

# Chapter 4

## *Donor Profile*



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

## DONATION PATHWAY

Table 4.1 contains a detailed description of organ donors in Australia in 2015 compared to 2014. Key observations are the gender discrepancy for DCD donors (where there are greater number or more males than females; the preponderance of Caucasian donors, and the distribution of blood groups (largely O and A).

**Table 4.1**

<b>Demographics of Deceased Donors in Australia 2014 - 2015</b>								
			<b>2014</b>			<b>2015</b>		
			<b>DBD</b>	<b>DCD</b>	<b>Total</b>	<b>DBD</b>	<b>DCD</b>	<b>Total</b>
<b>Australia</b>	<b>Gender</b>	<b>Male</b>	131(48%)	77(72%)	208 (55%)	185(59%)	74(62%)	259 (60%)
		<b>Female</b>	140(52%)	30(28%)	170 (45%)	130(41%)	46(38%)	176 (40%)
	<b>Age</b>	<b>0-4</b>	4(1%)		4 (1%)	5(2%)	1(1%)	6 (1%)
		<b>5-14</b>	8(3%)	2(2%)	10 (3%)	10(3%)	3(3%)	13 (3%)
		<b>15-24</b>	14(5%)	8(7%)	22 (6%)	23(7%)	10(8%)	33 (8%)
		<b>25-34</b>	39(14%)	14(13%)	53 (14%)	42(13%)	9(8%)	51 (12%)
		<b>35-44</b>	41(15%)	15(14%)	56 (15%)	48(15%)	11(9%)	59 (14%)
		<b>45-54</b>	63(23%)	27(25%)	90 (24%)	65(21%)	21(18%)	86 (20%)
		<b>55-64</b>	53(20%)	34(32%)	87 (23%)	63(20%)	43(36%)	106 (24%)
		<b>65-74</b>	38(14%)	7(7%)	45 (12%)	47(15%)	21(18%)	68 (16%)
	<b>75+</b>	11(4%)		11 (3%)	12(4%)	1(1%)	13 (3%)	
	<b>BMI (kg/m<sup>2</sup>)</b>	<b>Underweight (&lt;18.5)</b>	11(4%)	3(3%)	14 (4%)	12(4%)	5(4%)	17 (4%)
		<b>Normal (18.5-&lt;25)</b>	97(36%)	37(35%)	134 (35%)	117(37%)	42(35%)	159 (37%)
		<b>Overweight(25-&lt;30)</b>	106(39%)	35(33%)	141 (37%)	101(32%)	37(31%)	138 (32%)
		<b>Obese(&gt;=30)</b>	57(21%)	32(30%)	89 (24%)	85(27%)	35(29%)	120 (28%)
		<b>Unknown</b>					1(1%)	1 (0%)
	<b>Blood Group</b>	<b>A</b>	102(38%)	42(39%)	144 (38%)	126(40%)	48(40%)	174 (40%)
		<b>AB</b>	11(4%)	3(3%)	14 (4%)	10(3%)	5(4%)	15 (3%)
		<b>B</b>	27(10%)	13(12%)	40 (11%)	43(14%)	15(13%)	58 (13%)
		<b>O</b>	131(48%)	49(46%)	180 (48%)	136(43%)	52(43%)	188 (43%)
	<b>Ethnicity</b>	<b>Australian</b>	207(76%)	79(74%)	286 (76%)	237(75%)	89(74%)	326 (75%)
		<b>Australian Aboriginal</b>	4(1%)	3(3%)	7 (2%)	10(3%)	1(1%)	11 (3%)
		<b>New Zealander</b>	5(2%)	2(2%)	7 (2%)	4(1%)	1(1%)	5 (1%)
		<b>Māori</b>	1(0%)		1 (0%)		1(1%)	1 (0%)
<b>Pacific Islander</b>		2(0%)	2(2%)	4(1%)	4(1%)		4(1%)	
<b>European</b>		24(8%)	7(7%)	31(9%)	29(9%)	15(13%)	44(11%)	
<b>Middle East</b>		2(0%)		2(0%)	2(0%)	2(2%)	4(1%)	
<b>Asian</b>		15(5%)	10(10%)	25(7%)	23(7%)	9(9%)	32(7%)	
<b>American</b>		10(3%)	2(2%)	10(3%)	4(2%)	1(1%)	5(1%)	
<b>Other</b>	3(1%)	2(2%)	5 (1%)	2(1%)	1(1%)	3 (1%)		
<b>Cause of Death</b>	<b>Intracranial Haemorrhage</b>	131(48%)	29(27%)	160 (42%)	124(39%)	32(27%)	156 (36%)	
	<b>Traumatic Brain Injury</b>	38(14%)	15(14%)	53 (14%)	43(14%)	13(11%)	56 (13%)	
	<b>Cerebral Infarct</b>	21(8%)	12(11%)	33 (9%)	17(5%)	10(8%)	27 (6%)	
	<b>Cerebral Hypoxia / Ischaemia</b>	73(27%)	45(42%)	118 (31%)	126(40%)	46(38%)	172 (40%)	
	<b>Other Neurological Condition</b>	4(1%)	1(1%)	5 (1%)	5(2%)	4(3%)	9 (2%)	
	<b>Non-Neurological Condition</b>	4(1%)	5(5%)	9 (2%)		15(13%)	15 (3%)	

As of 2014, with the implementation of the EDR racial origin has been classified by Ethnicity according to the Australian Bureau of Statistics.

# DONATION PATHWAY

In New Zealand in 2014 there were six DCD donors. There was a lower proportion of donors <25 years, compared with Australia, but a similar proportion of donors ≥65 years. (Table 4.2).

