRHAGE	1
		----				----
		2				2
KIDNEY (RIGHT)	DISEASE OF ORGAN	2		KIDNEY (RIGHT)	DISEASE OF ORGAN	1
	TRAUMA TO ORGAN	1			TRAUMA TO ORGAN	1
	ABDOMINAL HAEMORRHAGE	1			ABDOMINAL HAEMORRHAGE	1
	PRIOR FAMILY REQUEST	1				----
		----				3
		5		LIVER	DISEASE OF ORGAN	2
LIVER	NO SUITABLE RECIPIENT	9			ABDOMINAL HAEMORRHAGE	1
	DISEASE OF ORGAN	7			MEDICALLY UNSUITABLE	6
	INOTROPIC SUPPORT	1				----
	LOGISTICS	7				9
	ABDOMINAL HAEMORRHAGE	1		HEART	NO SUITABLE RECIPIENT	4
	DONOR UNSTABLE	1			DISEASE OF ORGAN	2
	MEDICALLY UNSUITABLE	10			TRAUMA TO ORGAN	2
	AGE OF DONOR	1			CARDIAC ARREST	1
		----			INOTROPIC SUPPORT	1
		37			ABG	1
HEART	NO SUITABLE RECIPIENT	33			MEDICALLY UNSUITABLE	6
	DISEASE OF ORGAN	10			AGE OF DONOR	5
	TRAUMA TO ORGAN	13				----
	CARDIAC ARREST	1				22
	HYPOTENSION	1		LUNGS	NO SUITABLE RECIPIENT	2
	INOTROPIC SUPPORT	1			DISEASE OF ORGAN	2
	ECG	6			TRAUMA TO ORGAN	4
	ABG	1			CARDIAC ARREST	1
	LOGISTICS	5			INOTROPIC SUPPORT	1
	DONOR UNSTABLE	1			ABG	4
	MEDICALLY UNSUITABLE	11			CHEST XRAY	1
	AGE OF DONOR	16			MEDICALLY UNSUITABLE	3
		----			AGE OF DONOR	2
		99				----
						20
LUNGS	NO SUITABLE RECIPIENT	17		PANCREAS	NO SUITABLE RECIPIENT	10
	DISEASE OF ORGAN	7			LOGISTICS	6
	TRAUMA TO ORGAN	19			AGE OF DONOR	1
	CARDIAC ARREST	1				----
	INOTROPIC SUPPORT	1				17
	ABG	18		CORNEA	LOGISTICS	3
	CHEST XRAY	2				
	LOGISTICS	4		BONE	LOGISTICS	6
	MEDICALLY UNSUITABLE	8			MEDICALLY UNSUITABLE	1
	AGE OF DONOR	3			AGE OF DONOR	2
		----				----
		80				9
PANCREAS	NO SUITABLE RECIPIENT	10				
	LOGISTICS	16				
	NO CONSENT FOR RESEARCH	1				
	AGE OF DONOR	1				

		28				
CORNEA	NO SUITABLE RECIPIENT	5				
	LOGISTICS	13				

		18				
CORNEA (RIGHT)	TRAUMA TO ORGAN	3				
BONE	NO SUITABLE RECIPIENT	2				
	MALIGNANCY	1				
	LOGISTICS	16				
	MEDICALLY UNSUITABLE	1				
	AGE OF DONOR	3				

		23				

**COMBINATION OF TRANSPLANTED SOLID ORGANS
FROM NEW ZEALAND DONORS**

1-JAN-89 to 31-DEC-98

ORGANS TRANSPLANTED	TOTAL

(L) KIDNEY/	7
(L) KIDNEY/HEART/	2
(L) KIDNEY/LIVER/	3
(L) KIDNEY/LIVER/HEART/	1
(L) KIDNEY/LIVER/HEART/LUNGS/	1
(L) KIDNEY/LUNGS/	1
(R) KIDNEY/	1
(R) KIDNEY/(L) LUNG/	1
KIDNEYS/	95
KIDNEYS/(L) LIVER/HEART/	1
KIDNEYS/(R) LIVER/	3
KIDNEYS/(R) LIVER/HEART/	1
KIDNEYS/(R) LIVER/HEART/(L) LUNG/	1
KIDNEYS/(R) LUNG/	2
KIDNEYS/HEART/	32
KIDNEYS/HEART/(L) LUNG/	2
KIDNEYS/HEART/LUNGS/	5
KIDNEYS/LIVER/	100
KIDNEYS/LIVER/(L) LUNG/	1
KIDNEYS/LIVER/(R) LUNG/	1
KIDNEYS/LIVER/HEART/	41
KIDNEYS/LIVER/HEART/(L) LUNG/	2
KIDNEYS/LIVER/HEART/(R) LUNG/	1
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/	2
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/PANCREAS	1
KIDNEYS/LIVER/HEART/LUNGS/	10
KIDNEYS/LIVER/LUNGS/	4
KIDNEYS/LUNGS/	1
LIVER/	2

