

A thick blue wavy line that spans the width of the slide, starting from the left edge and curving upwards towards the right.

Living Donor Kidney Transplantation

Overview of Activity and Performance

Matthew Robb

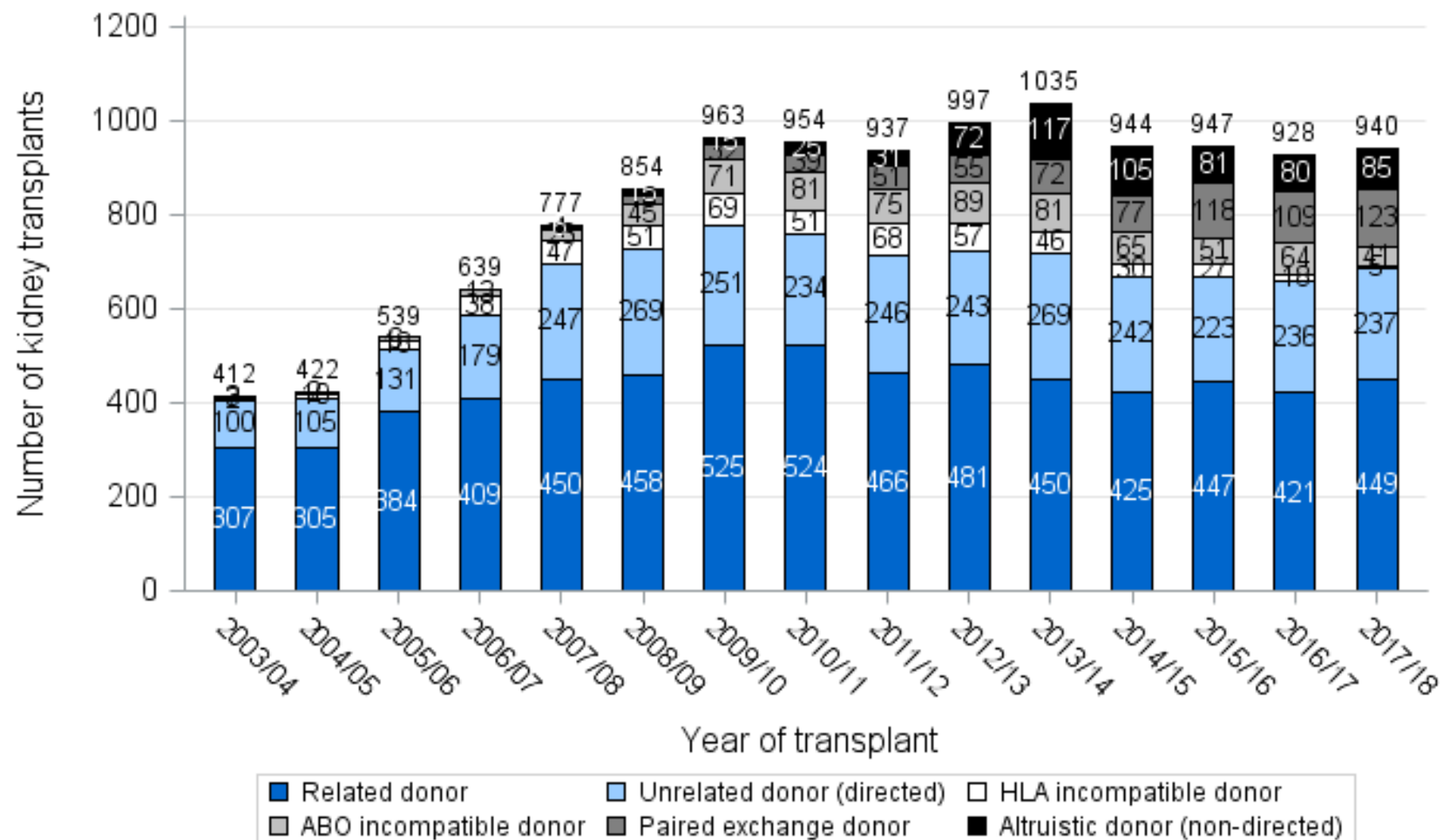
Overview

- Activity
 - National figures
 - Demographics
 - Outcomes
- UK Living Kidney Sharing Scheme
 - Activity
 - Non-proceeding transplants
 - Altruistic donation

