

Analysis of Kidney Allocation During 2014

National Organ Matching System

This is an 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 2014

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 2014

This section examines those patients who were transplanted with a kidney during 2014. In 2014 there were 10 patients from Noumea listed in the NOMS who were transplanted in NSW with deceased Noumean donor kidneys. Data for these patients were removed wherever possible from the analysis for those tables where n=657. Tables where n=667 included these patients.

Section 3 – Interstate Exchange of Deceased Donor Kidneys in 2014

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 2015.

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'

Authors: Jenni Wright, Shelvin Narayan

Date: 15th May 2015

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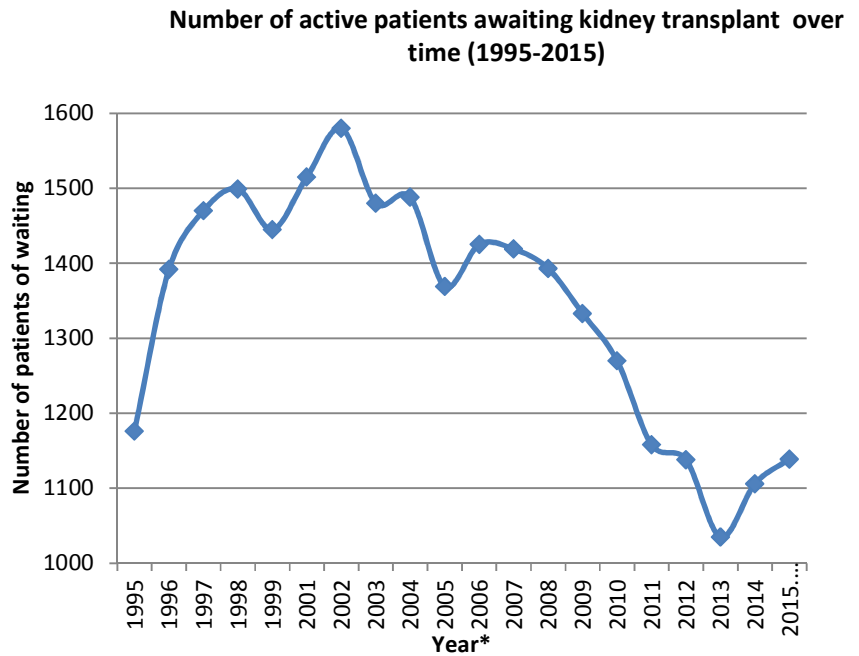
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1. THE CURRENT STATUS OF THE AUSTRALIAN KIDNEY TRANSPLANT WAITING LIST

1.1 Number of active patients awaiting kidney transplant over time (1995 – 2015)

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
1/4/2015	1139

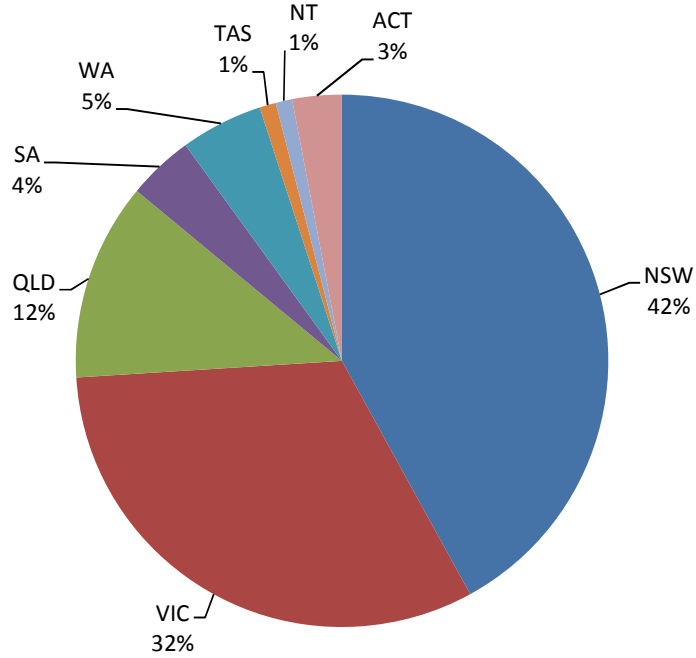


*data not available for 2000

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

State/ Territory	Number of active patients	Percentage of all patients
NSW	476	42%
VIC	361	32%
QLD	135	12%
SA	52	4%
WA	55	5%
TAS	18	1%
NT	8	1%
ACT	34	3%
ALL	1139	100%

Percentage of active patients awaiting kidney transplant by state or territory

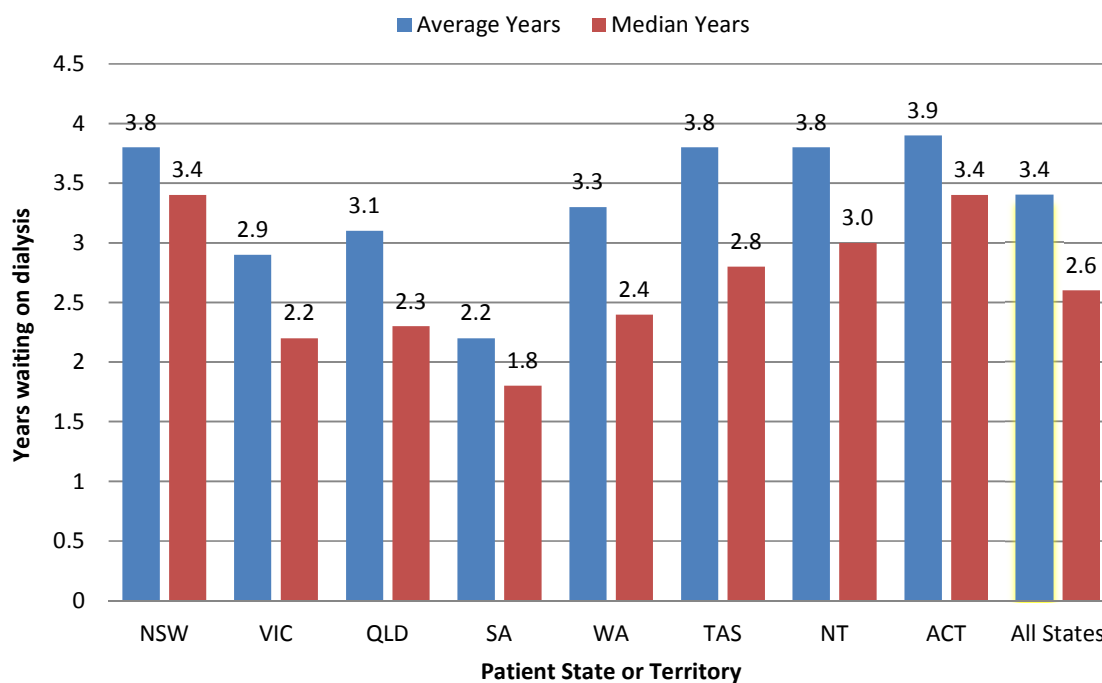


1.3 Time waiting on dialysis in years for active patients awaiting kidney transplant by patient state or territory

State/ Territory	Average wait (years)	Median wait (years)	Maximum wait (years)
NSW	3.8	3.4	22.3*
VIC	2.9	2.2	20.6
QLD	3.1	2.3	11.8
SA	2.2	1.8	10.1
WA	3.3	2.4	10.9
TAS	3.8	2.8	14.7
NT	3.8	3.0	10.5
ACT	3.9	3.4	11.1
ALL	3.4	2.6	22.3

*Longest waiting patient is from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A

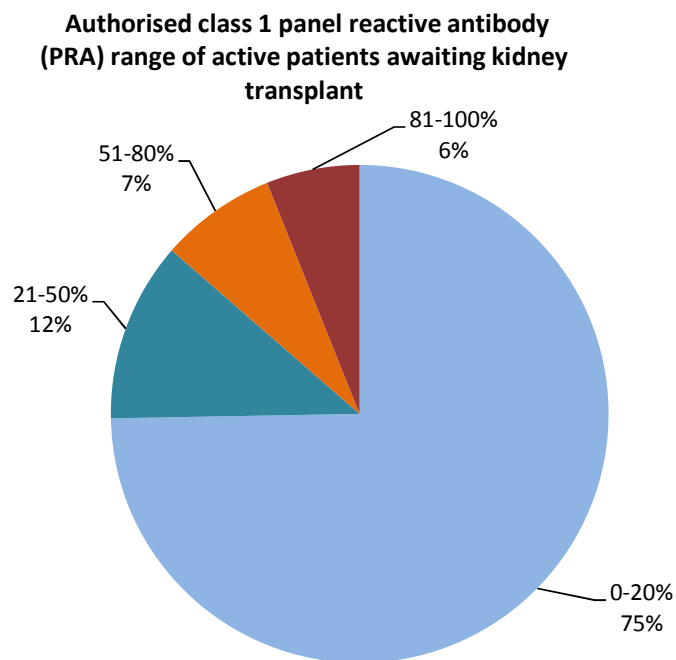
Time waiting on dialysis in years for active patients awaiting kidney transplant by patient state or territory



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

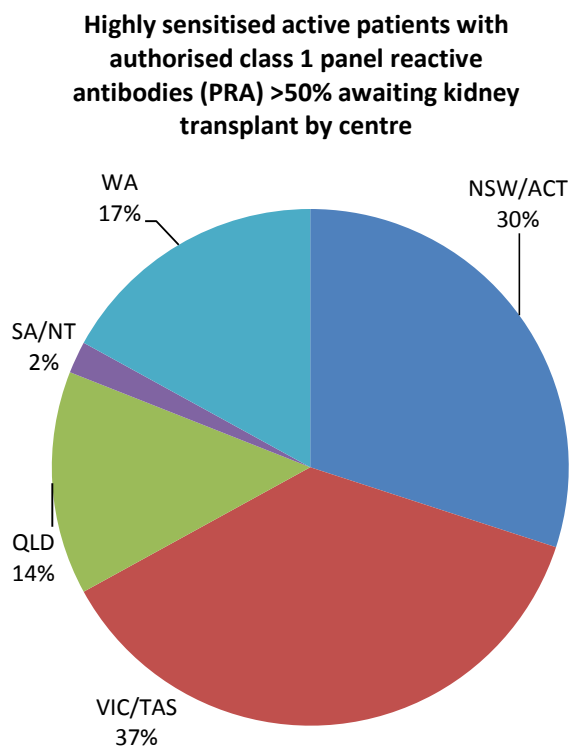
Patient authorised PRA	Number of patients	Percentage of all patients
0 – 20% #	851	75%
21- 50%	133	12%
51- 80%	86	7%
81-100%	69	6%
	1139	100%

#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	47	30%	45%
VIC/TAS	57	37%	33%
QLD	22	14%	12%
SA/NT	3	2%	5%
WA	26	17%	5%
ALL	155	100%	100%



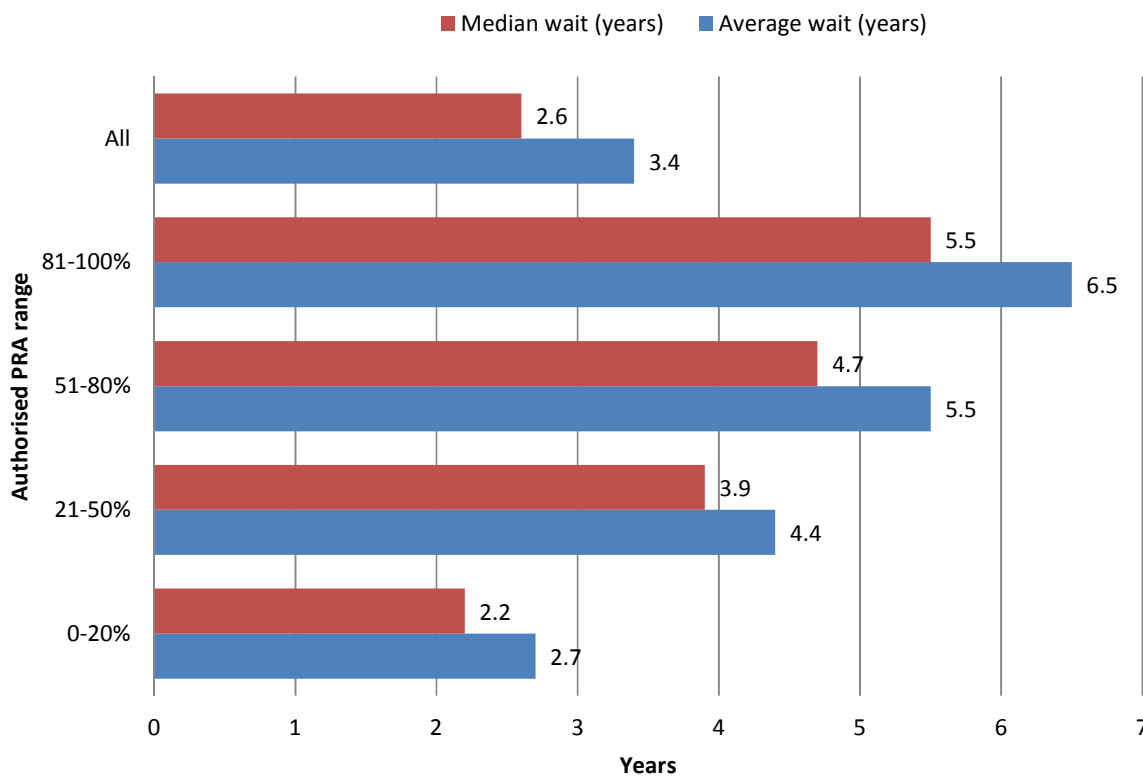
1.6 Time waiting on dialysis in years of active patients awaiting kidney transplant and patient authorised class 1 panel reactive antibody (PRA) range

Patient authorised PRA	% of all patients Waiting (from table 1.4)	Average wait (years)	Median wait (years)	Maximum wait (years)
0-20% [#]	75%	2.7	2.2	12.0
21-50%	12%	4.4	3.9	16.0
51-80%	7%	5.5	4.7	16.8
81-100%	6%	6.5	5.5	22.3
ALL	100%	3.4	2.6	22.3*

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

**Longest waiting patient is from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A*

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

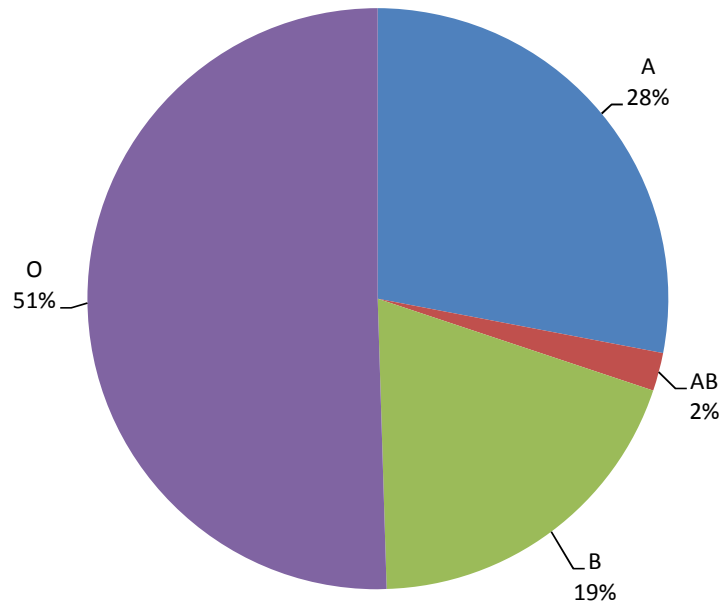


1.7 ABO blood groups of active patients awaiting kidney transplant

Patient ABO blood group	Number of patients	Percentage of all patients	Percentage of ABO groups in Australia*
A	319	28%	38%
AB	24	2%	3%
B	221	19%	10%
O	575	51%	49%
ALL	1139	100%	100%

