

A thick blue wavy line that spans the width of the slide, starting from the left edge and ending at the right edge, with a slight dip in the middle.

Living Donor Kidney Transplantation

Overview of Activity and Performance

Matthew Robb

Overview

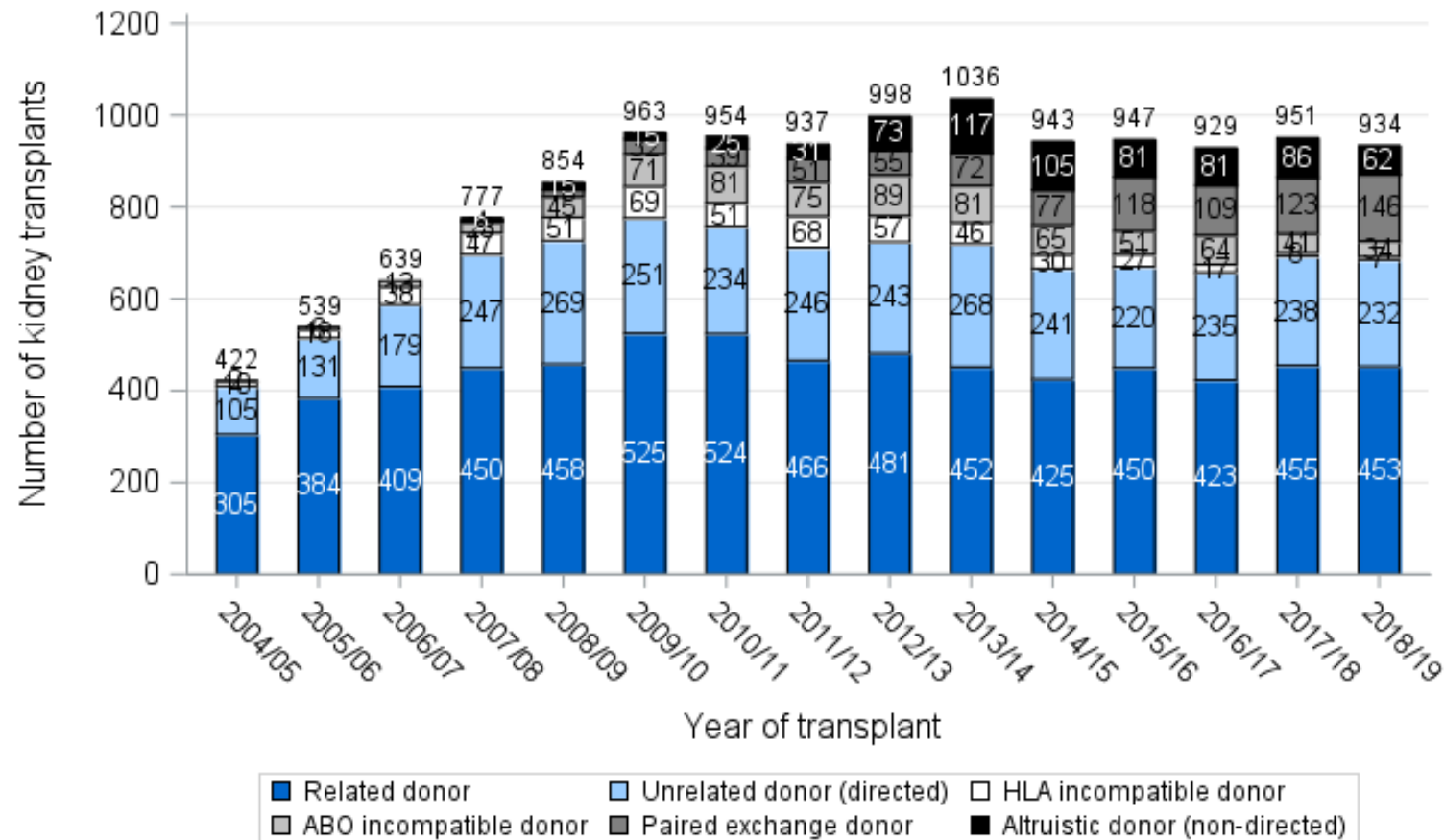
- Activity
 - National figures
 - Centre and unit data
 - Outcomes
- UK Living Kidney Sharing Scheme
 - Activity
 - Highlights

Activity

Adult living donor transplants by type

Increasing complexity of living donor kidney transplantation

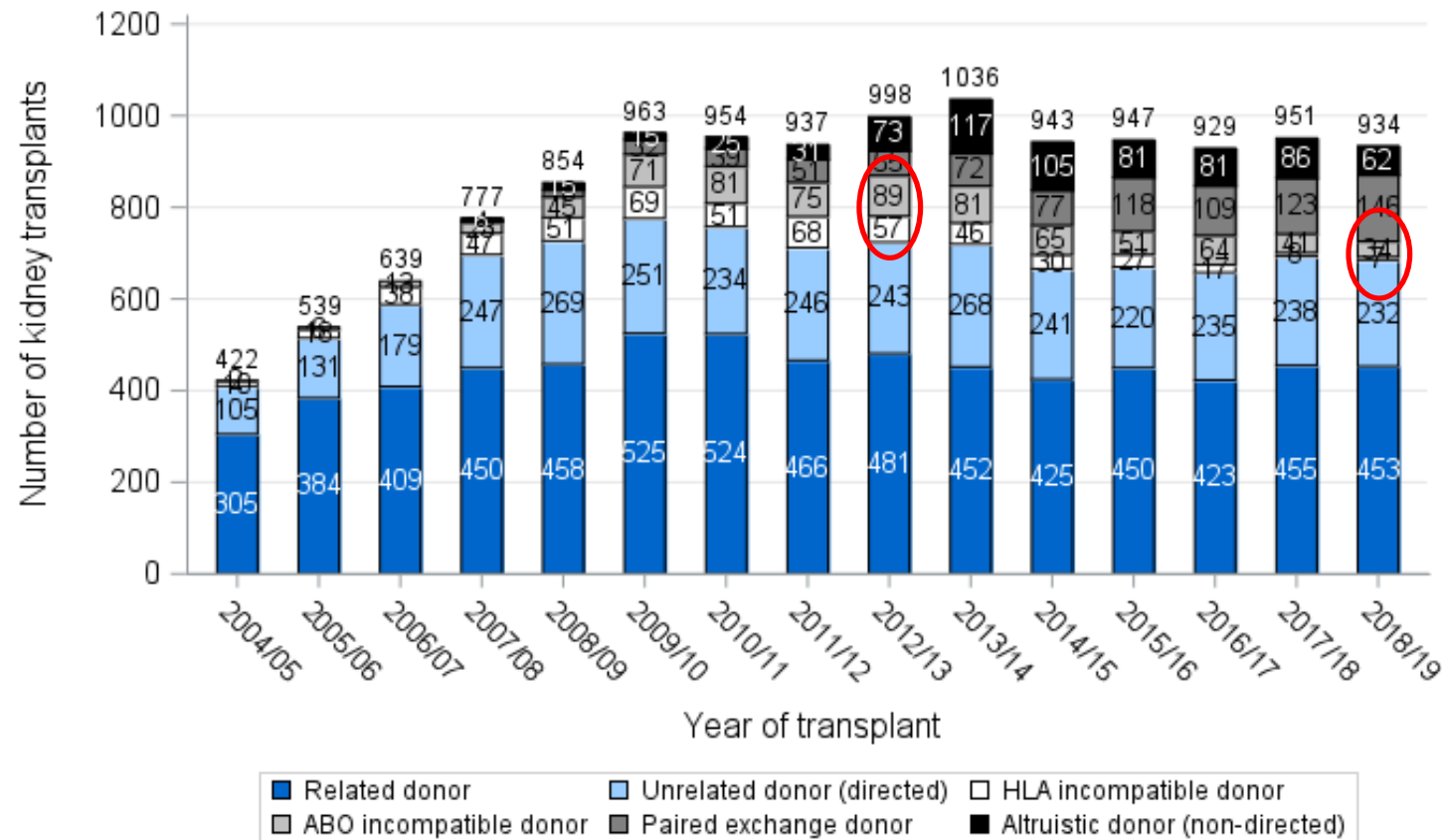
Figure 2.2 Adult living donor kidney transplants in the UK,
1 April 2004 - 31 March 2019



