

Analysis of Kidney Allocation During 2013

National Organ Matching System

This is a brief analysis of the current status of the kidney transplant waiting list and kidney transplants matched by the National Organ Matching System (NOMS) from

1st January to 31st December 2013

The analysis is divided into 4 sections:

Section 1 – The Current Status of the Australian Kidney Transplant Waiting List

This section examines the patients still waiting for a kidney transplant who were listed on the NOMS.

Section 2 – Kidney Transplants During 2013

This section examines those patients who were transplanted with a kidney during 2013.

Section 3 – Interstate Exchange of Deceased Donor Kidneys in 2013

This section examines the deceased donor kidney exchanges between centres and the patients who were transplanted with exchanged kidneys.

Section 4 – Miscellaneous Reports

This section presents additional information and requested reports.

Unless indicated otherwise, all data shown was obtained from the consolidated National Organ Matching System database on 1st April 2014.

In the report the term 'waiting time on dialysis' is defined as the time since the 'dialysis for matching' date. The dialysis for matching date is either

- the time since the patient first started on dialysis or
- the time since the patient recommenced dialysis if previously transplanted or
- a putative date if the patient was entered into the 'Ideal Trial'

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Date: 21st May 2014

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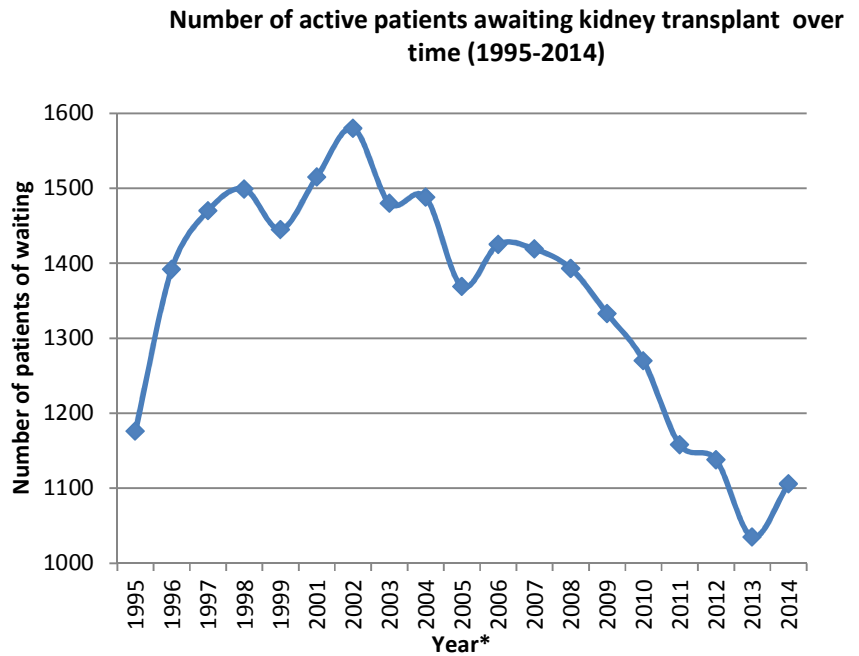
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1. THE CURRENT STATUS OF THE AUSTRALIAN KIDNEY TRANSPLANT WAITING LIST

1.1 Number of active patients awaiting kidney transplant over time (1995 – 2014)

Date	Number of patients waiting
4/1/1995	1176
2/1/1996	1392
4/2/1997	1470
9/1/1998	1499
7/1/1999	1445
7/3/2001	1515
8/1/2002	1580
6/1/2003	1480
6/1/2004	1488
15/4/2005	1369
3/4/2006	1425
16/3/2007	1419
4/4/2008	1393
31/3/2009	1333
16/4/2010	1270
8/4/2011	1158
3/4/2012	1138
1/4/2013	1035
1/4/2014	1106

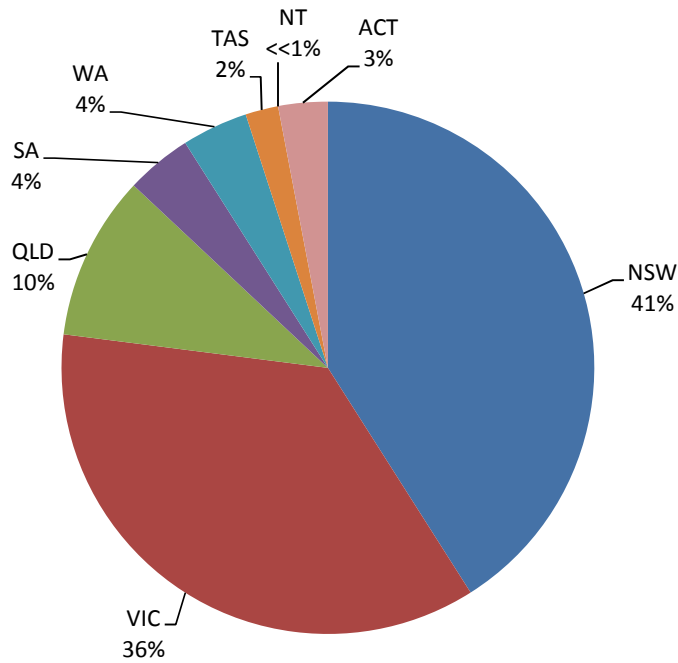


*data not available for 2000

1.2 Number of active patients awaiting kidney transplant by state or territory

State/ Territory	Number of active patients	Percentage of all patients
NSW	455	41%
VIC	397	36%
QLD	108	10%
SA	39	4%
WA	42	4%
TAS	24	2%
NT	7	<<1%
ACT	34	3%
ALL	1106	100%

Percentage of active patients awaiting kidney transplant by state or territory

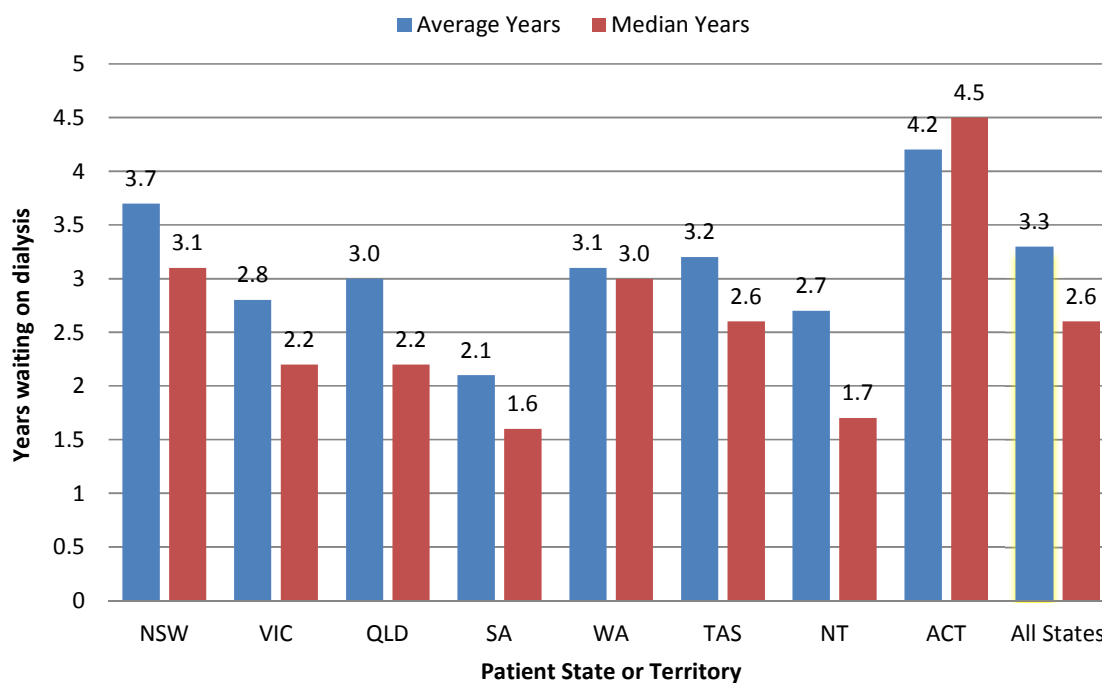


1.3 Time waiting on dialysis in years for active patients awaiting kidney transplant and patient state or territory

State/ Territory	Average wait (years)	Median wait (years)	Maximum wait (years)
NSW	3.7	3.1	21.3
VIC	2.8	2.2	25.5*
QLD	3.0	2.2	10.7
SA	2.1	1.6	10.0
WA	3.1	3.0	8.8
TAS	3.2	2.6	13.7
NT	2.7	1.7	6.4
ACT	4.2	4.5	7.1
ALL	3.3	2.6	25.5

*Longest waiting patient is from VIC with 2 previous transplants and 99% authorised class I antibodies and blood group A

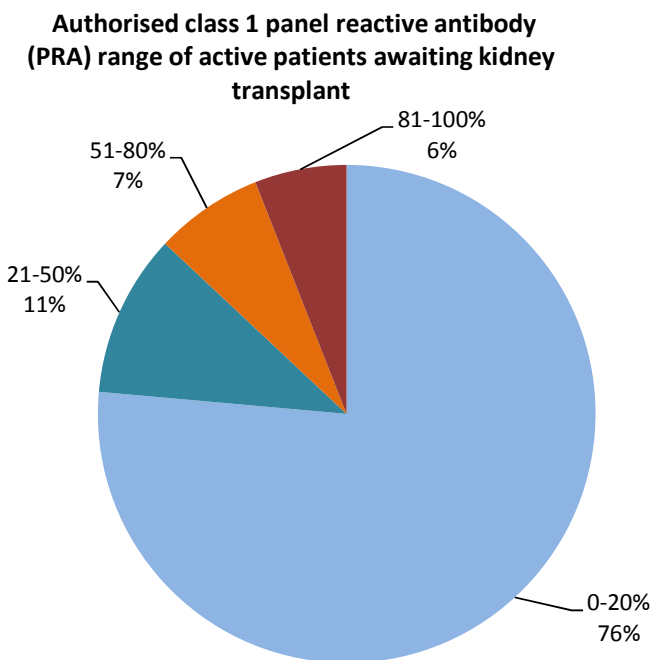
Time waiting on dialysis in years for active patients awaiting kidney transplant and patient state or territory



1.4 Authorised class 1 panel reactive antibody (PRA) range of active patients awaiting kidney transplant

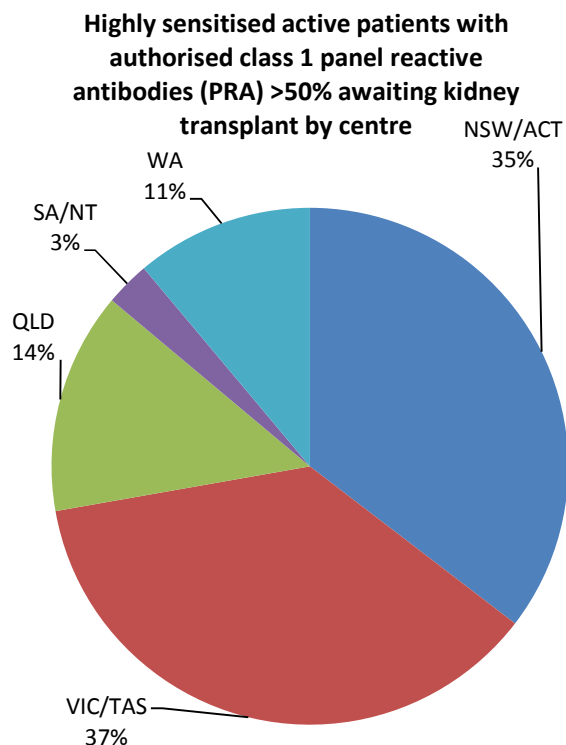
Patient authorised PRA	Number of patients	Percentage of all patients
0 – 20% #	845	76%
21- 50%	117	11%
51- 80%	78	7%
81-100%	66	6%
	1106	100%

#Patients with unknown authorised PRA were assumed to be 0%



1.5 Highly sensitised active patients with authorised class 1 panel reactive antibodies (PRA) > 50% awaiting kidney transplant by centre

Centre	Number of highly sensitised patients with authorised PRA > 50%	% of all highly sensitised patients with authorised PRA > 50%	Centre percentage of all patients waiting (from Table 1.2)
NSW/ACT	51	35%	44%
VIC/TAS	53	37%	38%
QLD	20	14%	10%
SA/NT	4	3%	4%
WA	16	11%	4%
ALL	144	100%	100%



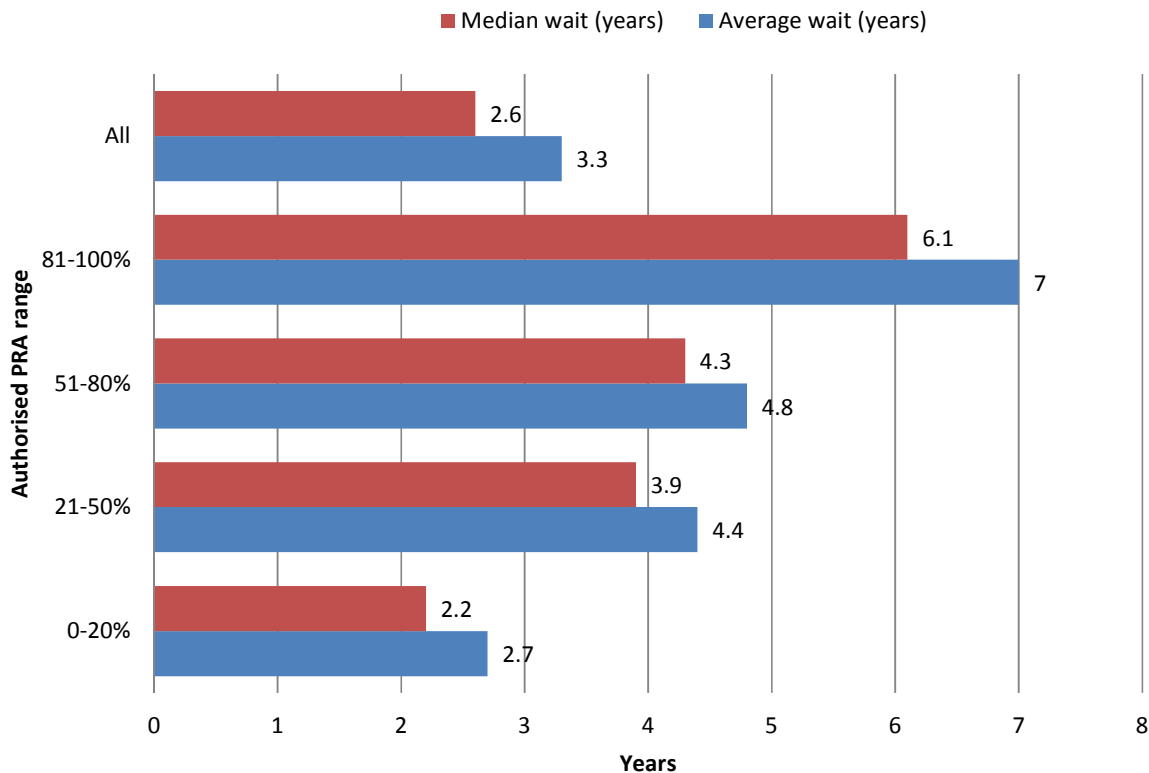
1.6 Time waiting on dialysis in years of active patients awaiting kidney transplant and patient authorised class 1 panel reactive antibody (PRA) range

Patient authorised PRA	% of all patients Waiting (from table 1.4)	Average wait (years)	Median wait (years)	Maximum wait (years)
0-20% [#]	76%	2.7	2.2	18.8
21-50%	11%	4.4	3.9	14.8
51-80%	7%	4.8	4.3	18.8
81-100%	6%	7.0	6.1	25.5
ALL	100%	3.3	2.6	25.5*