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

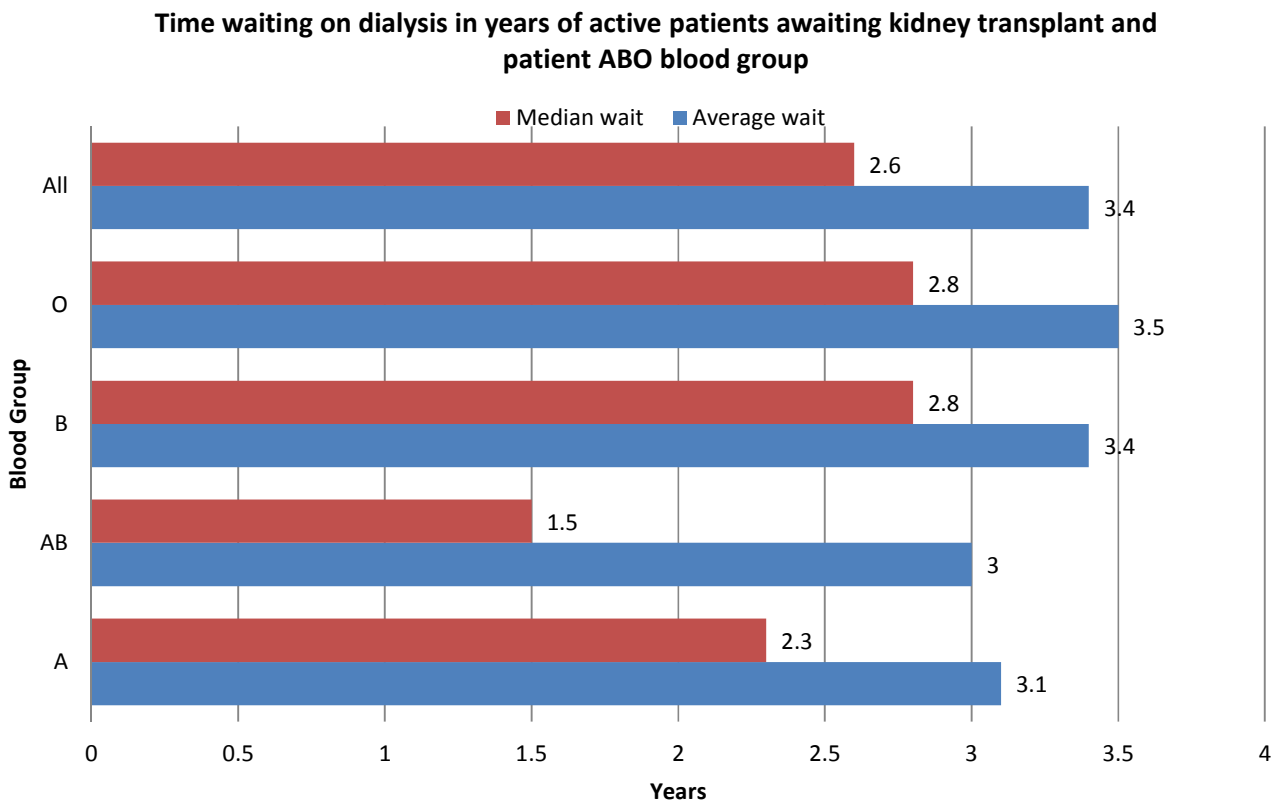
ABO blood groups of active patients awaiting kidney transplant



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	3.1	2.3	22.3*
AB	3.0	1.5	11.1
B	3.4	2.8	17.4
O	3.5	2.8	20.6
ALL	3.4	2.6	22.3

*Longest waiting patient is from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A

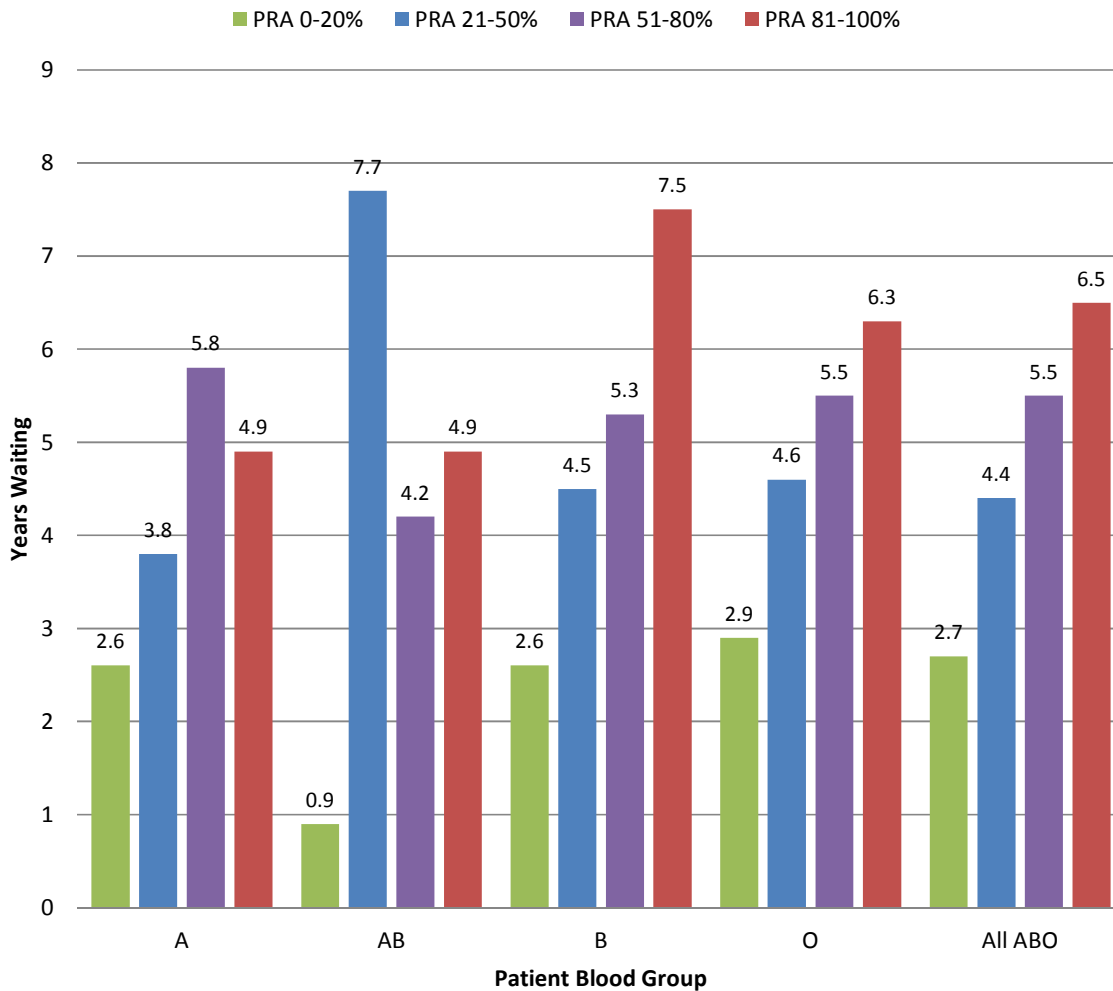


1.9 Time waiting on dialysis in years by authorised class I panel reactive antibody (PRA) range and patient ABO blood group

Patient Authorised PRA	Average Wait (years)					Median Wait (years)	Maximum Wait (years)
	A	AB	B	O	All ABO		
0-20%	2.6	0.9	2.6	2.9	2.7	2.2	12.0
21-50%	3.8	7.7	4.5	4.6	4.4	3.9	16.0
51-80%	5.8	4.2	5.3	5.5	5.5	4.8	16.8
81-100%	4.9	4.9	7.5	6.3	6.5	5.5	22.3*
ALL	3.1	3.0	3.4	3.5	3.4	2.6	22.3

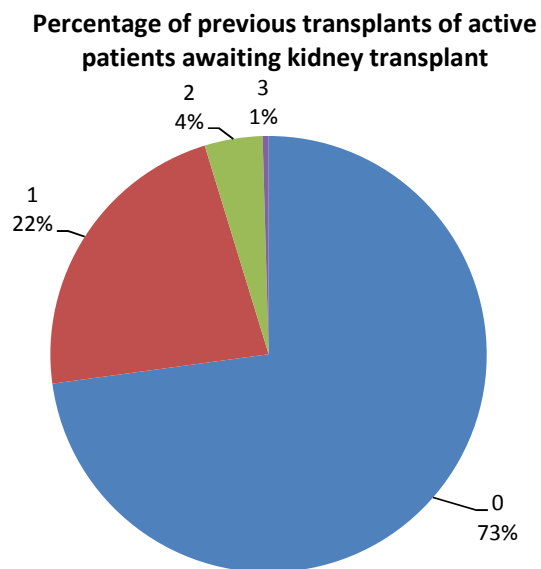
*Longest waiting patient is from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A

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	829	73%
1	255	22%
2	49	4%
3	6	1%
ALL	1139	100%

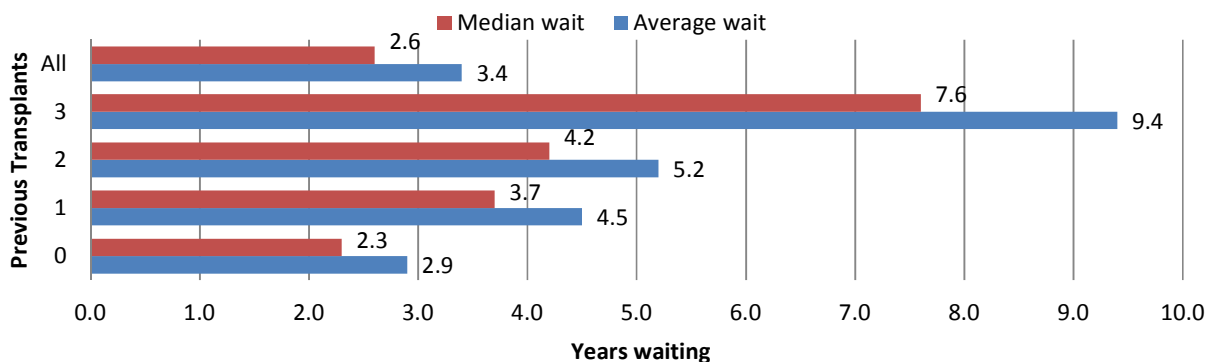


1.11 Time waiting on dialysis in years for active patients awaiting kidney transplant and number of previous transplants

Previous transplants	Number of patients	Average Wait (years)	Median Wait (years)	Maximum Wait (years)
0	829	2.9	2.3	18.7
1	255	4.5	3.7	20.6
2	49	5.2	4.2	16.4
3	6	9.4	7.6	22.3*
ALL	1139	3.4	2.6	22.3

*Longest waiting patient is from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A

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



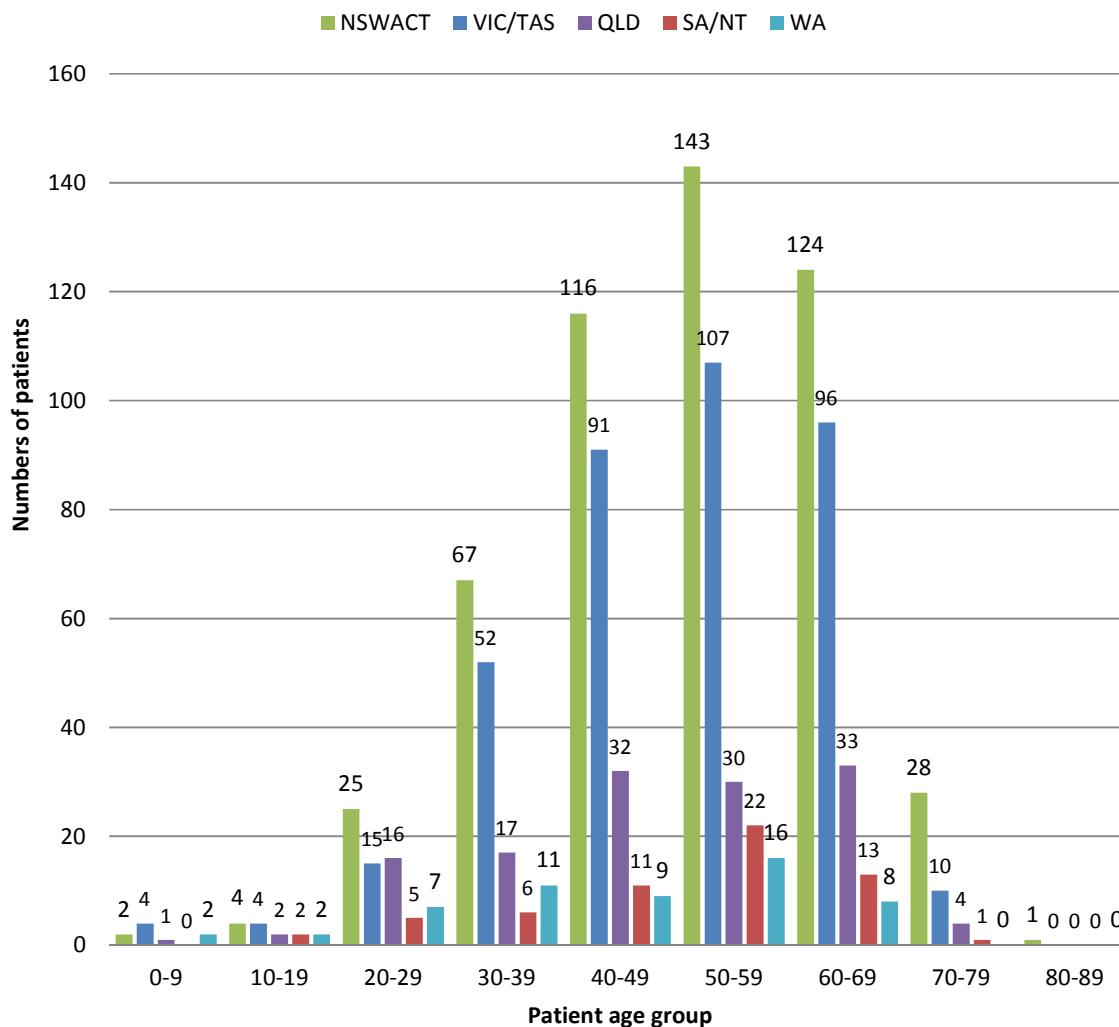
1.12 Age groups of active patients awaiting kidney transplant