Activity

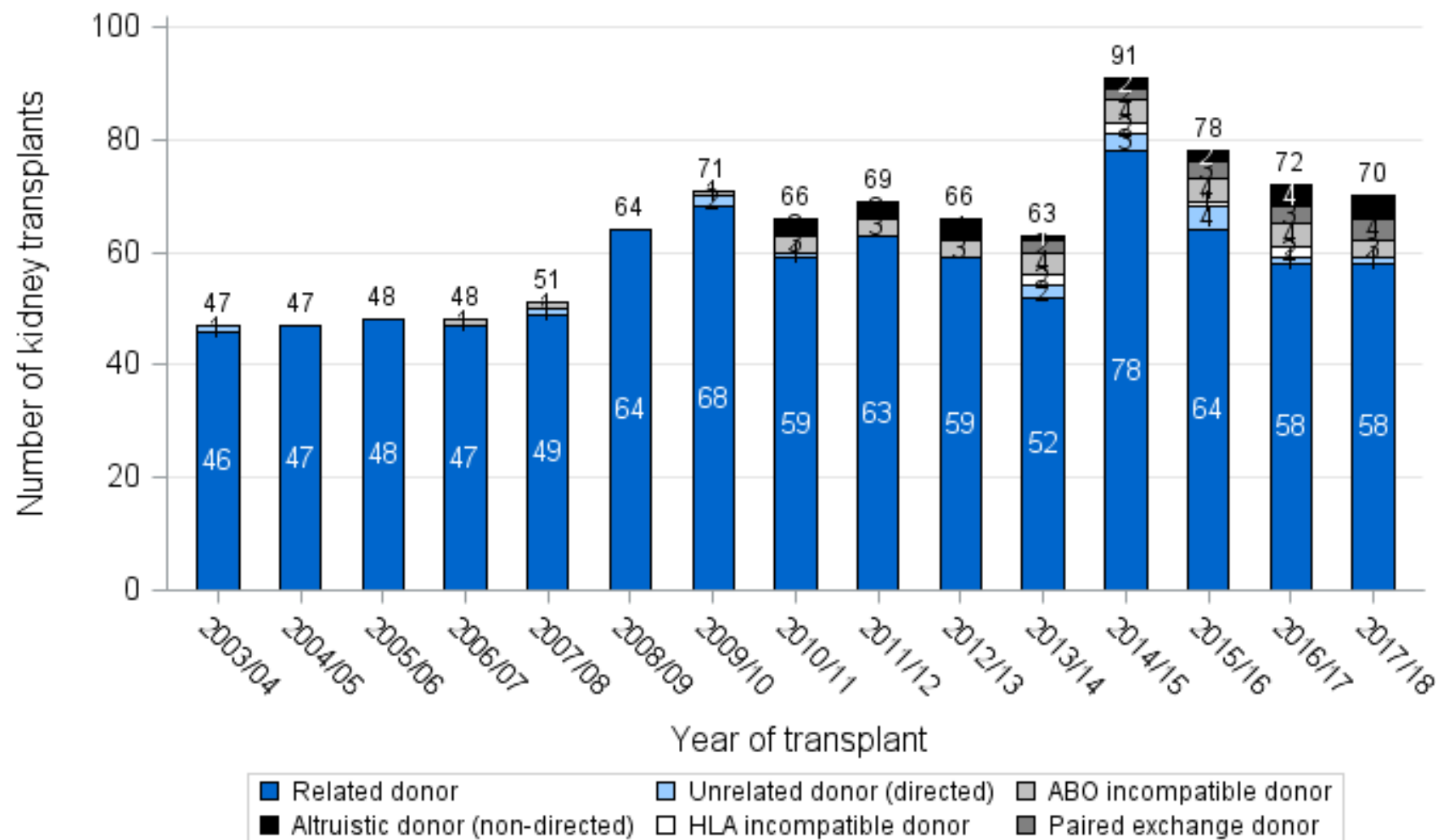
Living donor kidney transplants by type

- Adult

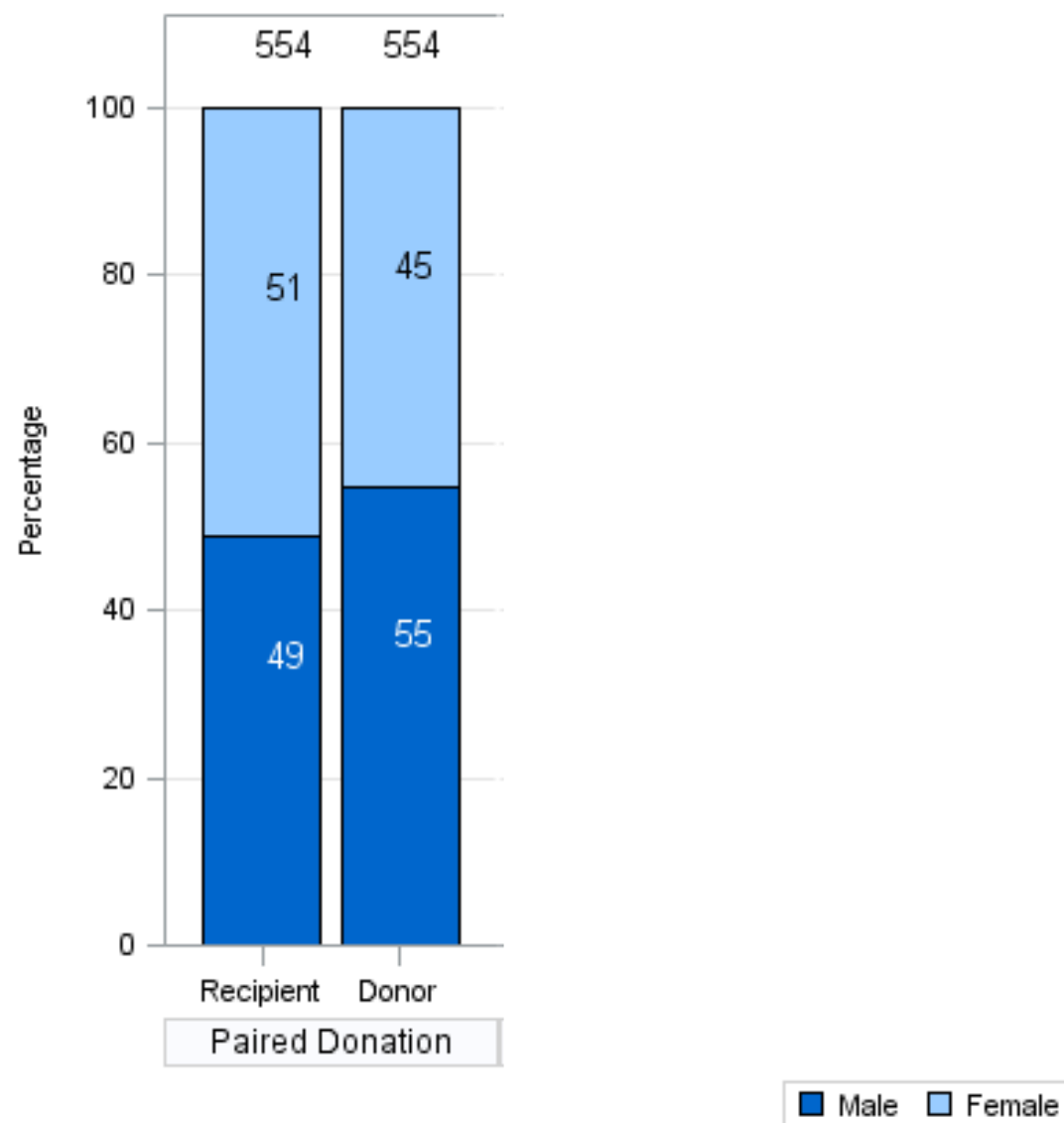


Living donor kidney transplants by type

- Paediatric

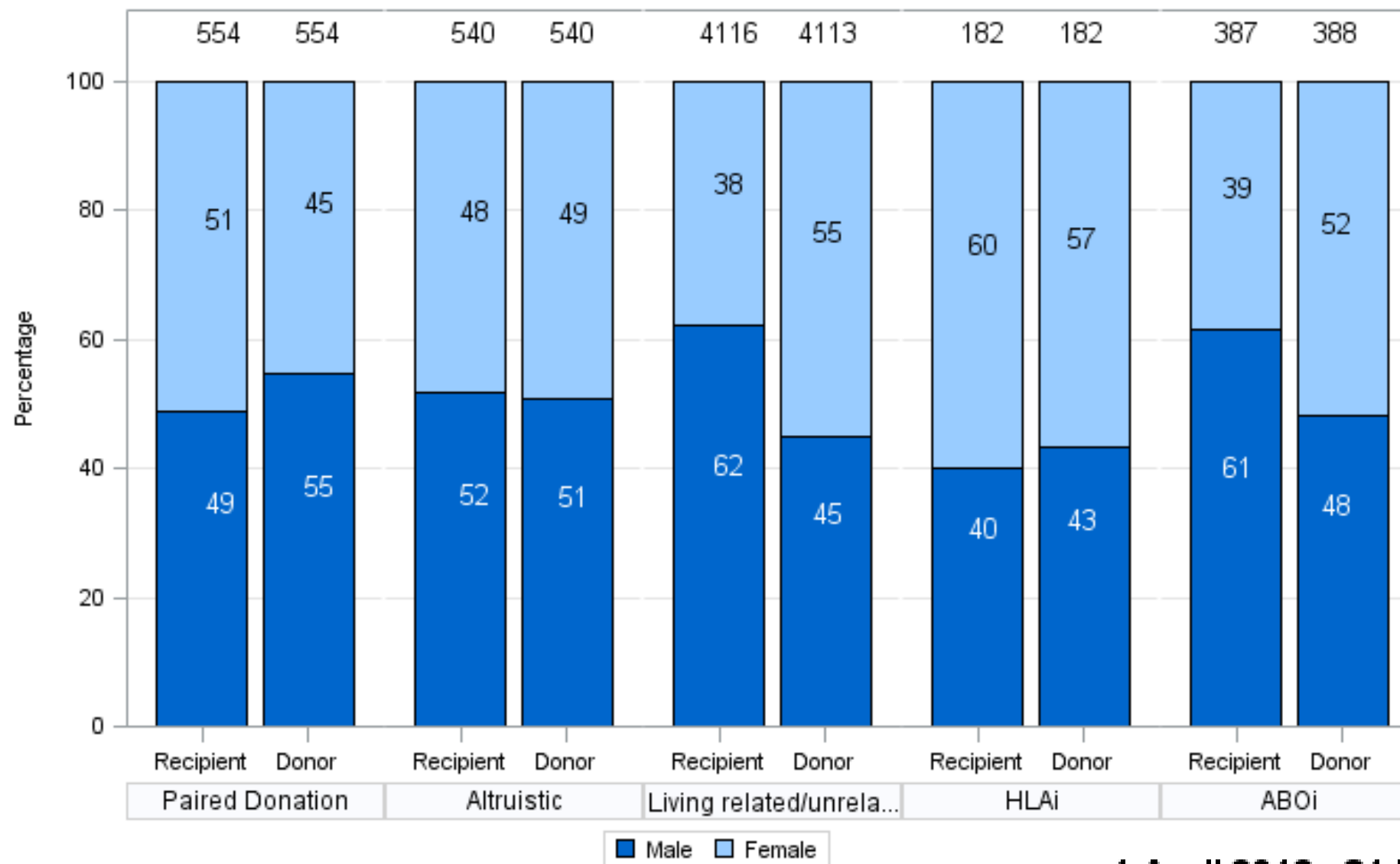