[#] In this table Patients with no class 1 authorised PRA entered were assumed to be 0%

* Longest waiting patient is from VIC with blood group A, 2 previous transplant and 99% authorised class I antibodies

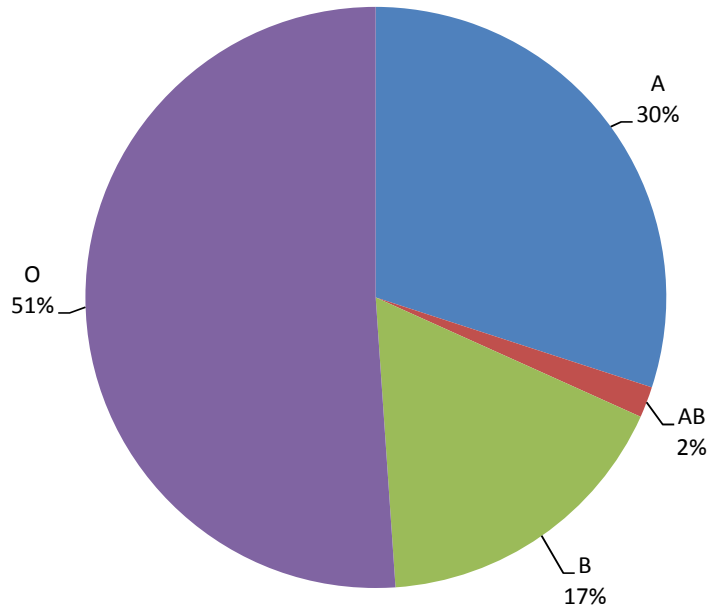
Time waiting on dialysis in years of active patients awaiting kidney transplant and patient authorised class 1 panel reactive antibody (PRA) range



1.7 ABO blood groups of active patients awaiting kidney transplant

Patient ABO blood group	Number of patients	Percentage of all patients
A	332	30%
AB	19	2%
B	190	17%
O	565	51%
ALL	1106	100%

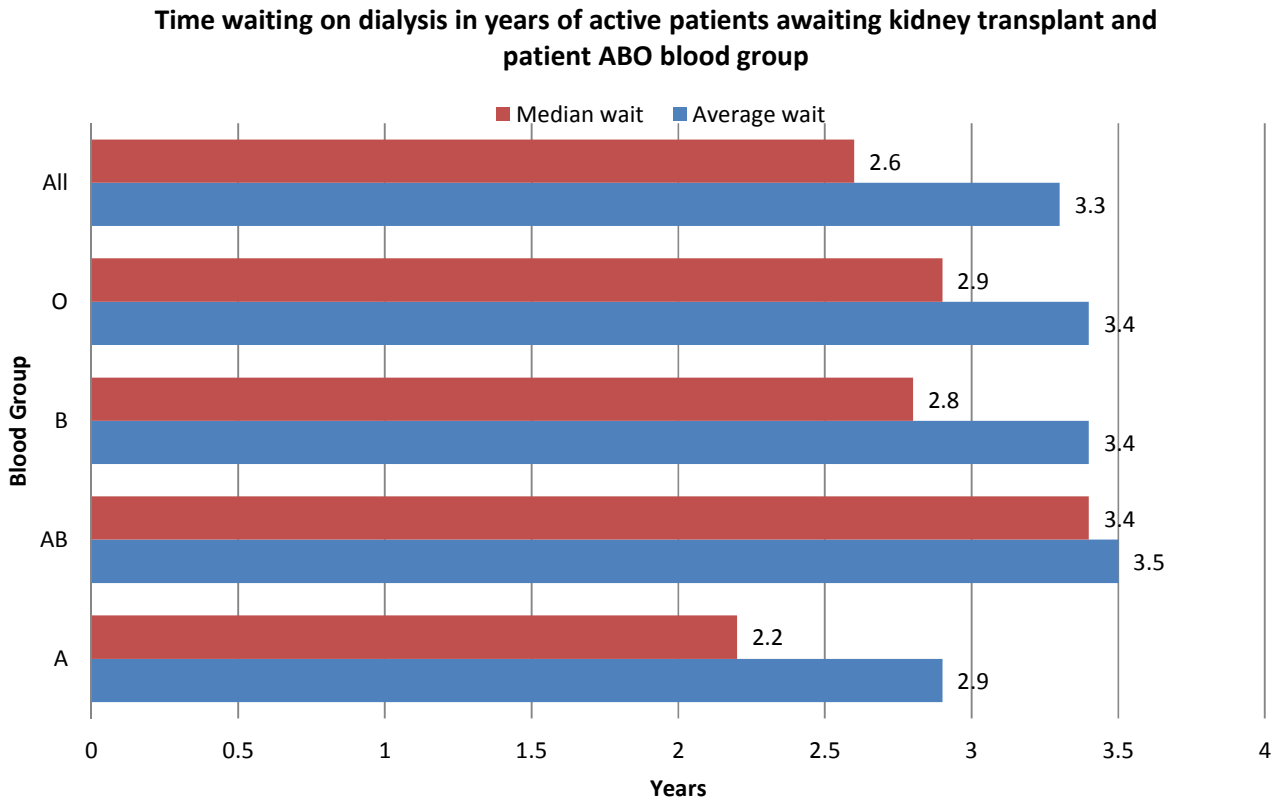
ABO blood groups of active patients awaiting kidney transplant



1.8 Time waiting on dialysis in years of active patients awaiting kidney transplant and patient ABO blood group

Patient ABO blood group	Average wait (years)	Median Wait (years)	Maximum wait (years)
A	2.9	2.2	25.5*
AB	3.5	3.4	10.0
B	3.4	2.8	17.0
O	3.4	2.9	19.6
ALL	3.3	2.6	25.5

* Longest waiting patient is from VIC with blood group A, 2 previous transplants and 99% authorised class I antibodies

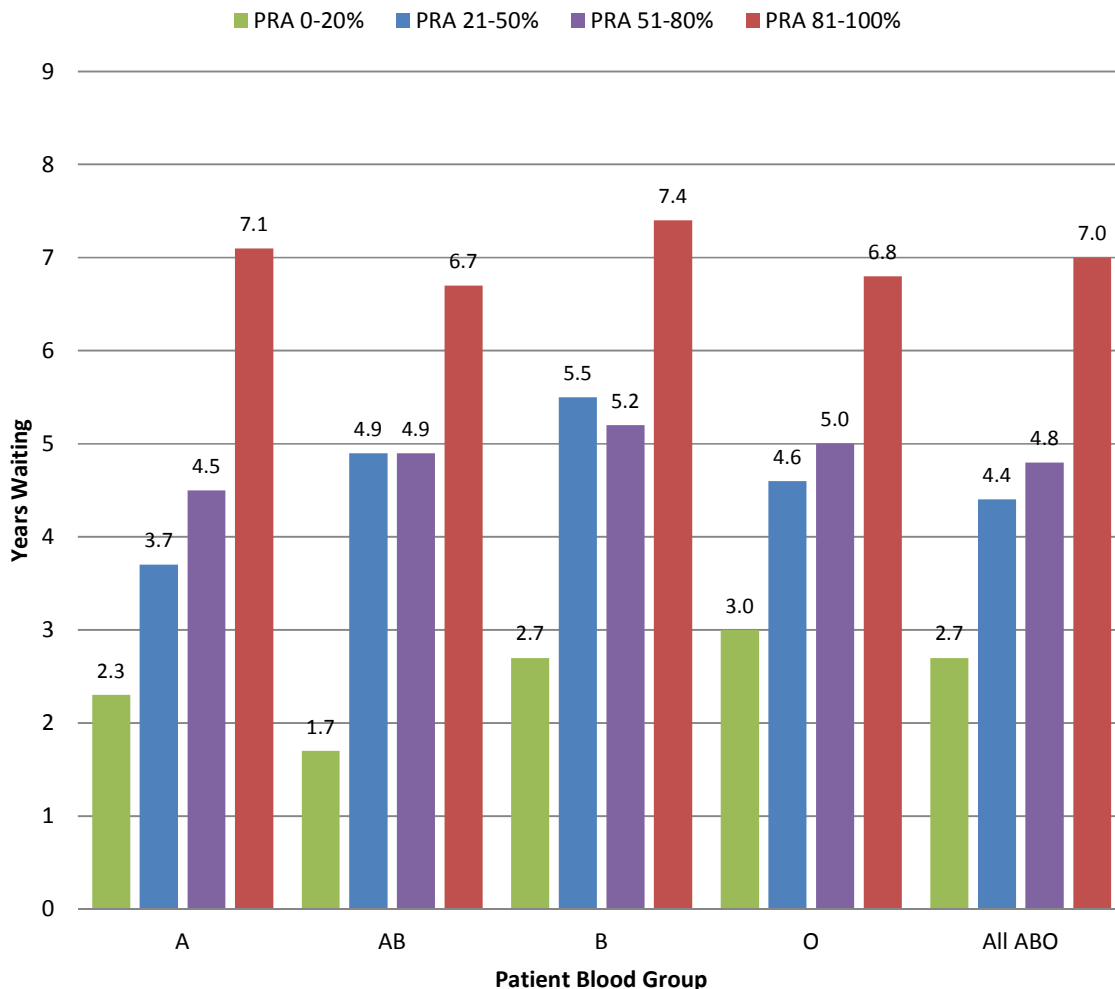


1.9 Time waiting on dialysis in years by authorised class I panel reactive antibody (PRA) range and patient ABO blood group

Patient Authorised PRA	Average Wait (years)					Median Wait (years)	Maximum Wait (years)
	A	AB	B	O	All ABO		
0-20%	2.3	1.7	2.7	3.0	2.7	2.2	18.8
21-50%	3.7	4.9	5.5	4.6	4.4	3.9	14.8
51-80%	4.5	4.9	5.2	5.0	4.8	4.3	18.8
81-100%	7.1	6.7	7.4	6.8	7.0	6.1	25.5*
ALL	2.9	3.5	3.4	3.4	3.3	2.6	25.5

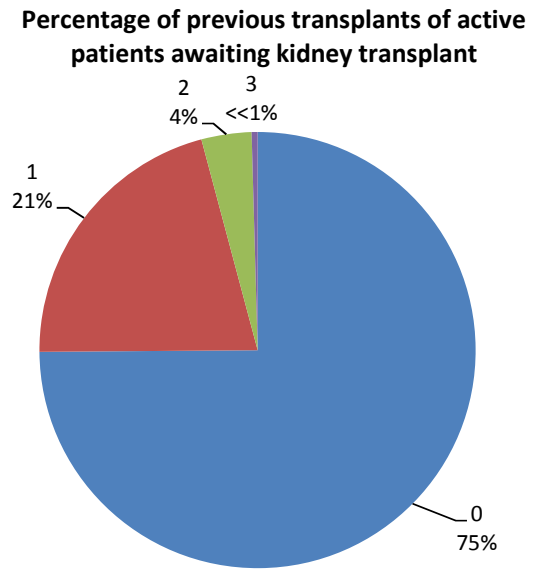
*Longest waiting patient is from VIC with 2 previous transplants and 99% authorised class I antibodies and blood group A

Average time waiting on dialysis in years by authorised class 1 panel reactive antibody (PRA) range and patient ABO blood group



1.10 Number of previous transplants of active patients awaiting kidney transplant

Number of previous transplants	Number of patients	% of all patients waiting
0	828	75%
1	232	21%
2	41	4%
3	5	<<1%
ALL	1106	100%

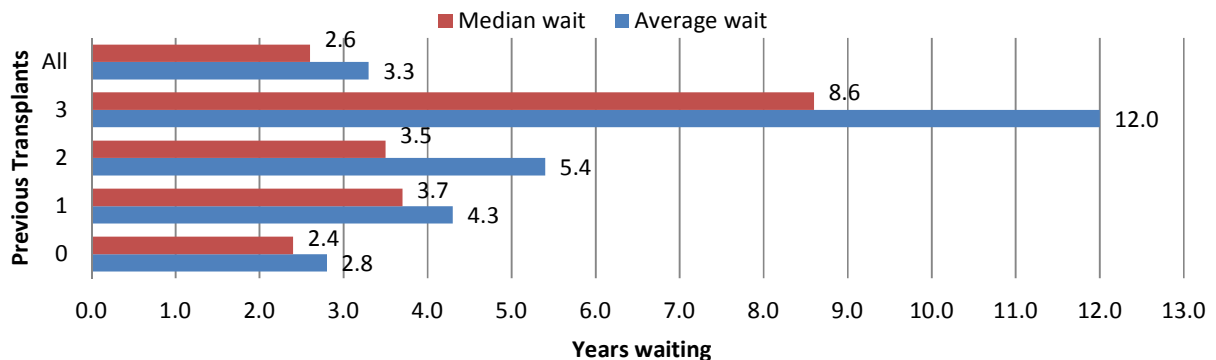


1.11 Time waiting on dialysis in years for active patients awaiting kidney transplant and number of previous transplants

Previous transplants	Number of patients	Average Wait (years)	Median Wait (years)	Maximum Wait (years)
0	828	2.8	2.4	17.7
1	232	4.3	3.7	19.6
2	41	5.4	3.5	25.5*
3	5	12.0	8.6	21.3
ALL	1106	3.3	2.6	25.5

* Longest waiting patient is from VIC with blood group A, 2 previous transplants and 99% authorised class I antibodies

Time waiting on dialysis in years for active patients awaiting kidney transplant and number of previous transplants



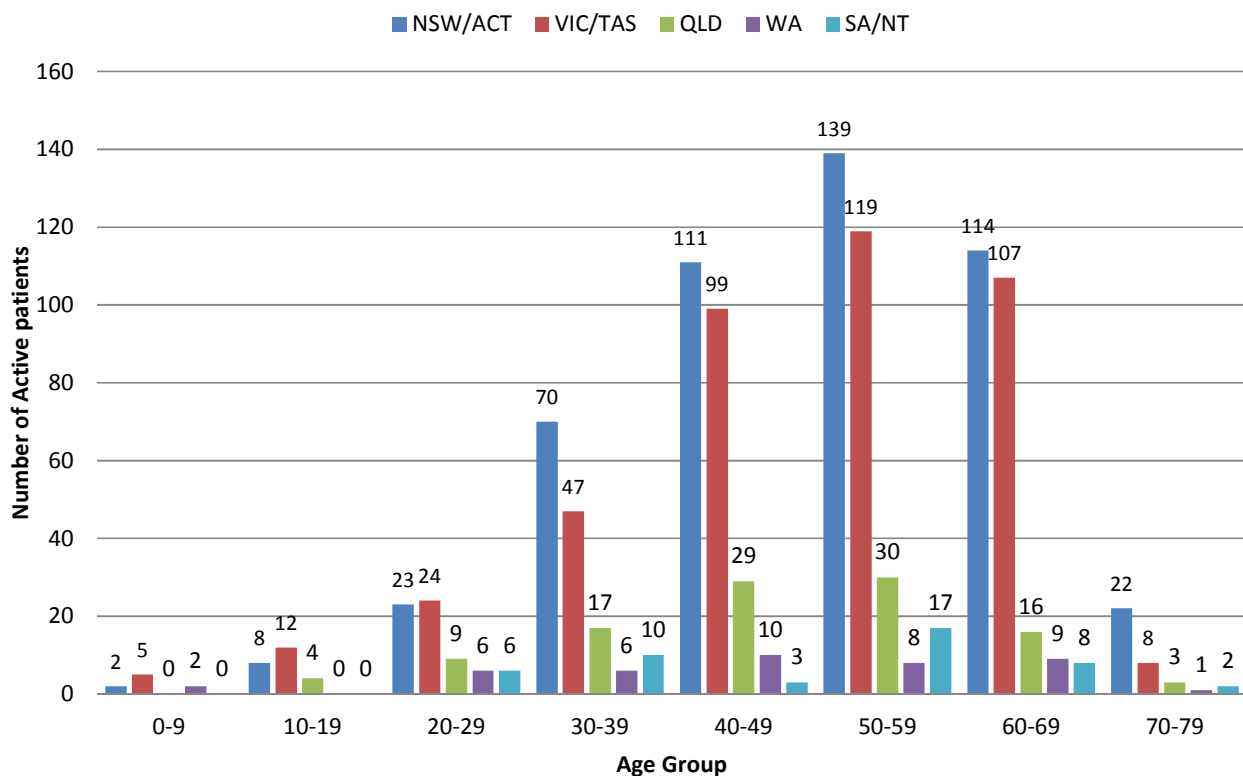
1.12 Age groups of active patients awaiting kidney transplant