State/Territory	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	ALL
NSW/ACT	2	4	25	67	116	143	124	28	1*	510
VIC/TAS	4 [#]	4	15	52	91	107	96	10	0	379
QLD	1	2	16	17	32	30	33	4	0	135
SA/NT	0	2	5	6	11	22	13	1	0	60
WA	2	2	7	11	9	16	8	0	0	55
ALL	9	14	68	153	259	318	274	43	1	1139
% of total	1%	1%	6%	13%	23%	28%	24%	4%	<<<1%	100%

*The oldest patient on the waiting list is an 80 year old from New South Wales (NJHH)

[#]The youngest patient on the waiting list is a 2 year old from Victoria (VRCH)

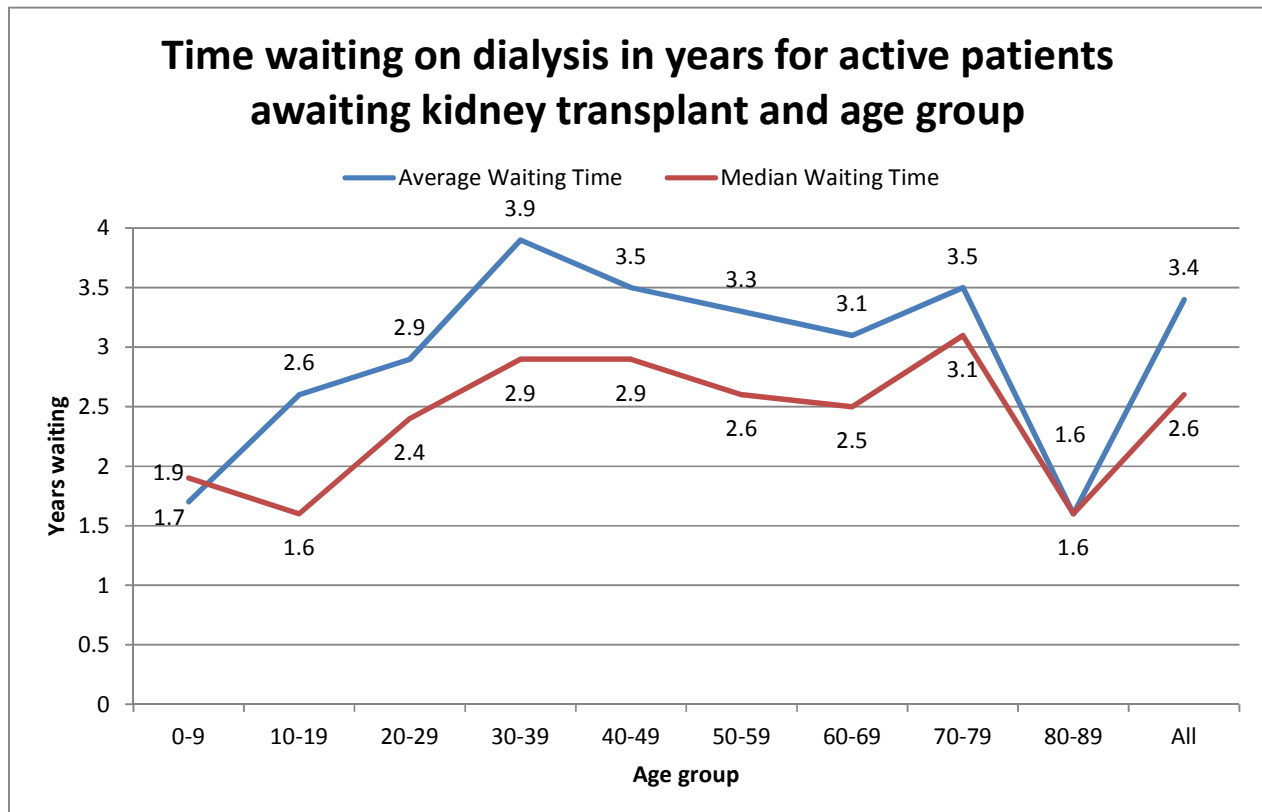
Age groups of active patients awaiting kidney transplant



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	1.7	1.9	2.4
10-19	14	2.6	1.6	7.1
20-29	68	2.9	2.4	8.2
30-39	153	3.9	2.9	16.8
40-49	259	3.5	2.9	18.7
50-59	318	3.3	2.6	22.3*
60-69	274	3.1	2.5	17.4
70-79	43	3.5	3.1	9.8
80-89	1	1.6	1.6	1.6
ALL	1139	3.4	2.6	22.3*

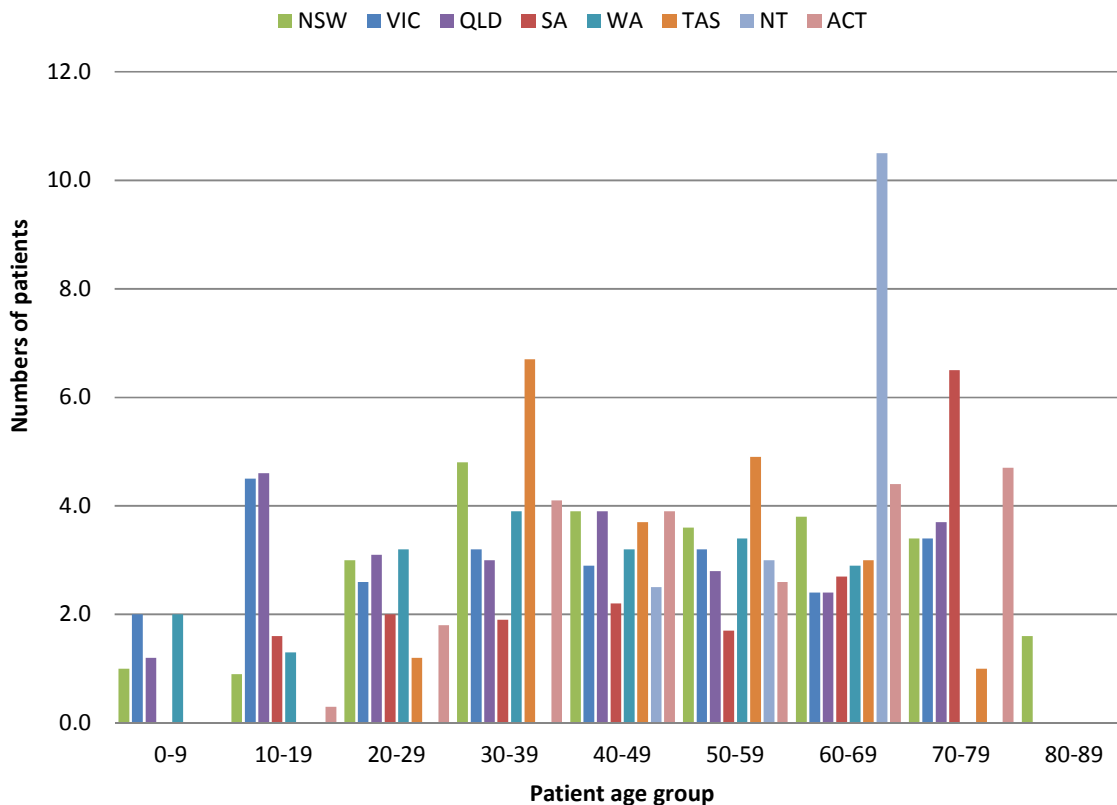
*Longest waiting patient is 60 year old from NSW with 3 previous transplants, 97% authorised class I antibodies and blood group A



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	80-89	ALL
NSW	1.0	0.9	3.0	4.8	3.9	3.6	3.8	3.4	1.6	3.8
VIC	2.0	4.5	2.6	3.2	2.9	3.2	2.4	3.4	0.0	2.9
QLD	1.2	4.6	3.1	3.0	3.9	2.8	2.4	3.7	0.0	3.0
SA	0.0	1.6	2.0	1.9	2.2	1.7	2.7	6.5	0.0	2.2
WA	2.0	1.3	3.2	3.9	3.2	3.4	2.9	0.0	0.0	3.3
TAS	0.0	0.0	1.2	6.7	3.7	4.9	3.0	1.0	0.0	3.8
NT	0.0	0.0	0.0	0.0	2.5	3.0	10.5	0.0	0.0	3.6
ACT	0.0	0.3	1.8	4.1	3.9	2.6	4.4	4.7	0.0	3.9
ALL	1.7	2.6	2.9	3.9	3.5	3.3	3.1	3.5	1.6	3.4

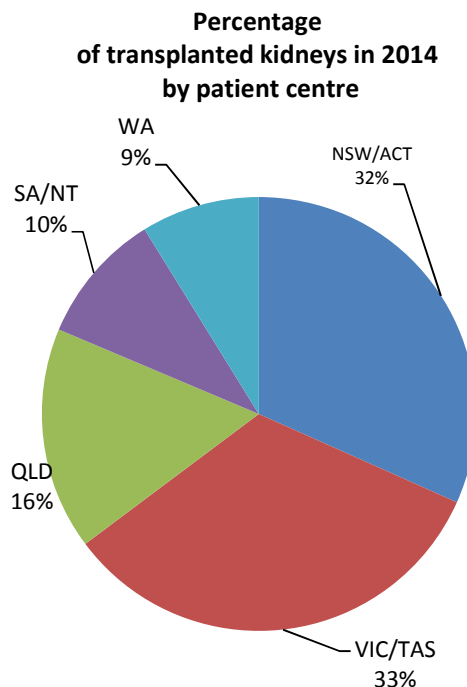
Average time waiting on dialysis in years for active patients awaiting kidney transplant by age group and patient state/territory



2. KIDNEY TRANSPLANTS DURING 2014

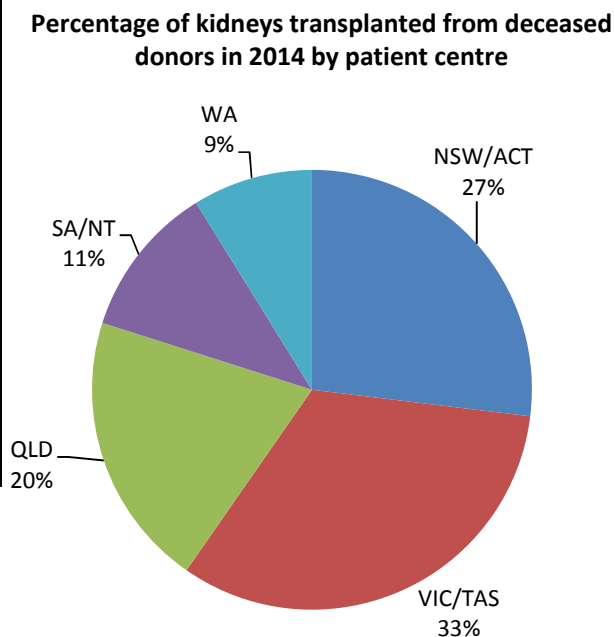
2.1 Number of kidneys transplanted from all donors in 2014 by patient centre

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%	45%
VIC/TAS	307	33%	33%
QLD	154	16%	12%
SA/NT	91	10%	5%
WA	82	9%	5%
ALL	928	100%	100%



2.2 Number of kidneys transplanted from deceased donors in 2014 by patient centre

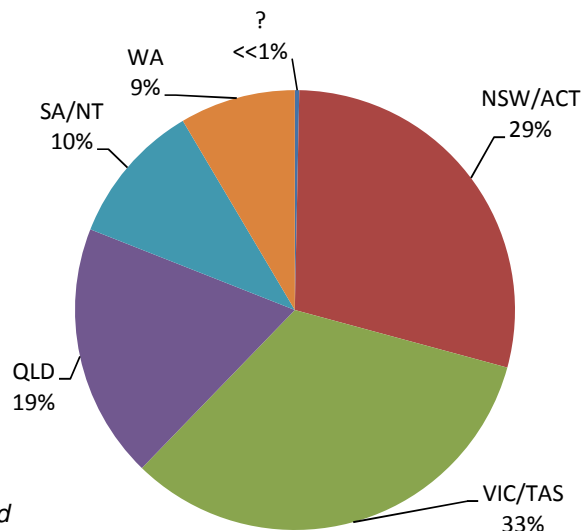
Patient Centre	Number of deceased donor transplants	Percentage of all deceased donor kidney transplants	Percentage of all patients waiting in each centre (from table 1.2)
NSW/ACT	177	27%	45%
VIC/TAS	215	33%	33%
QLD	133	20%	12%
SA/NT	74	11%	5%
WA	58	9%	5%
ALL	657	100%	100%



2.3 Number of kidneys transplanted from deceased donors in 2014 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)
Unknown	2 [#]	<<1%	0%
NSW/ACT	190	29%	45%
VIC/TAS	217	33%	33%
QLD	123	19%	12%
SA/NT	69	10%	5%
WA	56	9%	5%
ALL	657	100%	100%

Percentage of kidneys transplanted from deceased donors in 2014 by transplant centre

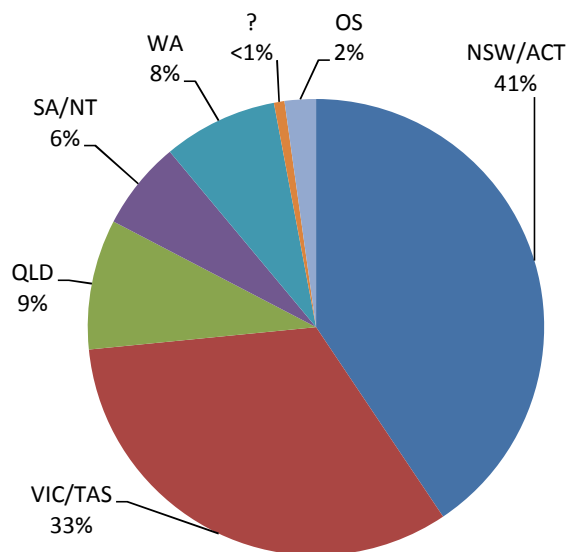


Two transplanted QLD patients with transplant hospital unspecified

2.4 Number of kidneys transplanted from live donors in 2014 by transplant centre

Transplant 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)
Unknown	2 [#]	1%	0%
Overseas	6 [@]	2%	0%
NSW/ACT	110	41%	45%
VIC/TAS	89	33%	33%
QLD	25	9%	12%
SA/NT	17	6%	5%
WA	22	8%	5%
ALL	271	100%	100%