Demographics LDKT – Sex



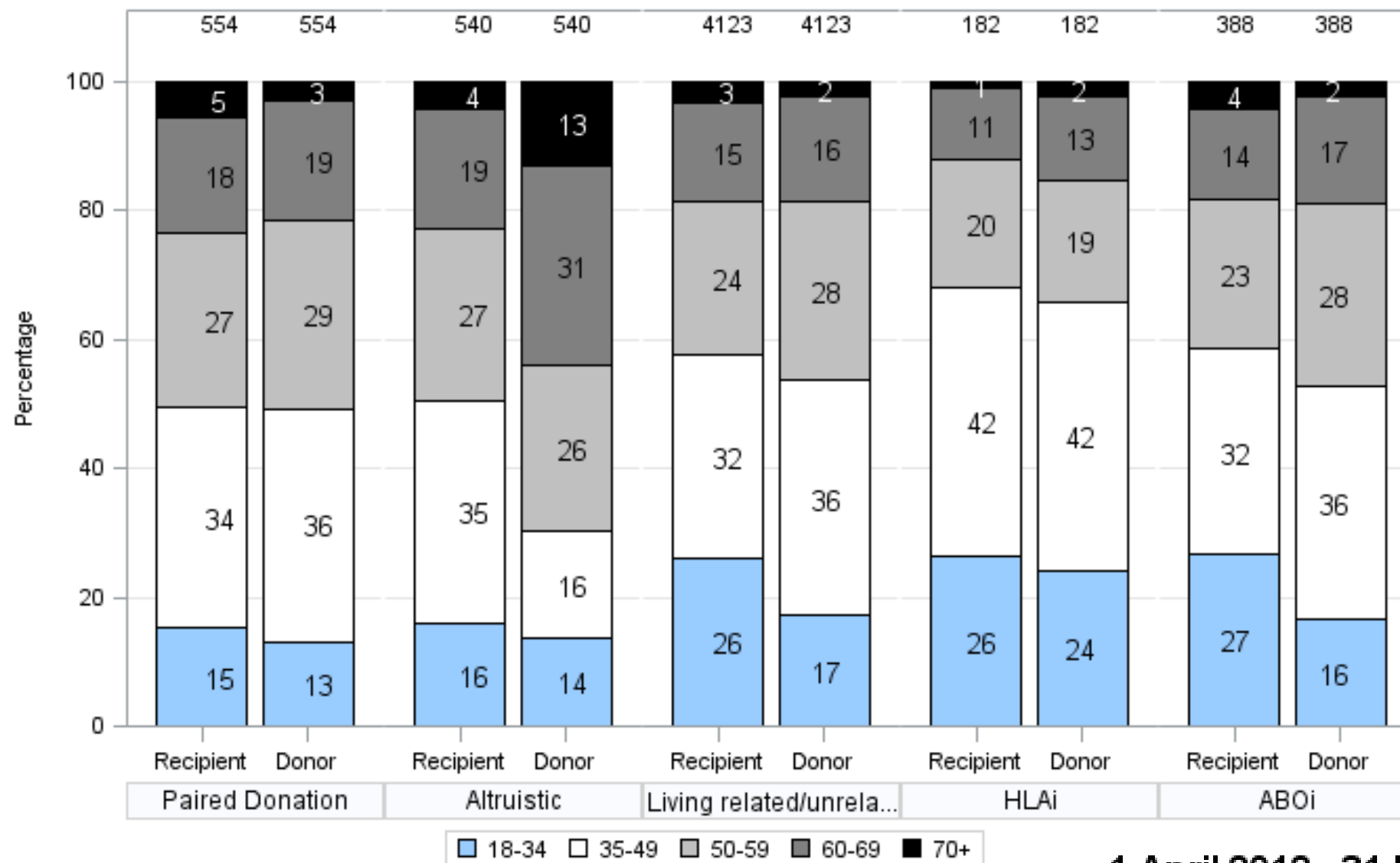
1 April 2012 - 31 March 2018

Demographics LDKT – Sex



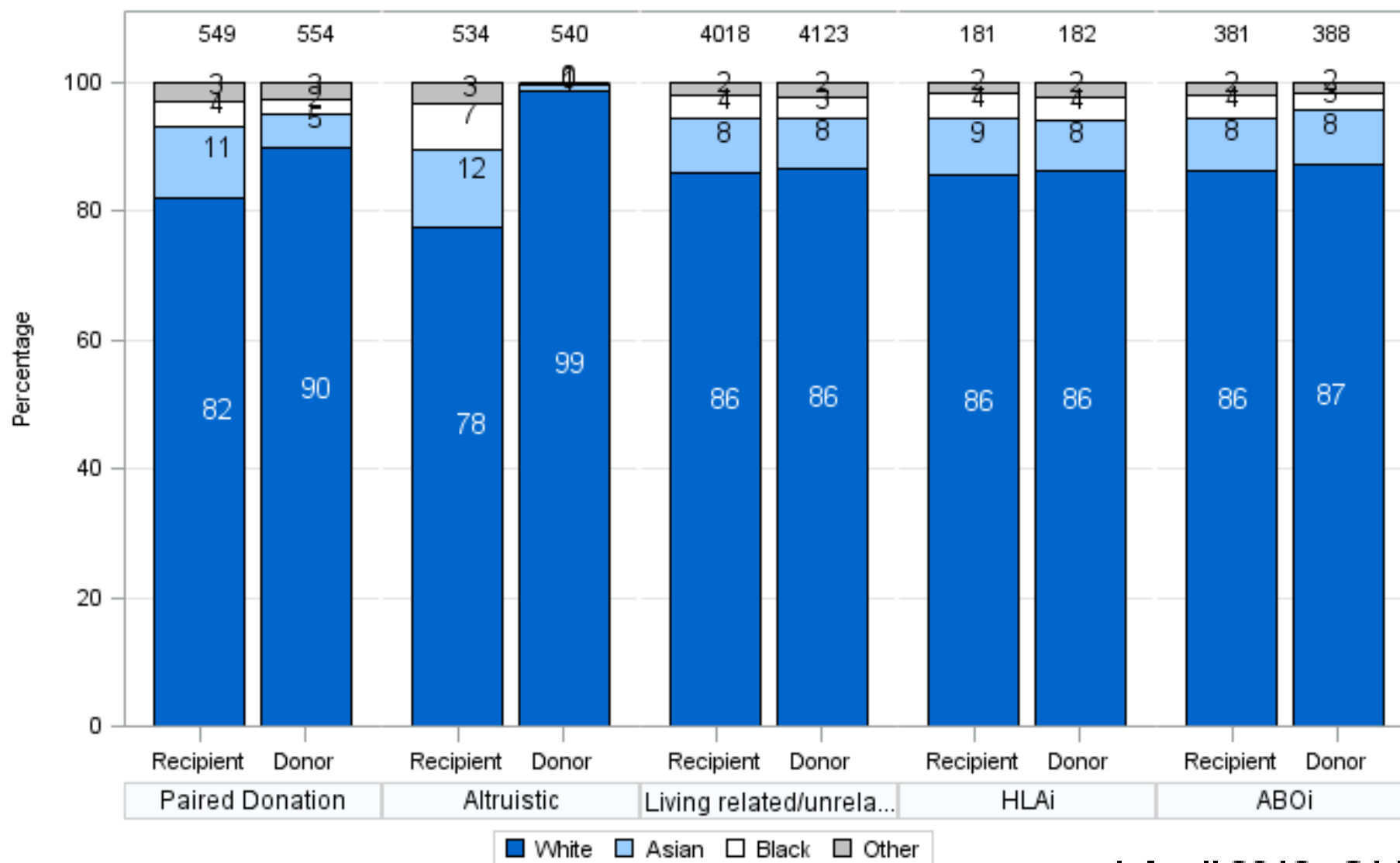
1 April 2012 - 31 March 2018

Demographics LDKT – Age



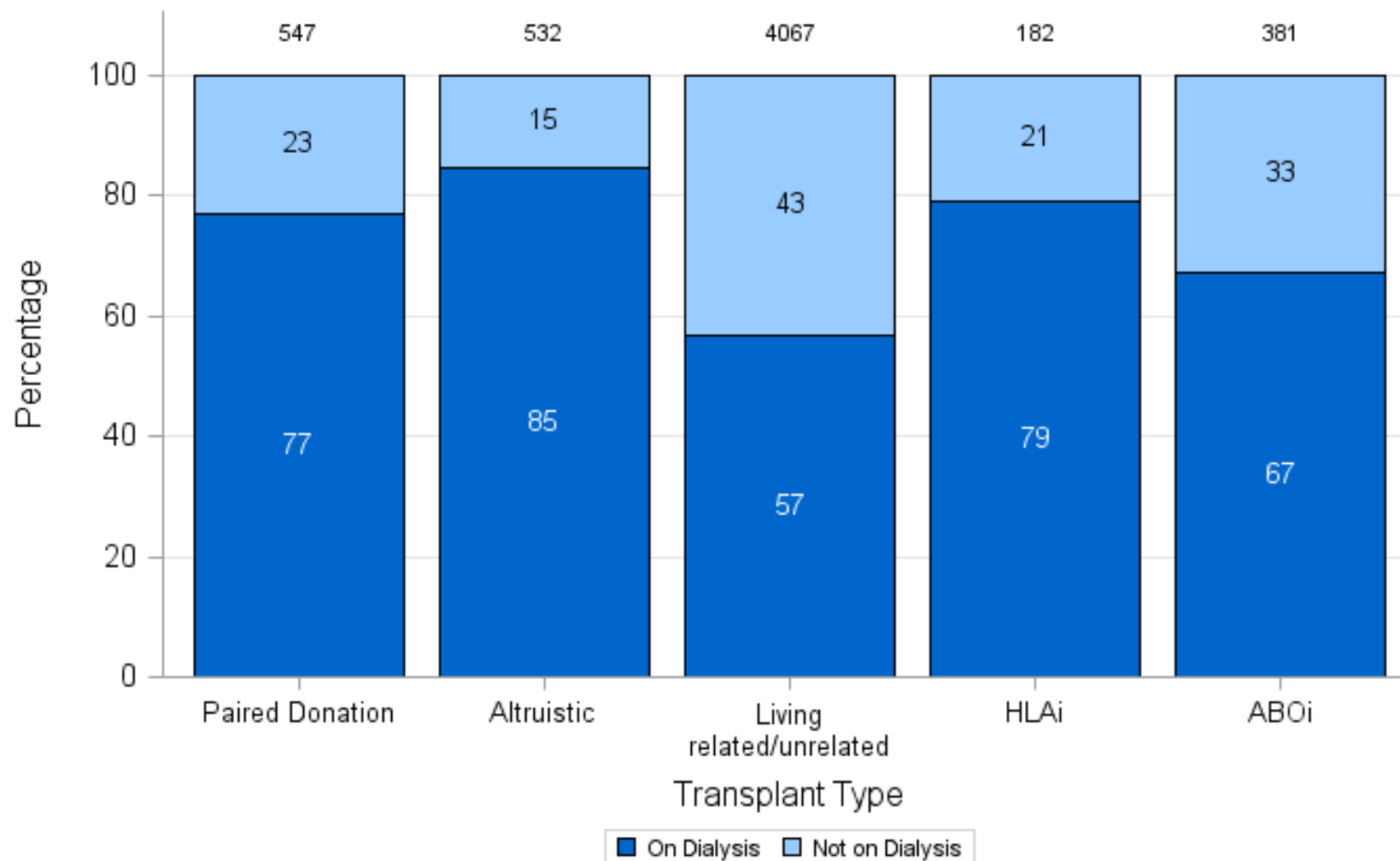