**Table 4.2**

			Demographics of Deceased Donors in New Zealand 2014 - 2015					
			2014			2015		
			DBD	DCD	Total	DBD	DCD	Total
New Zealand	Gender	Male	26(65%)	5(83%)	31 (67%)	29(60%)	4(80%)	33 (62%)
		Female	14(35%)	1(17%)	15 (33%)	19(40%)	1(20%)	20 (38%)
	Age	0-4	1(3%)		1 (2%)			1 (2%)
		5-14	1(3%)		1 (2%)	1(2%)		1 (2%)
		15-24	7(18%)	1(17%)	8 (17%)	8(17%)	1(20%)	9 (17%)
		25-34	3(8%)		3 (7%)	7(15%)		7 (13%)
		35-44	6(15%)	1(17%)	7 (15%)	7(15%)	1(20%)	8 (15%)
		45-54	10(25%)	1(17%)	11 (24%)	7(15%)	2(40%)	9 (17%)
		55-64	6(15%)	3(50%)	9 (20%)	10(21%)	1(20%)	11 (21%)
		65-74	3(8%)		3 (7%)	7(15%)		7 (13%)
	75+	3(8%)		3 (7%)	1(2%)		1 (2%)	
	BMI (kg/m <sup>2</sup> )	Underweight (<18.5)				1(2%)		1 (2%)
		Normal (18.5-<25)	17(43%)	1(17%)	18 (39%)	25(52%)	3(60%)	28 (53%)
		Overweight(25-<30)	16(40%)	5(83%)	21 (46%)	16(33%)	2(40%)	18 (34%)
		Obese(≥30)	6(15%)		6 (13%)	6(13%)		6 (11%)
		Unknown	1(3%)		1 (2%)			
	Blood Group	A	22(55%)	1(17%)	23 (50%)	15(31%)	3(60%)	18 (34%)
		AB	2(5%)		2 (4%)	3(6%)		3 (6%)
		B		1(17%)	1 (2%)	5(10%)		5 (9%)
		O	16(40%)	4(67%)	20 (43%)	25(52%)	2(40%)	27 (51%)
Ethnicity	Australian	4(10%)		4 (9%)				
	New Zealander	22(55%)	5(83%)	27 (59%)	38(79%)	3(60%)	41 (77%)	
	Māori	6(15%)		6 (13%)	3(6%)	2(40%)	5 (9%)	
	Polynesian	1(3%)		1 (2%)				
	European	3(8%)	1(17%)	4(9%)	2(4%)		2(4%)	
	Asian - Filipino	1(3%)		1 (2%)	2(4%)		2 (4%)	
	American	2(6%)		2(4%)	3(6%)		3(6%)	
	Other	1(3%)		1 (2%)				
Cause of Death	Intracranial Haemorrhage	17(43%)	1(17%)	18 (39%)	24(50%)		24 (45%)	
	Traumatic Brain Injury	13(33%)	2(33%)	15 (33%)	10(21%)		10 (19%)	
	Cerebral Infarct	3(8%)		3 (7%)	2(4%)		2 (4%)	
	Cerebral Hypoxia / Ischaemia	5(13%)	3(50%)	8 (17%)	11(23%)	5(100%)	16 (30%)	
	Other Neurological Condition				1(2%)		1 (2%)	
	Non-Neurological Condition	2(5%)		2 (4%)				

As of 2014, with the implementation of the EDR racial origin has been classified by Ethnicity according to the Australian Bureau of Statistics.

## AGE AND GENDER DISTRIBUTION IN AUSTRALIA AND NEW ZEALAND

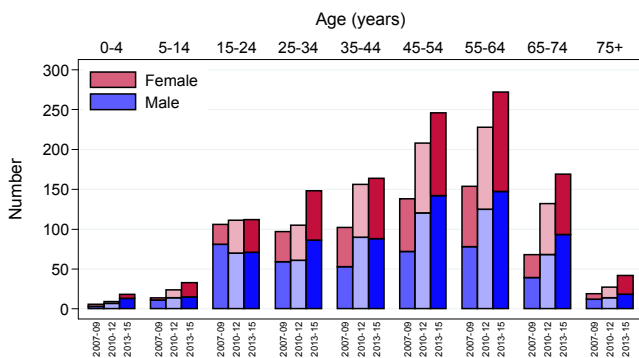
In Australia in 2015, 15.63% of donors (68) were 65-74 years of age and 2.99% (13 donors) were aged 75 years or older. The oldest donor was 87.4 years and the youngest 1.2 years. In New Zealand in 2015, 15.1% of donors (8) were 65 years or older. The age range was from 5.1 years to 79.6 years.

The mean age of donors in Australia in 2015 was 48.6 years. The mean age in New Zealand was 45.3 years. The mean age of donors in 1989 for Australia and New Zealand combined was 32.4 years and the age range was between 16.5 months and 69.5 years.

Figures 4.1 - 4.6 show donors according to age and gender in Australia and New Zealand for the years 2007-2009, 2010-2012 and 2013-2015.