State/ Territory	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	ALL
NSW/ACT	2	8	23	70	111	139	114	22*	489
VIC/TAS	5 [#]	12	24	47	99	119	107	8	421
QLD	0	4	9	17	29	30	16	3	108
SA/NT	0	0	6	10	3	17	8	2	46
WA	2	0	6	6	10	8	9	1	42
ALL	9	24	68	150	252	313	254	36	1106
% of total	1%	2%	6%	14%	23%	28%	23%	3%	100%

*The oldest patient on the waiting list was a 77 year old patient from the Australian Capital Territory

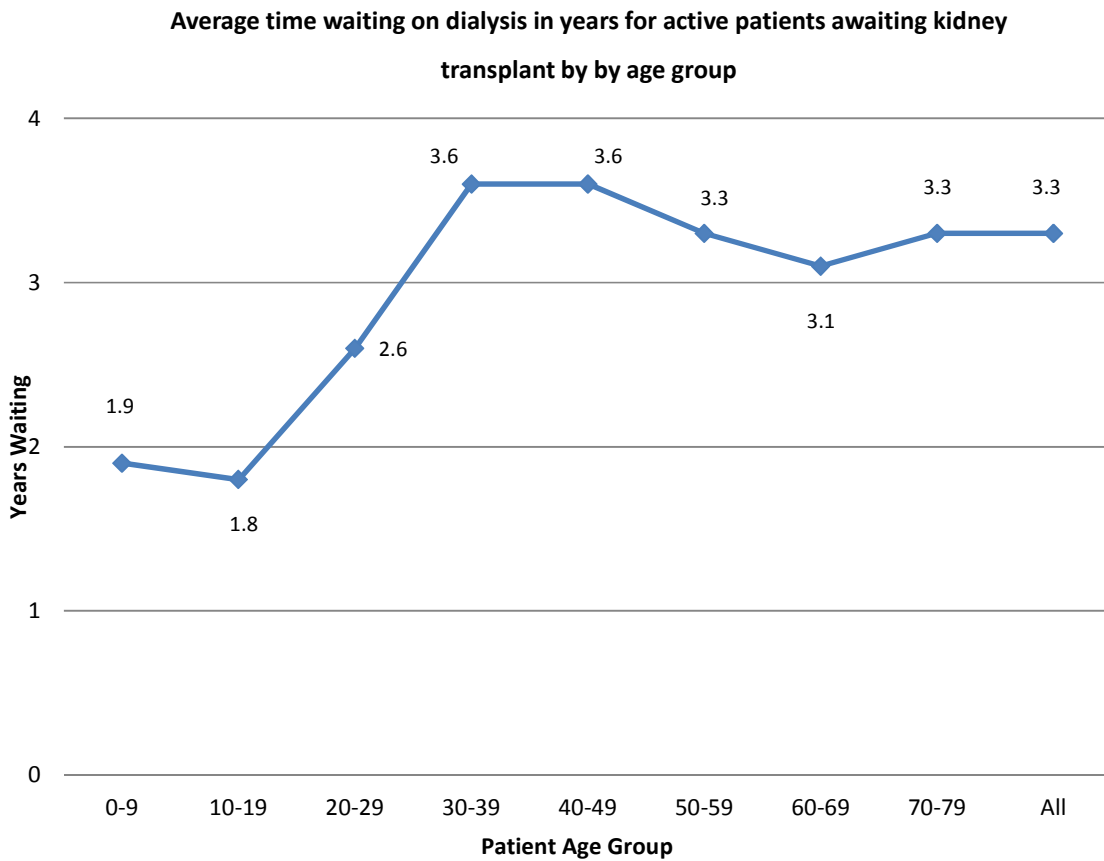
[#] The youngest patient on the waiting list was a 2 year old patient from Victoria

Age groups of active patients awaiting kidney transplant



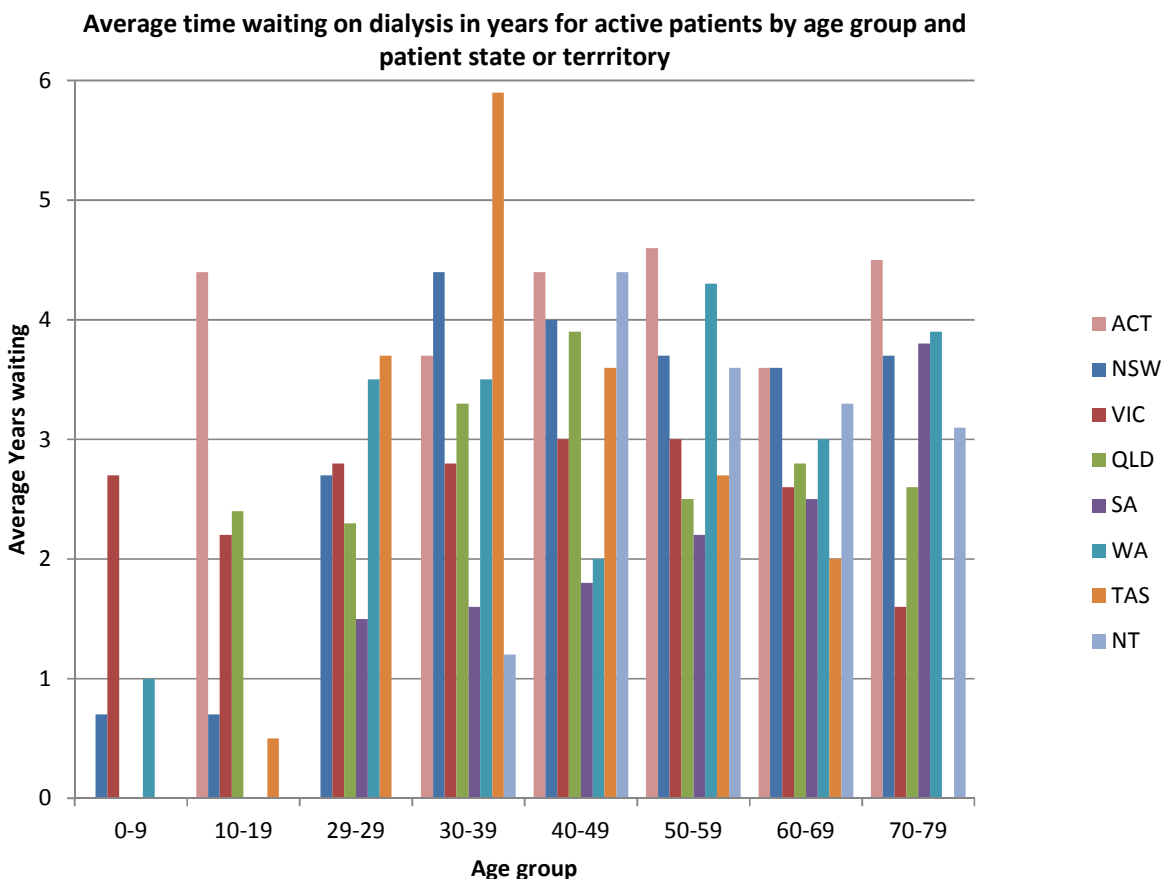
1.13 Time waiting on dialysis in years for active patients awaiting kidney transplant by patient age group

Age group	Number of patients	Average Wait (years)	Median Wait (years)	Maximum Wait (years)
0-9	9	1.9	1.3	6.2
10-19	24	1.8	1.1	6.1
20-29	68	2.6	2.3	7.0
30-39	150	3.6	2.7	15.8
40-49	252	3.6	2.6	25.5
50-59	313	3.3	2.7	21.3
60-69	254	3.1	2.6	17.1
70-79	36	3.3	3.3	6.8
ALL	1106	3.3	2.6	25.5



1.14 Average Time waiting on dialysis in years for active patients awaiting kidney transplant by age group and patient state or territory

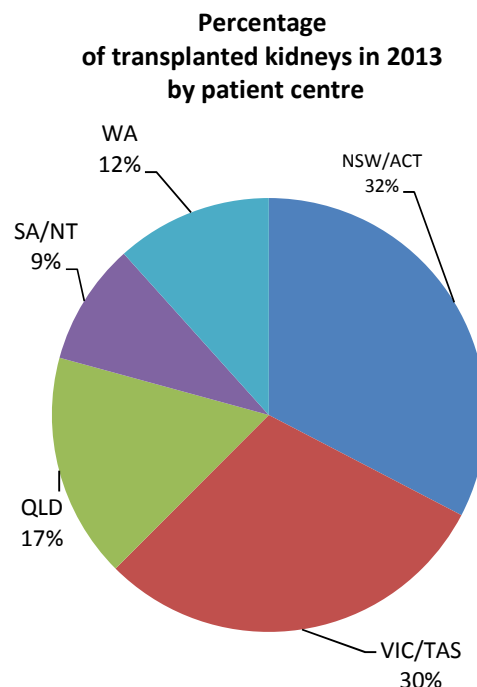
State/ Territory	Patient age group								
	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	ALL
NSW	0.7	0.7	2.7	4.4	4.0	3.7	3.6	3.7	3.7
VIC	2.7	2.2	2.8	2.8	3.0	3.0	2.6	1.6	2.8
QLD	0.0	2.4	2.3	3.3	3.9	2.5	2.8	2.6	3.0
SA	0.0	0.0	1.5	1.6	1.8	2.2	2.5	3.8	2.1
WA	1.0	0.0	3.5	3.6	2.0	4.3	3.0	3.9	3.1
TAS	0.0	0.5	3.7	5.9	3.6	2.7	2.0	0.0	3.2
NT	0.0	0.0	0.0	1.2	4.4	3.6	0.0	0.0	2.7
ACT	0.0	4.4	0.0	3.7	4.4	4.6	3.6	4.5	4.2
ALL	1.9	1.8	2.6	3.6	3.6	3.3	3.1	3.3	3.3



2. KIDNEY TRANSPLANTS DURING 2013

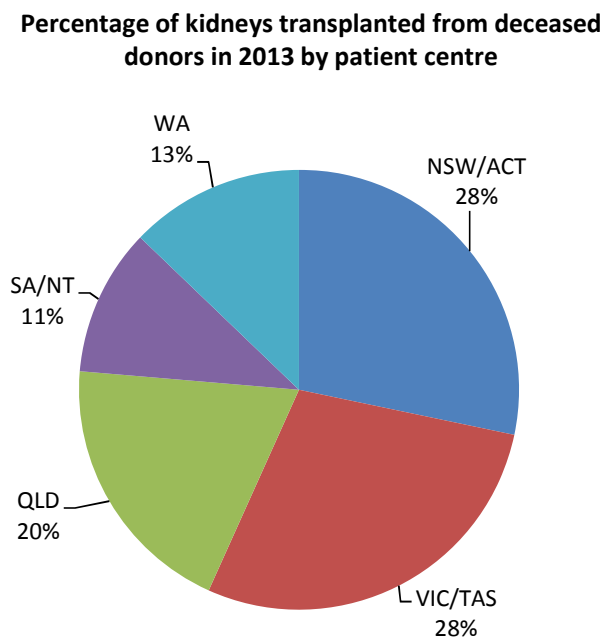
2.1 Number of transplanted kidneys in 2013 by patient centre

Patient Centre	Number of transplanted kidneys	Percentage of all kidneys transplanted	Percentage of all patients waiting in each centre (from table 1.2)
NSW/ACT	294	32%	44%
VIC/TAS	269	30%	38%
QLD	151	17%	10%
SA/NT	82	9%	4%
WA	105	12%	4%
ALL	901	100%	100%



2.2 Number of kidneys transplanted from deceased donors in 2013 by patient centre

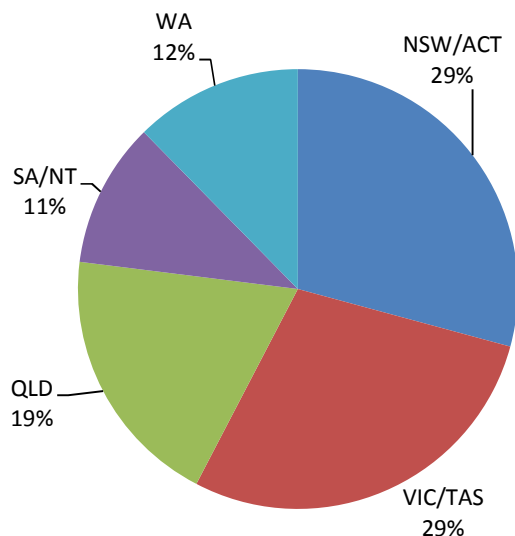
Patient Centre	Number of deceased donor transplants	Percentage of all deceased donor kidney transplants	Percentage of all patients waiting in each centre (from table 1.2)
NSW/ACT	183	28%	44%
VIC/TAS	184	28%	38%
QLD	127	20%	10%
SA/NT	70	11%	4%
WA	83	13%	4%
ALL	647	100%	100%



2.3 Number of kidneys transplanted from deceased donors in 2013 by transplant centre

Transplant centre	Number of deceased donor transplants	Percentage of all deceased donor kidney transplants	Percentage of all patients waiting in each centre (from table 1.2)
NSW/ACT	189	29%	44%
VIC/TAS	184	29%	38%
QLD	125	19%	10%
SA/NT	69	11%	4%
WA	80	12%	4%
ALL	647	100%	100%

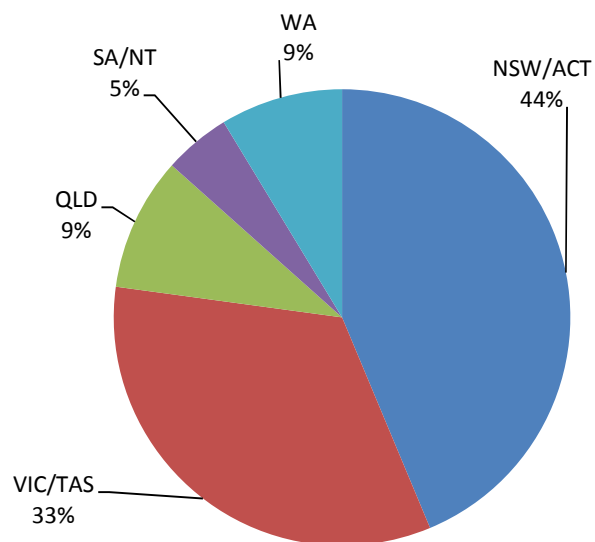
Percentage of kidneys transplanted from deceased donors in 2013 by transplant centre



2.4 Number of kidneys transplanted from live donors in 2013 by centre

Patient Centre	Number of kidneys transplanted from live donors	Percentage of all live donor kidneys	Percentage of all patients waiting in each centre (from table 1.2)
NSW/ACT	111	44%	44%
VIC/TAS	85	33%	38%
QLD	24	9%	10%
SA/NT	12	5%	4%
WA	22	9%	4%
ALL	254	100%	100%