Adult living donor transplants by type

Steady fall in both ABOi and HLAi adult living donor kidney transplants since 2012/13

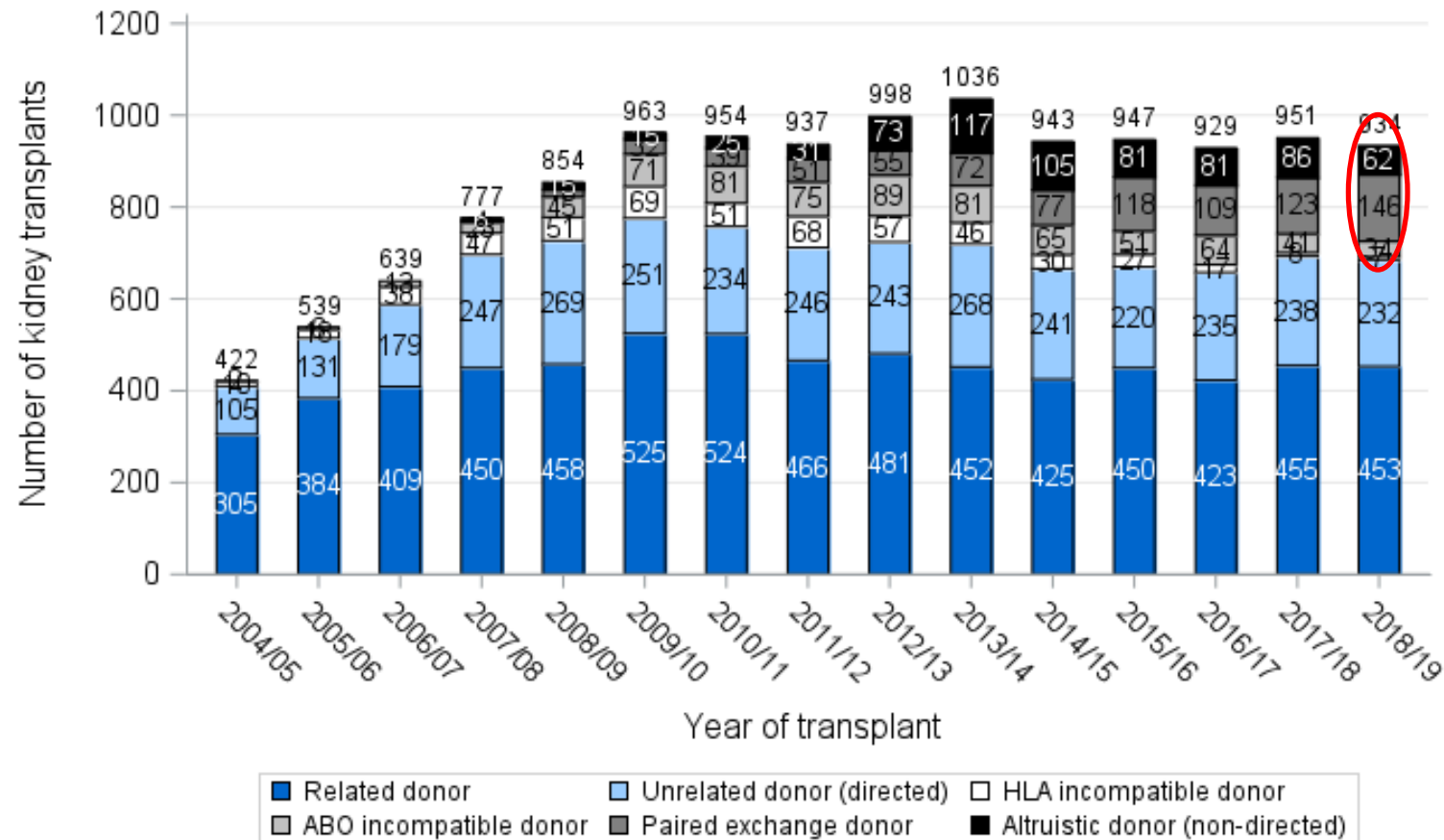
Figure 2.2 Adult living donor kidney transplants in the UK, 1 April 2004 - 31 March 2019



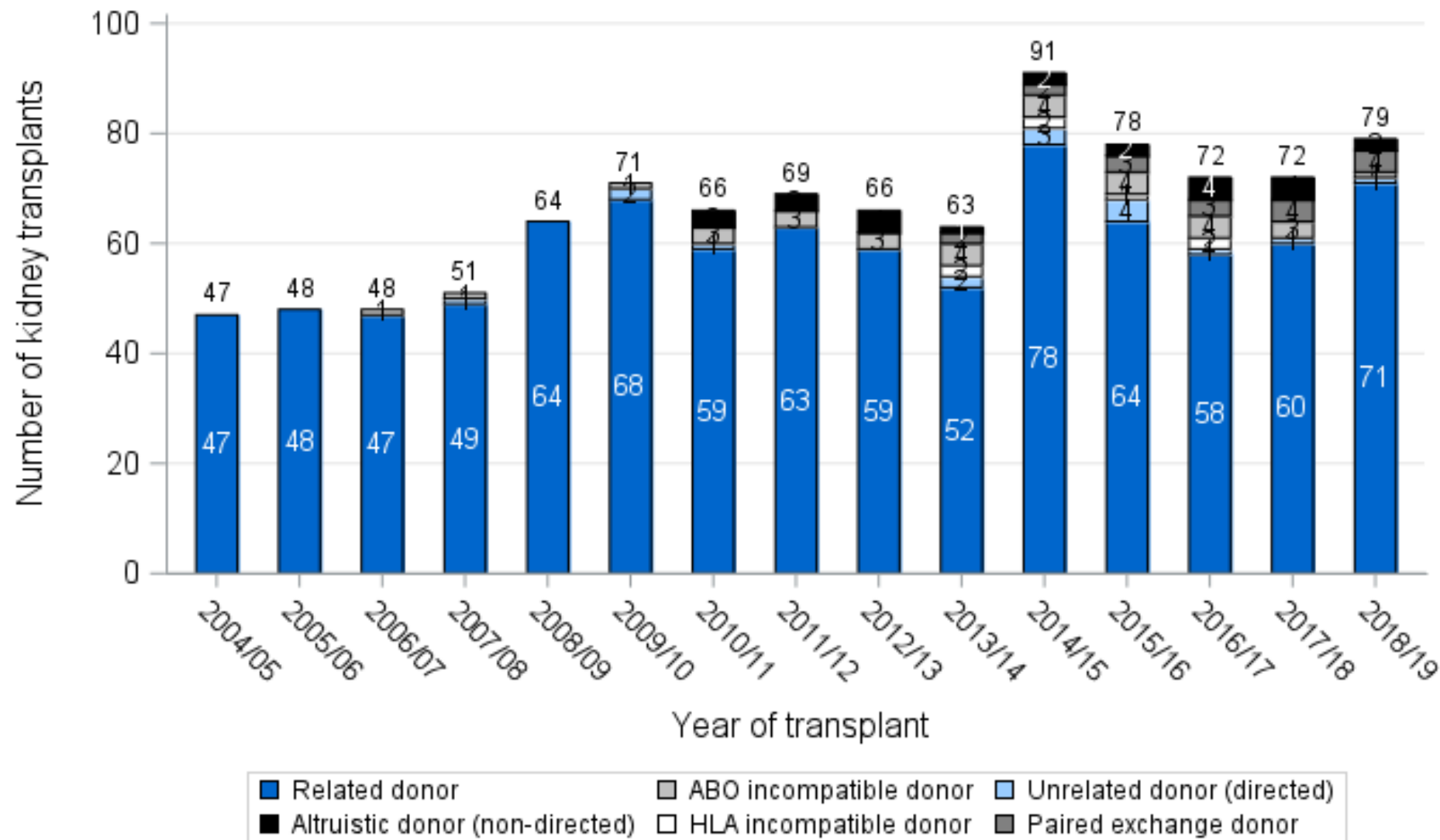
Adult living donor transplants by type

Rise in paired but a fall in altruistic adult living donor kidney transplants

Figure 2.2 Adult living donor kidney transplants in the UK,
1 April 2004 - 31 March 2019