	325

**COMBINATION OF TRANSPLANTED SOLID ORGANS
FROM NEW ZEALAND DONORS**

1-JAN-98 to 31-DEC-98

ORGANS TRANSPLANTED	TOTAL

(L) KIDNEY/LIVER/	2
(L) KIDNEY/LIVER/HEART/LUNGS/	1
KIDNEYS/	9
KIDNEYS/HEART/	2
KIDNEYS/HEART/LUNGS/	1
KIDNEYS/LIVER/	15
KIDNEYS/LIVER/(L) LUNG/	1
KIDNEYS/LIVER/HEART/	5
KIDNEYS/LIVER/HEART/(R) LUNG/(L) LUNG/PANCREAS	1
KIDNEYS/LIVER/HEART/LUNGS/	3
KIDNEYS/LIVER/LUNGS/	1
LIVER/	1

	42

OUTCOME OF ORGANS RETRIEVED IN NEW ZEALAND

1-JAN-93 to 31-DEC-98

YEAR	OUTCOME	KIDNEYS	(L) (R)		HEART	(L) (R)		PANC	CORNEA	BONE	HEART	TOTAL		
			LIVER	LIVER		LUNG	LUNG						REAS	VALVES
1993	NOT USED	2	0	0	1	0	0	1	0	0	1	0	5	
	RESEARCH	0	0	0	0	0	0	0	0	1	0	0	1	
	STORED	0	0	0	0	0	0	0	0	0	29	3	16	48
	TRANSPLANTED	64	15	1	0	8	0	0	1	0	1	0	0	90
	UNUSEABLE	2	1	0	0	0	0	0	0	0	1	0	0	4
		68	16	1	1	8	0	1	1	1	32	3	16	148
1994	EN BLOC	1	0	0	0	0	0	0	0	0	0	0	1	
	NOT USED	0	0	0	1	0	0	2	0	0	0	0	3	
	RESEARCH	0	0	0	1	0	0	0	0	0	0	0	1	
	STORED	0	0	0	0	0	0	0	0	0	30	6	11	47
	TRANSPLANTED	67	19	2	0	10	1	1	3	0	2	0	0	105
	UNUSEABLE	0	1	0	0	0	0	0	0	0	0	0	0	1
		68	20	2	2	10	1	3	3	0	32	6	11	158
1995	NOT USED	0	0	1	0	0	0	1	1	0	0	0	3	
	RESEARCH	0	0	0	0	0	0	0	0	4	0	0	4	
	STORED	0	0	0	0	0	0	0	0	0	30	7	11	48
	TRANSPLANTED	70	20	0	1	12	6	1	1	0	0	0	0	111
	UNUSEABLE	0	1	0	0	0	0	0	0	0	0	0	0	1
		70	21	1	1	12	6	2	2	4	30	7	11	167
1996	NOT USED	1	0	0	2	0	0	0	2	0	0	0	5	
	RESEARCH	0	0	0	0	0	0	0	0	2	0	0	2	
	STORED	0	0	0	0	0	0	0	0	0	22	6	16	44
	TRANSPLANTED	71	21	2	0	14	7	3	1	0	0	0	0	119
		72	21	2	2	14	7	3	3	2	22	6	16	170
1997	NOT USED	0	0	0	0	0	0	2	1	0	0	0	3	
	RESEARCH	0	0	0	0	0	0	0	0	1	0	0	1	
	STORED	0	0	0	0	0	0	0	0	0	29	6	17	52
	TRANSPLANTED	83	22	0	0	16	2	1	2	0	2	0	0	128
	UNUSEABLE	1	0	0	0	0	0	0	0	0	0	0	1	2
		84	22	0	0	16	2	3	3	1	31	6	18	186
1998	EN BLOC	1	0	0	0	0	0	0	0	0	0	0	1	
	NOT USED	3	2	0	0	0	0	1	0	0	0	0	6	
	RESEARCH	0	0	0	0	0	0	0	0	1	0	0	1	
	STORED	0	0	0	0	0	0	0	0	0	25	2	18	45
	TRANSPLANTED	79	30	0	0	13	6	1	2	1	1	0	0	133
	UNUSEABLE	4	0	0	0	0	0	0	0	0	0	0	0	4
		87	32	0	0	13	6	2	2	2	26	2	18	190