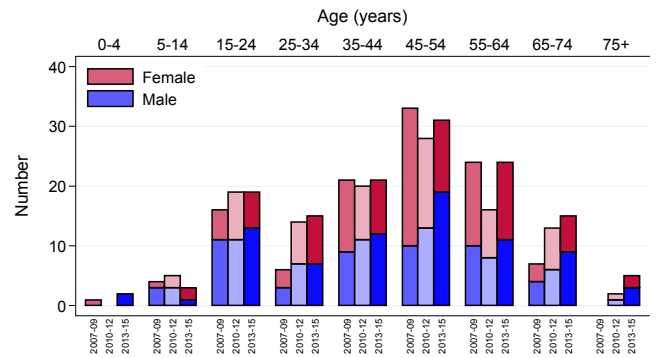
**Figure 4.1**

Age and Gender of Deceased Donors  
Australia 2007-2015



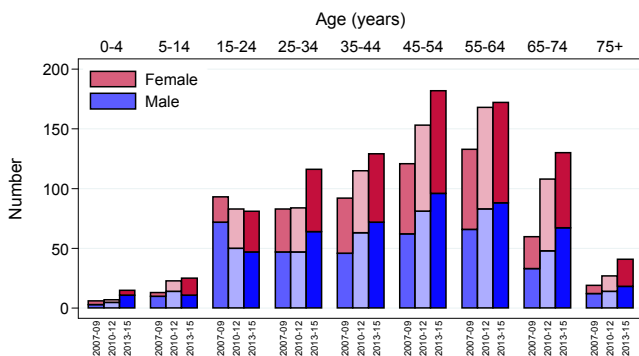
**Figure 4.2**

Age and Gender of Deceased Donors  
New Zealand 2007-2015



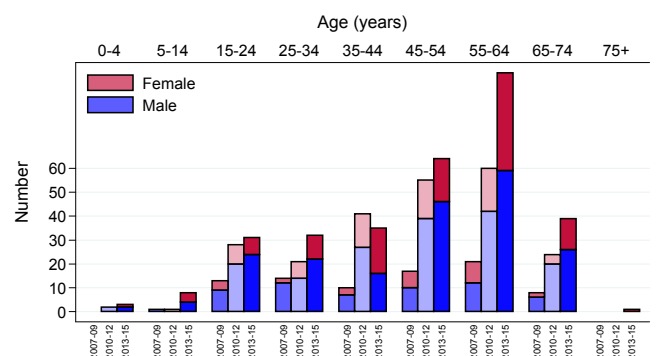
**Figure 4.3**

Age and Gender of Donors After Brain Death  
Australia 2007-2015



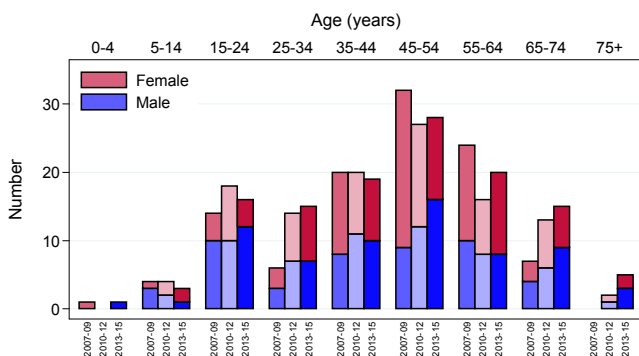
**Figure 4.4**

Age and Gender of Donors After Circulatory Death  
Australia 2007-2015



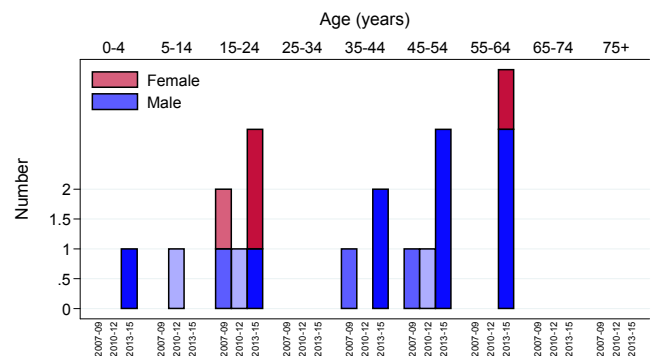
**Figure 4.5**

Age and Gender of Donors After Brain Death  
New Zealand 2007-2015



**Figure 4.6**

Age and Gender of Donors After Circulatory Death  
New Zealand 2007-2015



# DONATION PATHWAY

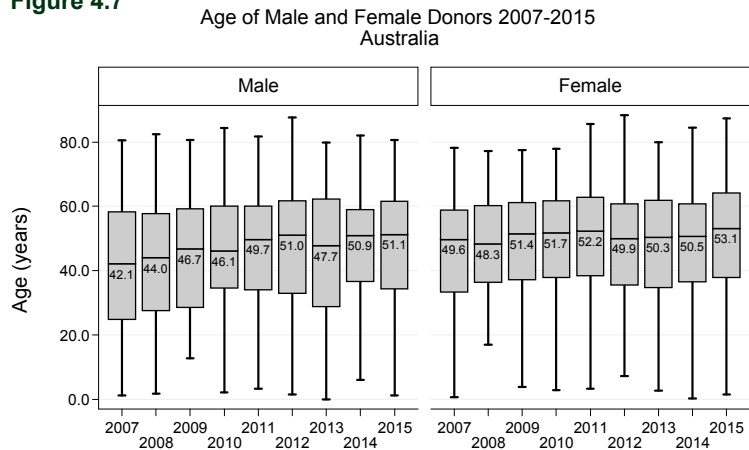
## Australia

The mean age of donors for Australia in 2015 was 48.6 years. Across Australian States the mean age ranged from 43.8 years in the Northern Territory to 52 years in New South Wales.

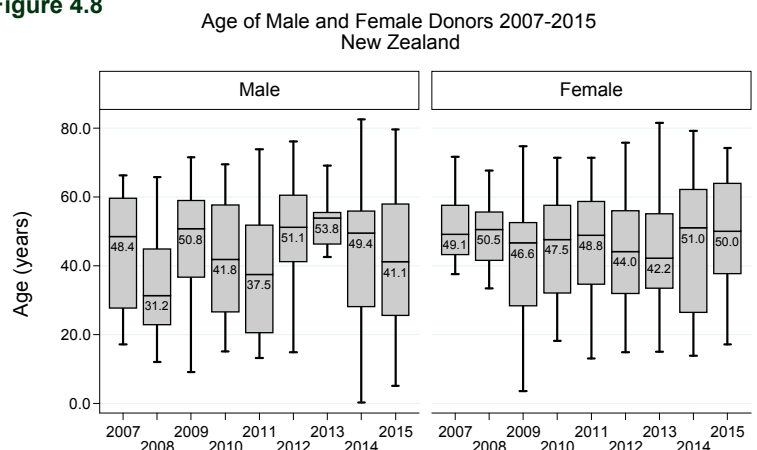
The median age of donors for Australian States in 2015 ranged from 36.8 years in the Northern Territory to 56.3 years in New South Wales.