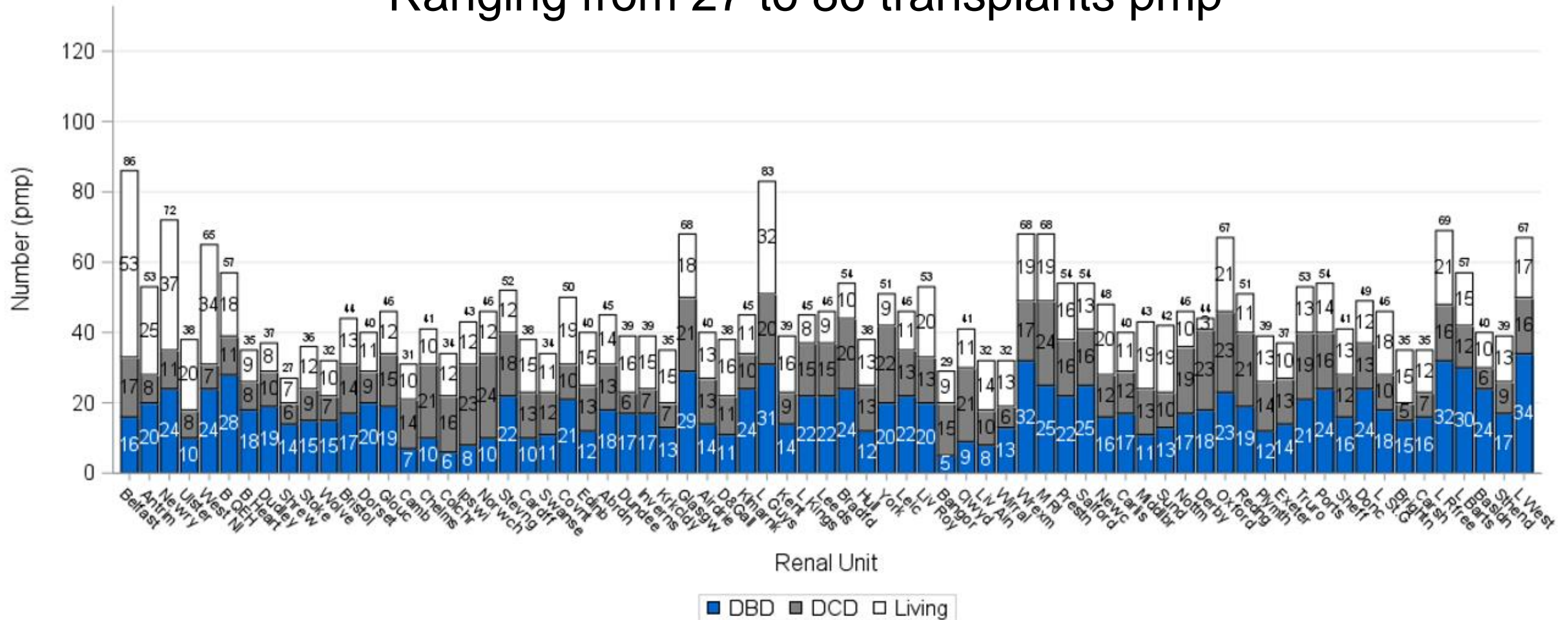


Paediatric living donor transplants by type



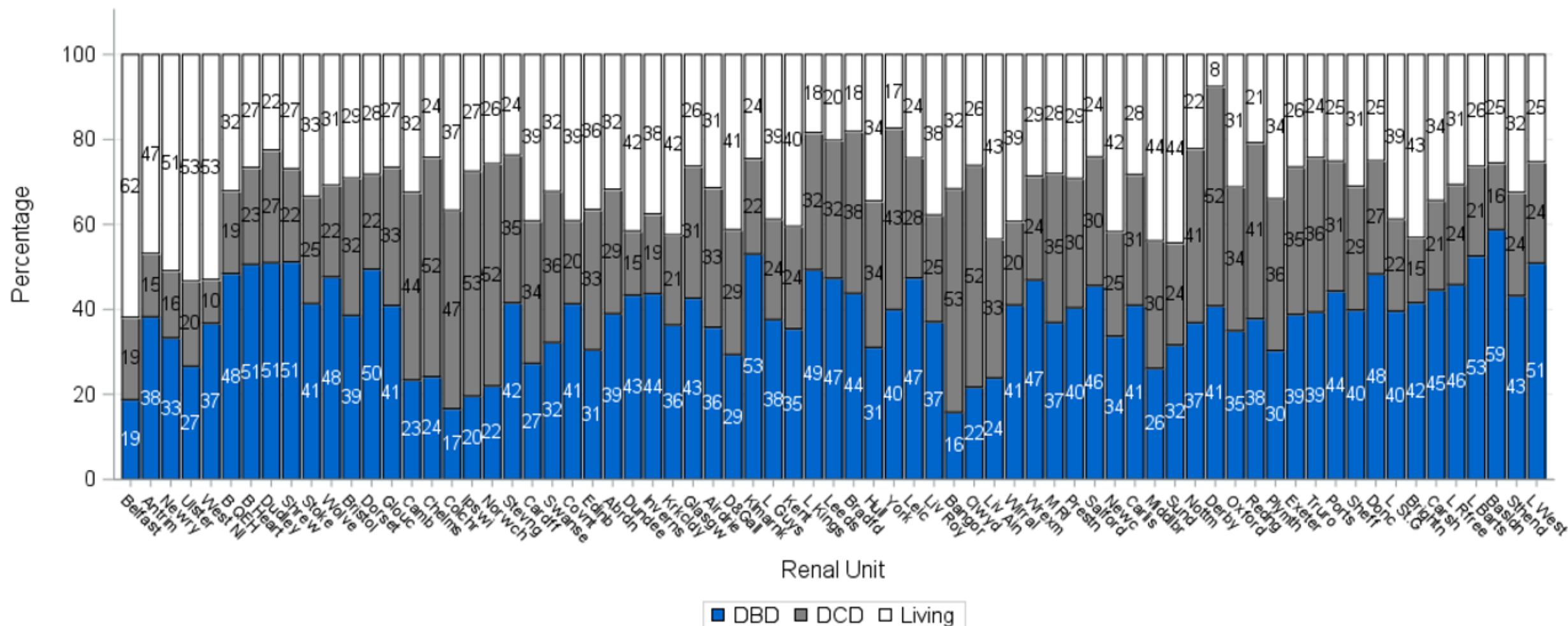
Kidney only transplants (pmp)