TRANSPLANTED SOLID ORGANS 1-JAN-89 to 31-DEC-98

DONOR STATE TO DESTINATION STATE

ORGANS TRANSPLANTED	DONOR STATE	DESTINATION STATE						
		QLD	NSW	VIC	SA	WA	AUST	NZ
KIDNEY	QLD	586	102	68	25	6	787	0
	NSW	96	1041	146	69	13	1365	0
	VIC	63	126	569	47	9	814	0
	TAS	2	15	40	0	1	58	0
	SA	30	50	45	292	7	424	1
	NT	2	7	2	24	0	35	0
	WA	3	18	10	1	250	282	0
	NZ	1	10	2	0	0	13	616
		----	----	----	----	----	----	----
		783	1369	882	458	286	3778	617
LIVER	QLD	163	39	27	4	5	238	0
	NSW	91	248	40	10	8	397	0
	VIC	50	41	98	3	6	198	0
	TAS	7	3	7	0	0	17	0
	SA	30	29	18	26	12	115	0
	NT	4	2	3	1	0	10	0
	WA	10	16	7	1	36	70	0
	NZ	76	49	31	0	0	156	14
		----	----	----	----	----	----	----
		431	427	231	45	67	1201	14
LIVER (LEFT)	QLD	40	2	1	0	0	43	0
	NSW	2	0	0	0	0	2	0
	VIC	1	0	0	0	0	1	0
	SA	1	1	0	0	0	2	0
	WA	0	0	0	0	1	1	0
	NZ	4	1	0	0	0	5	0
			----	----	----	----	----	----
		48	4	1	0	1	54	0
LIVER (RIGHT)	QLD	26	0	0	1	0	27	0
	NSW	2	0	0	0	0	2	0
	VIC	0	0	0	0	1	1	0
	WA	0	0	0	0	1	1	0
	NZ	1	0	0	0	0	1	0
		----	----	----	----	----	----	----
		29	0	0	1	2	32	0
HEART	QLD	147	39	35	0	0	221	0
	NSW	7	345	29	0	0	381	0
	VIC	2	15	206	0	0	223	0
	TAS	1	0	20	0	0	21	0
	SA	15	30	53	0	8	106	0
	NT	1	1	6	0	1	9	0
	WA	1	10	25	0	16	52	0
	NZ	0	4	7	0	0	11	92
		----	----	----	----	----	----	----
		174	444	381	0	25	1024	92

TRANSPLANTED SOLID ORGANS 1-JAN-89 to 31-DEC-98
DONOR STATE TO DESTINATION STATE

ORGANS TRANSPLANTED	DONOR STATE	DESTINATION STATE						
		QLD	NSW	VIC	SA	WA	AUST	NZ
LUNGS	QLD	15	18	24	0	0	57	0
	NSW	2	121	17	0	0	140	0
	VIC	0	4	72	0	0	76	0
	TAS	0	0	9	0	0	9	0
	SA	1	22	23	0	0	46	0
	NT	2	0	5	0	0	7	0
	WA	1	10	19	0	0	30	0
	NZ	1	3	6	0	0	10	12
		----	----	----	----	----	----	----
		22	178	175	0	0	375	12
LUNG (LEFT)	QLD	2	7	12	0	0	21	0
	NSW	0	37	8	0	0	45	0
	VIC	0	2	24	0	0	26	0
	TAS	0	0	2	0	0	2	0
	SA	0	5	6	0	0	11	0
	NT	0	1	1	0	0	2	0
	WA	0	0	3	0	0	3	0
	NZ	0	1	1	0	0	2	5
		----	----	----	----	----	----	----
		2	53	57	0	0	112	5
LUNG (RIGHT)	QLD	3	9	15	0	0	27	0
	NSW	0	32	9	0	0	41	0
	VIC	0	0	18	0	0	18	0
	TAS	0	1	1	0	0	2	0
	SA	0	3	10	0	0	13	0
	NT	0	0	2	0	0	2	0
	WA	0	0	3	0	0	3	0
	NZ	0	1	2	0	0	3	7
		----	----	----	----	----	----	----
		3	46	60	0	0	109	7
PANCREAS	QLD	0	4	0	0	0	4	0
	NSW	0	89	0	0	0	89	0
	VIC	0	0	23	0	0	23	0
	SA	0	1	1	1	0	3	0
	NZ	0	0	0	0	0	0	1
		----	----	----	----	----	----	----
		0	94	24	1	0	119	1
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TOTAL		1492	2615	1811	505	381	6804	748