The median age for Australian donors in 2015 was 51.3 years.

**Figure 4.7**



**Figure 4.8**



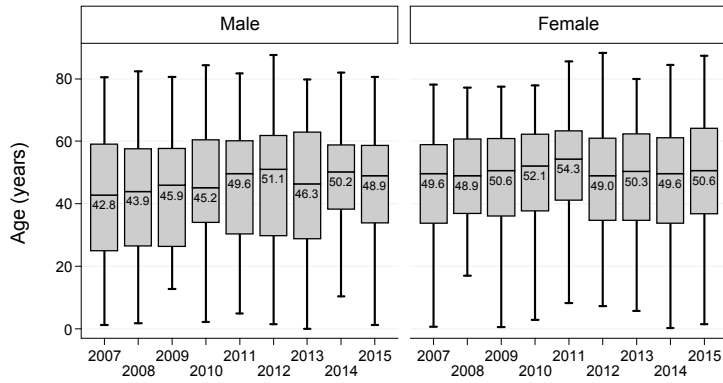
## New Zealand

For New Zealand the mean age of donors was 45.3 years.

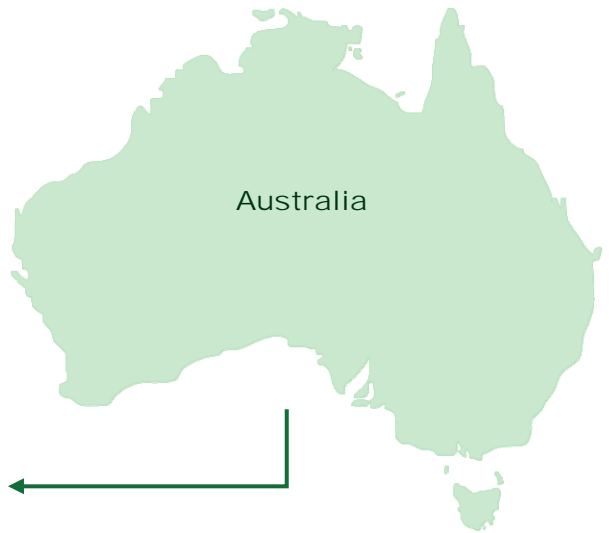
The median age for New Zealand was 47.1 years in 2015. There was one donor aged 75 years or over (down from 3 in 2014) and no donors aged less than 5 years.

# DONATION PATHWAY

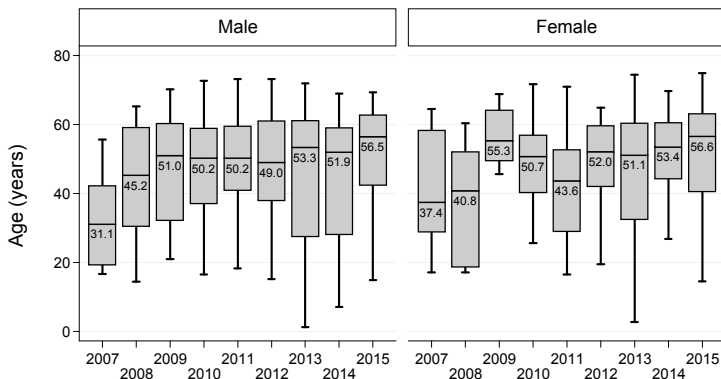
**Figure 4.9** Age of Male and Female Donors After Brain Death 2007-2015 Australia



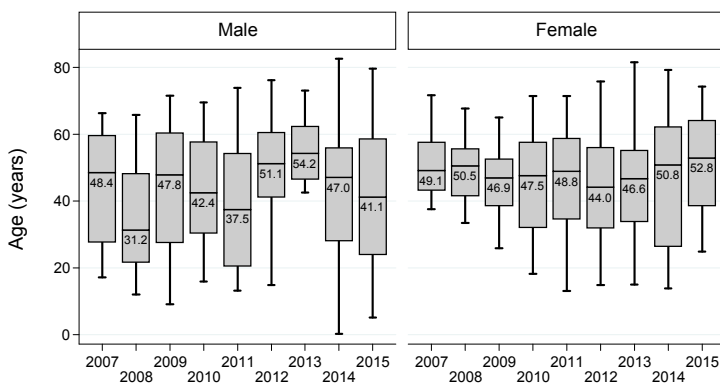
The age and gender of donors by donation pathway is shown per year from 2007 - 2015 for Australia and New Zealand in Figures 4.10 to 4.11.