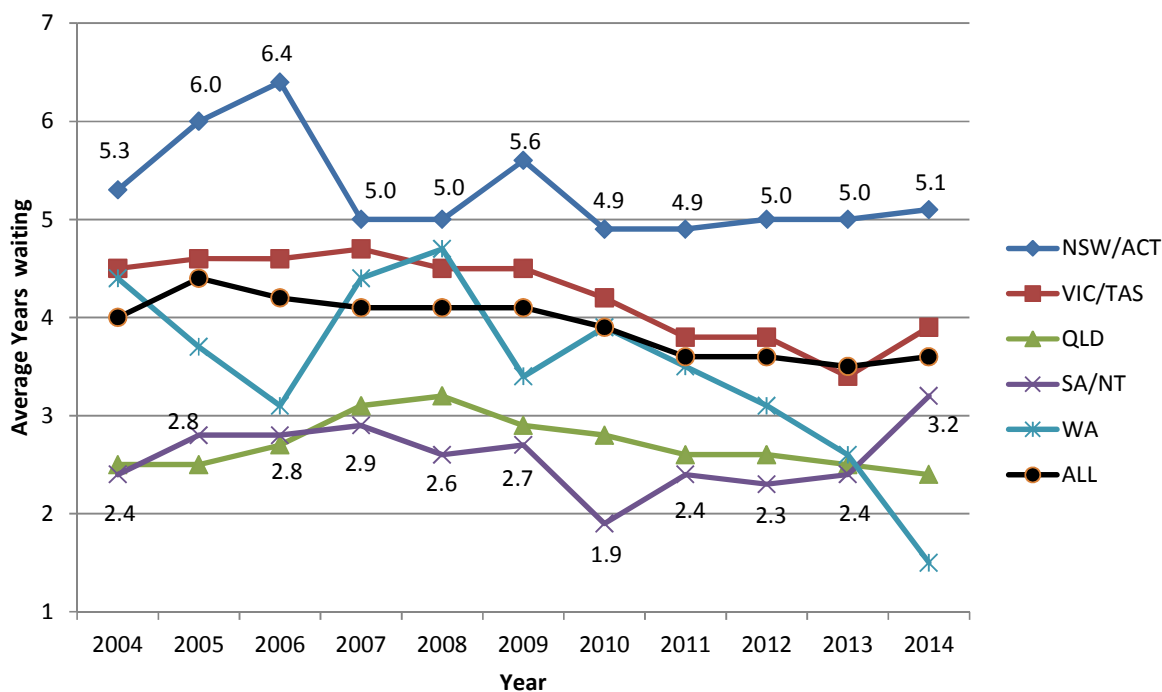
Percentage of kidneys transplanted from live donors in 2013 by patient centre



2.5 Average time waiting on dialysis in years for patients transplanted with deceased donor kidney by centre and year (to 1/4/2014)

Centre	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014 (as at 1/4/2014)
NSW/ACT	5.3	6.0	6.4	5.0	5.0	5.6	4.9	4.9	5.0	5.0	5.1
VIC/TAS	4.5	4.6	4.6	4.7	4.5	4.5	4.2	3.8	3.8	3.4	3.9
QLD	2.5	2.5	2.7	3.1	3.2	2.9	2.8	2.6	2.6	2.5	2.4
SA/NT	2.4	2.8	2.8	2.9	2.6	2.7	1.9	2.4	2.3	2.4	3.2
WA	4.4	3.7	3.1	4.4	4.7	3.4	3.9	3.5	3.1	2.6	1.5
ALL	4.0	4.4	4.2	4.1	4.1	4.1	3.9	3.6	3.6	3.5	3.6

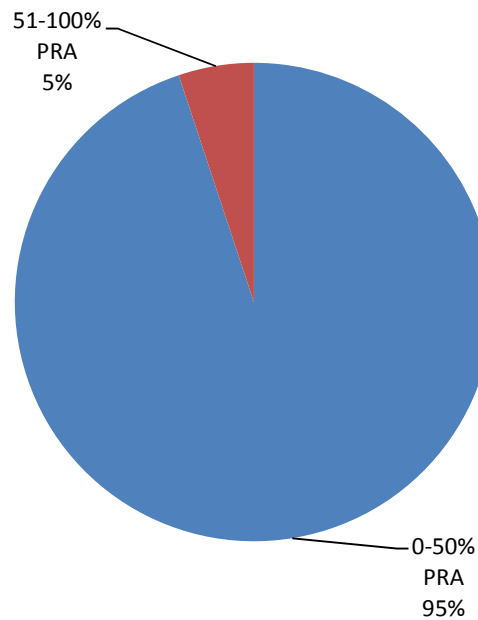
Average time waiting on dialysis in years for patients transplanted with deceased donor kidney by centre and year (to 1/4/2014)



2.6 Authorised class 1 panel reactive antibody (PRA) range of patients transplanted with deceased donor kidney in 2013

Patient Authorised Class I PRA	Number of patients transplanted	Percentage of patients transplanted	% of patients on transplant waiting list with PRA range (from table 1.4)
0-50%	614	95%	87%
51-100%	33	5%	13%
ALL	647	100%	100%

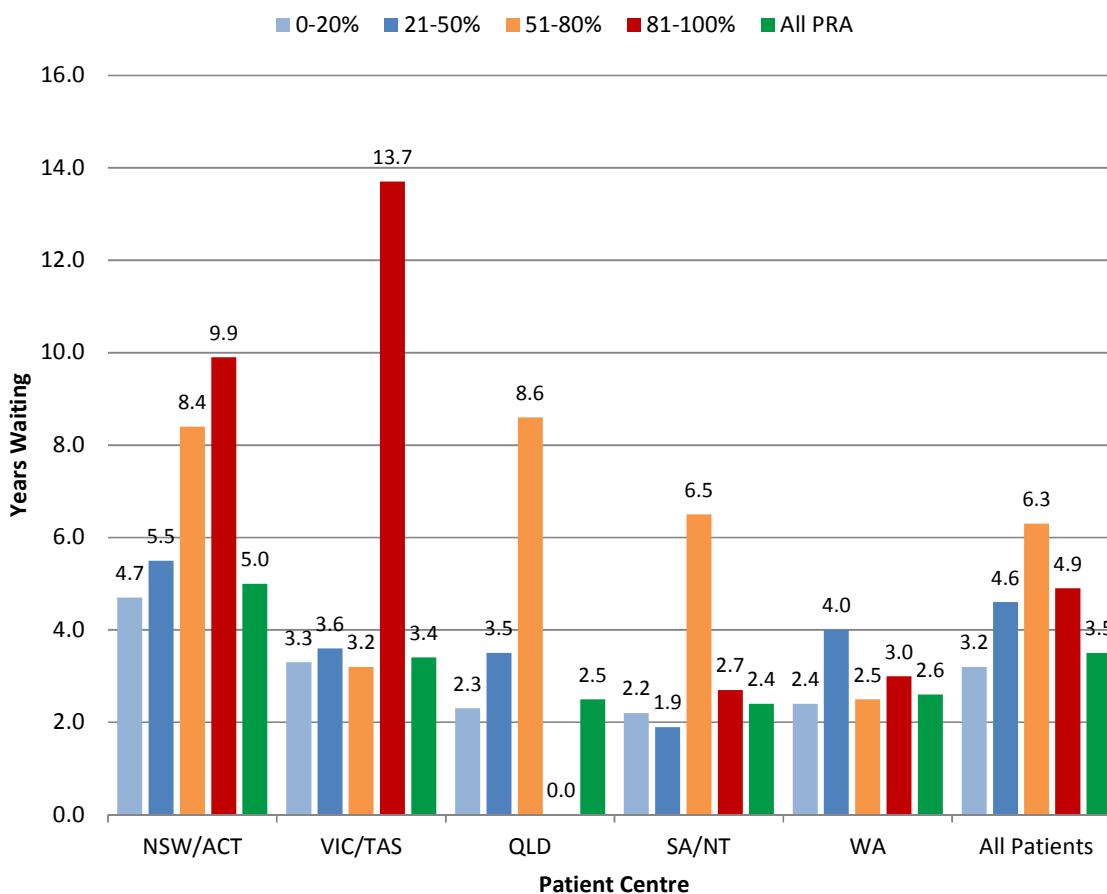
Authorised class 1 panel reactive antibody (PRA) range of patients transplanted with deceased donor kidney in 2013



2.7 Time waiting on dialysis in years for patients transplanted with deceased donor kidney in 2013 by patient authorised class 1 panel reactive antibody (PRA) range and patient centre (n=647)

Patient Centre	Authorised Class I PRA range					Median Wait (years)	Maximum Wait (years)
	0-20%	21-50%	51-80%	81-100%	All PRA		
NSW/ACT	4.7	5.5	8.4	9.9	5.0	5.3	15.4
VIC/TAS	3.3	3.6	3.2	13.7	3.4	2.8	15.8
QLD	2.3	3.5	8.6	0.0	2.5	1.8	19.5
SA/NT	2.2	1.9	6.5	2.7	2.4	1.7	10.8
WA	2.4	4.0	2.5	3.0	2.6	2.2	9.0
ALL Centres	3.2	4.6	6.3	4.9	3.5	2.7	19.5

Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by authorised PRA range and patient centre (n=647)



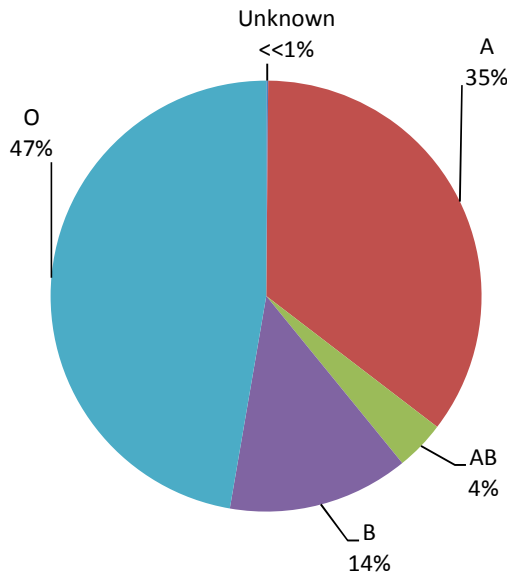
2.8 ABO blood group of patients transplanted with a deceased donor kidney in 2013

Patient ABO blood group	Number of transplants	Percentage of transplants	Percentage of ABO groups in Australia*
Unknown	1 [#]	<<1%	0%
A	228	35%	38%
AB	24	4%	3%
B	88	14%	10%
O	306	47%	49%
ALL	647	100%	100%

* <http://www.donateblood.com.au/all-about-blood/blood-types>

#data includes two Noumean transplant patients, one with unknown ABO blood group both transplanted in NSW with deceased donor kidneys sent from Noumea.

ABO group of patients transplanted with a deceased donor kidney in 2013

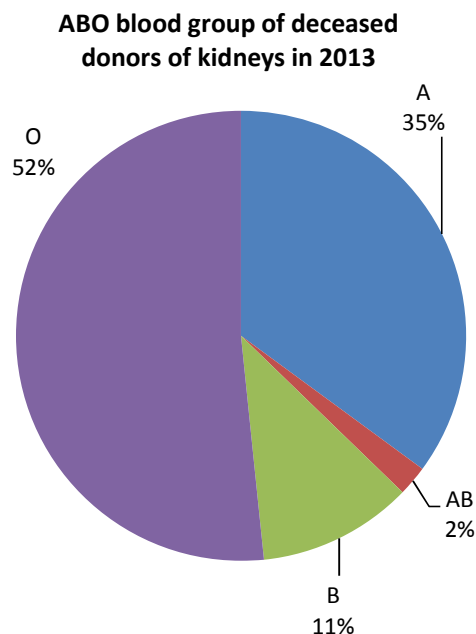


2.9 ABO blood group of deceased donors of kidneys transplanted in 2013

Donor ABO blood group	Number of transplants	Percentage of transplants	Percentage of ABO groups in Australia*
A	227	35%	38%
AB	14	2%	3%
B	72	11%	10%
O	334	52%	49%
ALL	647	100%	100%

*as published on the Blood Service website

<http://www.donateblood.com.au/all-about-blood/blood-types>



2.10 Comparative ABO groups of patients transplanted with deceased donor kidney and deceased donors in 2013

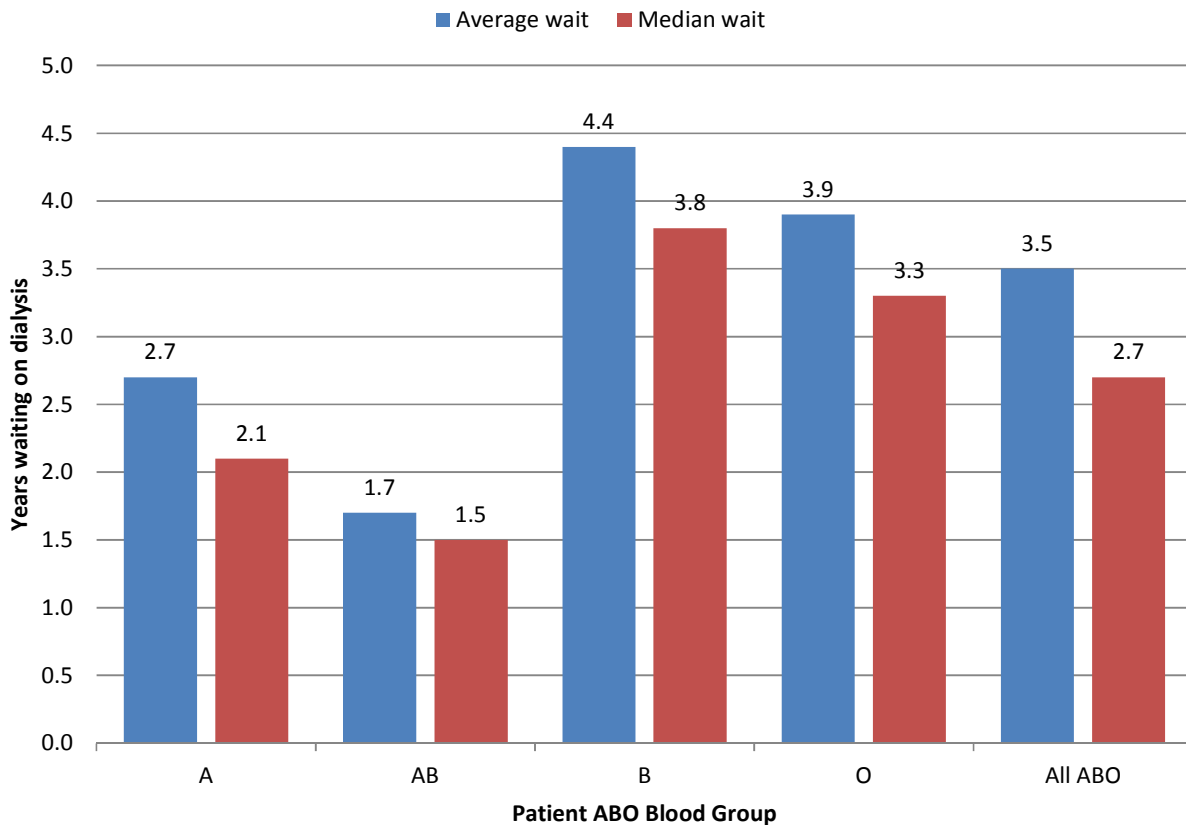
Donor ABO blood group	Blood group of patient receiving Kidney					
	A	AB	B	O	?	ALL
A	221	6	0	0	0	227
AB	0	14	0	0	0	14
B	0	3	69	0	0	72
O	7	1	19	306	1	334
ALL	228	24	88	306	1	647

Bold font indicates incidences where patient and donor not ABO identical.