1 April 2012 - 31 March 2018

Demographics LDKT – Ethnicity



1 April 2012 - 31 March 2018

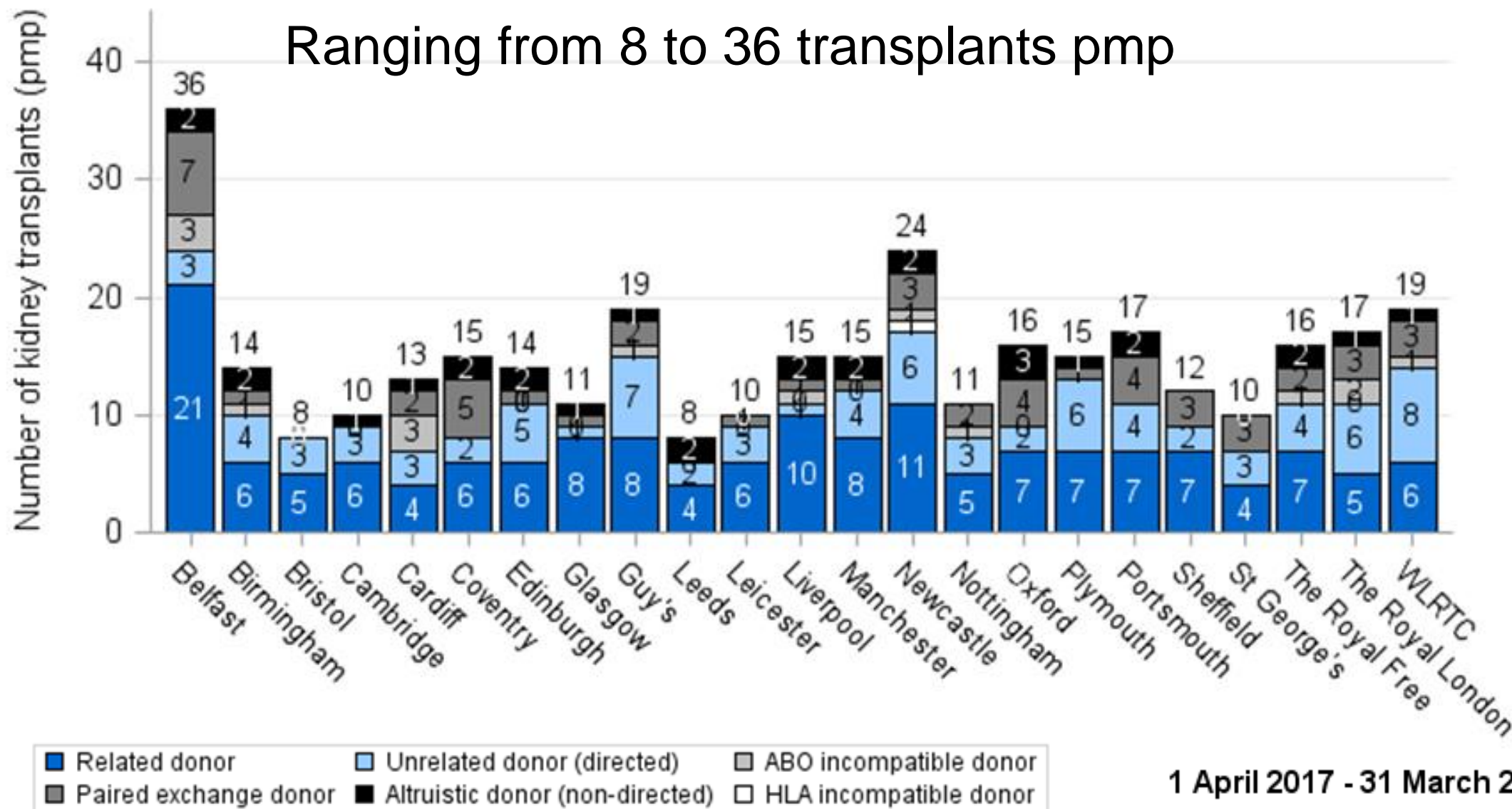
Demographics LDKT – Dialysis status



1 April 2012 - 31 March 2018

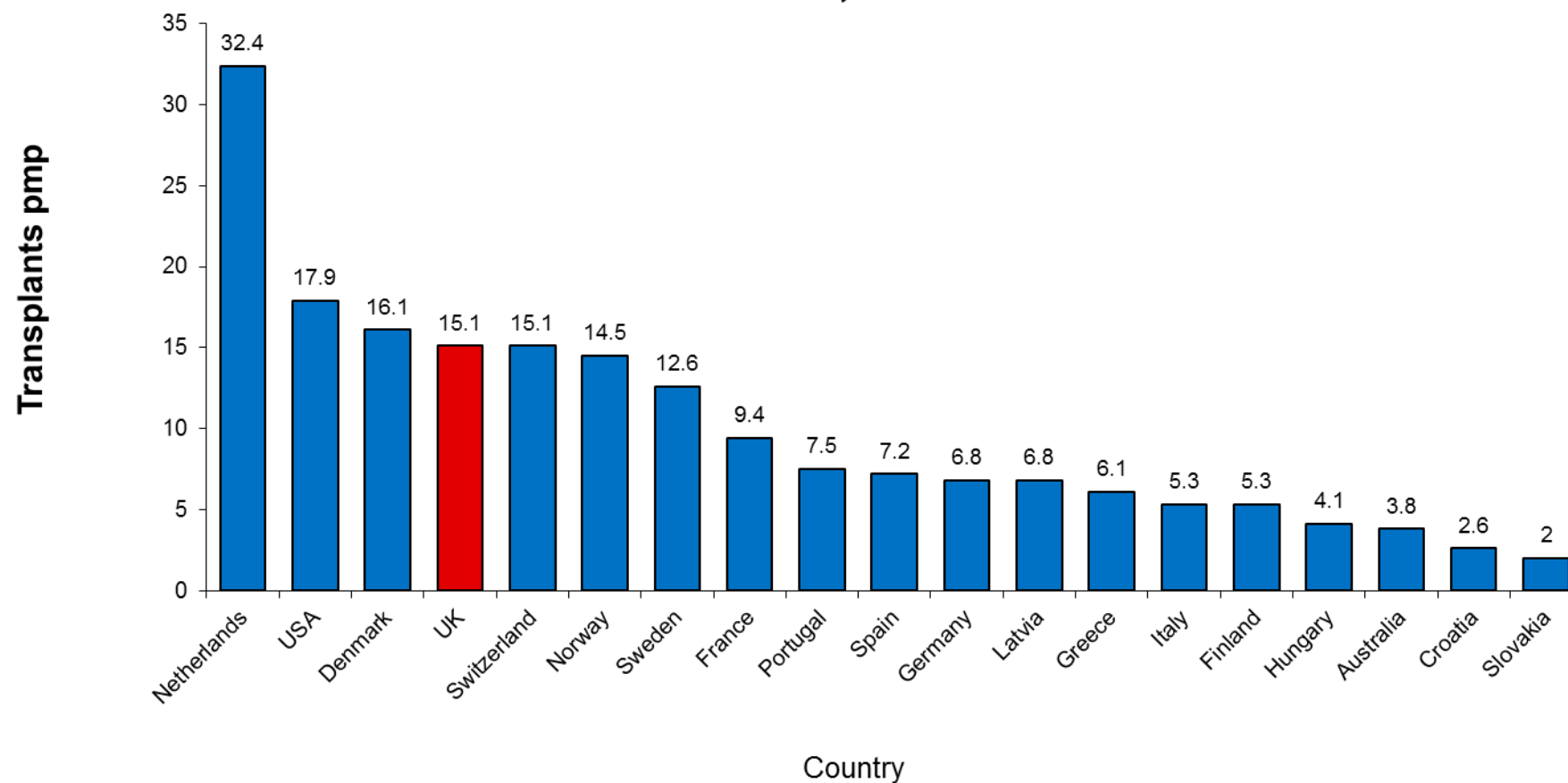