Ranging from 27 to 86 transplants pmp



April 2015 – March 2018

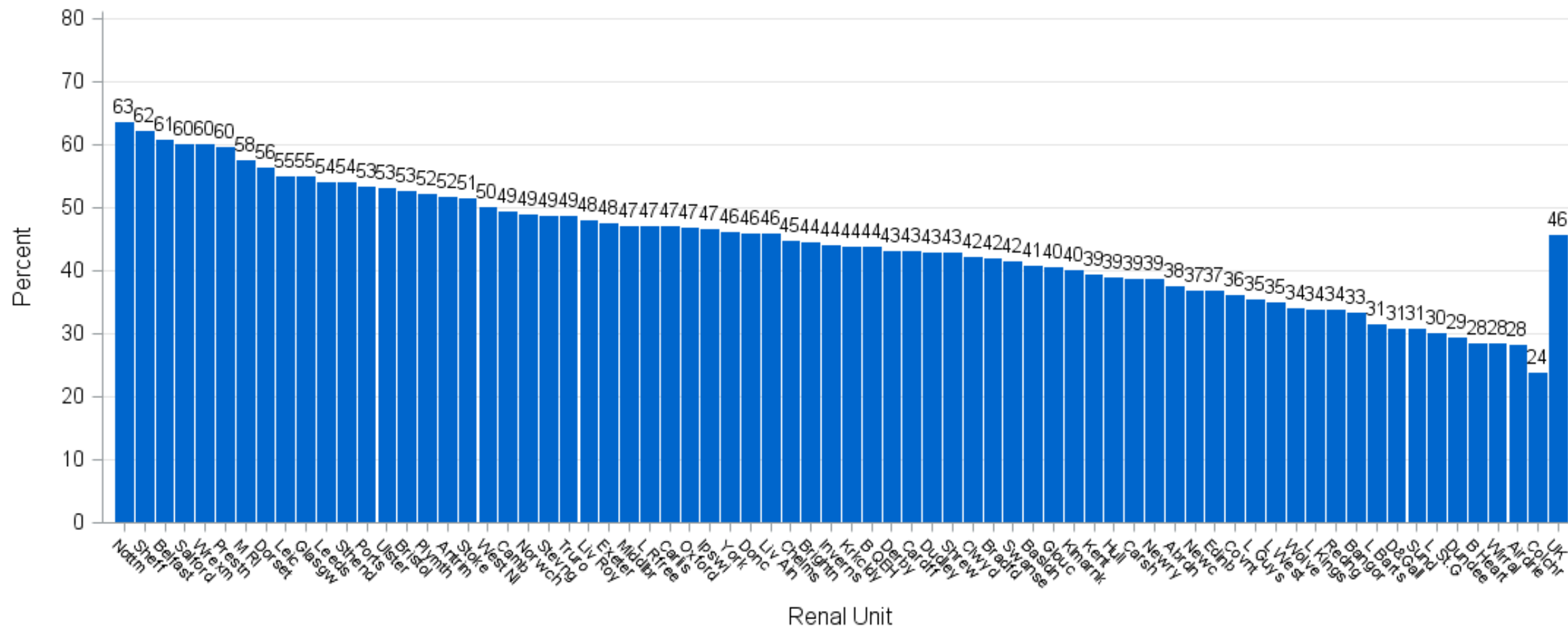
Kidney only transplants (pmp)