2.11 Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2013 patient ABO blood group (n=647)

Patient ABO group	Average wait (years)	Median Wait (years)	Maximum Wait (years)
Unknown	0.0	0.0	0.0
A	2.7	2.1	19.5
AB	1.7	1.5	6.7
B	4.4	3.8	15.8
O	3.9	3.3	15.4
ALL ABO	3.5	2.7	19.5

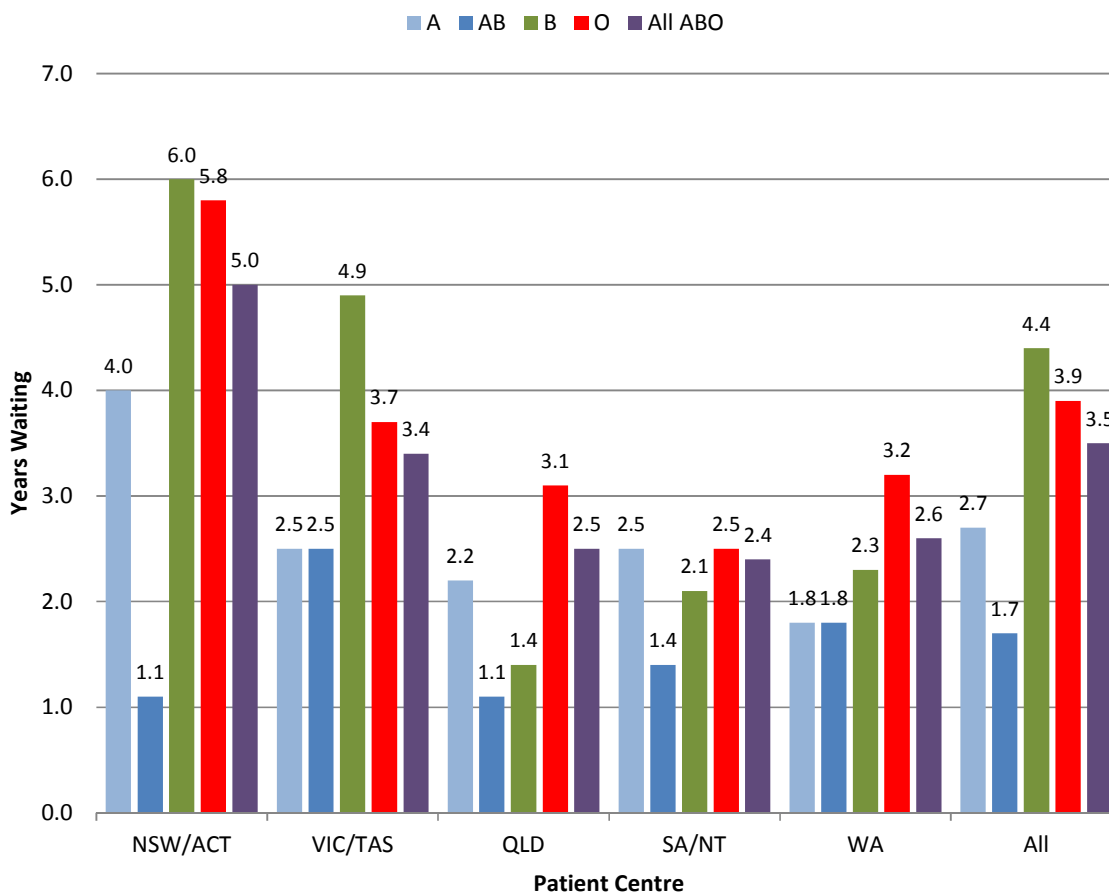
Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2013 by ABO blood group (n=647)



2.12 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient ABO blood group and patient centre (n=647)

Patient Centre	Patient ABO blood group Average Wait (years)					Median Wait (years)	Maximum Wait (years)
	A	AB	B	O	All ABO		
NSW/ACT	4.0	1.1	6.0	5.8	5.0	5.3	15.4
VIC/TAS	2.5	2.5	4.9	3.7	3.4	2.8	15.8
QLD	2.2	1.1	1.4	3.1	2.5	1.8	19.5
SA/NT	2.5	1.4	2.1	2.5	2.4	1.7	10.8
WA	1.8	1.8	2.3	3.2	2.6	2.2	9.0
ALL Centres	2.7	1.7	4.4	3.9	3.5	2.7	19.5

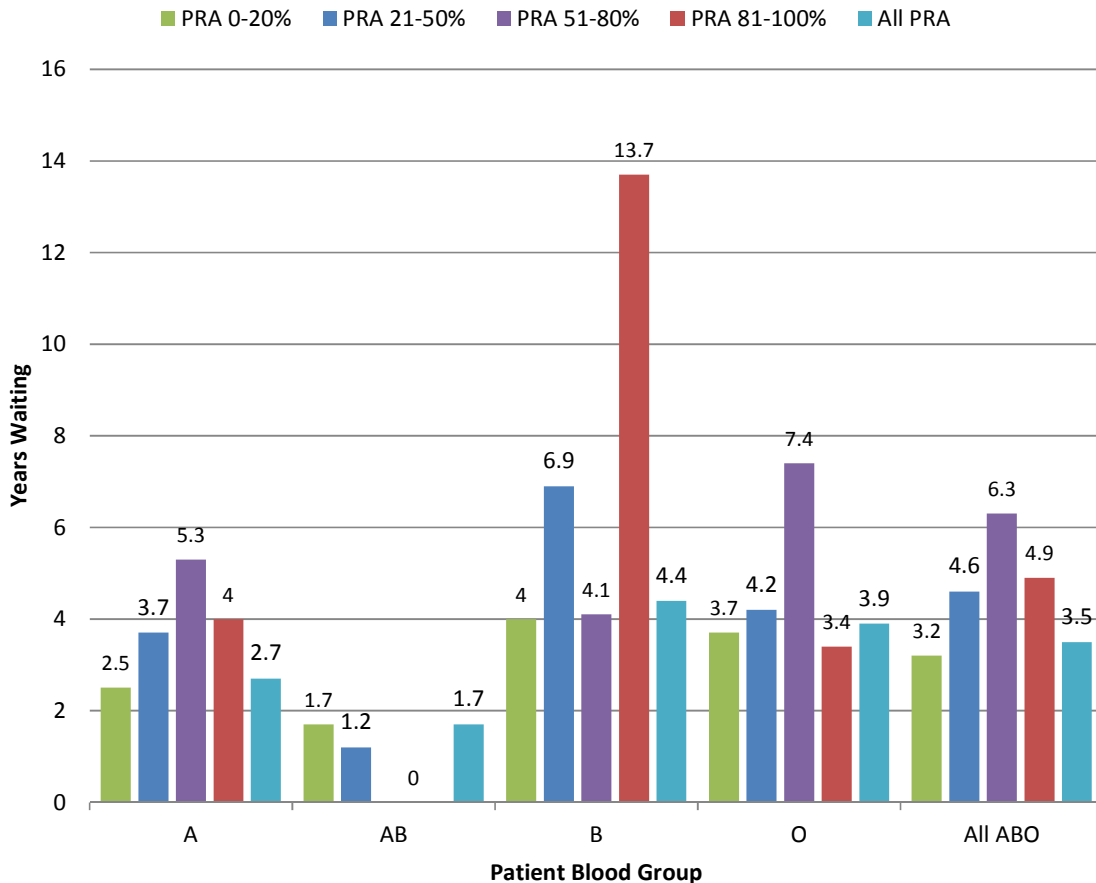
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient ABO blood group and patient centre (n=647)



2.13 Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2013 and authorised class 1 panel reactive antibody (PRA) range by patient ABO blood group (n=647)

Patient Authorised Class I PRA	Patient ABO group Average Wait (years)						
	A	AB	B	O	Average Wait (years)	Median Wait (years)	Maximum Wait (years)
0-20%	2.5	1.7	4.0	3.7	3.2	2.5	19.5
21-50%	3.7	1.2	6.9	4.2	4.6	5.0	9.5
51-80%	5.3	0.0	4.1	7.4	6.3	5.8	15.4
81-100%	4.0	0.0	13.7	3.4	4.9	3.5	13.7
ALL PRA	2.7	1.7	4.4	3.9	3.5	2.7	19.5

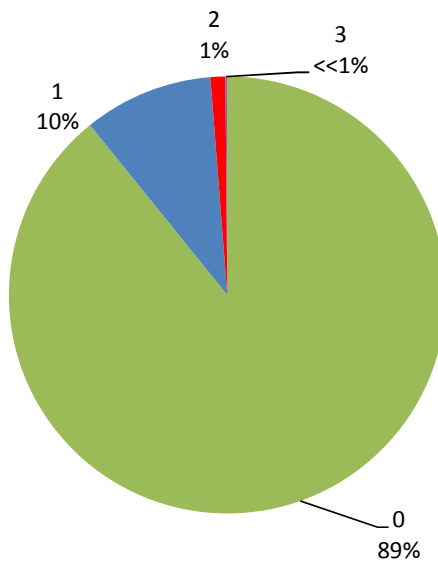
Average time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2013 and authorised class 1 panel reactive antibody (PRA) range by patient ABO blood group (n=647)



2.14 Number of previous transplants for patients transplanted with a deceased donor kidney in 2013

Number of previous transplants	Number of patients transplanted	Percentage of patients transplanted	% of patients on transplant waiting list with previous transplant number (from table 1.10)
0	577	89%	75%
1	62	10%	21%
2	7	1%	4%
3	1	<<1%	<<1%
ALL	647	100%	100%

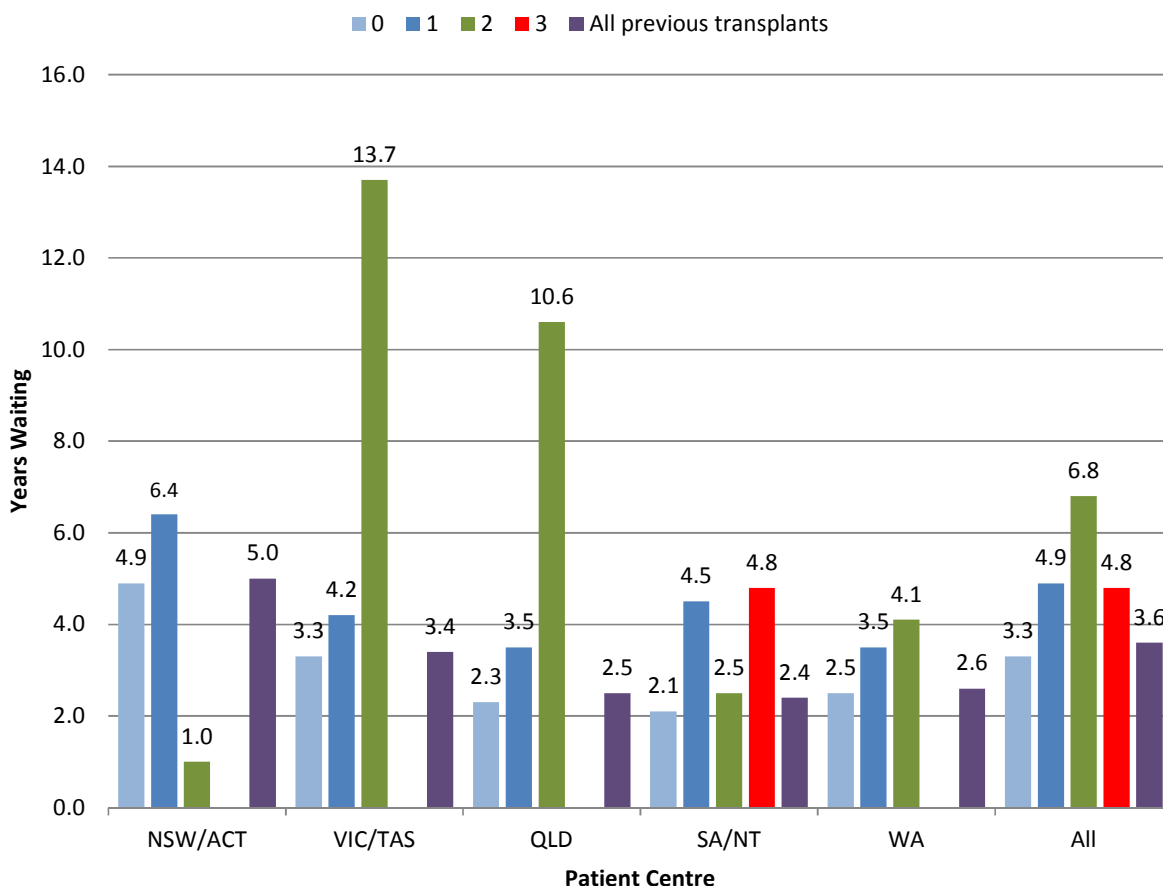
Percentage of previous transplants number for patients transplanted with a deceased donor kidney in 2013



2.15 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient previous transplant number and patient centre (n=647)

Patient Centre	Patient Previous transplant number					Median Wait (years)	Maximum Wait (years)
	Average wait (years)						
	0	1	2	3	All		
NSW/ACT	4.9	6.4	1.9	0.0	5.0	5.3	15.4
VIC/TAS	3.3	4.2	13.7	0.0	3.4	2.8	15.8
QLD	2.3	3.5	10.6	0.0	2.5	1.8	19.5
SA/NT	2.1	4.5	2.5	4.8	2.4	1.7	10.8
WA	2.5	3.5	4.1	0.0	2.6	2.2	9.0
ALL Centres	3.3	4.9	6.8	4.8	3.5	2.7	19.5

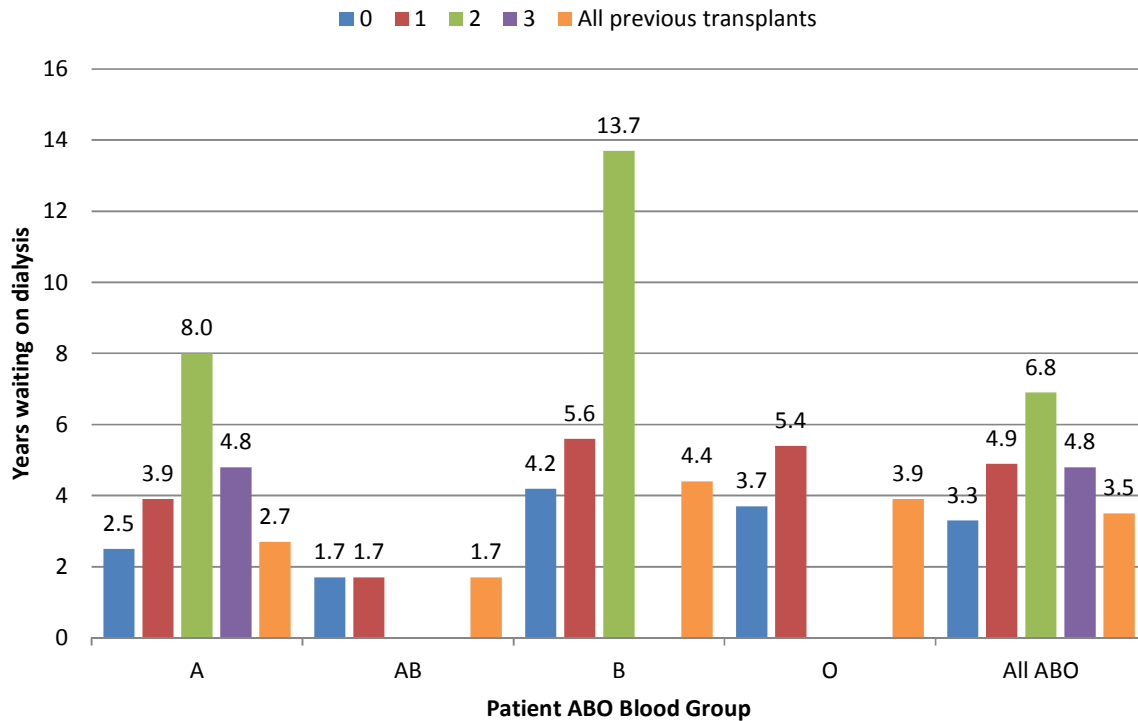
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient previous transplant number and patient centre (n=647)