LDKT by centre per million population

Ranging from 8 to 36 transplants pmp



International Comparison

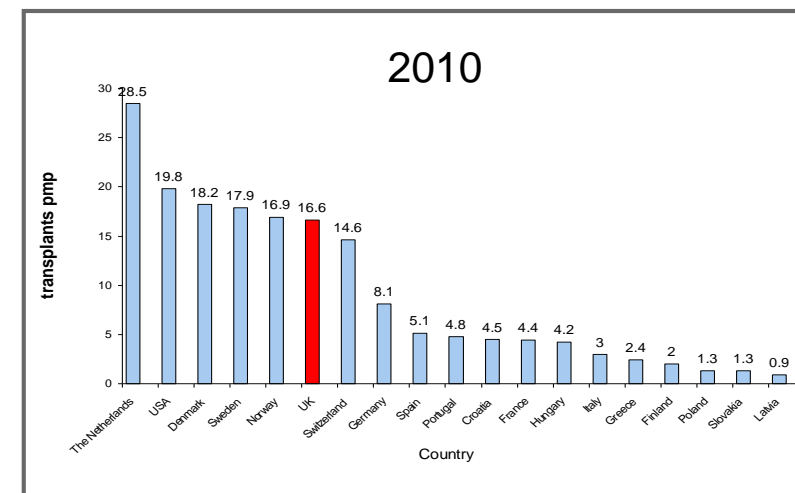
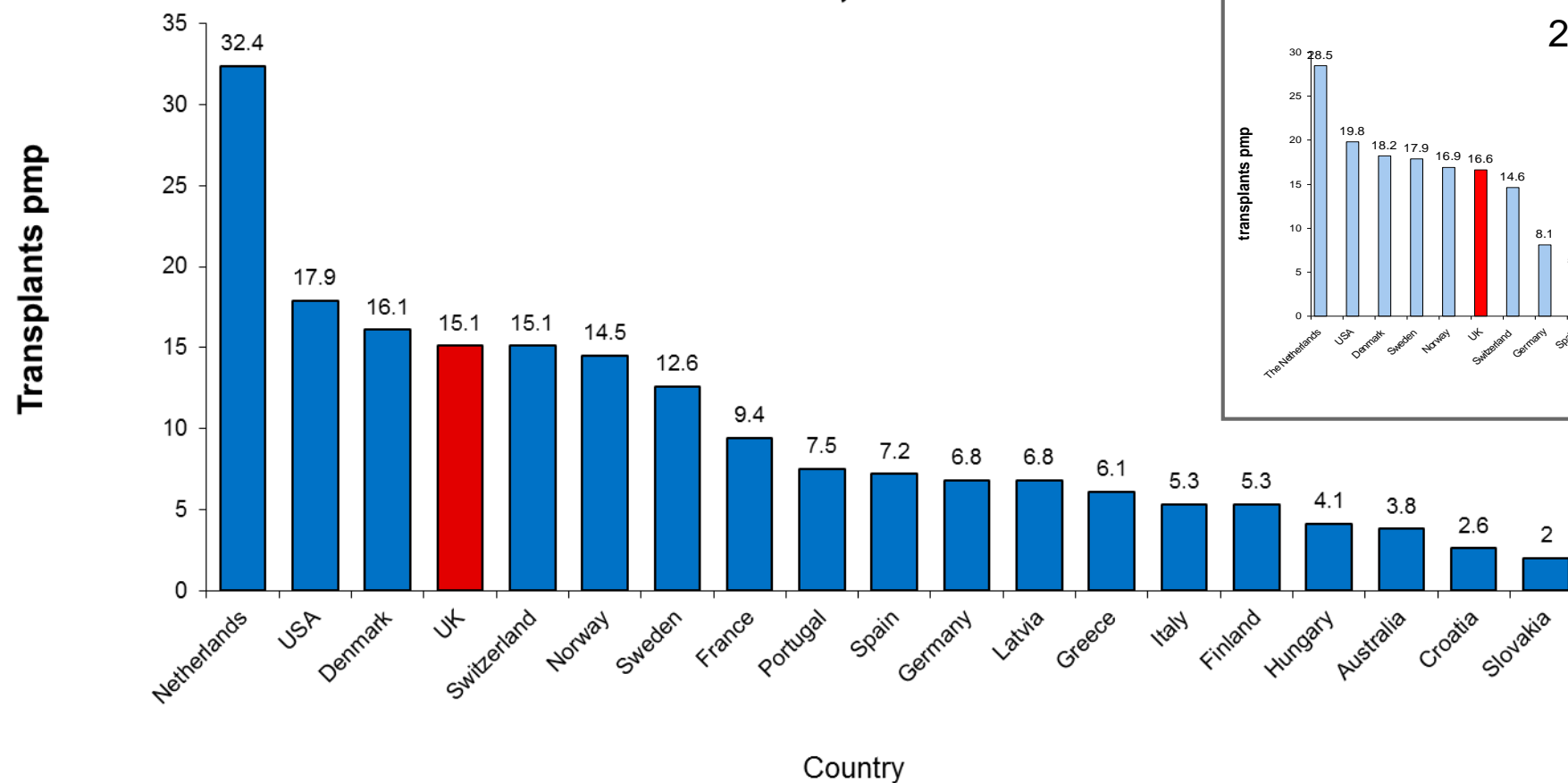
Living donor kidney transplant rates for Europe, Australia and the USA, 2017