Percentage of kidneys transplanted from live donors in 2014 by transplant centre



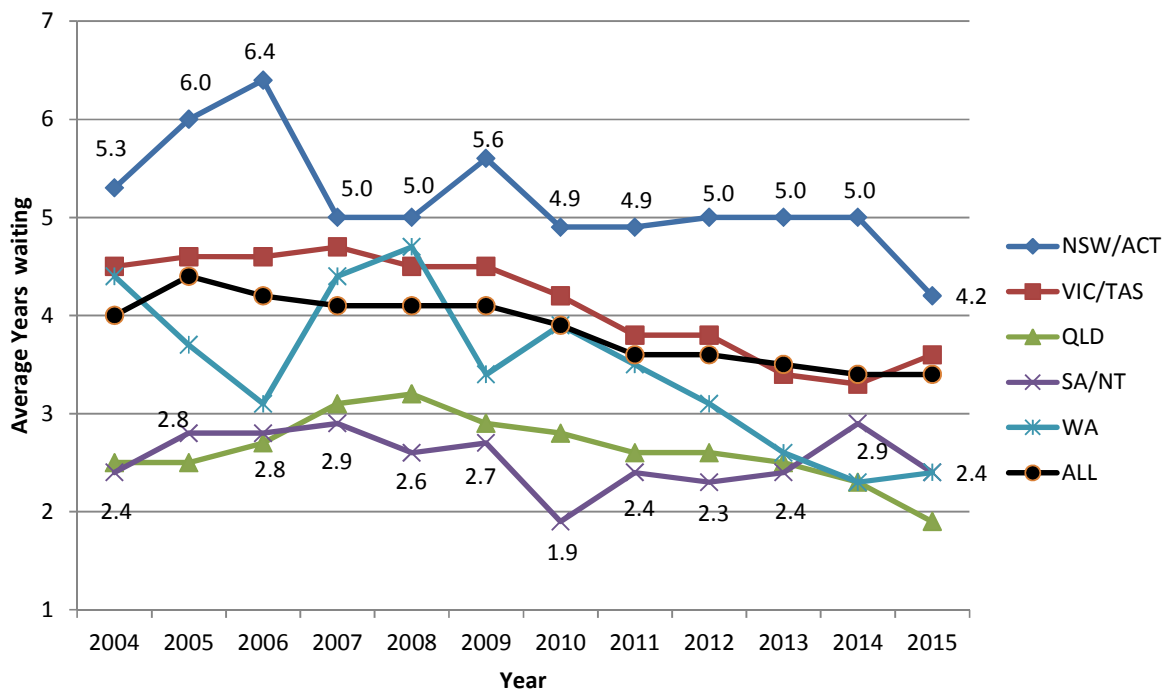
One transplanted patient from SA and one from WA with Transplant hospital unspecified

@Patients transplanted in China, Singapore, Iran, Korea and Pakistan

2.5 Average time waiting on dialysis in years for patients transplanted with deceased donor kidney by centre and year (to 1/4/2015)

Centre	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 (as at 1/4/2015)
NSW/ACT	5.3	6.0	6.4	5.0	5.0	5.6	4.9	4.9	5.0	5.0	5.0	4.2
VIC/TAS	4.5	4.6	4.6	4.7	4.5	4.5	4.2	3.8	3.8	3.4	3.3	3.6
QLD	2.5	2.5	2.7	3.1	3.2	2.9	2.8	2.6	2.6	2.5	2.3	1.9
SA/NT	2.4	2.8	2.8	2.9	2.6	2.7	1.9	2.4	2.3	2.4	2.9	2.4
WA	4.4	3.7	3.1	4.4	4.7	3.4	3.9	3.5	3.1	2.6	2.3	2.4
ALL	4.0	4.4	4.2	4.1	4.1	4.1	3.9	3.6	3.6	3.5	3.4	3.4

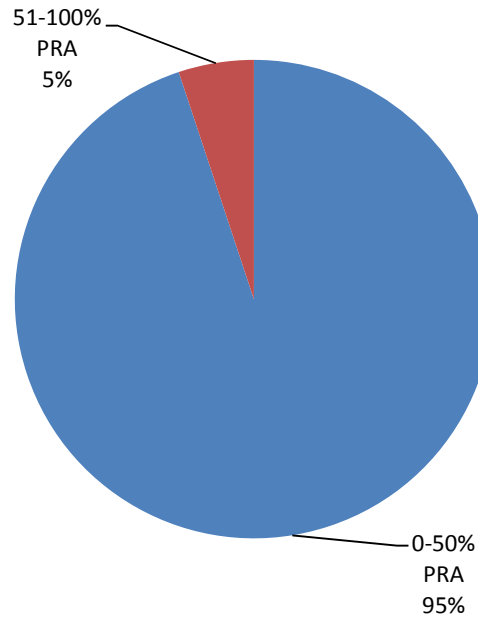
Average time waiting on dialysis in years for patients transplanted with deceased donor kidney by centre and year (to 1/4/2015)



2.6 Authorised class 1 panel reactive antibody (PRA) range of patients transplanted with deceased donor kidney in 2014

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%	623	95%	87%
51-100%	34	5%	13%
ALL	657	100%	100%

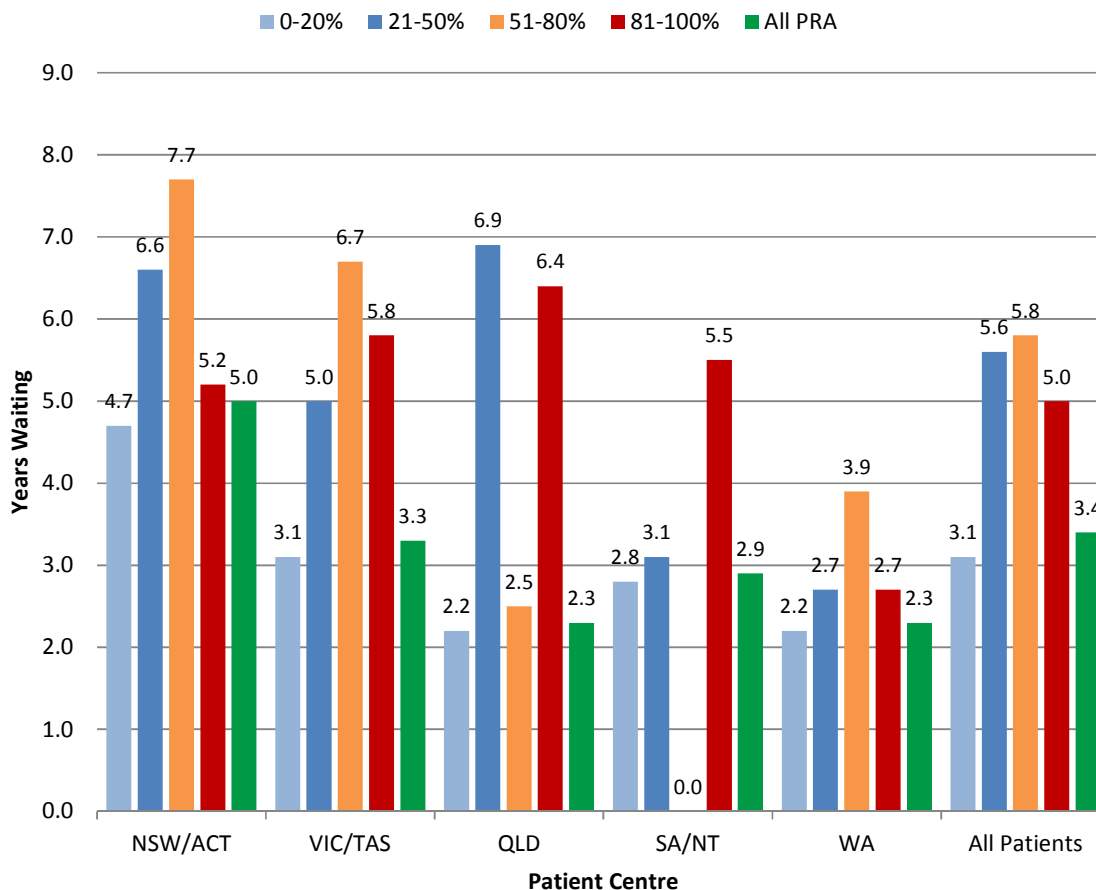
Authorised class 1 panel reactive antibody (PRA) range of patients transplanted with deceased donor kidney in 2014



2.7 Time waiting on dialysis in years for patients transplanted with deceased donor kidney in 2014 by patient authorised class 1 panel reactive antibody (PRA) range and patient centre (n=667)

Patient Centre	Authorised Class I PRA range				Average wait (years)	Median Wait (years)	Maximum Wait (years)
	0-20%	21-50%	51-80%	81-100%			
NSW/ACT	4.7	6.6	7.7	5.2	5.0	5.0	20.3
VIC/TAS	3.1	5.0	6.7	5.8	3.3	3.1	18.9
QLD	2.2	6.9	2.5	6.4	2.3	1.6	10.4
SA/NT	2.8	3.1	0	5.5	2.9	2.1	12.3
WA	2.2	2.7	3.9	2.7	2.3	1.7	7.0
ALL Centres	3.1	5.6	5.8	5.0	3.4	2.7	20.3

Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by authorised PRA range and patient centre (n=667)



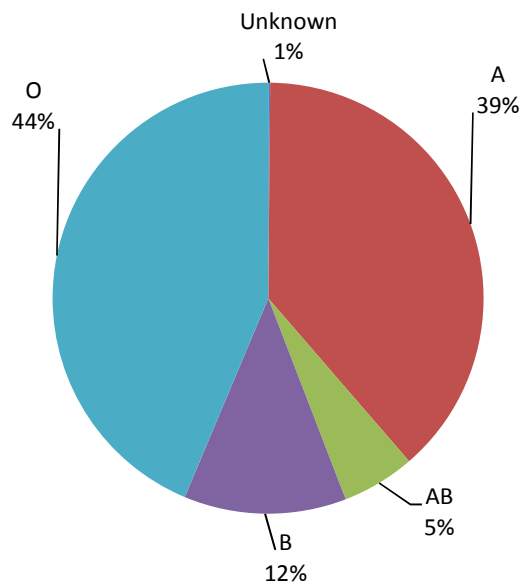
2.8 ABO blood group of patients transplanted with a deceased donor kidney in 2014

Patient ABO blood group	Number of transplants	Percentage of transplants	Percentage of ABO groups in Australia*
Unknown	1 [#]	<<1%	0%
A	253	39%	38%
AB	36	5%	3%
B	80	12%	10%
O	287	44%	49%
ALL	657	100%	100%

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

[#] A SA patient with ABO blood group unknown

ABO group of patients transplanted with a deceased donor kidney in 2014

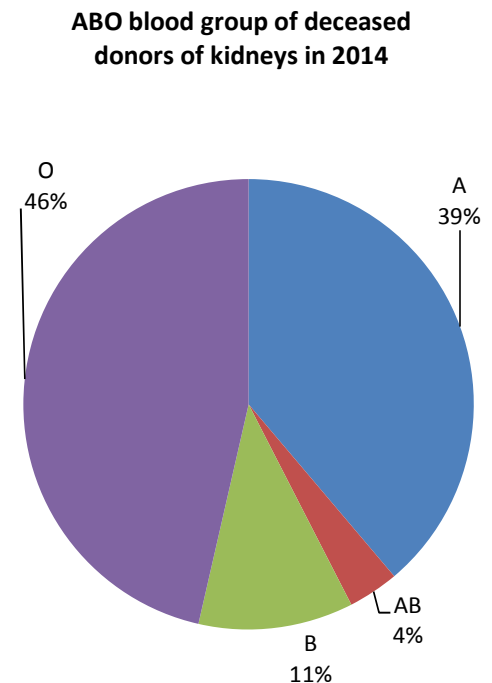


2.9 ABO blood group of deceased donors of kidneys transplanted in 2014

Donor ABO blood group	Number of transplants	Percentage of transplants	Percentage of ABO groups in Australia*
A	255	39%	38%
AB	24	4%	3%
B	73	11%	10%
O	305	46%	49%
ALL	657	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 2014

Donor ABO blood group	Blood group of patient receiving Kidney					
	Number of patients					
	A	AB	B	O	?	ALL
A	247	7	1	0	0	255
AB	0	24	0	0	0	24
B	0	4	69	0	0	73
O	6	1	10	287	1	305
ALL	253	36	80	287	1	657

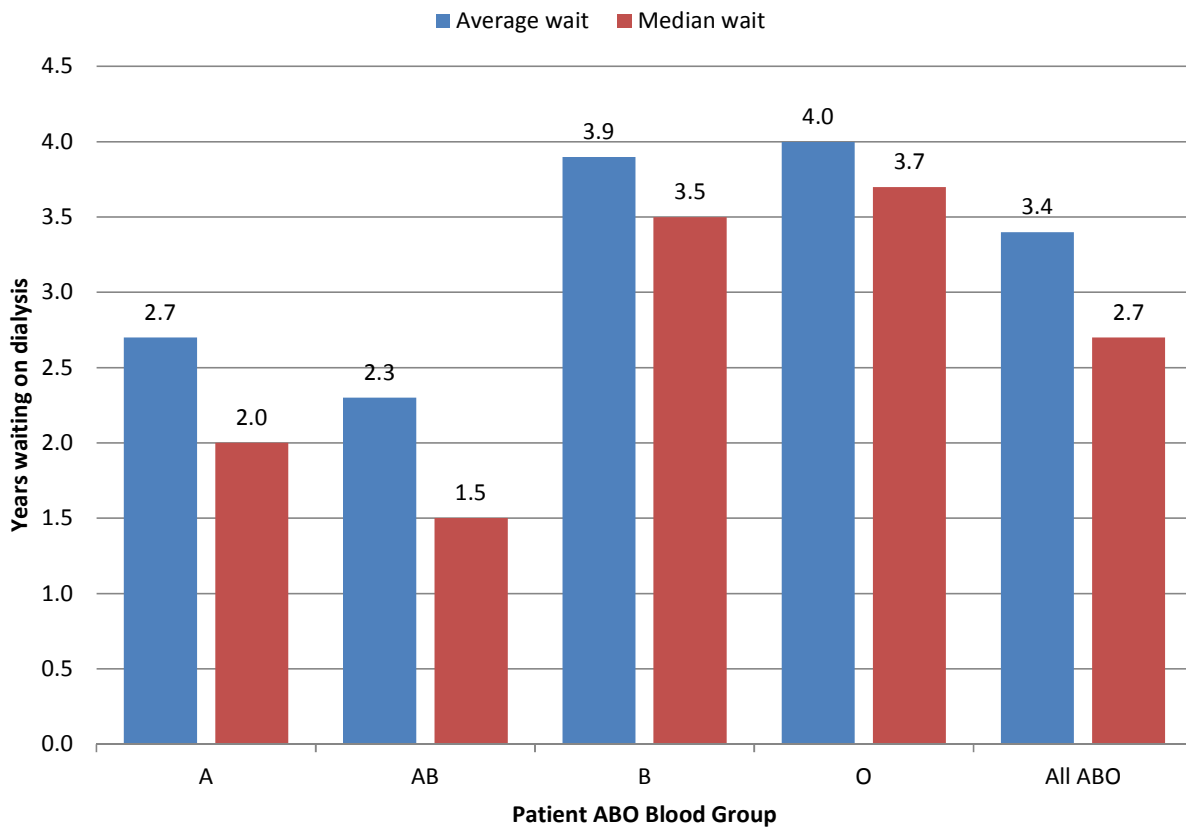
A SA patient with ABO blood group unknown

Bold font indicates instances where patient and donor are known to be not ABO identical.