**Figure 4.10** Age of Male and Female Donors After Circulatory Death 2007-2015 Australia

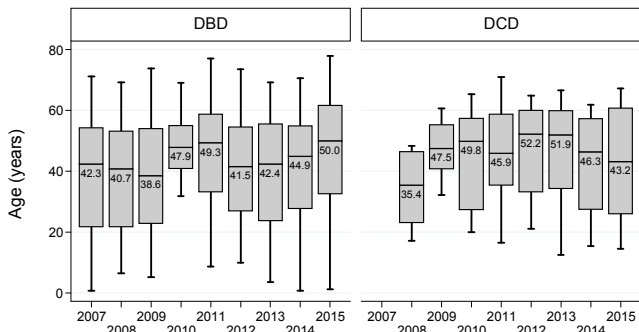


**Figure 4.11** Age of Male and Female Donors After Brain Death 2007-2015 New Zealand

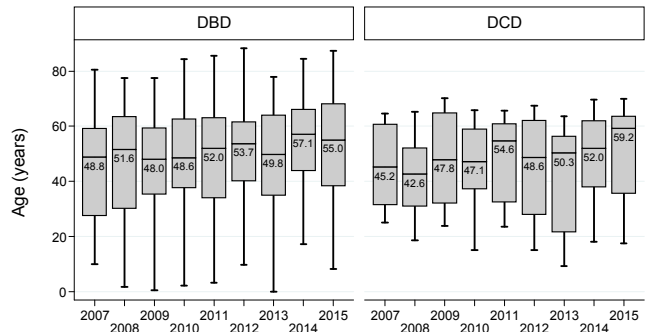


# DONATION PATHWAY

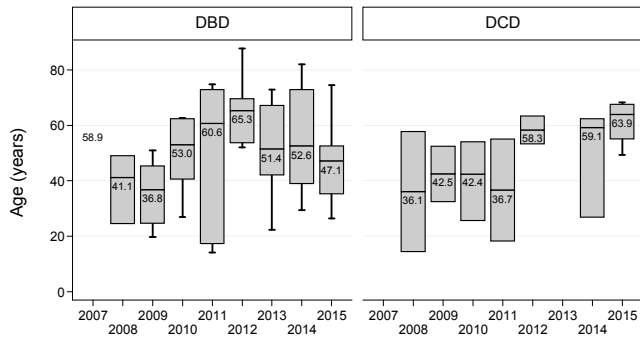
**Figure 4.12** Age of Deceased Donors 2007-2015 Queensland



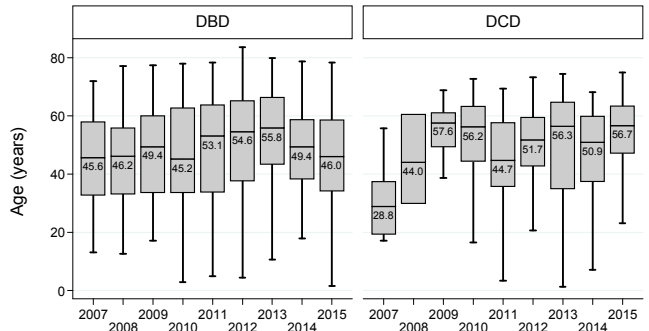
**Figure 4.13** Age of Deceased Donors 2007-2015 New South Wales



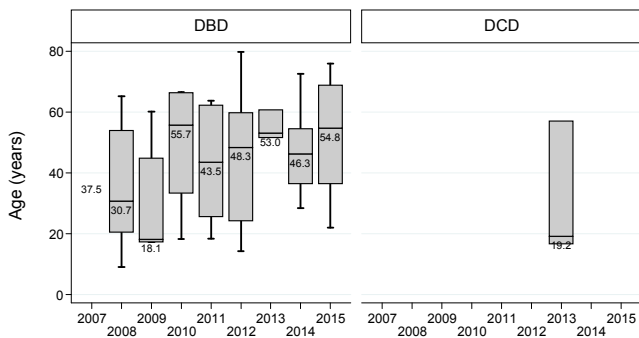
**Figure 4.14** Age of Deceased Donors 2007-2015 Australian Capital Territory



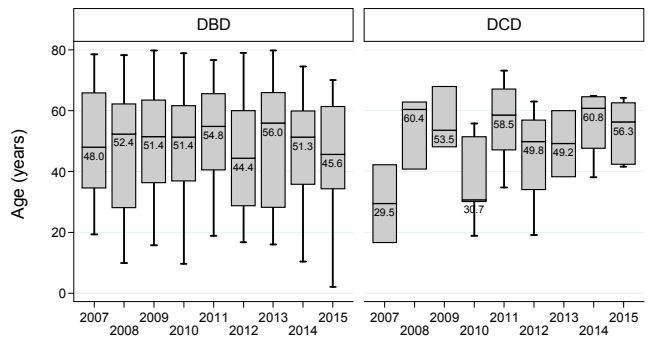
**Figure 4.15** Age of Deceased Donors 2007-2015 Victoria



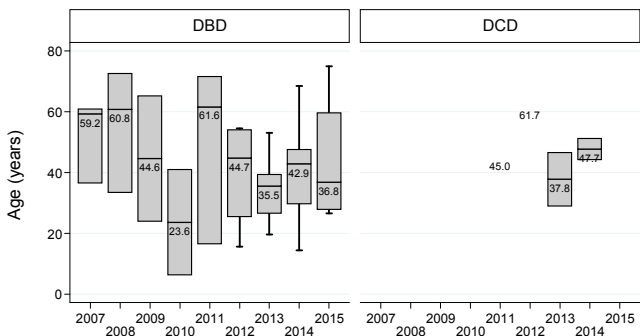
**Figure 4.16** Age of Deceased Donors 2007-2015 Tasmania



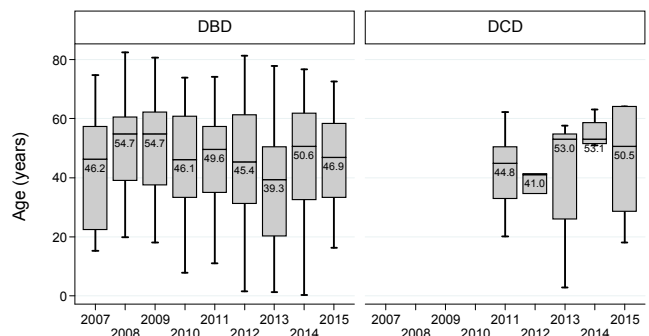
**Figure 4.17** Age of Deceased Donors 2007-2015 South Australia