April 2015 – March 2018

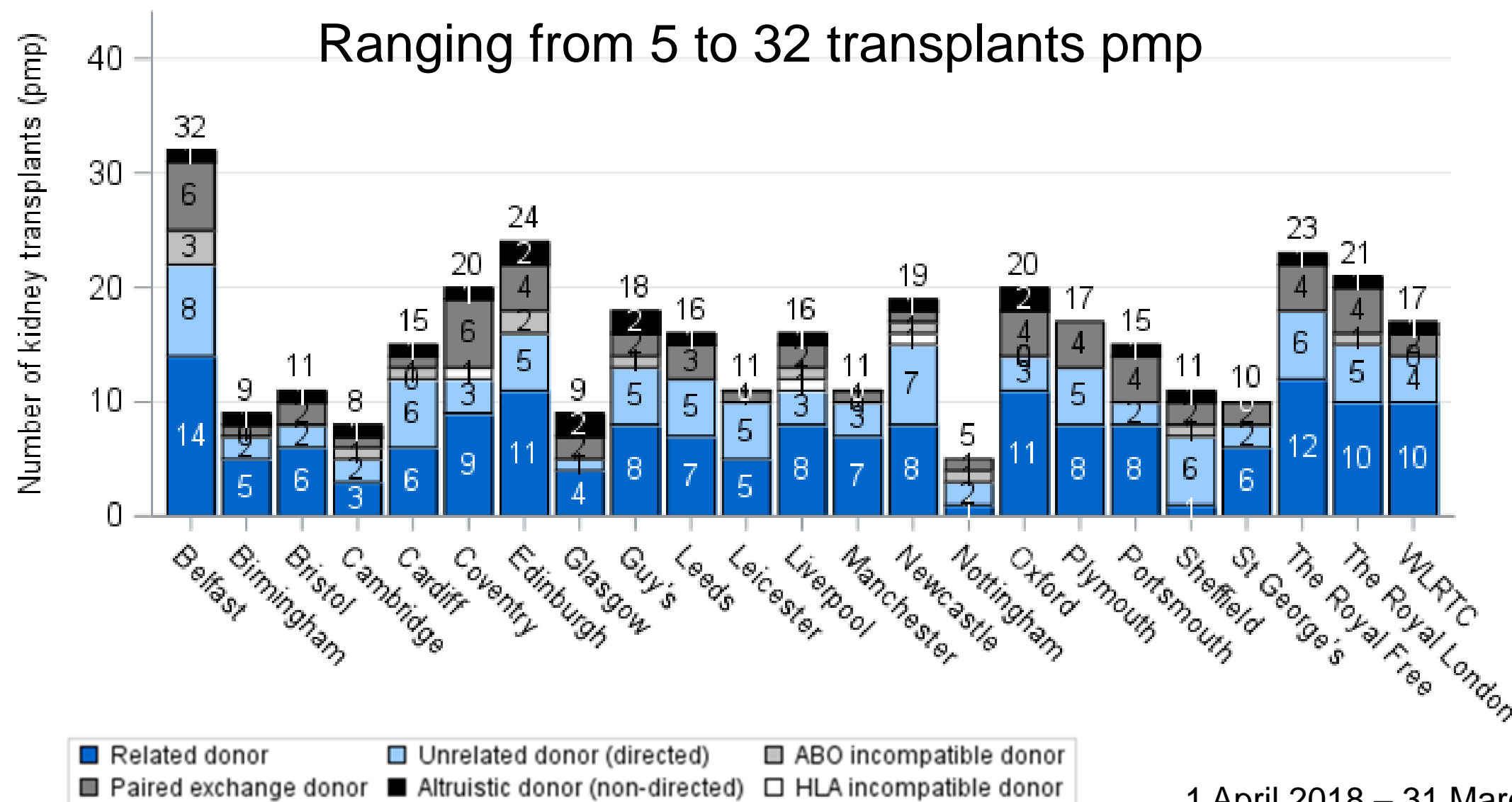
Pre-emptive listing rates by Renal Unit

Ranging from 24% to 63% of listed patients



Patients registered April 2013 – March 2016

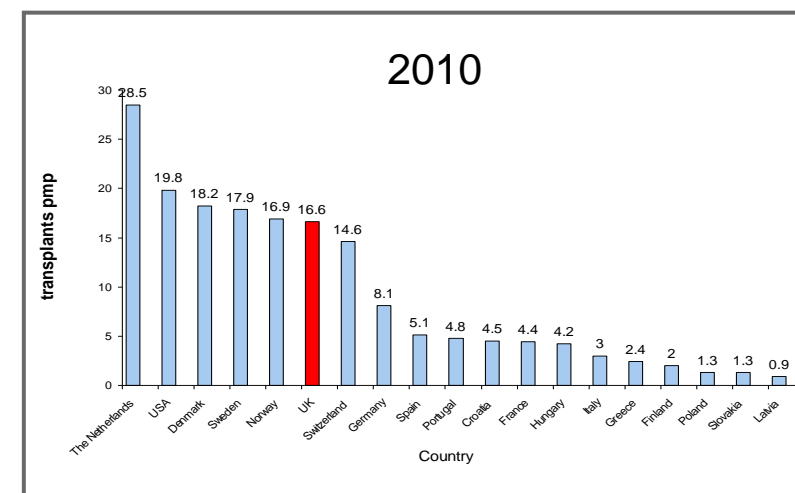
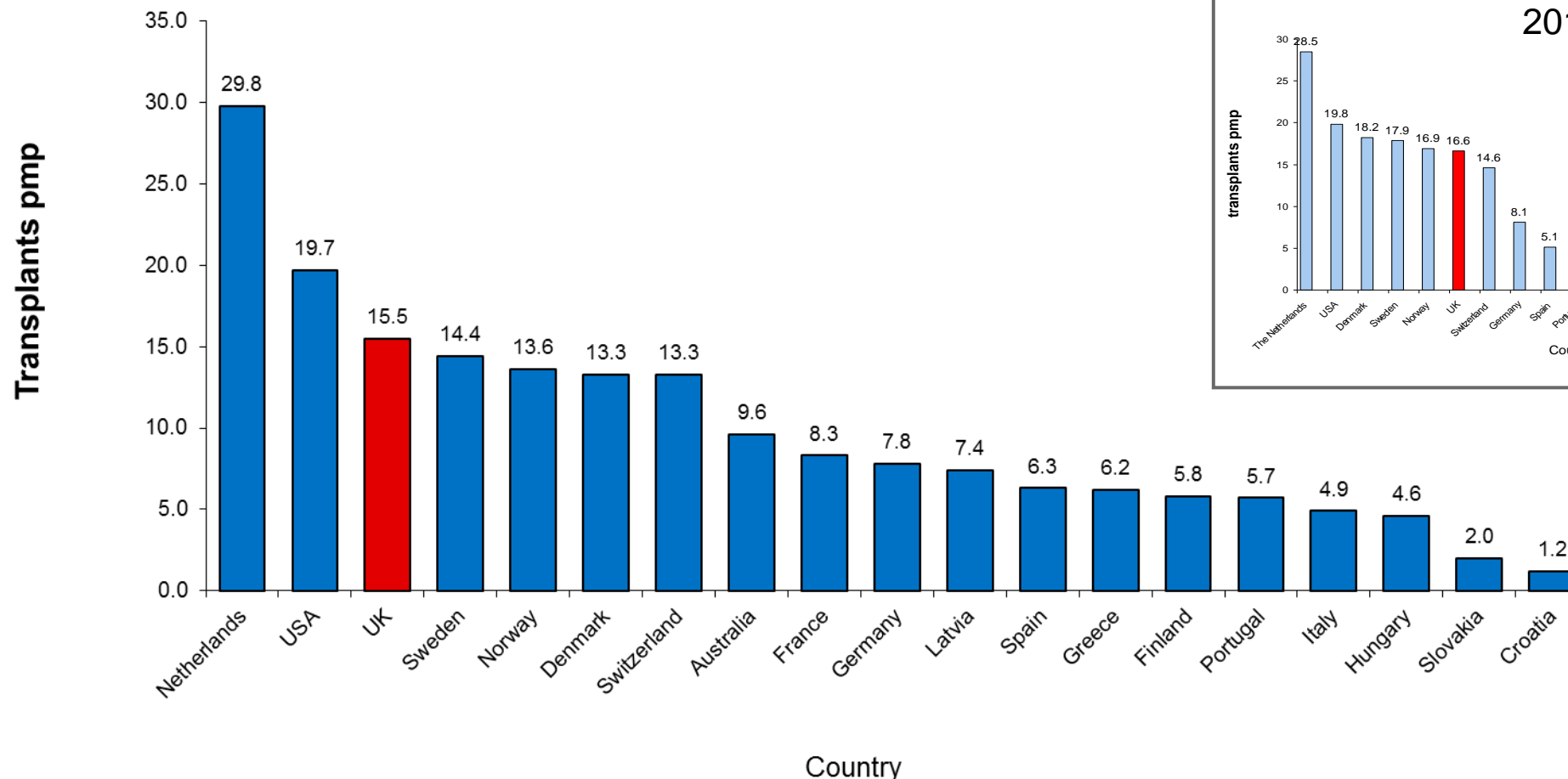
LDKT by centre per million population