2.11 Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2014 patient ABO blood group (n=667)

Patient ABO group	Average wait (years)	Median Wait (years)	Maximum Wait (years)
A	2.7	2.0	13.4
AB	2.3	1.5	7.5
B	3.9	3.5	14.5
O	4.0	3.7	20.3
ALL ABO	3.4	2.7	20.3

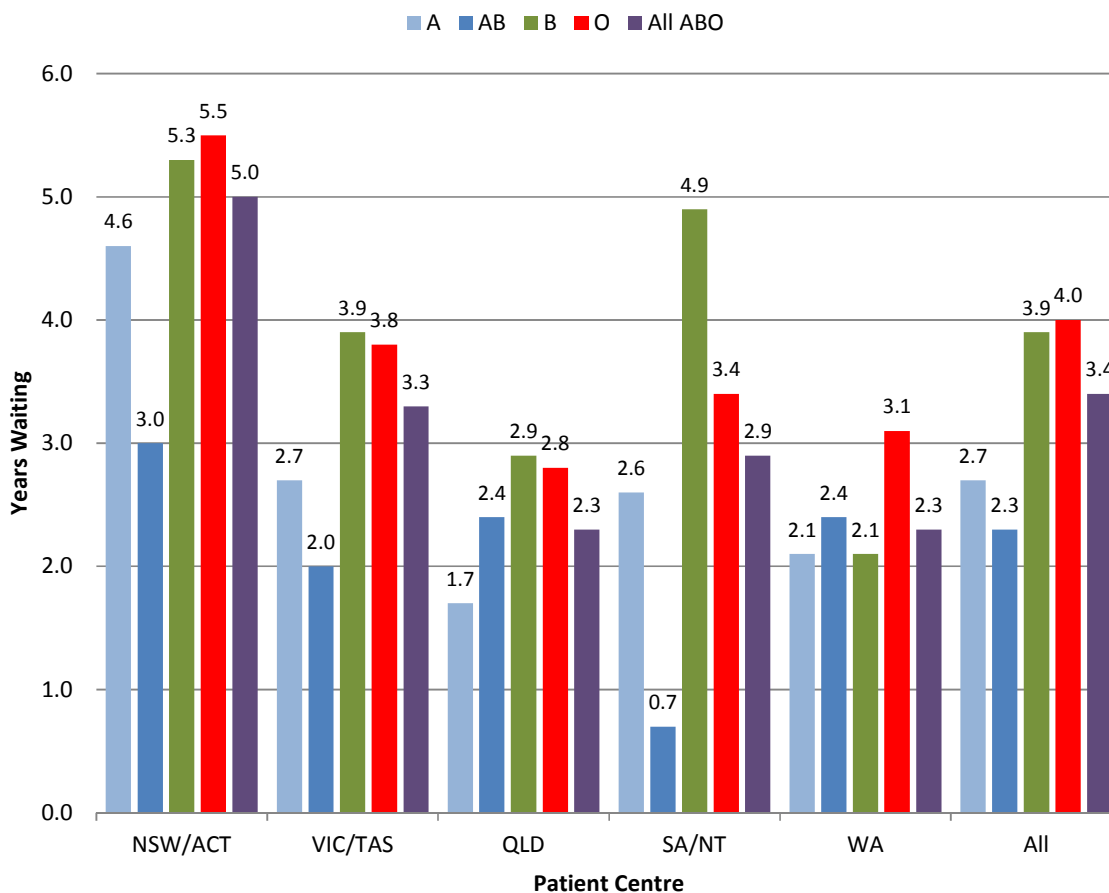
Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2014 by ABO blood group (n=667)



2.12 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient ABO blood group and patient centre (n=667)

Patient Centre	Patient ABO blood group Average Wait (years)					Median Wait (years)	Maximum Wait (years)
	A	AB	B	O	All ABO		
NSW/ACT	4.6	3.0	5.3	5.5	5.0	5.0	20.3
VIC/TAS	2.7	2.0	3.9	3.8	3.3	3.1	18.9
QLD	1.7	2.4	2.9	2.8	2.3	1.6	10.4
SA/NT	2.6	0.7	4.9	3.4	2.9	2.1	12.3
WA	2.1	2.4	2.1	3.1	2.3	1.7	7.0
ALL Centres	2.7	2.3	3.9	4.0	3.4	2.7	20.3

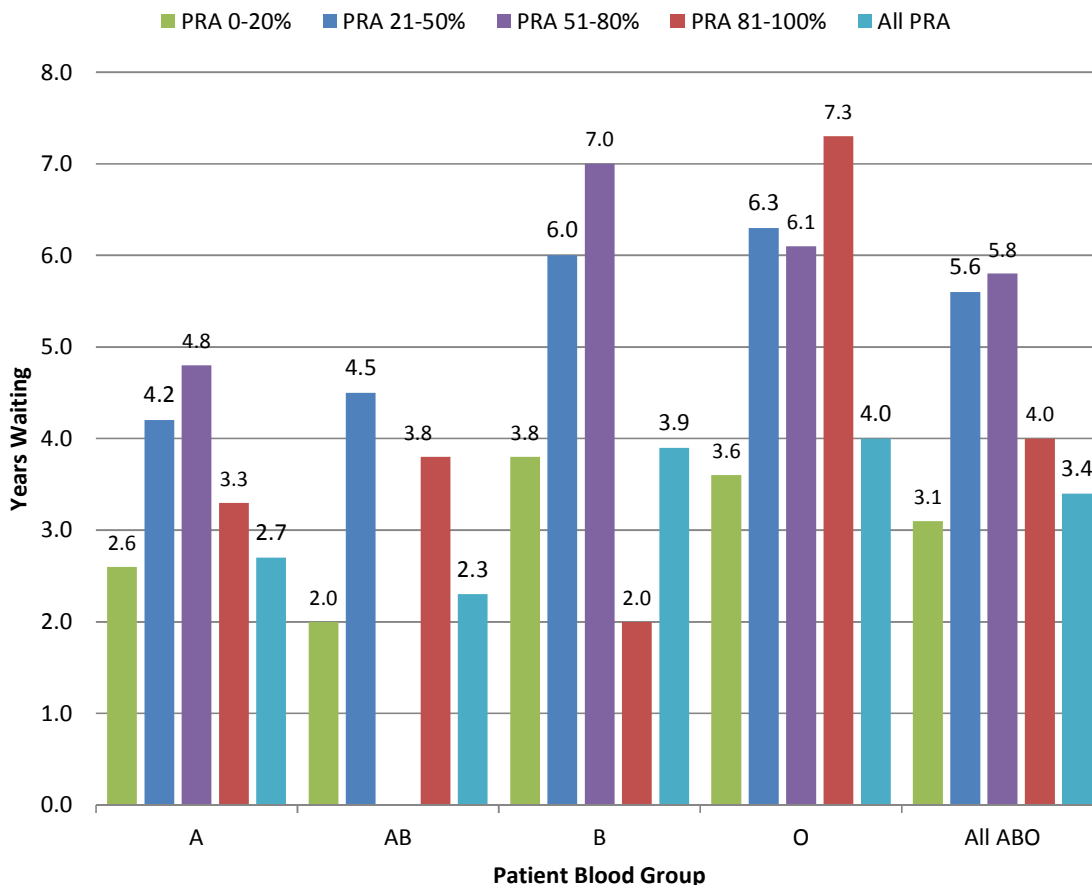
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient ABO blood group and patient centre (n=667)



2.13 Time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2014 and authorised class 1 panel reactive antibody (PRA) range by patient ABO blood group (n=667)

Patient Authorised Class I PRA	Patient ABO group Average Wait (years)				Average Wait (years)	Median Wait (years)	Maximum Wait (years)
	A	AB	B	O			
0-20%	2.6	2.0	3.8	3.6	3.1	2.5	14.5
21-50%	4.2	4.5	6.0	6.3	5.6	4.5	20.3
51-80%	4.8	-	7.0	6.1	5.8	4.3	18.9
81-100%	3.3	3.8	2.0	7.3	5.0	5.3	14.2
ALL PRA	2.7	2.3	3.9	4.0	3.4	2.7	20.3

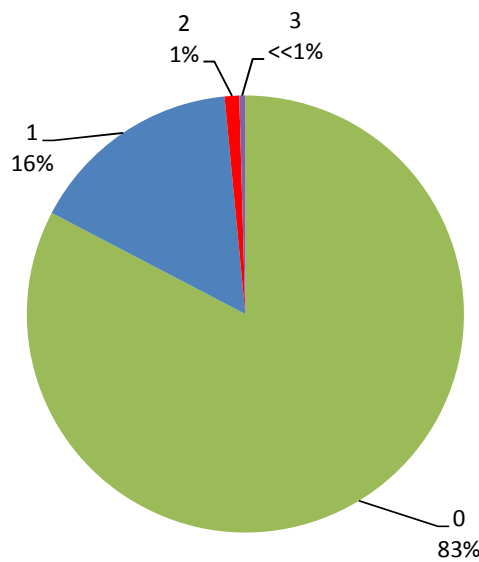
Average time waiting on dialysis in years of patients transplanted with a deceased donor kidney in 2014 and authorised class 1 panel reactive antibody (PRA) range by patient ABO blood group (n=667)



2.14 Number of previous transplants for patients transplanted with a deceased donor kidney in 2014 (n=657)

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	543	83%	73%
1	104	16%	22%
2	7	1%	4%
3	3	<< 1%	1%
ALL	657	100%	100%

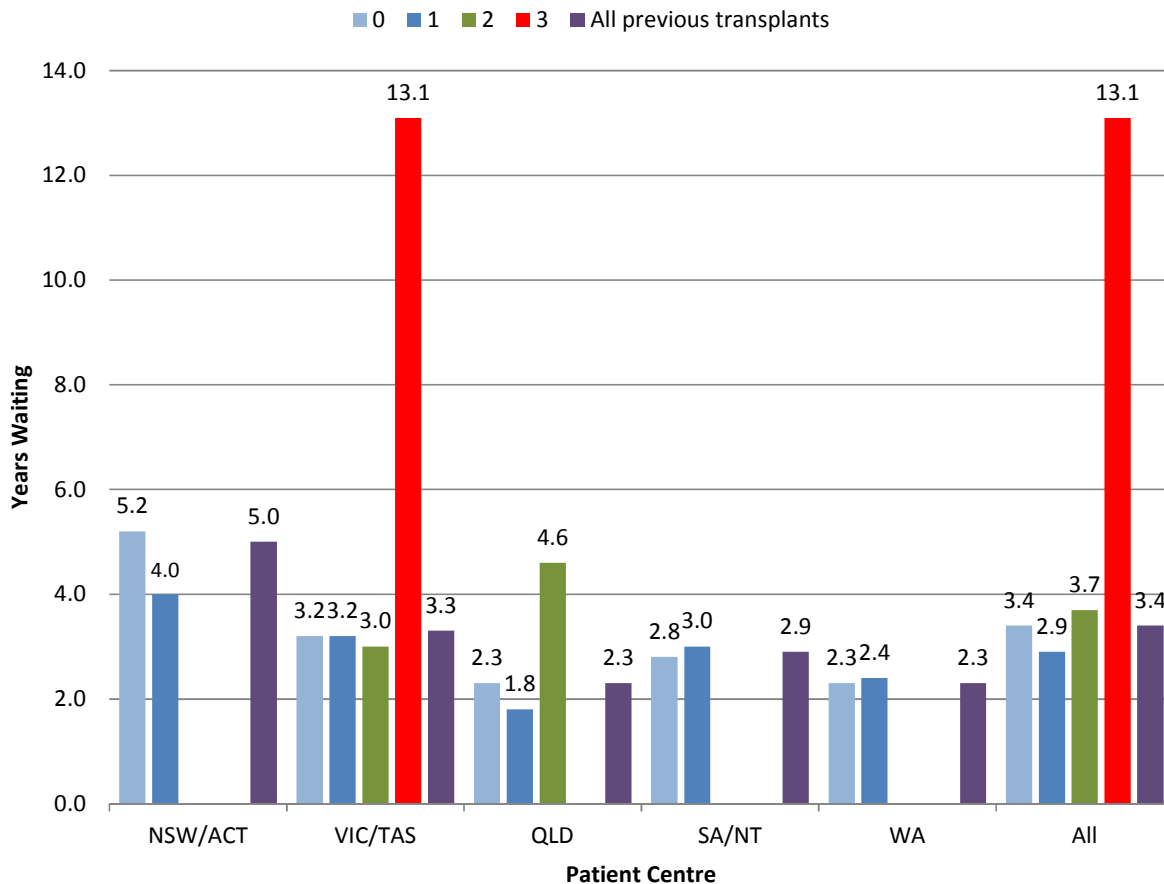
Percentage of previous transplants number for patients transplanted with a deceased donor kidney in 2014



2.15 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient previous transplant number and patient centre (n=667)

Patient Centre	Patient Previous transplant number					Median Wait (years)	Maximum Wait (years)
	Average wait (years)						
	0	1	2	3	All		
NSW/ACT	5.2	4.0	-	-	5.0	5.0	20.3
VIC/TAS	3.2	3.2	3.0	13.1	3.3	3.1	18.9
QLD	2.3	1.8	4.6	-	2.3	1.6	10.4
SA/NT	2.8	3.0	-	-	2.9	2.1	12.3
WA	2.3	2.4	-	-	2.3	1.7	7.0
ALL Centres	3.4	2.9	3.7	13.1	3.4	2.7	20.3

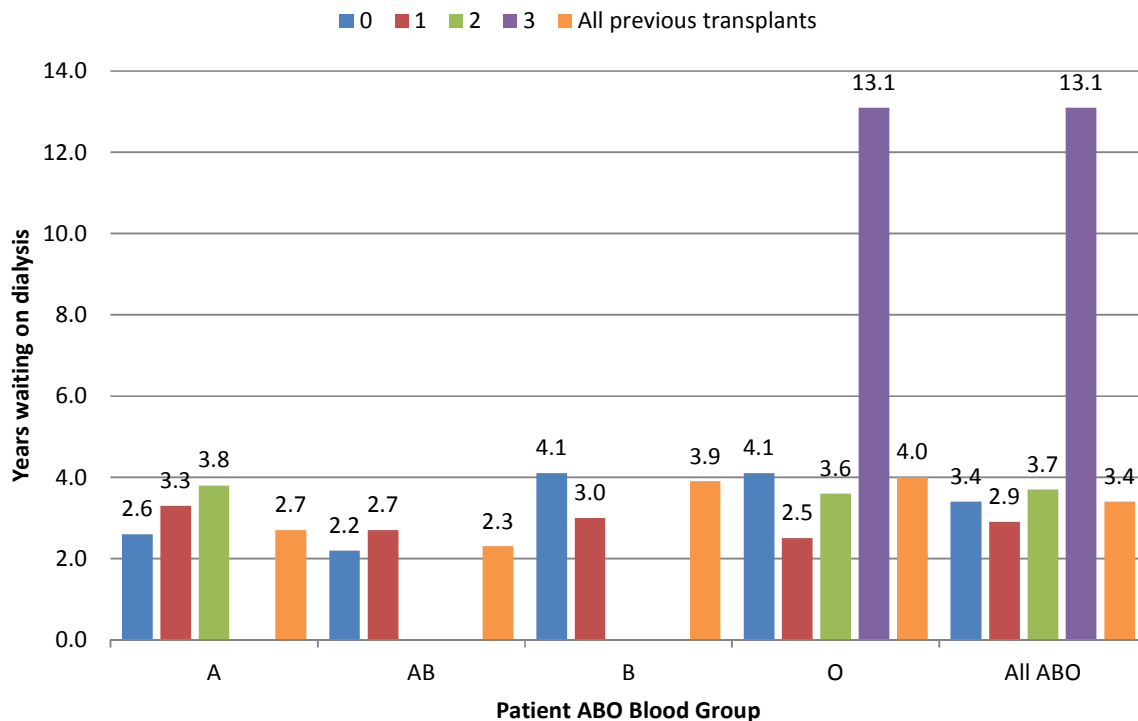
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient previous transplant number and patient centre (n=667)