Source: Council of Europe – Transplant Newsletter

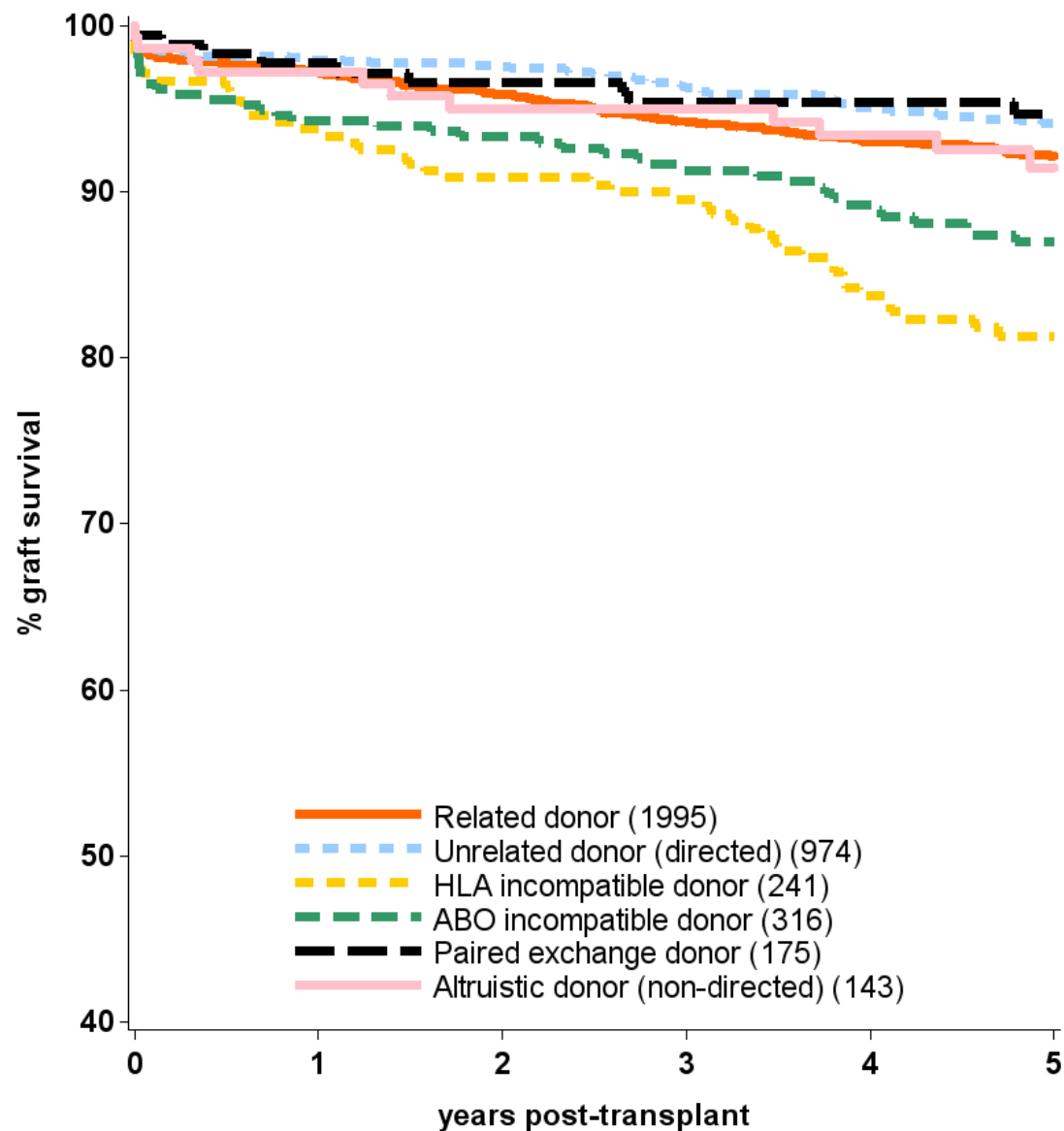
International Comparison

Living donor kidney transplant rates for Europe, Australia and the USA, 2017



Source: Council of Europe – Transplant Newsletter

Survival Outcomes – Graft Survival



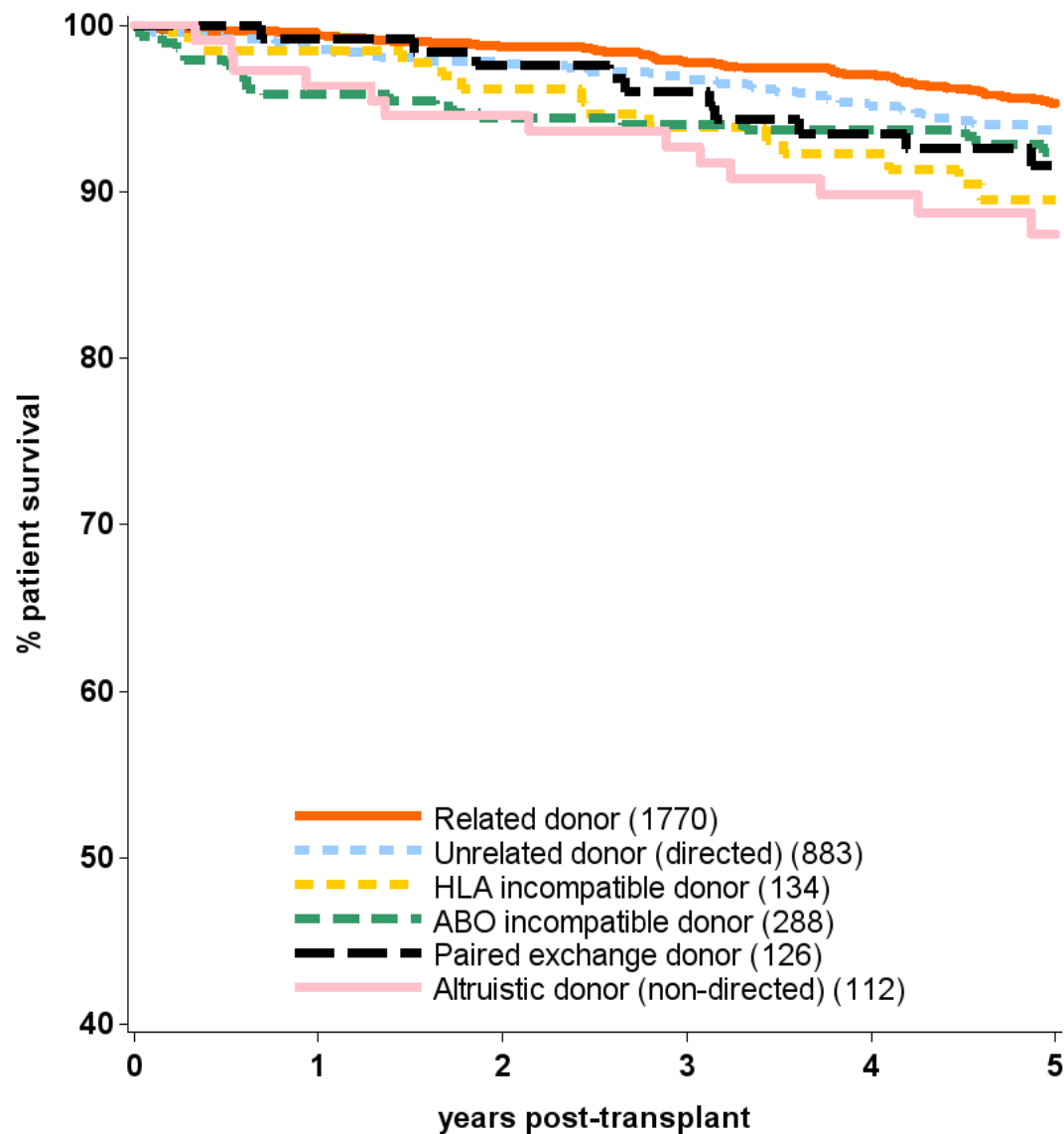
Based on transplants April 2009 - March 2013

Paired exchange donor
Direct (unrelated)
Direct (related)
Altruistic donor
ABO incompatible
HLA incompatible

Survival %	(95% CI)	N
94.7	(90, 97)	175
94.1	(92, 95)	974
92.2	(91, 93)	1995
91.4	(85, 95)	143
87.0	(83, 90)	316
81.3	(76, 86)	241

p<0.0001, log-rank test 5df

Survival Outcomes – Patient Survival

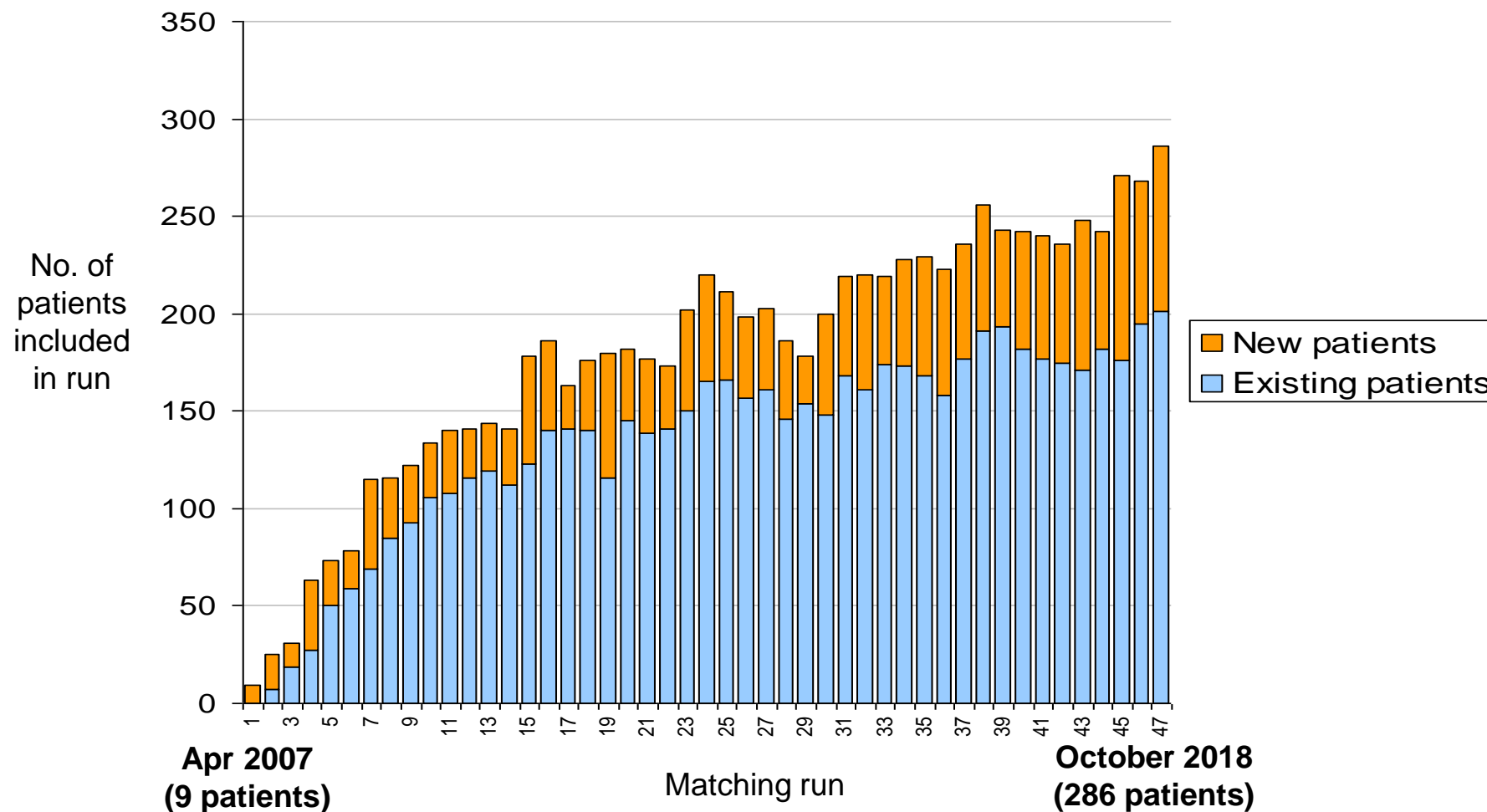


	Survival %	(95% CI)	N
Direct (related)	95.3	(94, 96)	1770
Direct (unrelated)	93.7	(92, 95)	883
ABO incompatible	92.4	(89, 95)	288
Paired exchange donor	91.6	(85, 95)	126
HLA incompatible	89.5	(83, 94)	134
Altruistic donor	87.4	(79, 93)	112