2.16 Time waiting on dialysis in years for patients transplanted with deceased donor kidney in 2013 and previous transplants by patient ABO blood group (n=647)

Number of previous transplants	Patient ABO group				Average Wait (years)	Median Wait (years)	Maximum Wait (years)
	A	AB	B	O			
0	2.5	1.7	4.2	3.7	3.3	2.6	15.8
1	3.9	1.7	5.6	5.4	4.9	3.8	13.8
2	8.0	0.0	13.7	3.3	6.8	4.1	19.5
3	4.8	0.0	0.0	0.0	4.8	4.8	4.8
All Transplants	2.7	1.7	4.4	3.9	3.5	2.7	19.5

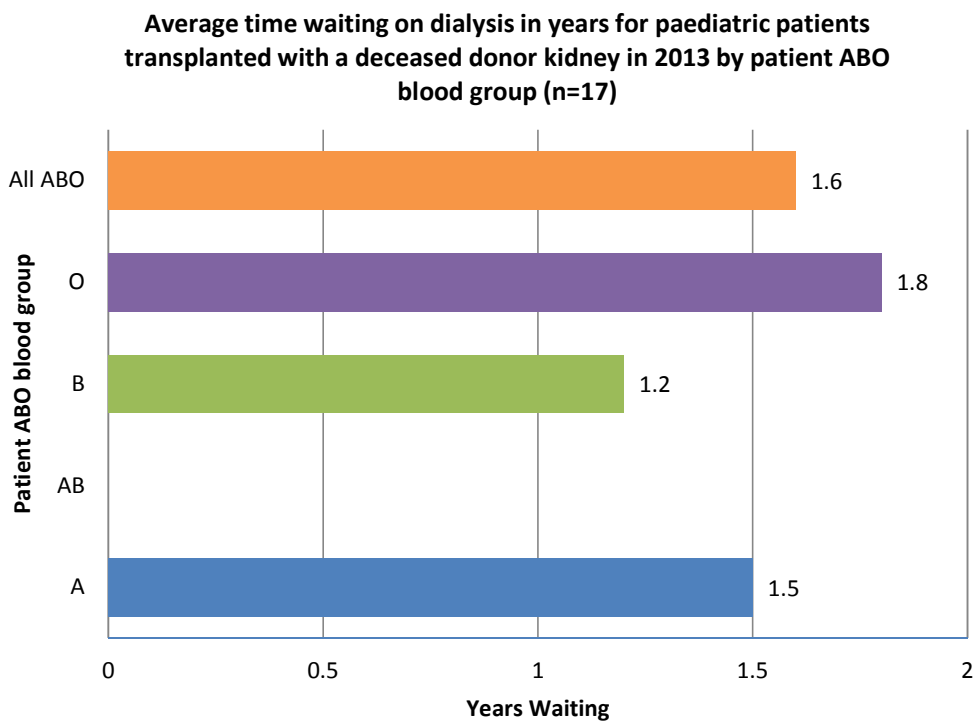
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 and previous transplants by patient ABO blood group (n=647)



2.17 Average time waiting on dialysis in years for paediatric patients transplanted with a deceased donor kidney in 2013 by patient ABO blood group (n=17)

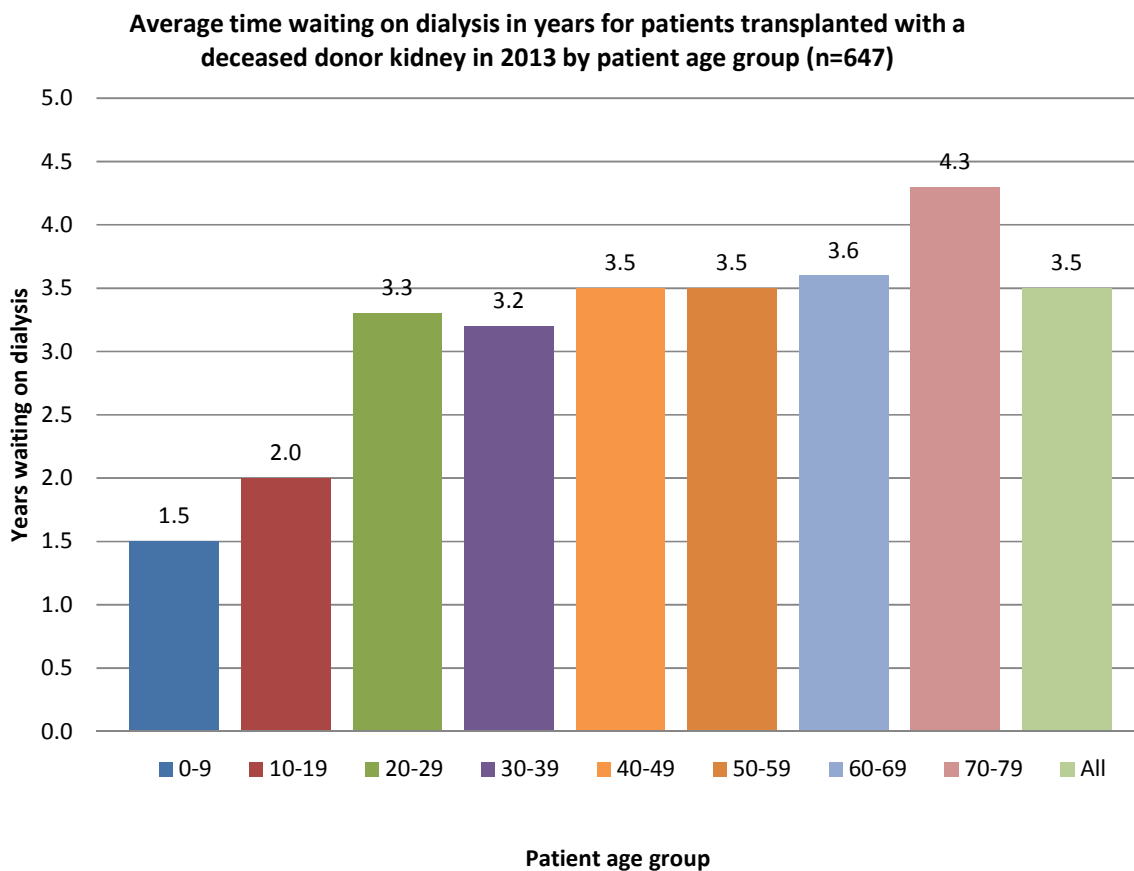
Patient status	A	AB	B	O	All ABO
Paediatric* (n=17)	1.5	n/a	1.2	1.8	1.6
ALL Patients	2.7	1.7	4.4	3.9	3.5

**Paediatric status in NOMS is currently defined in NOMS as patients whose current age is less than 18 years, first dialysis date was at an age less than 17 years, and time since 'dialysis for matching' date is greater than 1 year.*



2.18 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient age group (n=647)

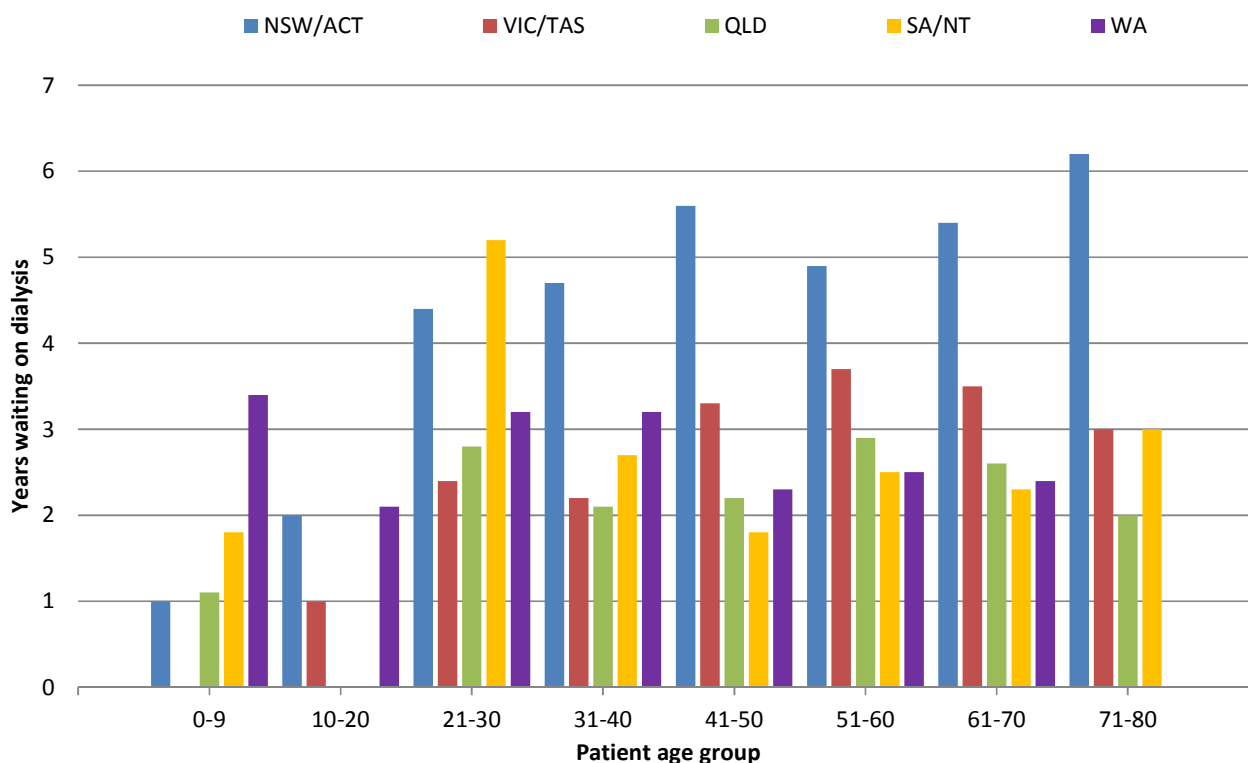
Age group	Number of patients transplanted	Percentage of patients transplanted	Average waiting time (years)	Median waiting time (years)	Maximum waiting time (years)
0-9	10	2%	1.5	1.3	3.4
10-19	12	2%	2.0	1.0	9.8
20-29	45	7%	3.3	3.3	8.4
30-39	69	10%	3.2	2.6	15.4
40-49	140	22%	3.5	2.5	15.8
50-59	171	26%	3.5	2.6	15.8
60-69	183	28%	3.6	3.0	19.5
70-79	17	3%	4.3	3.7	13.5
ALL	647	100%	3.5	2.7	19.5



2.19 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 by patient age group and patient centre (n=647)

Centre	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	Average waiting time (years)	Median waiting time (years)	Maximum waiting time (years)
NSW/ACT	1.0	2.0	4.4	4.7	5.6	4.9	5.4	6.2	5.0	5.3	15.4
VIC/TAS	0.0	1.0	2.4	2.2	3.3	3.7	3.5	3.0	3.4	2.8	15.8
QLD	1.1	0.0	2.8	2.1	2.2	2.9	2.6	2.0	2.5	1.8	19.5
SA/NT	1.8	0.0	5.2	2.7	1.8	2.5	2.3	3.0	2.4	1.7	10.8
WA	3.4	2.1	3.2	3.2	2.3	2.5	2.4	0.0	2.6	2.2	9.0
ALL Centres	1.5	2.0	3.3	3.2	3.5	3.5	3.6	4.3	3.5	2.7	19.5

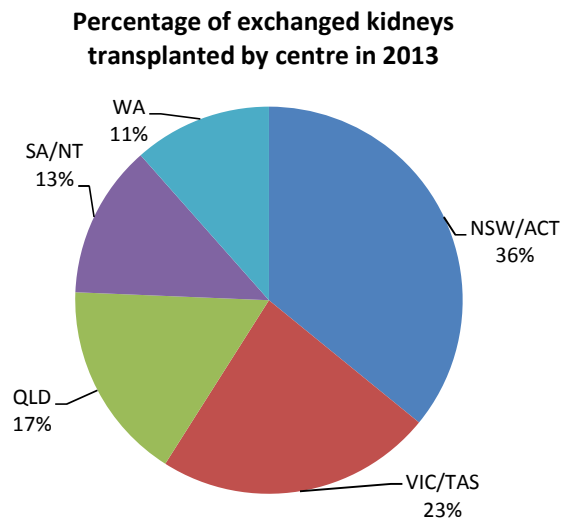
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2013 and patient age group and patient centre (n=647)



3. INTERSTATE EXCHANGE OF DECEASED DONOR KIDNEYS IN 2013

3.1 Number of exchanged kidneys transplanted by centre in 2013

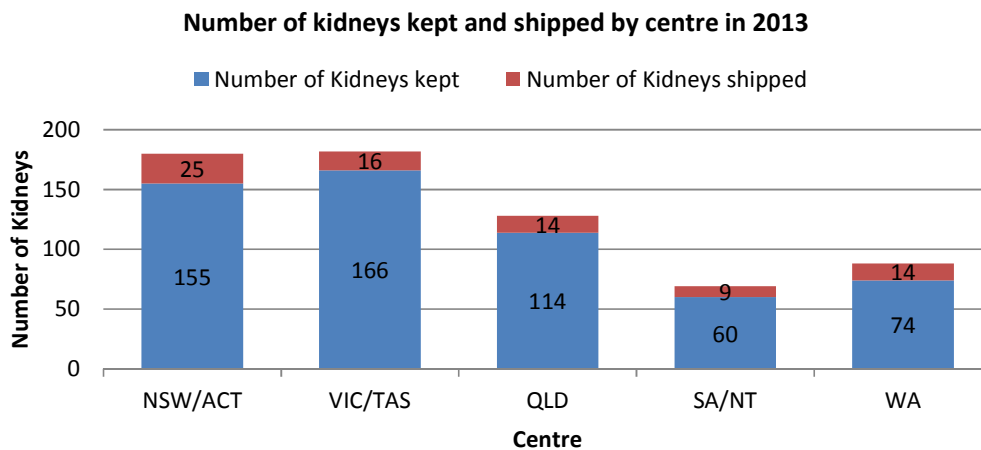
Transplant Centre	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
NSW/ACT	28	36%
VIC/TAS	18	23%
QLD	13	17%
SA/NT	10	13%
WA	9	11%
ALL	78	100%



3.2 Number of kidneys kept and shipped by centre in 2013

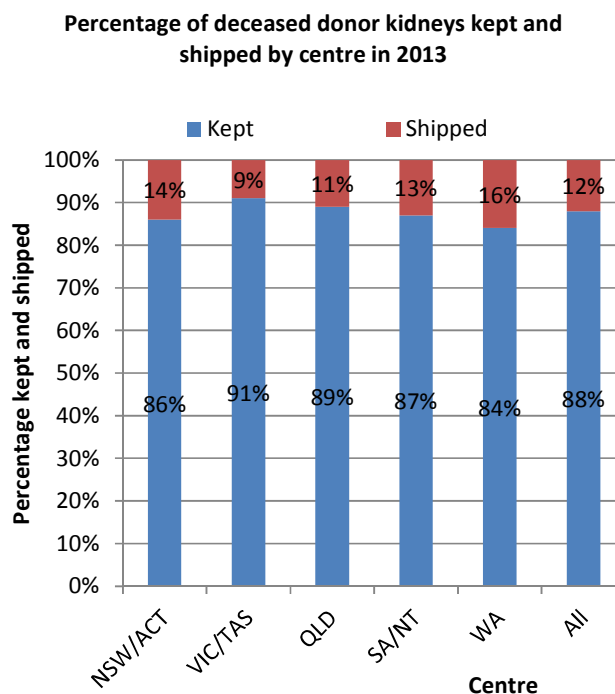
Transplant Centre	Number of kidneys kept	Number of kidneys shipped	Total number of kidneys from centre
NSW/ACT	155*	25	180
VIC/TAS	166	16	182
QLD	114	14	128
SA/NT	60	9	69
WA	74	14	88
ALL	569	78	647