2.16 Time waiting on dialysis in years for patients transplanted with deceased donor kidney in 2014 and previous transplants by patient ABO blood group (n=667)

Number of previous transplants	Patient ABO group				Average Wait (years)	Median Wait (years)	Maximum Wait (years)
	A	AB	B	O			
0	2.6	2.2	4.1	4.1	3.4	2.8	20.3
1	3.3	2.7	3.0	2.5	2.9	2.0	14.8
2	3.8	-	-	3.6	3.7	3.1	8.4
3	-	-	-	13.1	13.1	14.2	18.9
All Transplants	2.7	2.3	3.9	4.0	3.4	2.7	20.3

Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 and previous transplants by patient ABO blood group (n=667)

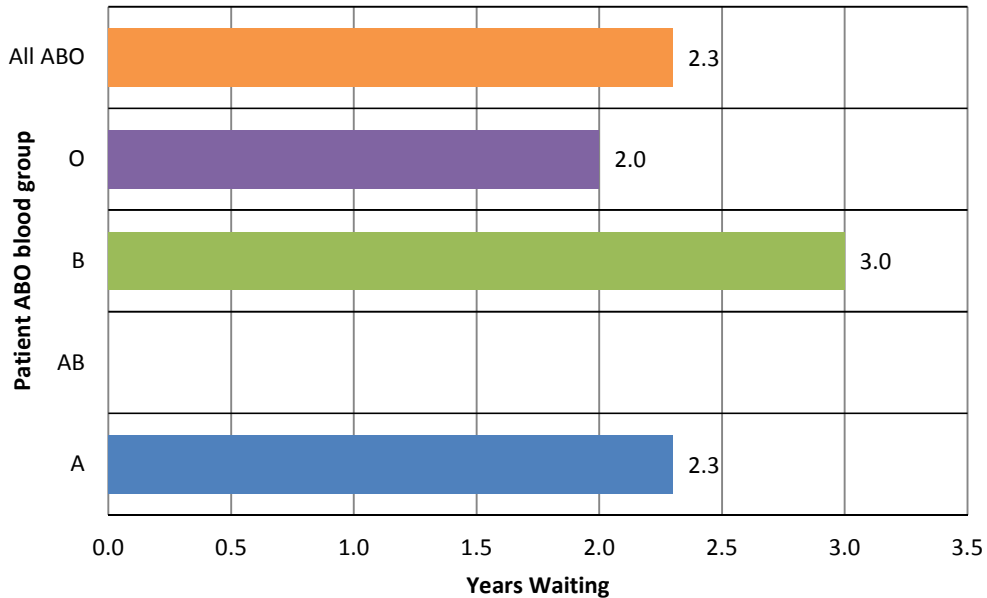


2.17 Average time waiting on dialysis in years for paediatric patients transplanted with a deceased donor kidney in 2014 by patient ABO blood group (n=16)

Patient status	A	AB	B	O	All ABO
Paediatric* (n=16)	2.3	-	3.0	2.0	2.3
ALL Patients	2.7	2.3	3.9	4.0	3.4

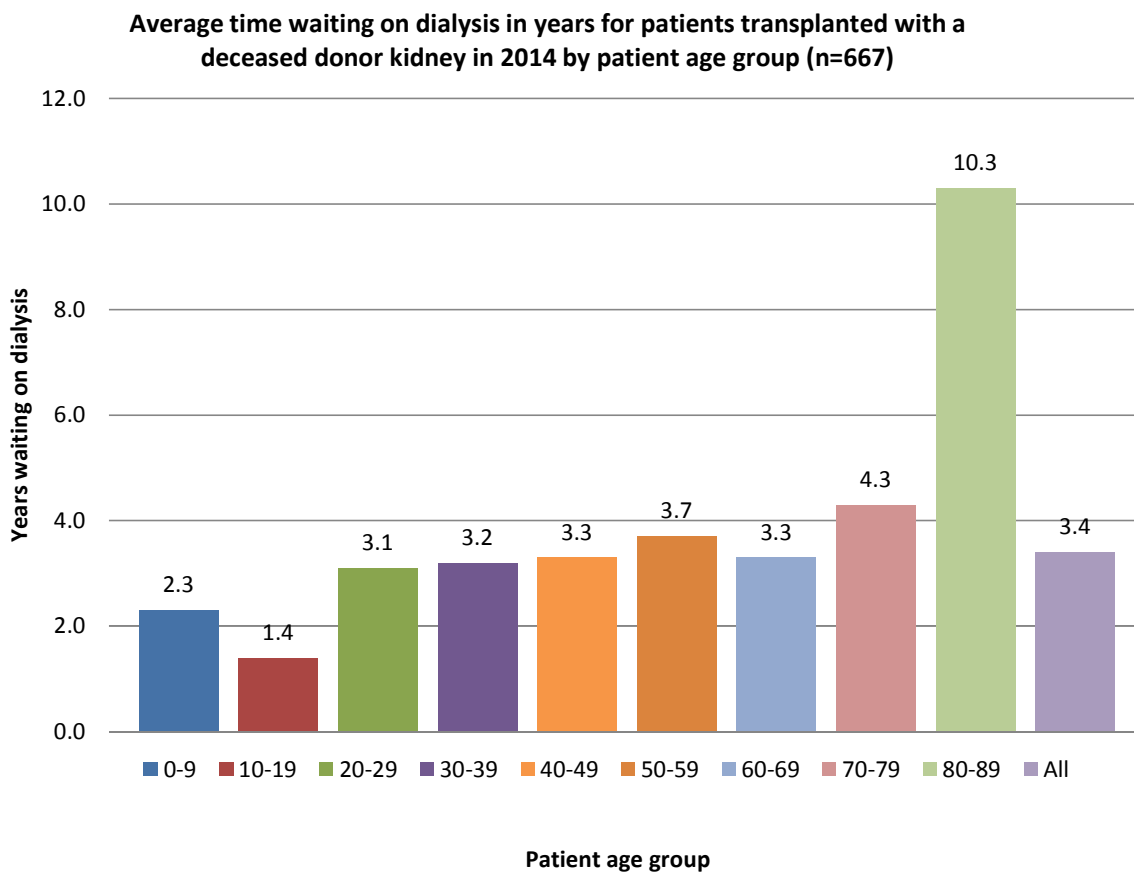
**Paediatric status in NOMS is currently defined in NOMS as patients whose current age is less than 18 years, first dialysis date was at an age less than 17 years, and time since 'dialysis for matching' date is greater than 1 year.*

Average time waiting on dialysis in years for paediatric patients transplanted with a deceased donor kidney in 2014 by patient ABO blood group (n=16)



2.18 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient age group (n=667)

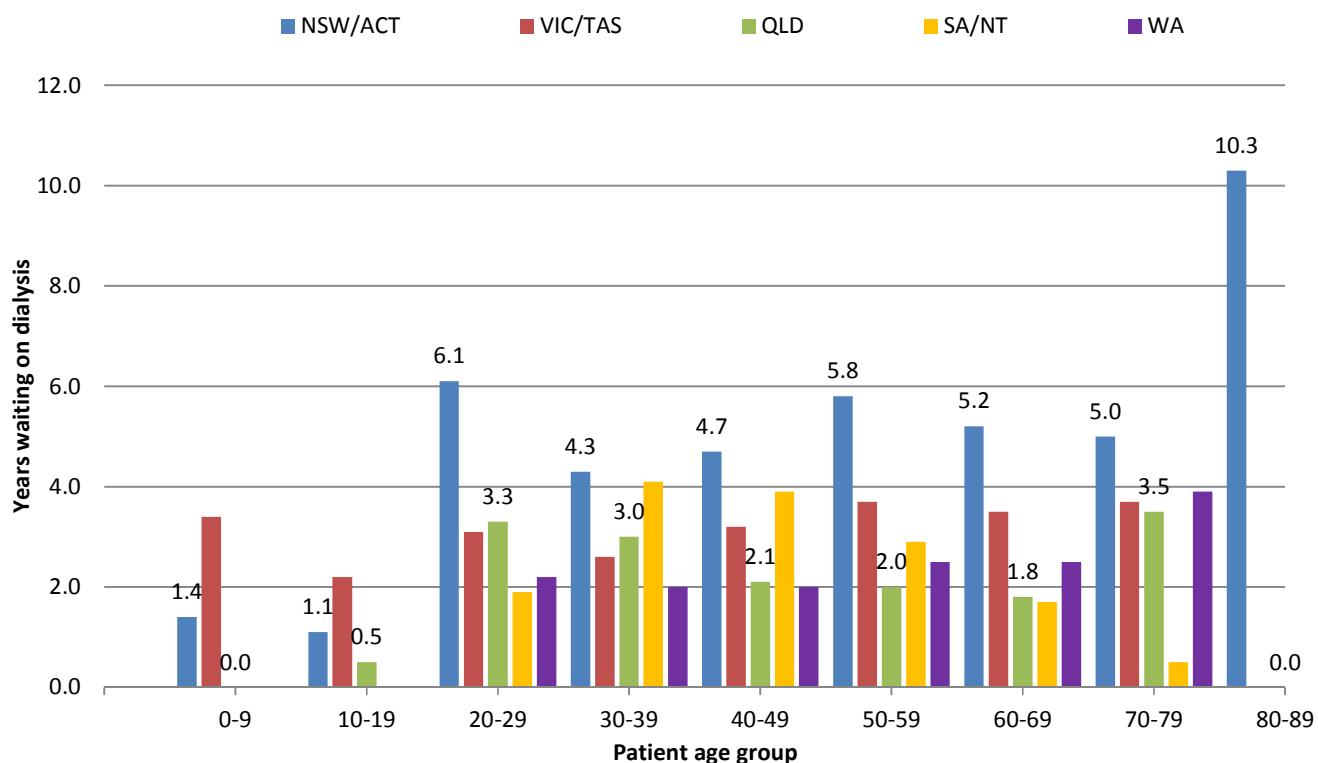
Age group	Number of patients transplanted	Percentage of patients transplanted	Average waiting time (years)	Median waiting time (years)	Maximum waiting time (years)
0-9	7	1%	2.3	1.5	6.2
10-19	17	3%	1.4	1.1	5.3
20-29	33	5%	3.1	3.1	8.9
30-39	85	13%	3.2	2.1	14.2
40-49	141	21%	3.3	2.4	14.8
50-59	179	27%	3.7	2.8	20.3
60-69	175	26%	3.3	2.9	13.2
70-79	29	4%	4.3	4.0	7.9
80-89	1	<<1%	10.3	10.3	10.3
ALL	667	100%	3.4	2.7	20.3



2.19 Time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 by patient age group and patient centre

Centre	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	Average waiting time (years)	Median waiting time (years)	Maximum waiting time (years)
NSW/ACT	1.4	1.1	6.1	4.3	4.7	5.8	5.2	5.0	10.3	5.0	5.0	20.3
VIC/TAS	3.4	2.2	3.1	2.6	3.2	3.7	3.5	3.7	-	3.3	3.1	18.9
QLD	-	0.5	3.3	3.0	2.1	2.0	1.8	3.5	-	2.3	1.6	10.4
SA/NT	-	-	1.9	4.1	3.9	2.9	1.7	0.5	-	2.9	2.1	12.3
WA	-	-	2.2	2.0	2.0	2.5	2.5	3.9	-	2.3	1.7	7.0
ALL Centres	1.5	2.0	3.3	3.2	3.5	3.5	3.6	4.3	10.3	3.4	2.7	20.3

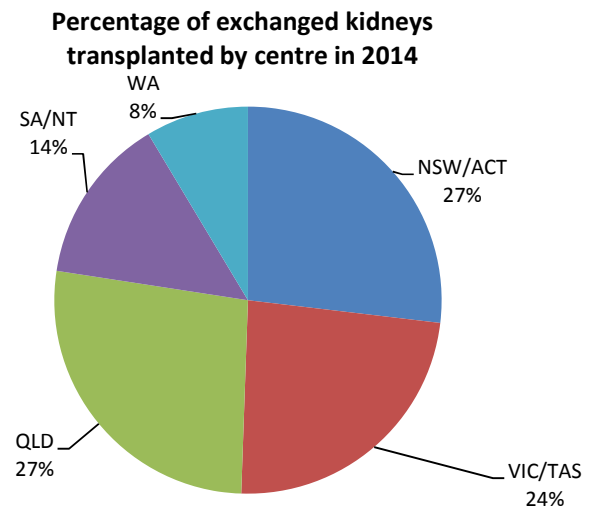
Average time waiting on dialysis in years for patients transplanted with a deceased donor kidney in 2014 and patient age group and patient centre



3. INTERSTATE EXCHANGE OF DECEASED DONOR KIDNEYS IN 2014

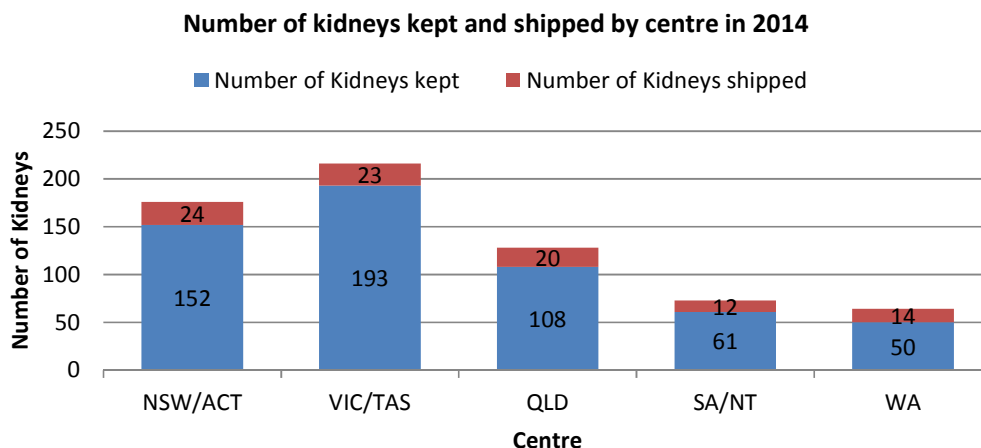
3.1 Number of exchanged kidneys transplanted by centre in 2014