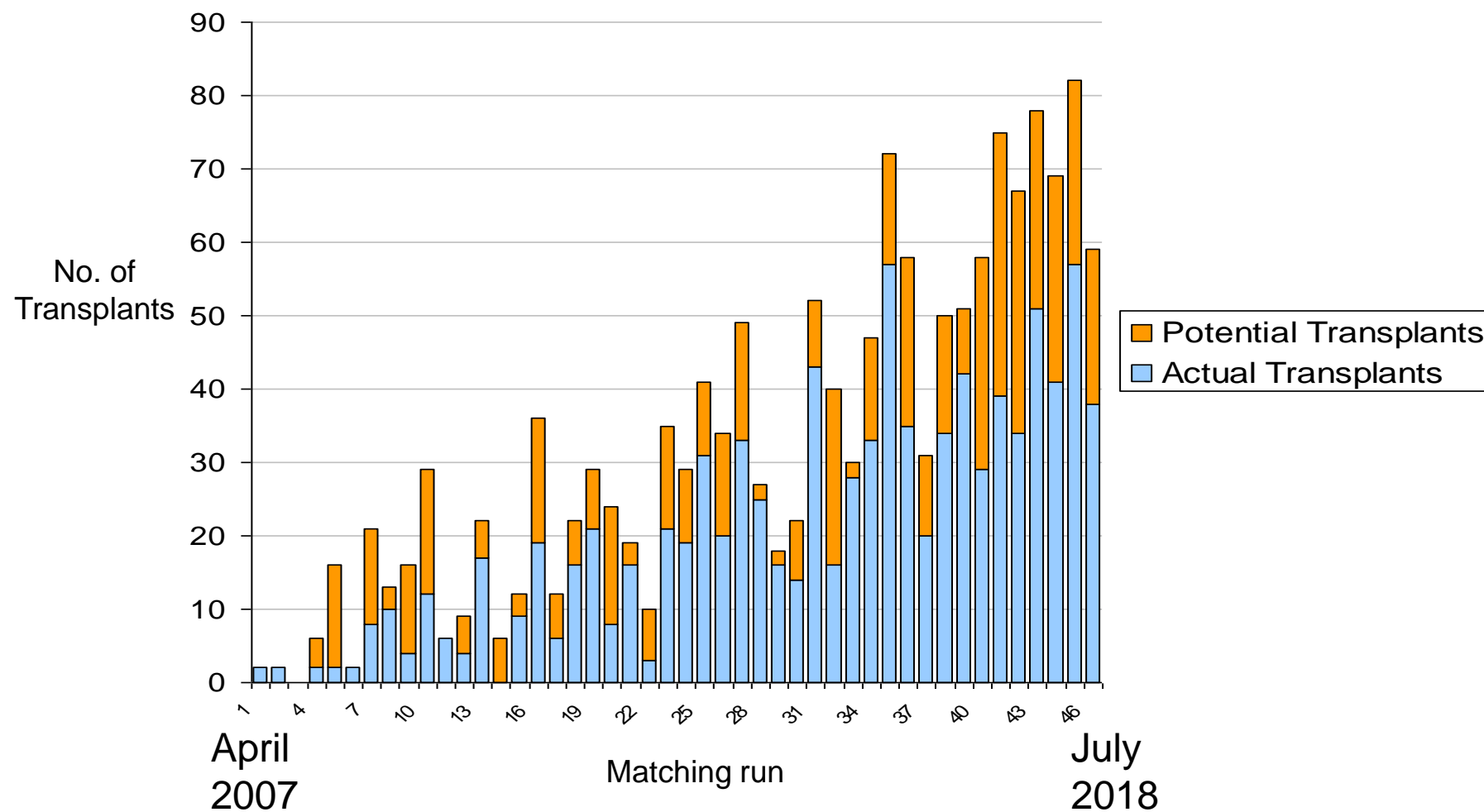
P=0.0006, log-rank test 5df

UK Living Kidney Sharing Scheme

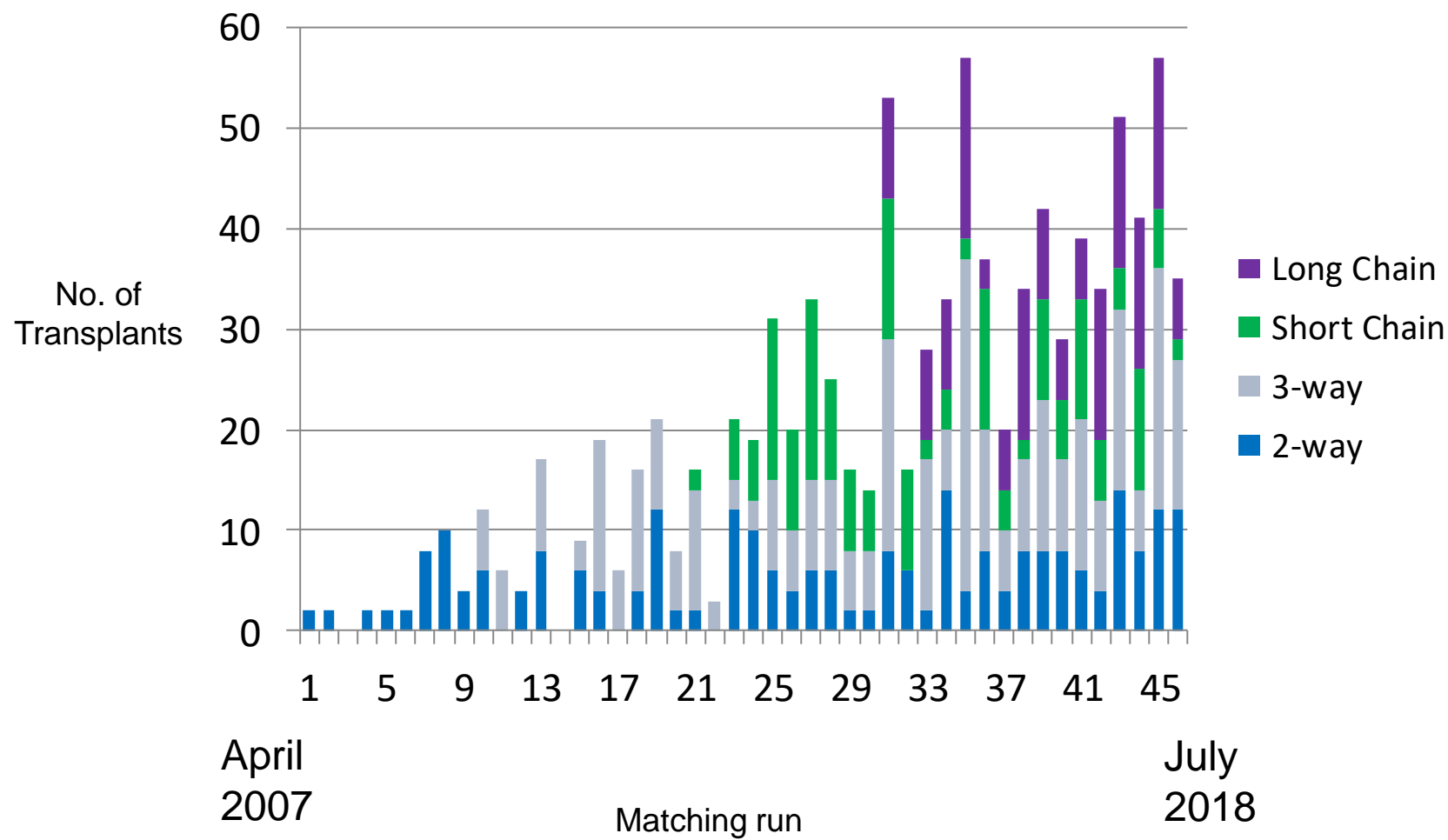
Number of Patients in Quarterly Matching Runs



Potential and Actual Transplants



Transplant by Exchange Type



Impact of Altruistic Donor Chains

– Chance of transplant by blood group

Pre 2012

Recipient ABO

**Donor
ABO**

	O	A	B	AB
O	26/133 (20%)	30/60 (50%)	7/24 (29%)	1/2 (50%)
A	30/179 (17%)	16/68 (24%)	12/39 (31%)	0/5 (0%)
B	7/53 (13%)	11/29 (38%)	1/20 (5%)	1/3 (33%)
AB	0/8 (0%)	0/3 (0%)	0/8 (0%)	0/1 (0%)