**Figure 4.18** Age of Deceased Donors 2007-2015 Northern Territory

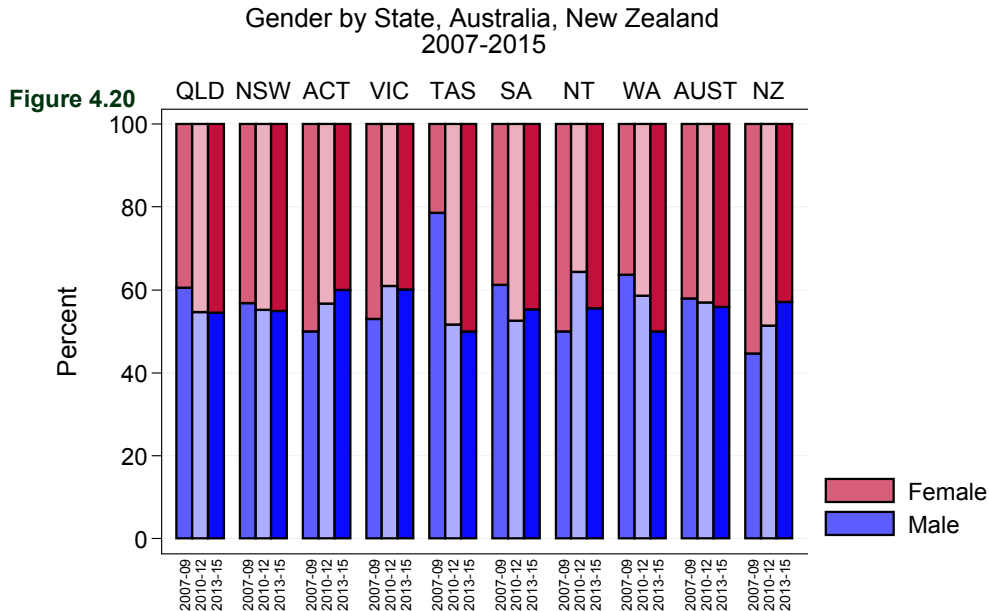


**Figure 4.19** Age of Deceased Donors 2007-2015 Western Australia



# DONATION PATHWAY

Donor gender in each State, Australia and New Zealand is shown in three year cohorts in Figures 4.20



The ethnic origin of donors has remained stable over the past 5 years, in Australia and New Zealand (Table 4.3).



**Table 4.3**

Ethnic Origin of Donors 2011- 2015										
Ethnicity	Australia					New Zealand				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
<b>Caucasoid</b>	316 (94%)	320 (90%)	335 (86%)	-	-	30 (79%)	28 (74%)	29 (81%)	-	-
<b>Australian</b>				286 (76%)	326 (75%)	-	-	-	4 (9%)	
<b>Australian Aboriginal</b>	3 (1%)	4 (1%)	8 (2%)	7 (2%)	11 (3%)	-	-	-	-	-
<b>New Zealander</b>	-	-	-	7 (2%)	5 (1%)	-	-	-	27 (59%)	41 (77%)
<b>Māori</b>	-	4 (1%)	4 (1%)	1 (0%)	1 (0%)	3 (8%)	6 (16%)	3 (8%)	6 (13%)	5 (9%)
<b>Pacific Islander</b>	1(0%)	2(1%)	3(1%)	4(1%)	3(1%)	4(11%)	1(3%)			
<b>European</b>	6(2%)	11(3%)	8(2%)	8(3%)	31(9%)	46(11%)			4(9%)	2(4%)
<b>North African &amp; Middle East</b>		1(0%)	3(1%)	1(0%)						
<b>Asian</b>	9(2%)	11(3%)	22(7%)	25(7%)	32(7%)	1(3%)	3(9%)	3(9%)	1(2%)	2(4%)
<b>American</b>	1(0%)			10(3%)	5(1%)				1(4%)	3(6%)
<b>Other</b>	1(0%)	1(0%)		5(1%)	3(1%)			1(3%)	1(2%)	

As of 2014, with the implementation of the EDR racial origin has been classified by Ethnicity according to the Australian Bureau of Statistics.



# DONATION PATHWAY

Table 4.4 shows the religious denomination of donors. This has remained stable over the 5 years to 2015.

Table 4.4

Religious Denomination of Donors 2011 - 2015										
Donor Religion	Australia					New Zealand				
	2011	2012	2013	2014	2015	2011	2012	2013	2014	2015
<b>Christianity</b>	111 (33%)	110 (31%)	122 (31%)	96 (25%)	136 (31%)	7 (18%)	5 (13%)	3 (8%)	4 (9%)	3 (6%)
<b>Judaism</b>	-	-	3 (1%)	2 (1%)	2 (0%)	-	-	-	-	-
<b>Islam</b>	-	1 (0%)	2 (1%)	-	1 (0%)	-	-	-	-	-
<b>Buddhism</b>	1 (0%)	4 (1%)	1 (0%)	7 (2%)	6 (1%)	-	-	-	-	-
<b>Hinduism</b>	-	2 (1%)	-	2 (1%)	3 (1%)	-	-	1 (3%)	-	-
<b>Others</b>	-	-	5 (1%)	3 (1%)	4 (1%)	-	-	-	-	-
<b>No religion</b>	75 (22%)	59 (17%)	77 (20%)	87 (23%)	92 (21%)	-	-	-	1 (2%)	-
<b>Unknown</b>	150 (45%)	178 (50%)	181 (46%)	181 (48%)	191 (44%)	31 (82%)	33 (87%)	32	41 (89%)	50 (94%)

## DONOR WEIGHT

The allocation of heart, lungs and livers are based in part on the matching of recipient and donor size and weight. In 2015 there were 14 donors in Australia and one donor in New Zealand who weighed less than 40 kilograms. There were 68 donors 100 kilograms and over in Australia and four donors in New Zealand.

Table 4.5

Donor Weight 2011 - 2015												
Kilograms												
		0-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100 +	Total
<b>Australia</b>	<b>2011</b>	3	4	1	6	31	59	73	74	48	38	337
	<b>2012</b>	2	4	0	7	23	73	70	85	44	46	354
	<b>2013</b>	10	2	3	7	24	62	95	90	53	45	391
	<b>2014</b>	4	4	2	4	29	53	104	86	54	38	378
	<b>2015</b>	7	4	3	8	33	70	93	86	63	68	435
<b>New Zealand</b>	<b>2011</b>	0	0	0	2	1	11	7	9	4	4	38
	<b>2012</b>	0	0	0	0	6	5	10	5	8	4	38
	<b>2013</b>	1	0	1	0	3	9	11	4	5	2	36
	<b>2014</b>	1	0	0	0	3	8	7	16	7	4	46
	<b>2015</b>	0	1	0	0	3	12	12	11	10	4	53

## MEDICAL CONDITION OF DONORS

Table 4.6 lists the medical conditions of donors by States, Territories and Country for 2015 compared to 2014 by Donor type.