Transplant Centre	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
NSW/ACT	25	27%
VIC/TAS	22	24%
QLD	25	27%
SA/NT	13	14%
WA	8	8%
ALL	93	100%



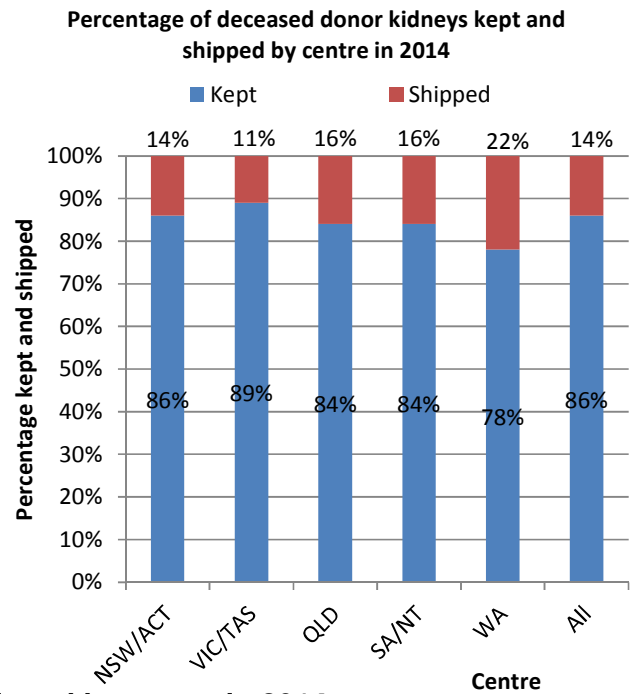
3.2 Number of kidneys kept and shipped by centre in 2014

Transplant Centre	Number of kidneys kept	Number of kidneys shipped	Total number of kidneys from centre
NSW/ACT	152	24	176
VIC/TAS	193	23	216
QLD	108	20	128
SA/NT	61	12	73
WA	50	14	64
ALL	564	93	657



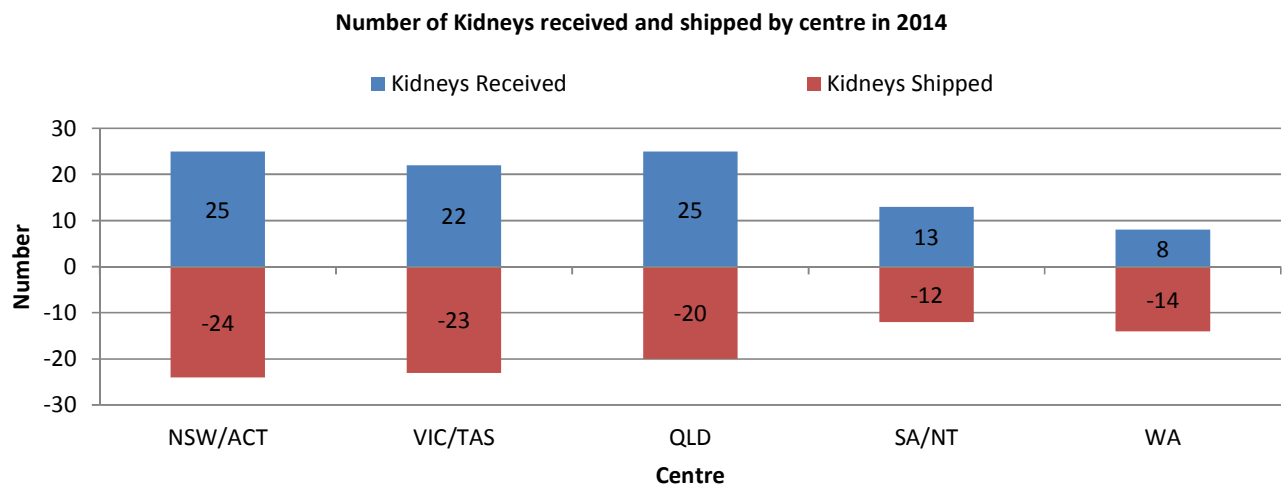
3.3 Percentage of deceased donor kidneys kept and shipped by centre in 2014

Transplant Centre	Percentage kept	Percentage shipped
NSW/ACT	86%	14%
VIC/TAS	89%	11%
QLD	84%	16%
SA/NT	84%	16%
WA	78%	22%
ALL	86%	14%



3.4 Number of kidneys received and shipped by centre in 2014

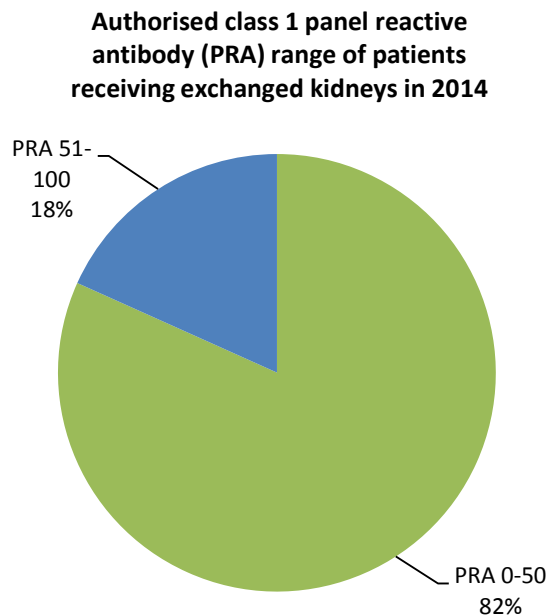
Transplant Centre	Number of kidneys received	Number of kidneys shipped	Difference (received – shipped)
NSW/ACT	25	24	1
VIC/TAS	22	23	-1
QLD	25	20	5
SA/NT	13	12	1
WA	8	14	-6
ALL	93	93	0



3.5 Authorised class 1 panel reactive antibody (PRA) range of patients receiving exchanged kidneys in 2014

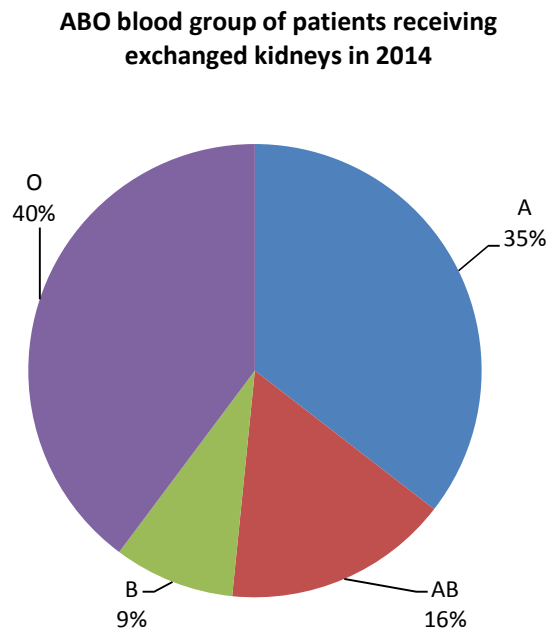
Patient Authorised Class 1 PRA	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
0-50 % [#]	76	82 %
51-100%	17	18%
ALL	93	100%

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



3.6 ABO blood group of patients receiving exchanged kidneys in 2014

Patient ABO blood group	Number of exchanged kidneys transplanted	Percentage of exchanged kidneys transplanted
A	33	35%
AB	15	16%
B	8	9%
O	37	40%
ALL	93	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
1/4/2015	-5	-1	-3	-3	+12

'+' 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 2014 by patient centre

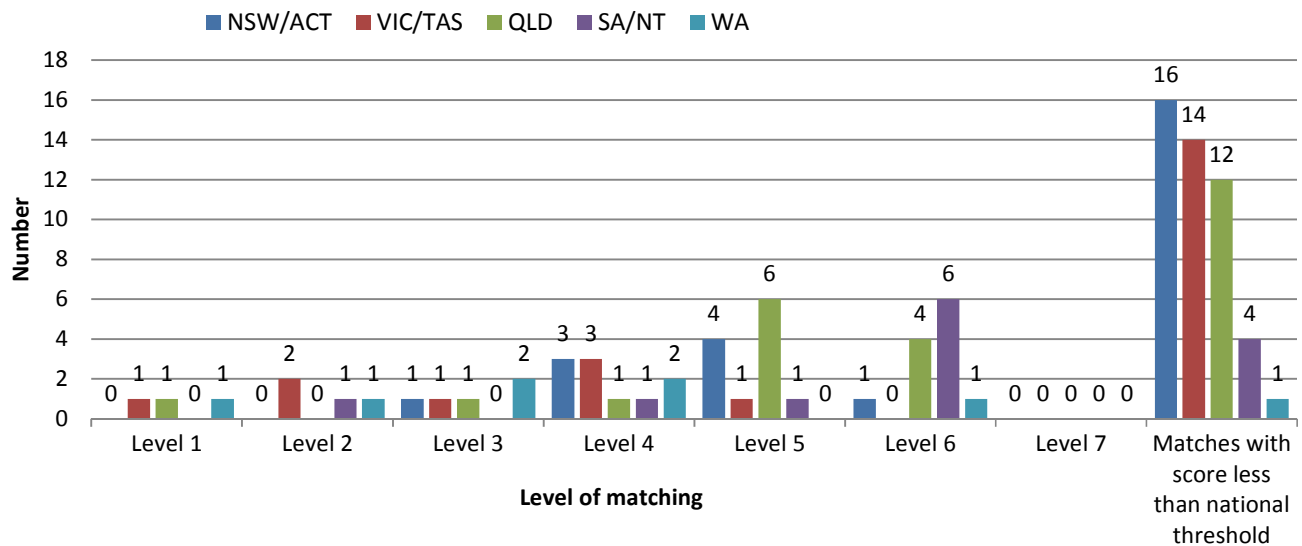
Patient Centre	Level of matching on national algorithm								All
	1	2	3	4	5	6	7	Matches with score less than national threshold	
NSW/ACT	0	0	1	3	4	1	0	16 ^{&x3, *x13, #x2}	25
VIC/TAS	1	2	1	3	1	0	0	14 ^{&x2, *x12}	22
QLD	1	0	1	1	6	4	0	12 ^{&x11, *x1}	25
SA/NT	0	1	0	1	1	6	0	4 ^{&x4}	13
WA	1	1	2	2	0	1	0	1 ^{&x1}	8
ALL	3	4	5	10	12	12	0	47	93
%	3%	4%	5%	11%	13%	13%	0%	51%	100%

& Manually allocated for multi-organ transplant

* National Override Used to allocate blood group A, B or AB donor kidneys

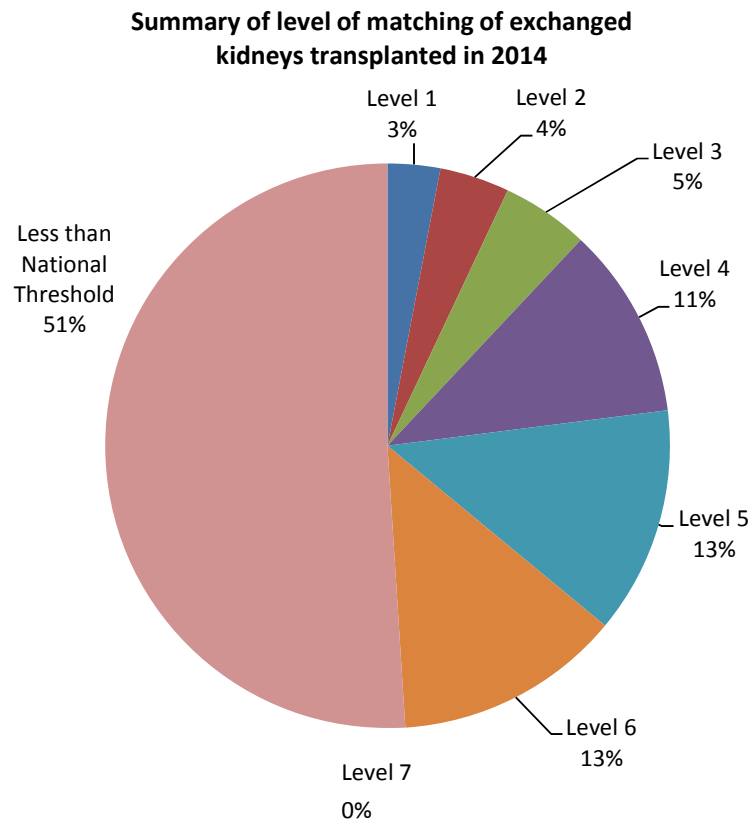
National Override used to allocate blood group O donor kidneys where there was no transplant surgeon available in donor state

Levels of matching of exchanged kidneys transplanted in 2014 by patient centre



3.10 Summary of level of matching of exchanged kidneys transplanted in 2014

Level of matching	Percentage of exchanged kidneys
Level 1 (60 000 000 +)	3%
Level 2 (59 000 000 – 59 999 999)	4%
Level 3 (58 000 000 – 58 999 999)	5%
Level 4 (57 000 000 – 57 999 999)	11%
Level 5 (56 000 000 – 56 999 999)	13%
Level 6 (55 000 000 – 55 999 999)	13%
Level 7 (54 000 000 – 54 999 999)	0%
Less than 54 000 000	51%
ALL	100%



4. MISCELLANEOUS REPORTS

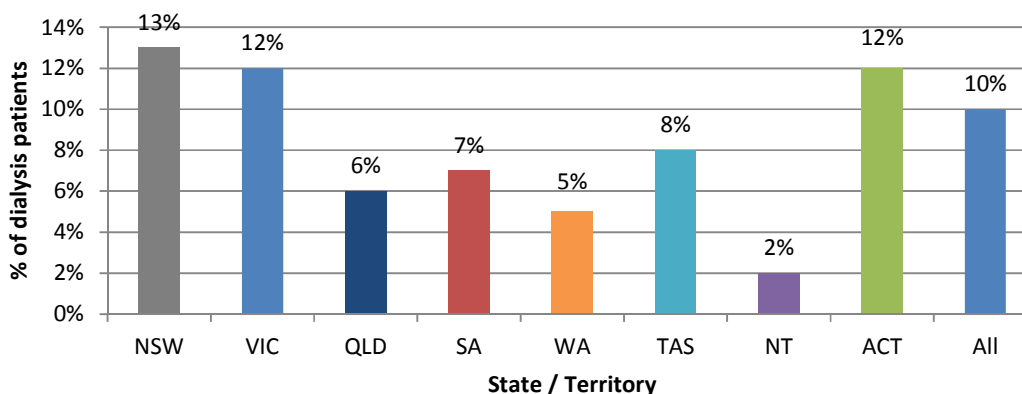
4.1 Number of active patients awaiting kidney transplant by patient state or territory as percentage of dialysing patients as at 31/12/2013[#]