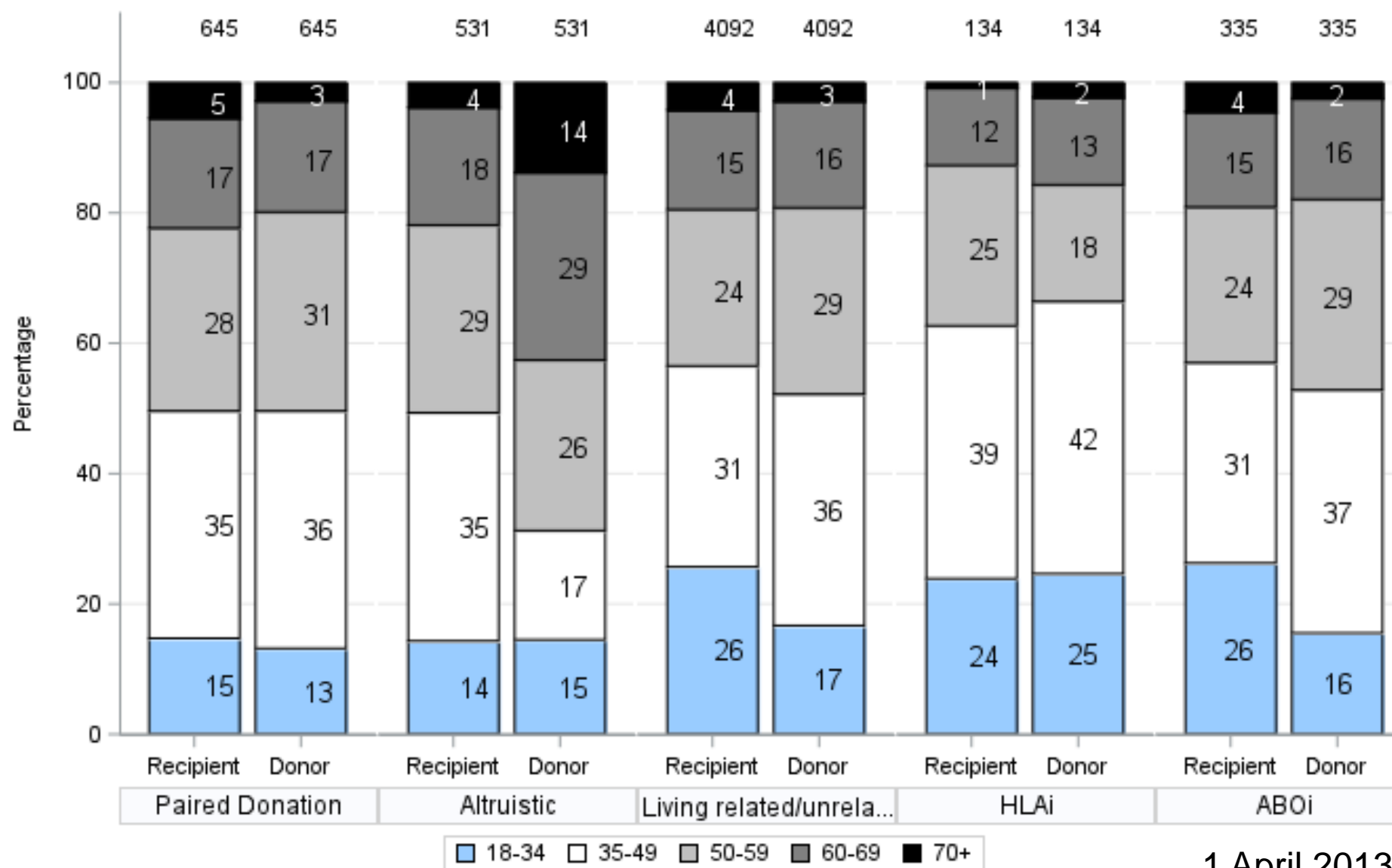
1 April 2018 – 31 March 2019

International Comparison

Living donor kidney transplant rates for Europe, Australia and the USA, 2018

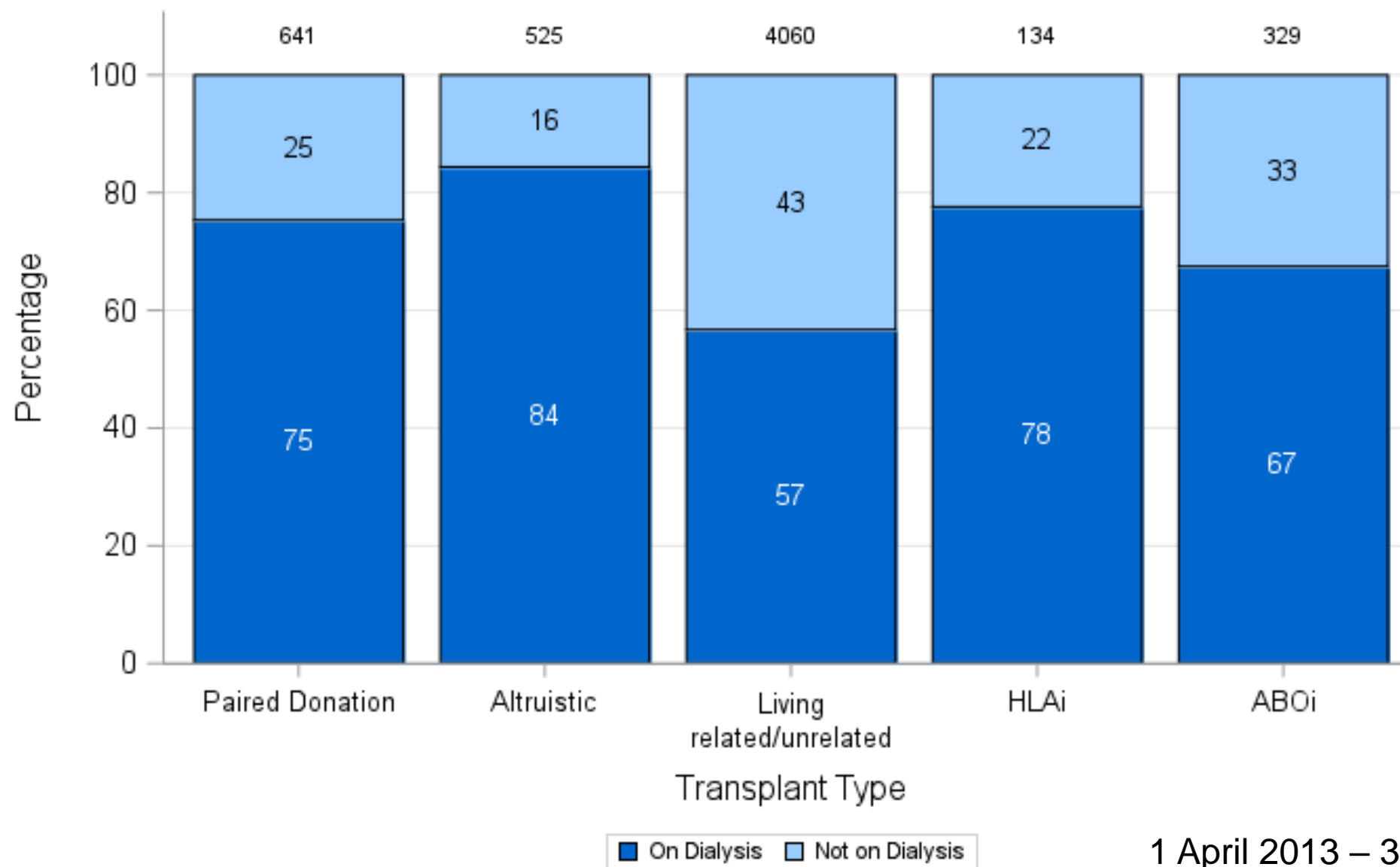


Demographics LDKT – Age



1 April 2013 – 31 March 2019

Demographics LDKT – Dialysis status



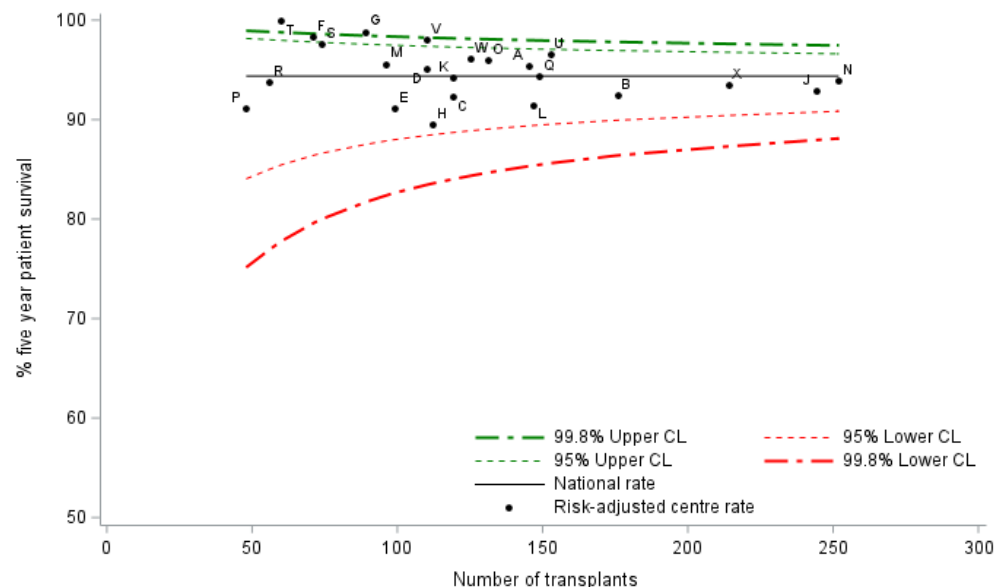
1 April 2013 – 31 March 2019

Living donor kidney transplant - Five year survival

Excellent post transplant outcomes – no outlying centres with poor survival

Patient survival

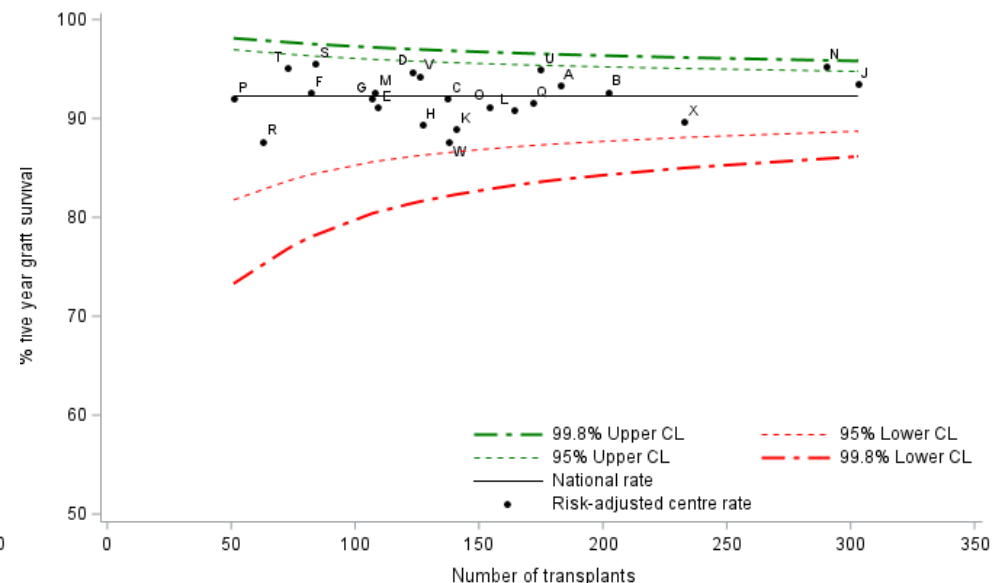
Figure 6.8 Risk-adjusted five year patient survival rates for first live donor kidney transplants in adult patients, between 1 April 2010 and 31 March 2014