*includes 2 kidneys sent to NSW from a deceased donor from Noumea for transplant into two Noumean patients



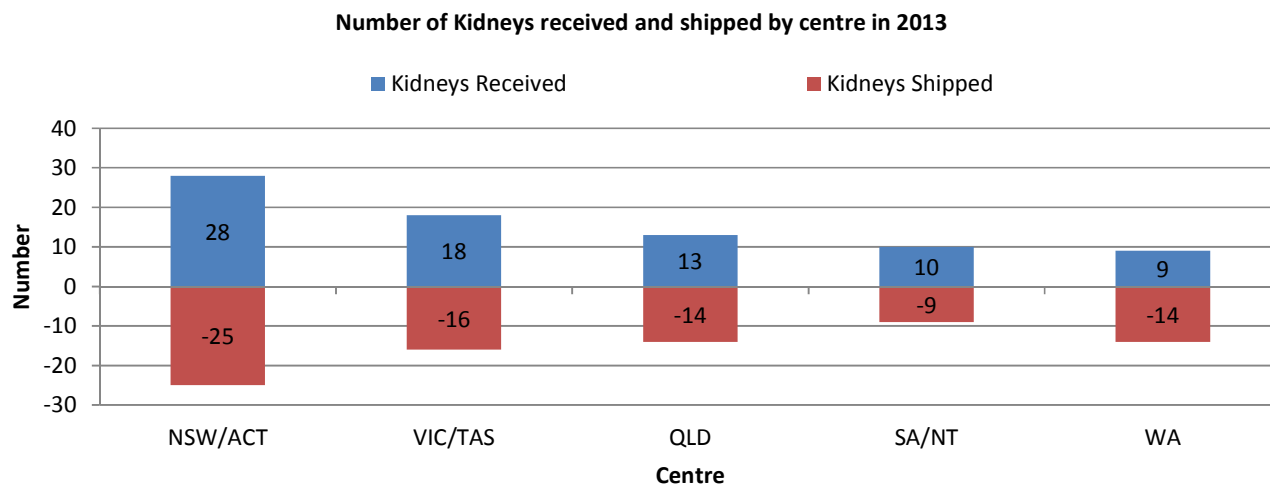
3.3 Percentage of deceased donor kidneys kept and shipped by centre in 2013

Transplant Centre	Percentage kept	Percentage shipped
NSW/ACT	86%	14%
VIC/TAS	91%	9%
QLD	89%	11%
SA/NT	87%	13%
WA	84%	16%
ALL	88%	12%



3.4 Number of kidneys received and shipped by centre in 2013

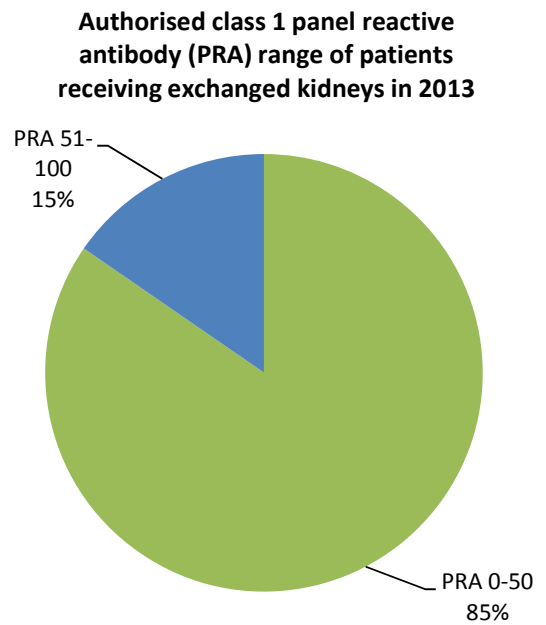
Transplant Centre	Number of kidneys received	Number of kidneys shipped	Difference (received – shipped)
NSW/ACT	28	25	3
VIC/TAS	18	16	2
QLD	13	14	-1
SA/NT	10	9	1
WA	9	14	-5
ALL	78	78	0



3.5 Authorised class 1 panel reactive antibody (PRA) range of patients receiving exchanged kidneys in 2013

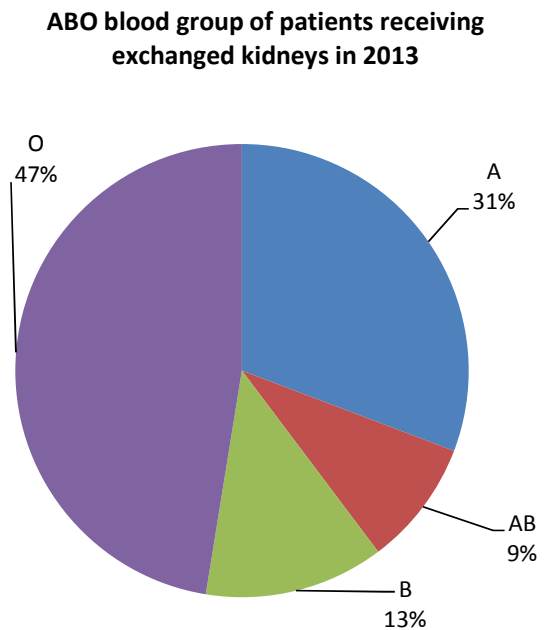
Patient Authorised Class 1 PRA	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
0-50 % [#]	66	85%
51-100%	12	15%
ALL	78	100%

[#]Patients with unknown authorised class 1 PRA were assumed to be 0%



3.6 ABO blood group of patients receiving exchanged kidneys in 2013

Patient ABO blood group	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
A	24	31%
AB	7	9%
B	10	13%
O	37	47%
ALL	78	100%



3.7 Computerised Interstate Exchange Balances

DATE	NSW/ ACT	QLD	SA/ NT	VIC/ TAS	WA
22/8/1991	-4	+8	+5	-9	n/a
31/8/1992	-13	+24	+8	-19	n/a
5/1/1993	-12	+28	+1	-17	n/a
2/9/1994	-5	+6	-1	-4	+4
4/1/1995	+2	+2	0	-8	+4
2/1/1996	-2	+2	-1	-3	+4
4/2/1997	-2	+5	+8	-8	-3
10/3/1998	-8	+1	+10	+1	-4
7/1/1999	+1	-1	+7	-1	-6
4/4/2000	+1	0	+4	-2	-3
15/3/2001	-5	+3	+5	-2	-1
3/4/2002	0	+1	+3	+1	-5
6/1/2003	-2	+2	+6	0	-6
6/7/2004	-3	+2	+7	-5	-1
29/4/2005	-9	-1	+11	0	-1
3/4/2006	-6	0	+11	-3	-2
16/3/2007	-1	+1	+5	-1	-4
2/4/2008	-1	0	+4	0	-3
31/3/2009	-2	0	+4	0	-2
16/4/2010	-2	0	+3	-1	0
8/4/2011	-2	0	+3	0	-1
3/4/2012	-5	+3	+2	-2	+2
1/4/2013	-3	+1	+5	0	-3
1/4/2014	-1	-1	+6	-3	-1

'+' implies a cumulative net outflow of kidneys to the date given

'-' implies a cumulative net inflow of kidneys to the date given

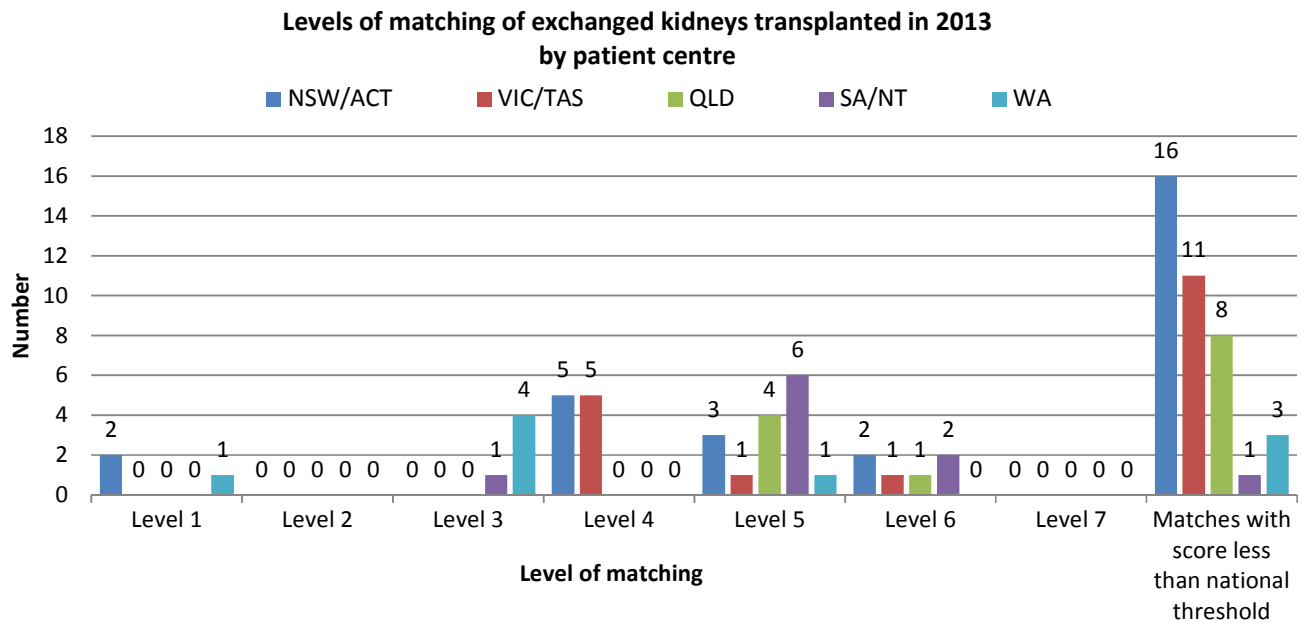
3.8 Current kidney matching national algorithm

Algorithm	Match Level	Criteria	Score
Australian National	1	Base Score if (HLA A + B + DR mismatches = 0) and (Class 1 authorised Panel Reactive Antibodies not < 50%) (Level 1 match)	60 000 000
	2	Base Score if (HLA A + B + DR mismatches = 1) and (Class 1 authorised Panel Reactive Antibodies > 80%) (Level 2 match)	59 000 000
	3	Base Score if (HLA A + B + DR mismatches = 2) and (Class 1 authorised Panel Reactive Antibodies > 80%) (Level 3 match)	58 000 000
	4	Base Score if (HLA A + B + DR mismatches = 0) and (Class 1 authorised Panel Reactive Antibodies < 50%) (Level 4 match)	57 000 000
	5	Base Score if (HLA DR mismatches = 0) and (HLA A+B mismatches = 1) and (Class 1 authorised Panel Reactive Antibodies not > 80%) and centre credit difference (donor centre credit – patient centre credit) <= -3 (Level 5 match)	56 000 000
	6	Base Score if (HLA DR mismatches = 0) and (HLA A+B mismatches = 2) and (Class 1 authorised Panel Reactive Antibodies not > 80%) and centre credit difference (donor centre credit – patient centre credit) <= -6 (Level 6 match)	55 000 000
	7	Base Score if score is null and centre credit difference (donor centre credit – patient centre credit) < -20 (Level 7 match)	54 000 000
		Paediatric	+30 000
		If donor centre = patient centre	+50 000
		Centre credit balance	+(1000 + patient centre credit)
		Each month Waiting on dialysis	+1
		Lower Threshold for National Algorithm	54 000 000
Australian National Override		Base Score	0
		Paediatric	+30 000
		Antibody (for each % of authorised antibody > threshold of 50%)	+1000
		Each month Waiting on dialysis	+100

3.9 Levels of matching of exchanged kidneys transplanted in 2013 by patient centre

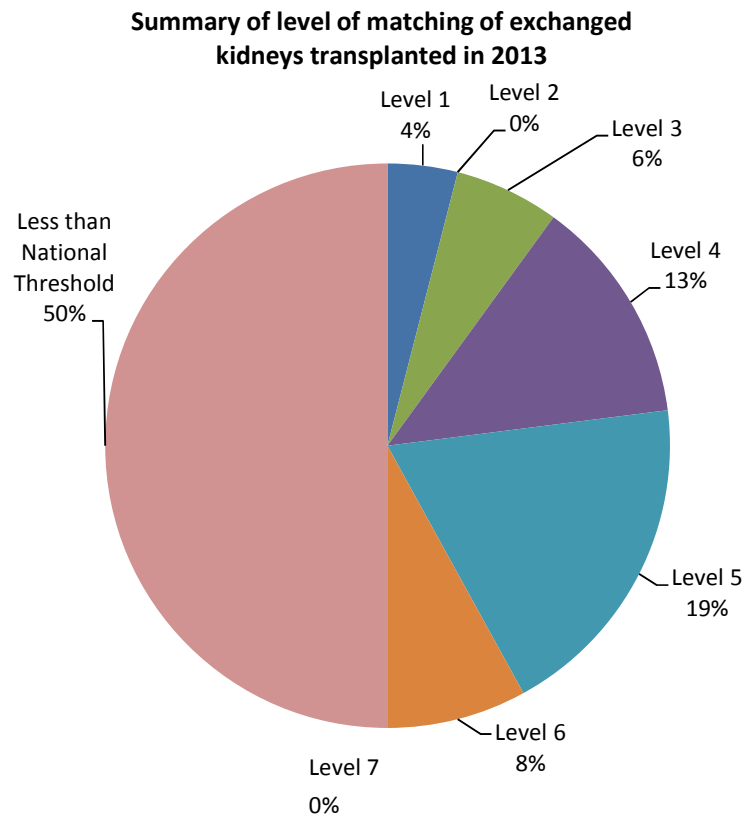
Patient Centre	Level of matching on national algorithm								All
	1	2	3	4	5	6	7	Matches with score less than national threshold	
NSW/ACT	2	0	0	5	3	2	0	16 ^{&x4,*x10,cc}	28
VIC/TAS	0	0	0	5	1	1	0	11 ^{&x6,*x5}	18
QLD	0	0	0	0	4	1	0	8 ^{&x7,*}	13
SA/NT	0	0	1	0	6	2	0	1 [*]	10
WA	1	0	4	0	1	0	0	3 ^{&&&}	9
ALL	3	0	5	10	15	6	0	39	78
%	4%	0%	6%	13%	19%	8%	0%	50%	100%

& Manually allocated for multi-organ transplant
 * National Override Used to allocate A, B or AB donor kidneys
 C Manual allocation for Hepatitis C positive donor kidneys



3.10 Summary of level of matching of exchanged kidneys transplanted in 2013

Level of matching	Percentage of exchanged kidneys
Level 1 (60 000 000 +)	4%
Level 2 (59 000 000 – 59 999 999)	0%
Level 3 (58 000 000 – 58 999 999)	6%
Level 4 (57 000 000 – 57 999 999)	13%
Level 5 (56 000 000 – 56 999 999)	19%
Level 6 (55 000 000 – 55 999 999)	8%
Level 7 (54 000 000 – 54 999 999)	0%
Less than 54 000 000	50%
ALL	100%