TRANSPLANTED SOLID ORGANS 1-JAN-98 to 31-DEC-98

DONOR STATE TO DESTINATION STATE

ORGANS YEAR	TRANSPLANTED	DONOR STATE	DESTINATION STATE						
			QLD	NSW	VIC	SA	WA	AUST	NZ
1998	KIDNEY	QLD	63	6	4	1	2	76	0
		NSW	2	109	9	4	1	125	0
		VIC	1	6	51	4	3	65	0
		SA	1	3	3	48	2	57	0
		NT	0	0	0	6	0	6	0
		WA	0	3	2	1	19	25	0
		NZ	0	3	1	0	0	4	75
			---	---	---	---	---	---	---
			67	130	70	64	27	358	75
	LIVER	QLD	16	5	5	0	0	26	0
		NSW	7	33	3	1	0	44	0
		VIC	6	4	9	1	1	21	0
		SA	6	5	2	5	2	20	0
		NT	1	0	1	1	0	3	0
		WA	0	1	0	0	10	11	0
		NZ	4	4	8	0	0	16	14
			---	---	---	---	---	---	---
			40	52	28	8	13	141	14
	LIVER (LEFT)	QLD	5	0	0	0	0	5	0
		VIC	1	0	0	0	0	1	0
		WA	0	0	0	0	1	1	0
			---	---	---	---	---	---	---
			6	0	0	0	1	7	0
	LIVER (RIGHT)	QLD	4	0	0	0	0	4	0
		VIC	0	0	0	0	1	1	0
		WA	0	0	0	0	1	1	0
			---	---	---	---	---	---	---
			4	0	0	0	2	6	0
	HEART	QLD	7	5	3	0	0	15	0
		NSW	1	19	2	0	0	22	0
		VIC	0	2	13	0	0	15	0
		SA	2	2	5	0	1	10	0
		NT	0	0	1	0	1	2	0
		WA	0	1	1	0	7	9	0
		NZ	0	1	2	0	0	3	10
			---	---	---	---	---	---	---
			10	30	27	0	9	76	10
	LUNGS	QLD	8	3	4	0	0	15	0
		NSW	1	12	1	0	0	14	0
		VIC	0	0	7	0	0	7	0
		SA	1	4	3	0	0	8	0
		NT	1	0	1	0	0	2	0
		WA	1	2	0	0	0	3	0
		NZ	1	1	2	0	0	4	2
			---	---	---	---	---	---	---
			13	22	18	0	0	53	2
	LUNG (LEFT)	QLD	0	1	1	0	0	2	0
		NSW	0	3	1	0	0	4	0
		VIC	0	1	7	0	0	8	0
		SA	0	0	1	0	0	1	0
		NT	0	0	1	0	0	1	0
		WA	0	0	1	0	0	1	0
		NZ	0	0	0	0	0	0	1
			---	---	---	---	---	---	---
			0	5	12	0	0	17	1
	LUNG (RIGHT)	QLD	0	0	2	0	0	2	0
		NSW	0	4	2	0	0	6	0
		VIC	0	0	6	0	0	6	0
		SA	0	0	1	0	0	1	0
		NT	0	0	1	0	0	1	0
		WA	0	0	1	0	0	1	0
		NZ	0	0	0	0	0	0	2
			---	---	---	---	---	---	---
			0	4	13	0	0	17	2
	PANCREAS	QLD	0	1	0	0	0	1	0
		NSW	0	12	0	0	0	12	0
		VIC	0	0	3	0	0	3	0
		SA	0	1	1	0	0	2	0
		NZ	0	0	0	0	0	0	1
			---	---	---	---	---	---	---
			0	14	4	0	0	18	1
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TOTAL			140	257	172	72	52	693	105