UK rate 94%

Graft survival

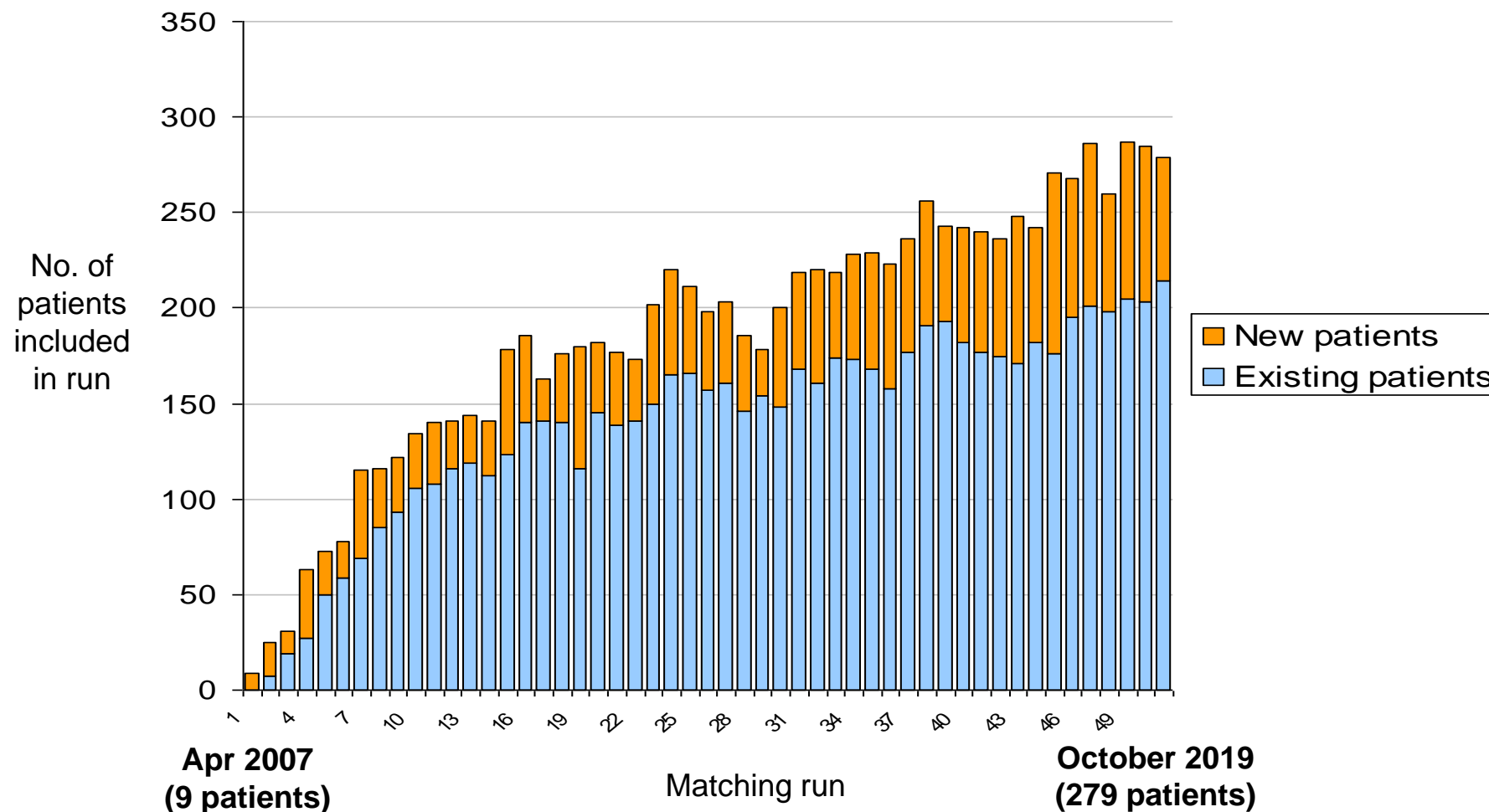
Figure 6.7 Risk-adjusted five year graft (death censored) survival rates for first live donor kidney transplants in adult patients, between 1 April 2010 and 31 March 2014