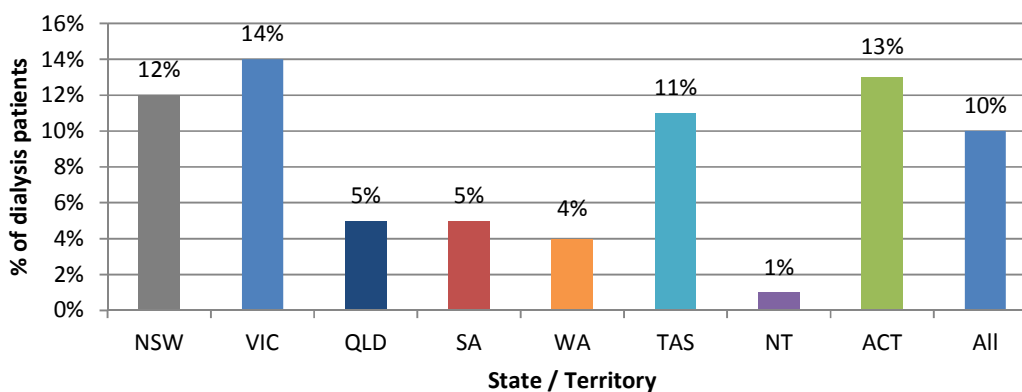
4. MISCELLANEOUS REPORTS

4.1 Number of active patients awaiting kidney transplant by patient state or territory as percentage of dialysing patients as at 31/12/2012[#]

State / Territory	Number of active patients (1/4/2014) (from table 1.2)	% of all patients on active waiting list (1/4/2014) (from table 1.2)	Number of patients on dialysis as at 31/12/2012 [#]	State / Territory % of total dialysing patients [#]	% of dialysing patients on active waiting list from that State/Territory [#]
NSW	455	41%	3707	33%	12%
VIC	397	36%	2792	25%	14%
QLD	108	10%	2085	18%	5%
SA	39	4%	733	6%	5%
WA	42	4%	1144	10%	4%
TAS	24	2%	214	2%	11%
NT	7	0%	502	4%	1%
ACT	34	3%	269	2%	13%
ALL	1106	100%	11446	100%	10%

#Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Australia and New Zealand Dialysis and Transplantation 2012' report. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

Percentage of active patients awaiting kidney transplant on 1/4/2014 by patient state or territory as percentage of dialysing patients as at 31/12/12[#]

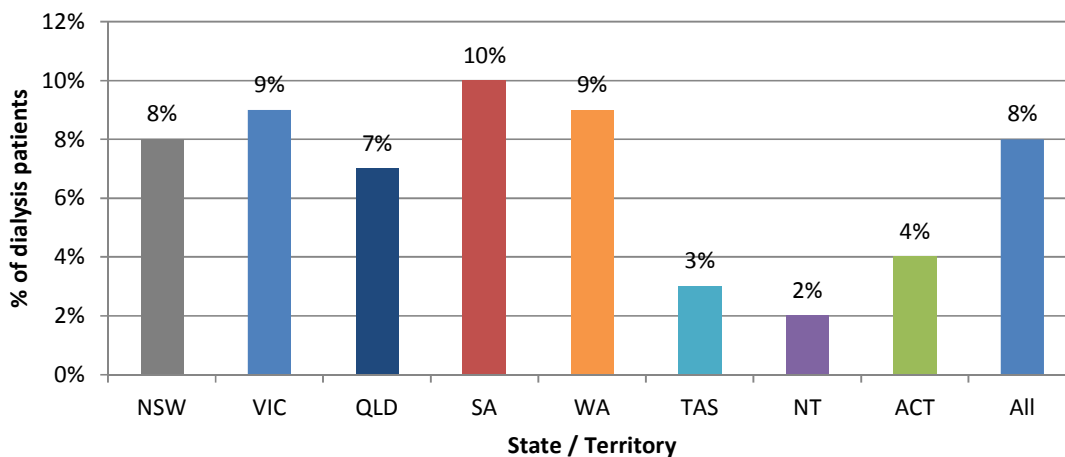


4.2 Number of transplanted kidneys in 2013 by patient state or territory (live and deceased donors) as percentage of patients dialysing at 31/12/2012#

Patient State / Territory	Number of transplanted kidneys in 2013 (from table 2.1)	% of all kidneys transplanted in 2013 (from table 2.1)	Number of patients on dialysis as at 31/12/2012#	Number of transplanted patients in 2013 as a % of total patients on dialysis for that state/territory as at 31/12/2012#
NSW	282	31%	3707	8%
VIC	262	29%	2792	9%
QLD	151	17%	2085	7%
SA	73	8%	733	10%
WA	105	12%	1144	9%
TAS	7	1%	214	3%
NT	9	1%	502	2%
ACT	12	1%	269	4%
ALL	901	100%	11446	8%

#Dialysis Data reported is from the 'Summary of Australia and New Zealand Dialysis and Transplantation 2012' report published on the ANZDATA website. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

Percentage of transplanted kidneys in 2013 by patient state or territory (live and deceased donors) as percentage of patients dialysing as at 31/12/12#

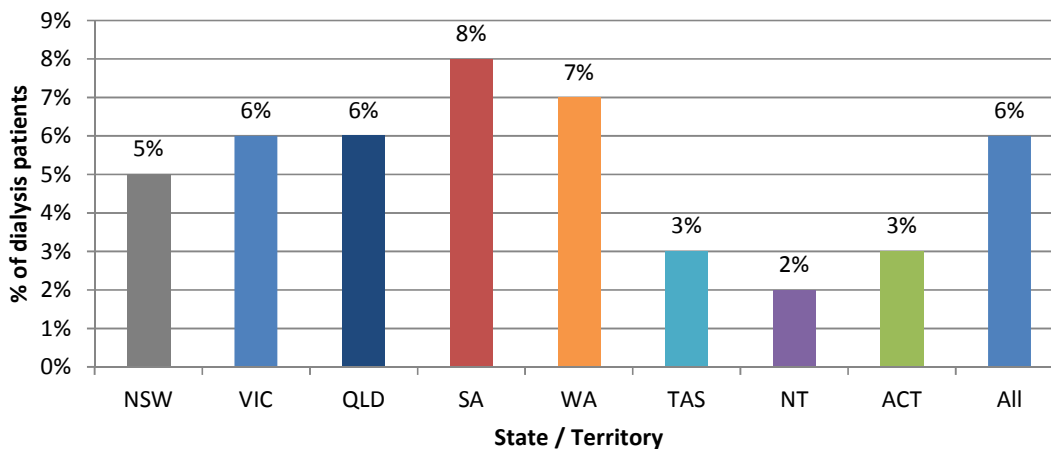


4.3 Number of kidneys transplanted from deceased donors in 2013 by patient state or territory as percentage of patients dialysing as at 31/12/2012#

Patient State / Territory	Number of deceased donor transplants in 2013 (from table 2.2)	Percentage of all deceased donor kidney transplants in 2013 (from table 2.2)	Number of patients on dialysis as at 31/12/2012#	Number of transplanted patients in 2012 with deceased donor kidney as a % of total patients on dialysis for that state/territory as at 31/12/2012#
NSW	175	27%	3707	5%
VIC	178	28%	2792	6%
QLD	127	20%	2085	6%
SA	61	9%	733	8%
WA	83	13%	1144	7%
TAS	6	1%	214	3%
NT	9	1%	502	2%
ACT	8	1%	269	3%
ALL	647	100%	11446	6%

#Dialysis Data reported is from the 'Summary of Australia and New Zealand Dialysis and Transplantation 2012' report published on the ANZDATA website. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

Percentage of kidneys transplanted from deceased donors in 2013 by patient state or territory as percentage of patients dialysing as at 31/12/12#

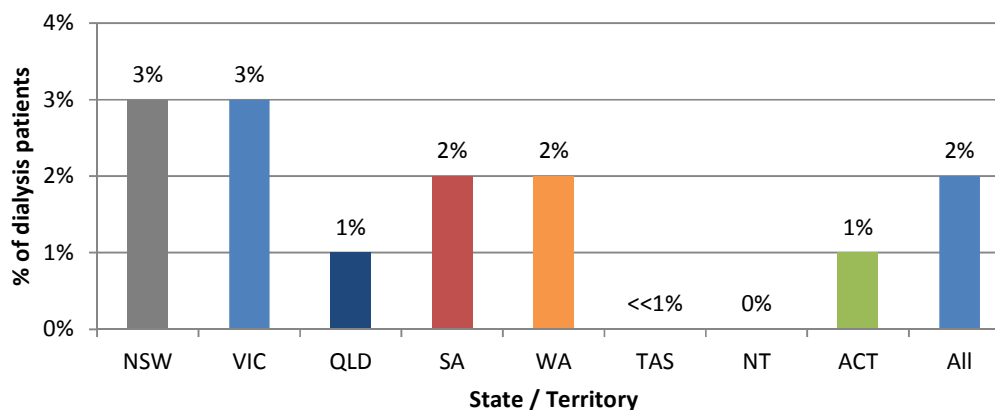


4.4 Number of living donor kidney transplants in 2013 by patient state or territory as percentage of patients dialysing as at 31/12/2012[#]

Patient State / Territory	Number of kidneys transplanted from live donors in 2013 (from table 2.4)	Percentage of all live donor kidney transplants in 2013 (from table 2.4)	Number of patients on dialysis as at 31/12/2012 [#]	Number of transplanted patients in 2011 with live donor kidney as a % of total patients on dialysis for that state/territory as at 31/12/2012 [#]
NSW	107	42%	3707	3%
VIC	84	33%	2792	3%
QLD	24	9%	2085	1%
SA	12	5%	733	2%
WA	22	9%	1144	2%
TAS	1	<<1%	214	0%
NT	0	0%	502	0%
ACT	4	2%	269	1%
ALL	254	100%	11446	2%

[#]Dialysis Data reported is from the 'Summary of Australia and New Zealand Dialysis and Transplantation 2012' report published on the ANZDATA website. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

Percentage of living donor kidney transplants in 2013 by patient state or territory as percentage of patients dialysing as at 31/12/12[#]

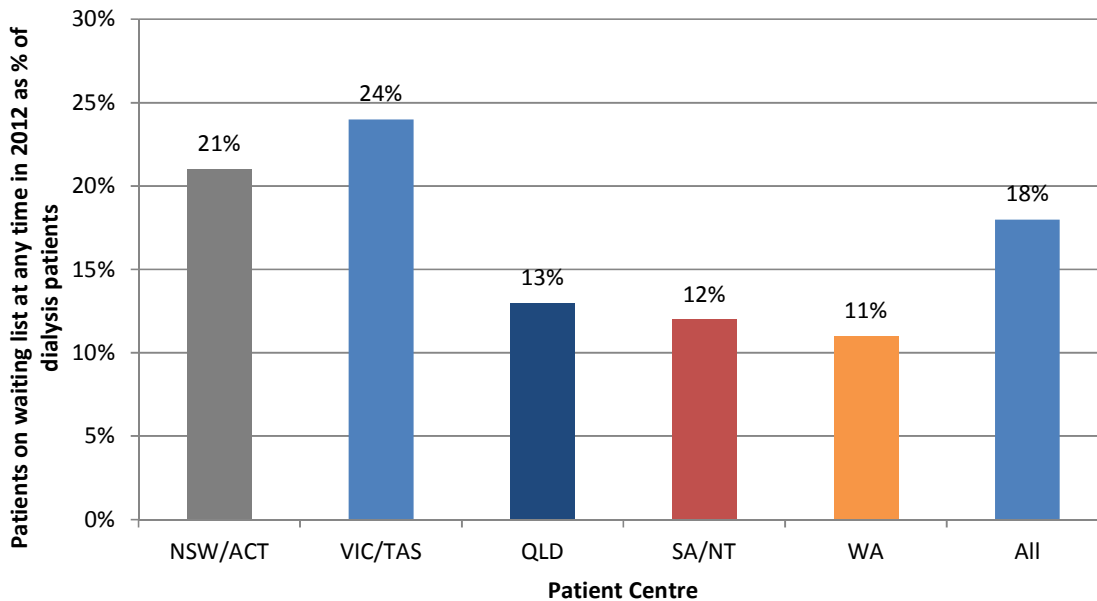


4.5 Number of patients on the kidney transplant waiting list at any time during 2013 by patient centre as percentage of patients dialysing as at 31/12/2012#

Patient State / Territory	Number of patients on the waiting list at any time during 2013	Number of patients on dialysis as at 31/12/2012#	Number of patients on the waiting list at any time during the year of 2013 as % of total patients on dialysis for that state/territory as at 31/12/2012#
NSW/ACT	819	3976	21%
VIC/TAS	709	3006	24%
QLD	266	2085	13%
SA/NT	146	1235	12%
WA	123	1144	11%
ALL	2063	11446	18%

#Dialysis Data reported is from the 'Summary of Australia and New Zealand Dialysis and Transplantation 2012' report published on the ANZDATA website. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the Australia and New Zealand Dialysis and Transplant Registry.

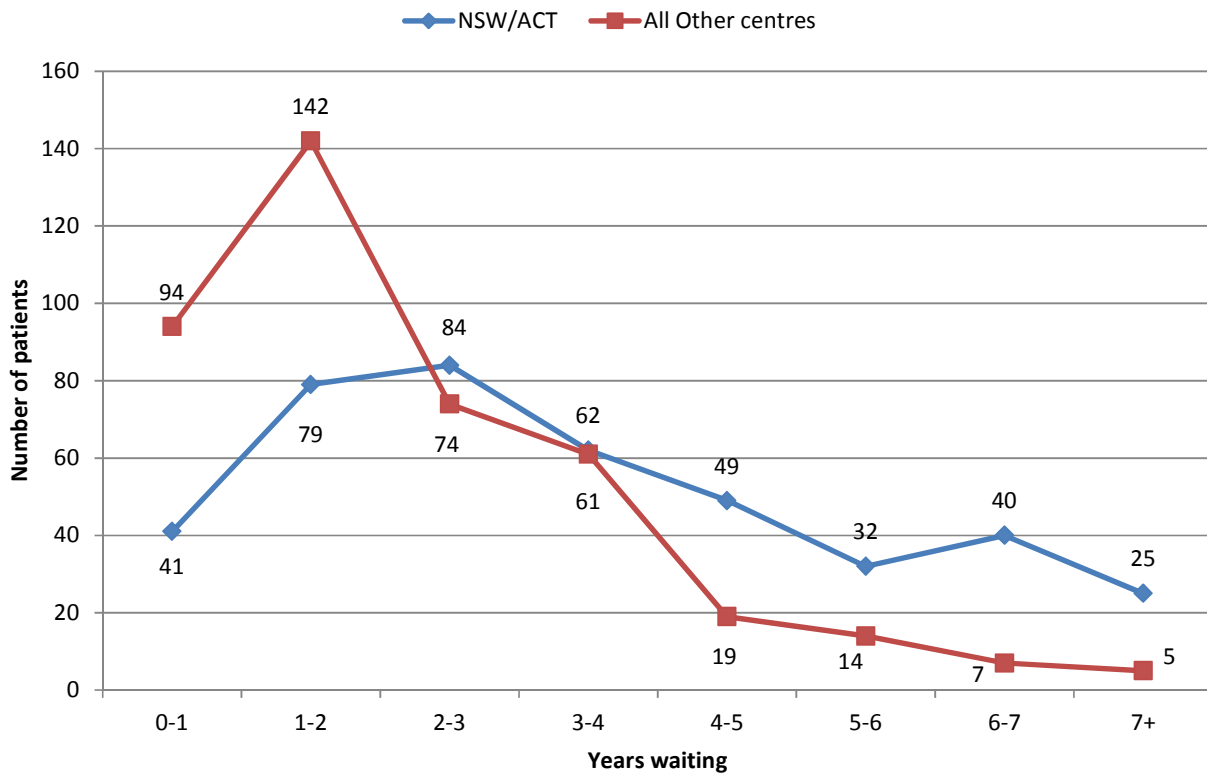
Percentage of patients on the kidney transplant waiting list at any time during 2013 by patient centre as percentage of patients dialysing as at 31/12/2012#



4.6 Years waiting for first kidney transplant for NSW/ACT and other centres on 1/4/2014

Centre	Years Waiting								Total
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7+	
NSW/ACT	41	79	84	62	49	32	40	25	412
All other centres	94	142	74	61	19	14	7	5	416
ALL	135	221	158	123	68	46	47	30	828

Years waiting for first kidney transplant for NSW/ACT and other centres on 1/4/2014



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