State / Territory	Number of active patients (1/4/2015) (from table 1.2)	% of all patients on active waiting list (1/4/2015) (from table 1.2)	Number of patients on dialysis as at 31/12/2013 [#]	State / Territory % of total dialysing patients [#]	% of dialysing patients on active waiting list from that State/Territory [#]
NSW	476	42%	3764	32%	13%
VIC	361	32%	2892	25%	12%
QLD	135	12%	2200	19%	6%
SA	52	4%	753	6%	7%
WA	55	5%	1140	10%	5%
TAS	18	1%	216	2%	8%
NT	8	1%	521	4%	2%
ACT	34	3%	288	2%	12%
ALL	1139	100%	11774	100%	10%

[#]Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Dialysis and Transplantation in Australia and New Zealand' (2013) report v2.0 found at <http://www.anzdata.org.au/anzdata/InterimSummaries/2013Summary.pdf>

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 1/4/2015 by patient state or territory as percentage of dialysing patients as at 31/12/2013[#]



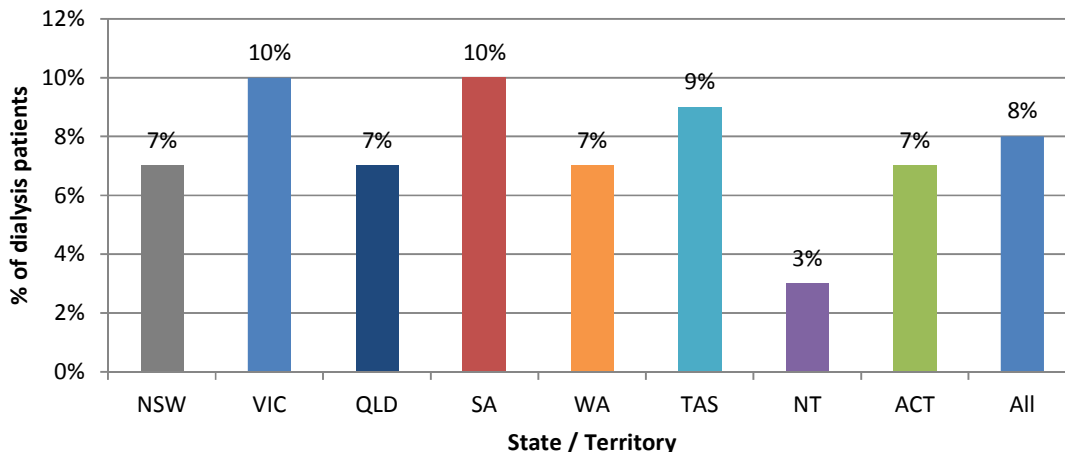
4.2 Number of transplanted kidneys in 2014 by patient state or territory (live and deceased donors) as percentage of patients dialysing at 31/12/2013#

Patient State / Territory	Number of transplanted kidneys in 2014	% of all kidneys transplanted in 2014	Number of patients on dialysis as at 31/12/2013#	Number of transplanted patients in 2014 as a % of total patients on dialysis for that state/territory as at 31/12/2013#
NSW	273	29%	3764	7%
VIC	288	31%	2892	10%
QLD	154	17%	2200	7%
SA	76	8%	753	10%
WA	82	9%	1140	7%
TAS	19	2%	216	9%
NT	15	2%	521	3%
ACT	21	2%	288	7%
ALL	928	100%	11774	8%

#Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Dialysis and Transplantation in Australia and New Zealand' (2013) report v2.0 found at <http://www.anzdata.org.au/anzdata/InterimSummaries/2013Summary.pdf>

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Percentage of transplanted kidneys in 2014 by patient state or territory (live and deceased donors) as percentage of patients dialysing as at 31/12/2013#



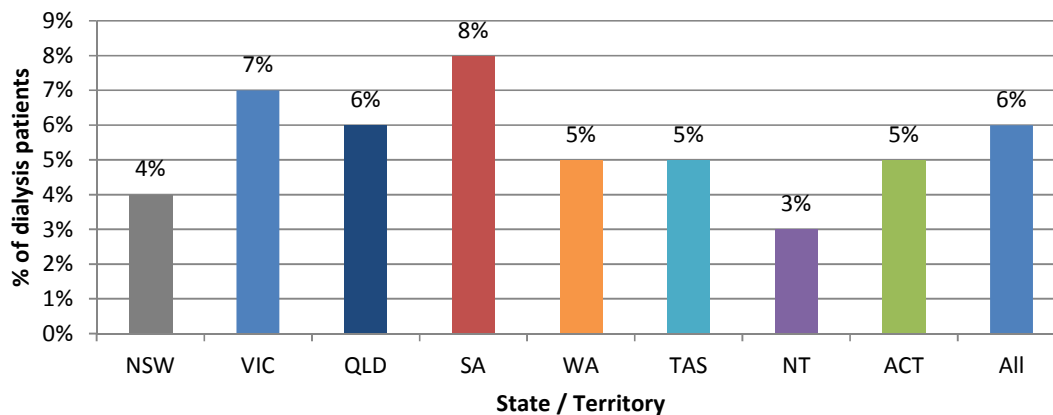
4.3 Number of kidneys transplanted from deceased donors in 2014 by patient state or territory as percentage of patients dialysing as at 31/12/2013#

Patient State / Territory	Number of deceased donor transplants in 2014	Percentage of all deceased donor kidney transplants in 2014	Number of patients on dialysis as at 31/12/2013#	Number of transplanted patients in 2014 with deceased donor kidney as a % of total patients on dialysis for that state/territory as at 31/12/2013#
NSW	164	25%	3764	4%
VIC	204	31%	2892	7%
QLD	133	20%	2200	6%
SA	59	9%	753	8%
WA	58	9%	1140	5%
TAS	11	2%	216	5%
NT	15	2%	521	3%
ACT	13	2%	288	5%
ALL	657	100%	11774	6%

#Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Dialysis and Transplantation in Australia and New Zealand' (2013) report v2.0 found at <http://www.anzdata.org.au/anzdata/InterimSummaries/2013Summary.pdf>

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 2014 by patient state or territory as percentage of patients dialysing as at 31/12/2013#



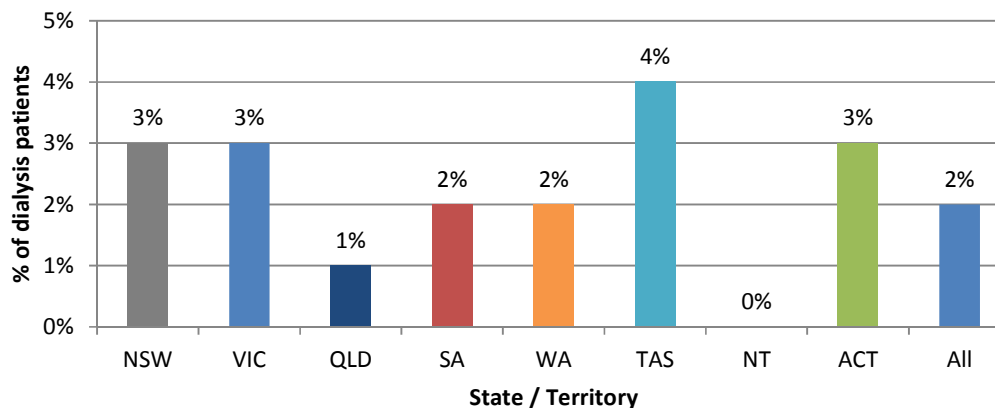
4.4 Number of living donor kidney transplants in 2014 by patient state or territory as percentage of patients dialysing as at 31/12/2013[#]

Patient State / Territory	Number of kidneys transplanted from live donors in 2014	Percentage of all live donor kidney transplants in 2014	Number of patients on dialysis as at 31/12/2013 [#]	Number of transplanted patients in 2014 with live donor kidney as a % of total patients on dialysis for that state/territory as at 31/12/2014 [#]
NSW	109	40%	3764	3%
VIC	84	31%	2892	3%
QLD	21	8%	2200	1%
SA	17	6%	753	2%
WA	24	9%	1140	2%
TAS	8	3%	216	4%
NT	0	0%	521	0%
ACT	8	3%	288	3%
ALL	271	100%	11774	2%

#Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Dialysis and Transplantation in Australia and New Zealand' (2013) report v2.0 found at <http://www.anzdata.org.au/anzdata/InterimSummaries/2013Summary.pdf>

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 2014 by patient state or territory as percentage of patients dialysing as at 31/12/2013[#]



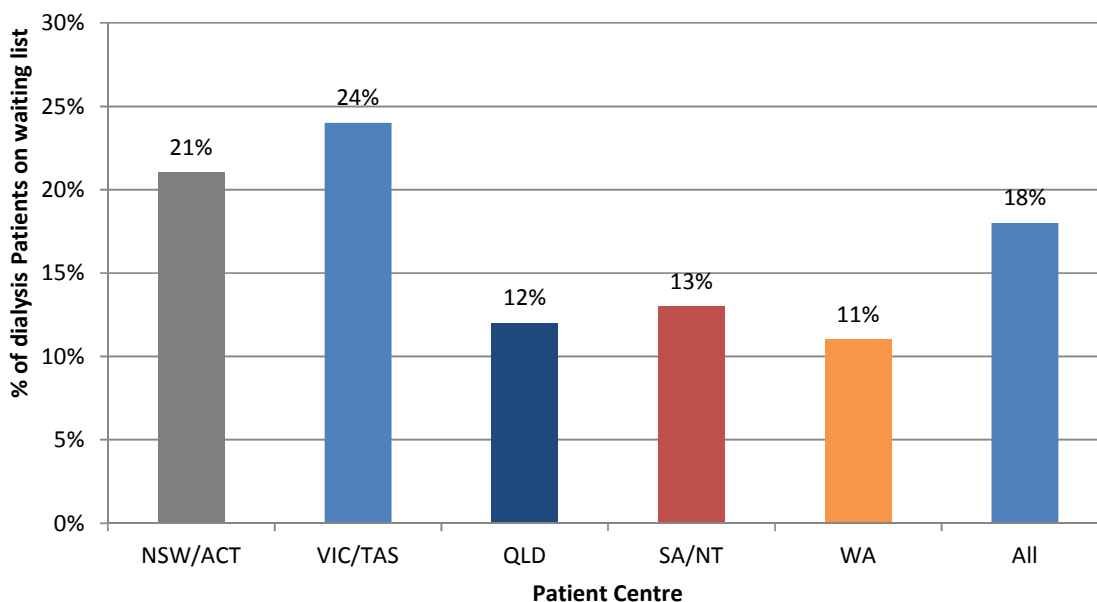
4.5 Number of patients on the kidney transplant waiting list at any time during 2014 by patient centre as percentage of patients dialysing as at 31/12/2013#

Patient State / Territory	Number of patients on the waiting list at any time during 2014	Number of patients on dialysis as at 31/12/2013#	Number of patients on the waiting list at any time during the year of 2014 as % of total patients on dialysis for that state/territory as at 31/12/2013#
NSW/ACT	868	4052	21%
VIC/TAS	753	3108	24%
QLD	262	2200	12%
SA/NT	161	1274	13%
WA	126	1140	11%
ALL	2170	11774	18%

#Dialysis Data reported has been published by the Australia and New Zealand Dialysis and Transplant Registry in the 'Summary of Dialysis and Transplantation in Australia and New Zealand' (2013) report v2.0 found at <http://www.anzdata.org.au/anzdata/InterimSummaries/2013Summary.pdf>

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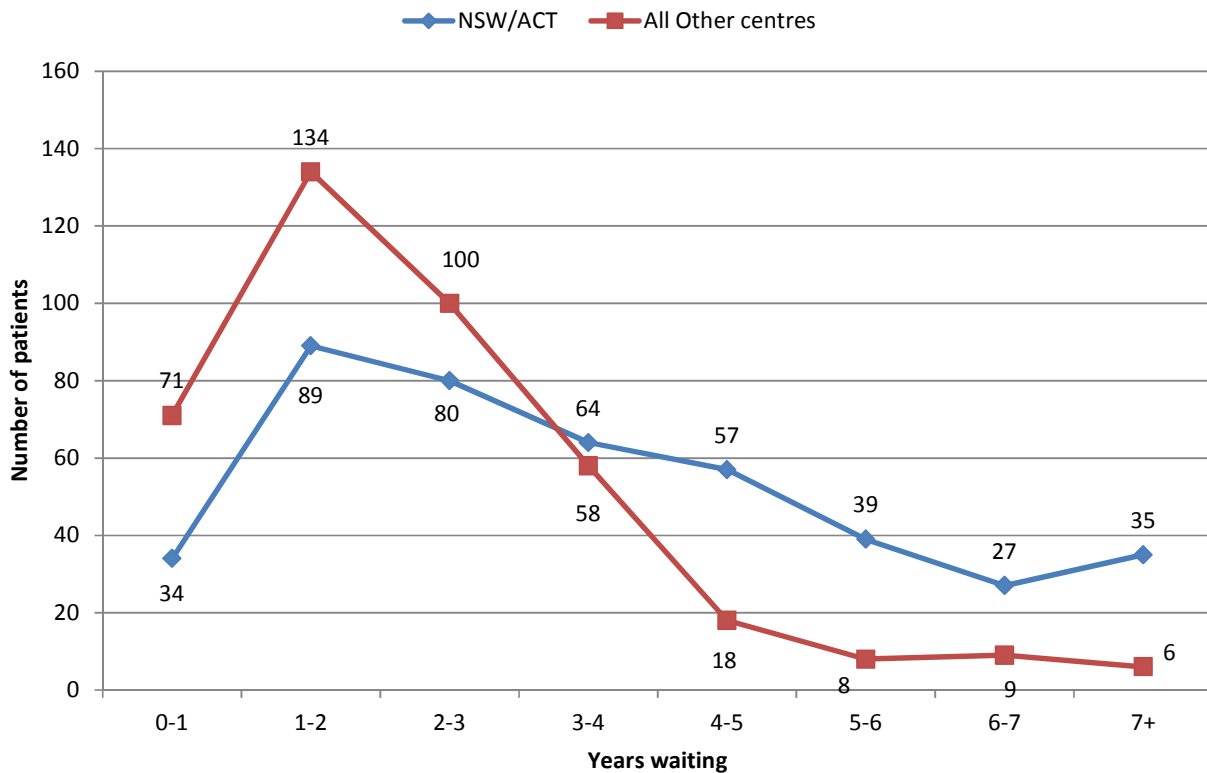
Percentage of patients on the kidney transplant waiting list at any time during 2014 by patient centre as percentage of patients dialysing as at 31/12/2013#



4.6 Years waiting for first kidney transplant for NSW/ACT and other centres on 1/4/2015

Centre	Years Waiting								Total
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7+	
NSW/ACT	34	89	80	64	57	39	27	35	425
All other centres	71	134	100	58	18	8	9	6	404
ALL	105	223	180	122	75	47	36	41	829

Years waiting for first kidney transplant for NSW/ACT and other centres on 1/4/2015



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