Impact of Altruistic Donor Chains

– Chance of transplant by blood group

2012 onwards

Recipient ABO

Donor
ABO

	O	A	B	AB
O	125/323 (39%)	107/166 (64%)	28/47 (60%)	6/13 (46%)
A	137/492 (28%)	78/214 (36%)	38/68 (56%)	3/13 (23%)
B	39/118 (33%)	30/59 (51%)	14/39 (36%)	1/8 (13%)
AB	4/19 (21%)	11/20 (55%)	4/14 (29%)	1/8 (13%)

Impact of Altruistic Donor Chains

– Chance of transplant by blood group

2012 onwards

Recipient ABO

Donor
ABO

	O	A	B	AB
O	125/323 (39%)	107/166 (64%)	28/47 (60%)	6/13 (46%)
A	137/492 (28%)	78/214 (36%)	38/68 (56%)	3/13 (23%)
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Compatible Pairs

- First compatible pair registered in June 2011
- 148 compatible pairs have now been registered in the scheme
- 100 (68%) appeared in only 1 matching run
 - Of those 55 (55%) were transplanted
- In total, 71 patients have been transplanted through the scheme

Non-proceeding transplants

- 54% of identified transplants proceeded 2007-2011
- 66% proceeded 2012-present
- 60% proceeded since January 2017

Non-proceeding transplants

NHS


Blood and Transplant

Non-proceeding or delayed transplants through the UK Living Kidney Sharing Schemes

This information is being requested to analyse the reasons for non-proceeding transplants identified through the UK Living Kidney Sharing Scheme. The data will then be used as part of the ongoing process of improving the rates of proceeding transplants through the scheme. Before submitting your response please ensure you have discussed the cause and any remedial action with the wider multi-disciplinary team.

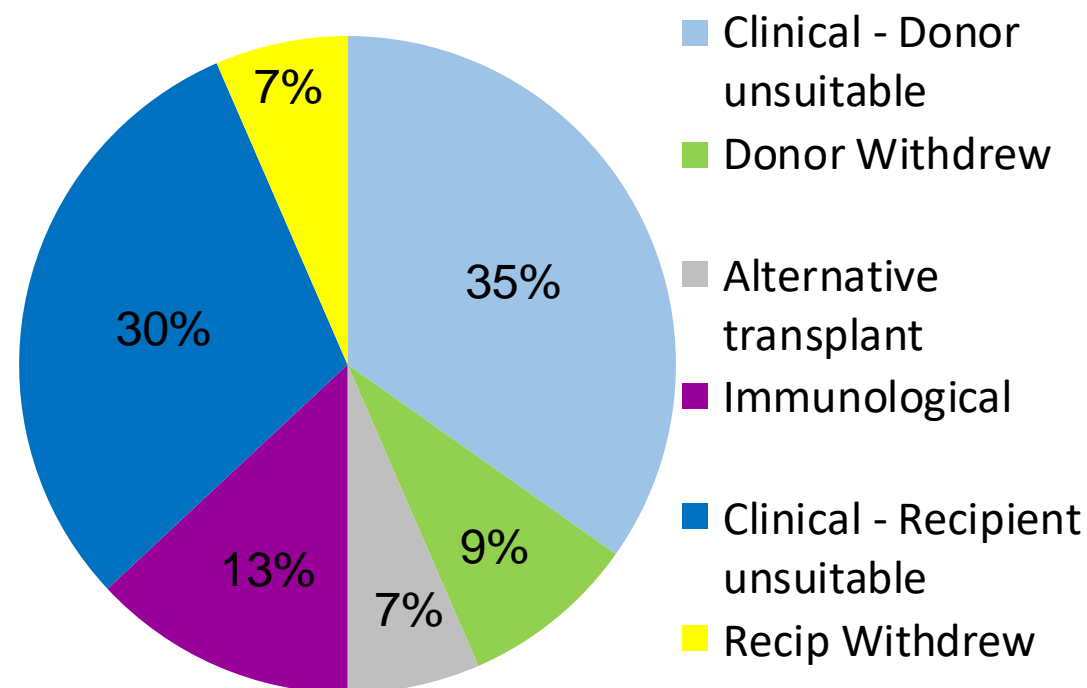
* Feedback ID (from the covering email)

Next

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October 2017- July 2018 (46 reasons)



Non-simultaneous surgery

- Introduced in 2015
- 50 non-simultaneous exchanges (133 transplants) to date

	2015	2016	2017	2018
Non- simultaneous exchanges (%)	13 (23%)	12 (22%)	13 (24%)	12 (17%)

Altruistic donors in the UKLKSS

- Since January 2018, altruistic donors have been registered into the scheme by default
- In 2018, we had 64 altruistic donor transplants, 23 fewer than in 2017

	2017	2018
Direct to list	61	33
Chain donation	26	31
Total chain transplants	64	79

- In 2018, 48% of transplants from altruistic donors were as part of a UKLKSS chain, an increase from 30% in 2017

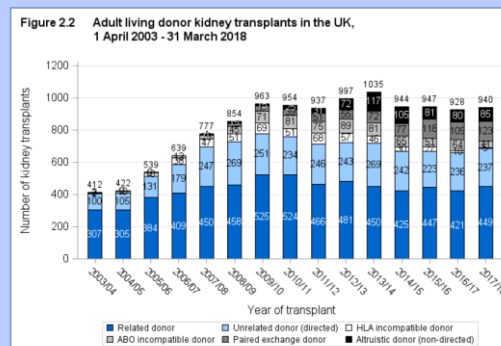
What information is available to support decision making?

ANNUAL REPORT ON LIVING DONOR KIDNEY TRANSPLANTATION

REPORT FOR 2017/2018
(1 APRIL 2003 – 31 MARCH 2018)

PUBLISHED SEPTEMBER 2018

Figure 2.2 shows the number of adult living donor kidney transplants performed in the UK between 1 April 2003 and 31 March 2018. The number of transplants increased from 412 in 2003/04 to 940 in 2017/18.



Incompatible Pairs Living Donor Information Application

Variable	Select
Recipient Blood Group	Select
Calculated Reaction Frequency	Select
Donor Blood Group	Select
ABOi TX with willing Donor	Select
HLAi TX with willing Donor	Select
Recipient Age	Select

Reset

Estimated Chance of Transplant

	Deceased Donor	NLDKSS	ABOi	HLAi
6 Months	-	-	-	-
1 Year	-	-	-	-
3 Years	-	-	-	-

Transplant Survival Rates

	Deceased Donor	NLDKSS	ABOi	HLAi
6 Months	-	-	-	-
1 Year	-	-	-	-
3 Years	-	-	-	-

Disclaimer: The information is provided for guidance only

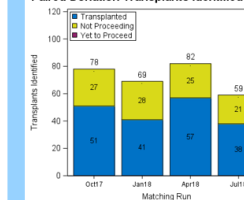
Note: Chances of transplant through the NLDKSS could be increased by considering and antibody incompatible transplant within the scheme

For a more accurate estimation of waiting time for a deceased donor transplant based on more variables, please visit

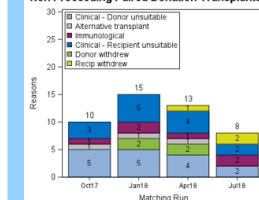
http://www.odt.nhs.uk/doc/chance_of_transplant.xls

UK Living Kidney Sharing Schemes Performance Figures

Paired Donation Transplants Identified



Non Proceeding Paired Donation Transplants

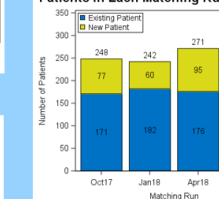


Note: each reason may account for multiple transplants

Total May 2007 - July 2018

Pairs Registered	2256
Patients Registered	2042
Altruistic Donors in Paired Donation Matching Runs	234
Compatible Pairs Registered	135
Transplants	947

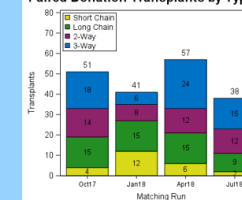
Patients in Each Matching Run



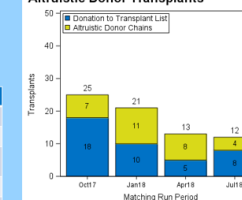
UKLSS Records

	In a Matching Run
Pairs Included	305 (Apr 2018)
Patients Included	271 (Apr 2018)
Altruistic Donors Included	17 (Jan 2018)
Transplants Identified	82 (Apr 2018)
Transplants Proceeded	57 (Apr 2018)

Paired Donation Transplants by Type



Altruistic Donor Transplants



www.odt.nhs.uk/living-donation

Summary

- There were 1010 living donor kidney transplants 2017/18, an increase from the previous financial year
- There has been an increase in the number of transplants through the UKLKSS and a decrease in antibody incompatible transplants
- Innovations in the UKLKSS are vital in making the most of every transplant opportunity