**Table 4.6**

<b>Medical Condition of Donors by States/Country 2015 (2014)</b>											
<b>Donor Type</b>	<b>Medical Condition</b>	<b>QLD</b>	<b>NSW</b>	<b>ACT</b>	<b>VIC</b>	<b>TAS</b>	<b>SA</b>	<b>NT</b>	<b>WA</b>	<b>AUST</b>	<b>NZ</b>
<b>DBD</b>	<b>Diabetes Type I</b>	0 (1)	2 (2)	0 (0)	0 (2)	0 (0)	0 (0)	0 (0)	1 (0)	3 (5)	2 (1)
	<b>Diabetes Type II</b>	3 (2)	6 (4)	0 (0)	10 (3)	1 (1)	3 (2)	0 (0)	5 (2)	28 (14)	0 (1)
	<b>Hypertension</b>	14 (7)	35 (25)	3 (2)	23 (19)	1 (2)	5 (10)	0 (0)	13 (12)	94 (77)	15 (11)
	<b>Smoking-Current</b>	21 (27)	34 (28)	2 (2)	35 (33)	4 (5)	14 (14)	2 (2)	15 (10)	127 (121)	18 (7)
	<b>Cancer</b>	3 (1)	13 (3)	0 (0)	5 (0)	2 (1)	2 (3)	0 (0)	5 (1)	30 (9)	1 (0)
<b>DCD</b>	<b>Diabetes Type I</b>	1 (0)	1 (0)	0 (0)	1 (1)	0 (0)	0 (0)	0 (0)	0 (0)	3 (1)	0 (0)
	<b>Diabetes Type II</b>	0 (0)	3 (2)	0 (0)	11 (2)	0 (0)	0 (0)	0 (0)	0 (0)	14 (4)	1 (0)
	<b>Hypertension</b>	4 (3)	11 (4)	2 (0)	20 (13)	0 (0)	2 (1)	0 (0)	1 (1)	40 (22)	1 (1)
	<b>Smoking-Current</b>	8 (6)	12 (10)	3 (0)	17 (21)	0 (0)	1 (1)	0 (0)	0 (2)	41 (40)	1 (1)
	<b>Cancer</b>	4 (1)	4 (1)	1 (1)	5 (1)	0 (0)	0 (0)	0 (0)	0 (0)	14 (4)	0 (0)

### Diabetes

There were 48 donors with diabetes in Australia in 2014, six donors with Type 1 and 42 with Type 2 diabetes. There were three donors in New Zealand with diabetes; two with Type 1 and 1 with Type 2 diabetes.

In Australia, there was one diabetic Type 2 donor who did not have organs retrieved (due to poor perfusion of the organs). The 42 Type 2 donors provided fifty seven kidneys, two double/en-bloc kidneys, eighteen livers, one heart, twenty double lungs, twenty corneas, eight cardiovascular tissues, nineteen eyes (whole), three corneas, four musculoskeletal arm donations, ten musculoskeletal leg donations, nine pelvic donations and four skin donations. The six diabetic Type 1 donors in Australia, provided six kidneys, three liver, one heart, five double lungs and one bone donation.

# DONATION PATHWAY

In New Zealand, two kidneys, one liver, one double lungs and two eyes (whole) were retrieved from the three diabetic donors.

## Hypertension

A past history of hypertension was recorded in 30.8% of donors (134) in Australia and 30.19% (16 donors) in New Zealand in 2015 (Table 4.6).

The Australian donors provided 185 kidneys, 7 double/en-bloc kidneys, 64 livers, 2 split livers, 13 hearts, 49 double lungs, 1 single lung, 2 pancreases, 5 pancreas islets, 5 corneas, 68 eyes (whole), 31 cardiovascular tissue donations, eight musculoskeletal arm donations, 28 musculoskeletal leg donations, 22 pelvic donations, 2 abdomen vessels, 4 thoracic vessels and eighteen tissue donations.

In New Zealand, the 16 donors with hypertension provided 13 kidneys, 14 livers, 1 heart, 9 double lungs and 1 thoracic vessel, 6 eyes (whole) and 2 cardiovascular donations.

## Smoking

In 2015, 38.62% (168) of Australian donors were recorded as current smokers while in New Zealand, 35.85% (19) donors were reported as current smokers.

## Cancer in Donor

In Australia, 44 donors had a history of cancer prior to donation. There 27 donors having skin only cancers, 15 with non-skin cancers and two with a history of both skin and non-skin cancer. In New Zealand, one donor in 2015 had a history of previous cancer, which was a skin only cancer. Table 4.7 identifies the type of cancer by primary site in Australian Donors.

**Table 4.7**

History of Cancer in Donor - Type of Cancer by Primary Site							
Type of Cancer / Primary Site	SCC   BCC Intraepidermal	Adeno- carcinoma	Other - (specified)	Lymphoma	Leukaemia	Unknown	Total
Skin	52	0	3	0	0	1	56
Brain	0	0	2	0	0	0	2
Nasal Cavity	0	0	0	0	0	1	1
Tongue	1	0	0	0	0	0	1
Thyroid	0	0	1	0	0	1	2
Kidney/Urinary	0	0	1	0	0	0	1
Ovary	0	0	2	0	0	0	2
Cervix	0	1	0	0	0	1	2
Prostate	0	3	0	0	0	0	3
Colon	0	0	1	0	0	0	1
Leukaemia	0	0	0	0	1	0	0
Other unspecified	1	0	0	0	0	0	1
Unknown	0	0	0	1	0	0	1
Total	54	3	10	1	1	4	74

## VIROLOGY SCREENING

Table 4.8 shows the cytomegalovirus (CMV) status of donors from 2010 to 2015.

**Table 4.8**

<b>Cytomegalovirus (CMV IgG) Status of Donors 2010 - 2015</b>												
	<b>Australia</b>						<b>New Zealand</b>					
	2010	2011	2012	2013	2014	2015	2010	2011	2012	2013	2014	2015
Positive	191	214	225	242	229	268	23	21	30	21	23	26
Negative	118	123	129	148	147	167	18	17	8	15	23	27
Not Done	0	0	0	0	2	0	0	0	0	0	0	0
Unknown	0	0	0	1	0	0	0	0	0	0	0	0
Indeterminate	0	0	0	0	0	0	0	0	0	0	0	0
Pending	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>309</b>	<b>337</b>	<b>354</b>	<b>391</b>	<b>378</b>	<b>435</b>	<b>41</b>	<b>38</b>	<b>38</b>	<b>36</b>	<b>46</b>	<b>53</b>

Table 4.9 shows the Epstein-Barr Virus (EBV) status of donors from 2010 to 2015.

**Table 4.9**

<b>Epstein-Barr Virus (EBV IgG) Status of Donors 2010 - 2015</b>												
	<b>Australia</b>						<b>New Zealand</b>					
	2010	2011	2012	2013	2014	2015	2010	2011	2012	2013	2014	2015
Positive	198	293	321	356	339	402	33	27	33	27	37	36
Negative	14	28	33	33	30	28	2	4	1	4	5	13
Not Done	97	16	0	2	5	1	6	7	4	0	3	2
Unknown	0	0	0	0	0	0	0	0	0	5	0	1
Indeterminate	0	0	0	0	1	0	0	0	0	0	1	0
Pending	0	0	0	0	3	4	0	0	0	0	0	1
<b>Total</b>	<b>309</b>	<b>337</b>	<b>354</b>	<b>391</b>	<b>378</b>	<b>435</b>	<b>41</b>	<b>38</b>	<b>38</b>	<b>36</b>	<b>46</b>	<b>53</b>

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

# DONATION PATHWAY

## HEPATITIS C ANTIBODY

There were eleven Hepatitis C positive donors in 2015 , nine in Australia and one in New Zealand.

Of the positive donors in Australia, nine were DBD donors. There were two double/en-bloc kidneys, five livers and one double lung donated.

The one positive donor in New Zealand was a DBD donor, who donated a liver.

**Table 4.10**

Hepatitis C Antibody Status of Donors 2010 - 2015												
	Australia						New Zealand					
	2010	2011	2012	2013	2014	2015	2010	2011	2012	2013	2014	2015
Positive	2	7	5	13	8	11	0	1	2	1	2	1
Negative	307	330	349	378	364	420	41	37	36	35	44	52
Not Done	0	0	0	0	5	4	0	0	0	0	0	0
Unknown	0	0	0	0	1	0	0	0	0	0	0	0
Indeterminate	0	0	0	0	0	0	0	0	0	0	0	0
Pending	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>309</b>	<b>337</b>	<b>354</b>	<b>391</b>	<b>378</b>	<b>435</b>	<b>41</b>	<b>38</b>	<b>38</b>	<b>36</b>	<b>46</b>	<b>53</b>

## HEPATITIS B CORE ANTIBODY

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

A positive result was recorded for 4.6% (20) of Australian donors and 5.7% (3) of New Zealand donors in 2015 (Table 4.10).

Of the positive donors in Australia, nine were DBD and two were DCD donors. These 20 donors, provided 23 kidneys, 10 whole livers, 1 left split liver, 1 right split liver, 1 heart, 6 double lungs, 1 pancreas islets, 6 eyes (whole), 2 corneas and 2 skin donations, 3 cardiovascular tissue donations and 3 musculoskeletal leg donations.

The three positive Hepatitis B donors in New Zealand provided, 2 kidneys, 3 whole livers, 1 double lung and 1 abdomen vessel donation.

**Figure 4.11**

<b>Hepatitis B Core Antibody Status of Donors (Anti-HBcAb) 2010 - 2015</b>												
	<b>Australia</b>						<b>New Zealand</b>					
	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Positive	20	11	15	17	21	20	2	5	8	2	3	3
Negative	289	326	339	374	337	394	39	33	30	34	42	50
Not Done	0	0	0	0	19	21	0	0	0	0	1	0
Unknown	0	0	0	0	1	0	0	0	0	0	0	0
Indeterminate	0	0	0	0	0	0	0	0	0	0	0	0
Pending	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>309</b>	<b>337</b>	<b>354</b>	<b>391</b>	<b>378</b>	<b>435</b>	<b>41</b>	<b>38</b>	<b>38</b>	<b>36</b>	<b>46</b>	<b>53</b>

## Hepatitis B Surface Antigen

Since 1993, all donors in Australia and New Zealand have been tested negative for Hepatitis B surface antigen, except 1 donors in 2004, 2 in 2014 and 4 in 2015 all of whom were not tested.

**Figure 4.12**

<b>Hepatitis B Surface Antigen Status of Donors (HBsAg) 2010 - 2015</b>												
	<b>Australia</b>						<b>New Zealand</b>					
	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
Positive	0	0	0	2	1	0	0	0	0	2	1	0
Negative	309	337	354	389	375	431	41	38	38	34	45	53
Not Done	0	0	0	0	2	4	0	0	0	0	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0
Indeterminate	0	0	0	0	0	0	0	0	0	0	0	0
Pending	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>309</b>	<b>337</b>	<b>354</b>	<b>391</b>	<b>378</b>	<b>435</b>	<b>41</b>	<b>38</b>	<b>38</b>	<b>36</b>	<b>46</b>	<b>53</b>



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