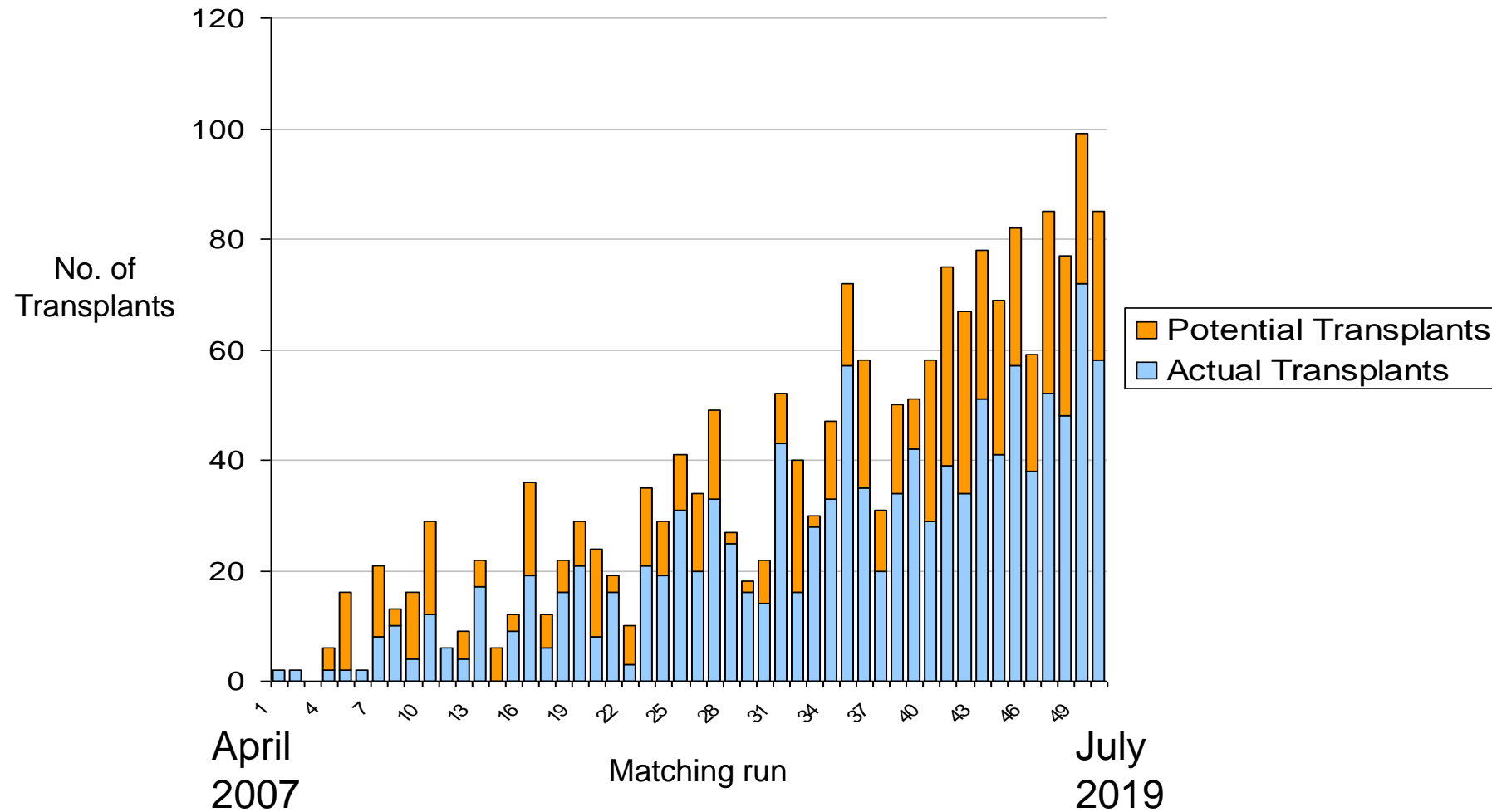
UK rate 92%

UK Living Kidney Sharing Scheme

Number of Patients in Quarterly Matching Runs



Potential and Actual Transplants



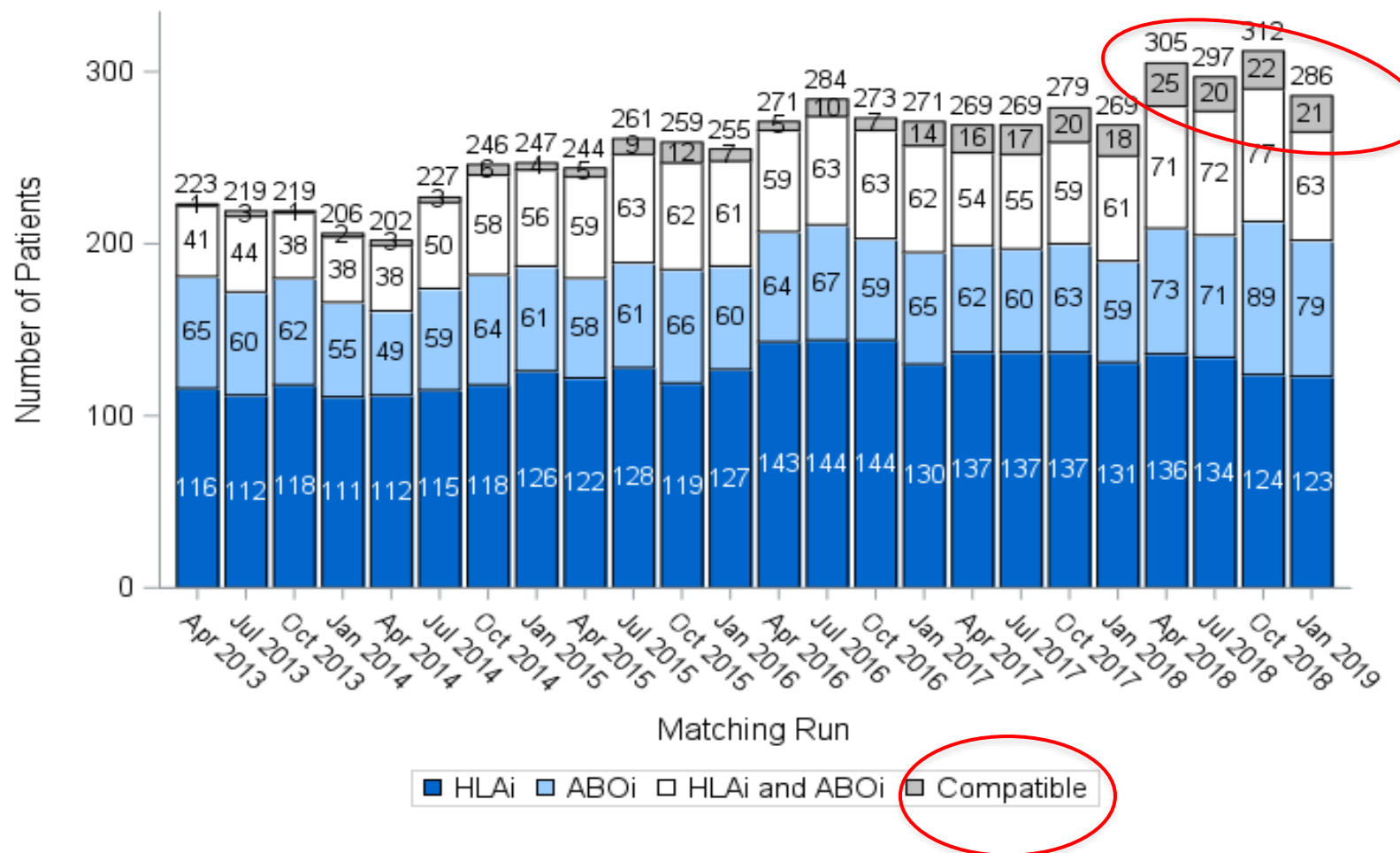
NDADs: Latest Statistics*

	Total NDADs	NDADs direct to transplant list	NDADs donating to UKLKSS	Total transplants from 'Chains'	Total transplants from NDADs
2012	60	57	3	6	63
2013	107	85	22	44	129
2014	110	87	23	46	133
2015	94	73	21	54	127
2016	85	59	26	63	122
2017	87	61	26	64	125
2018	64	33	31	79	112
2019	102	50	52	133	183

*31st December 2019

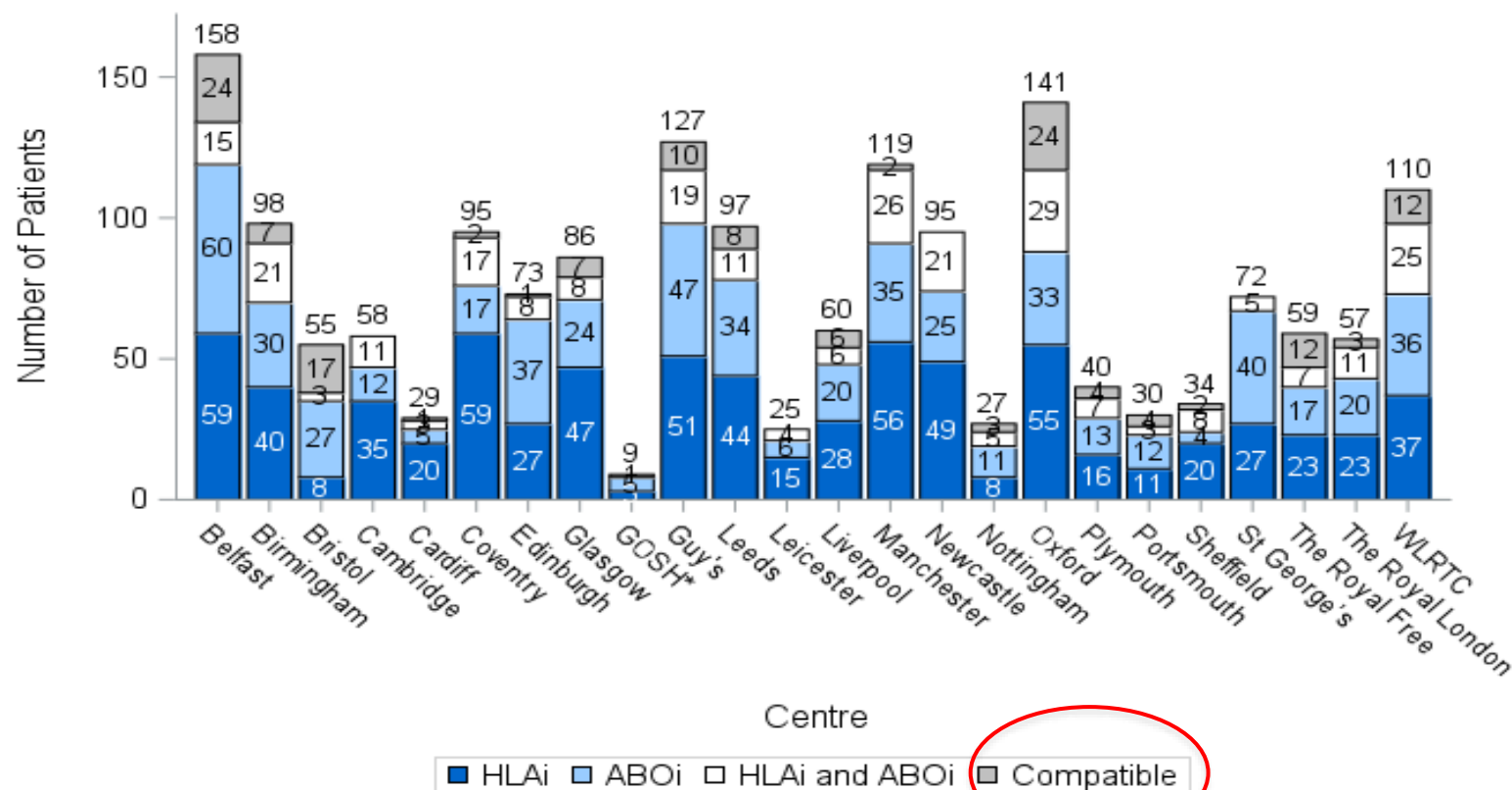
Pair Inclusion by Matching Run

Figure 4.2 Pairs included in matching runs, 1 April 2013 - 31 March 2019



Pair Inclusion by Centre

Figure 4.3 Number of pairs included in matching runs, 1 April 2013 - 31 March 2019



*Guy's team assess donors and perform transplants for GOSH recipients

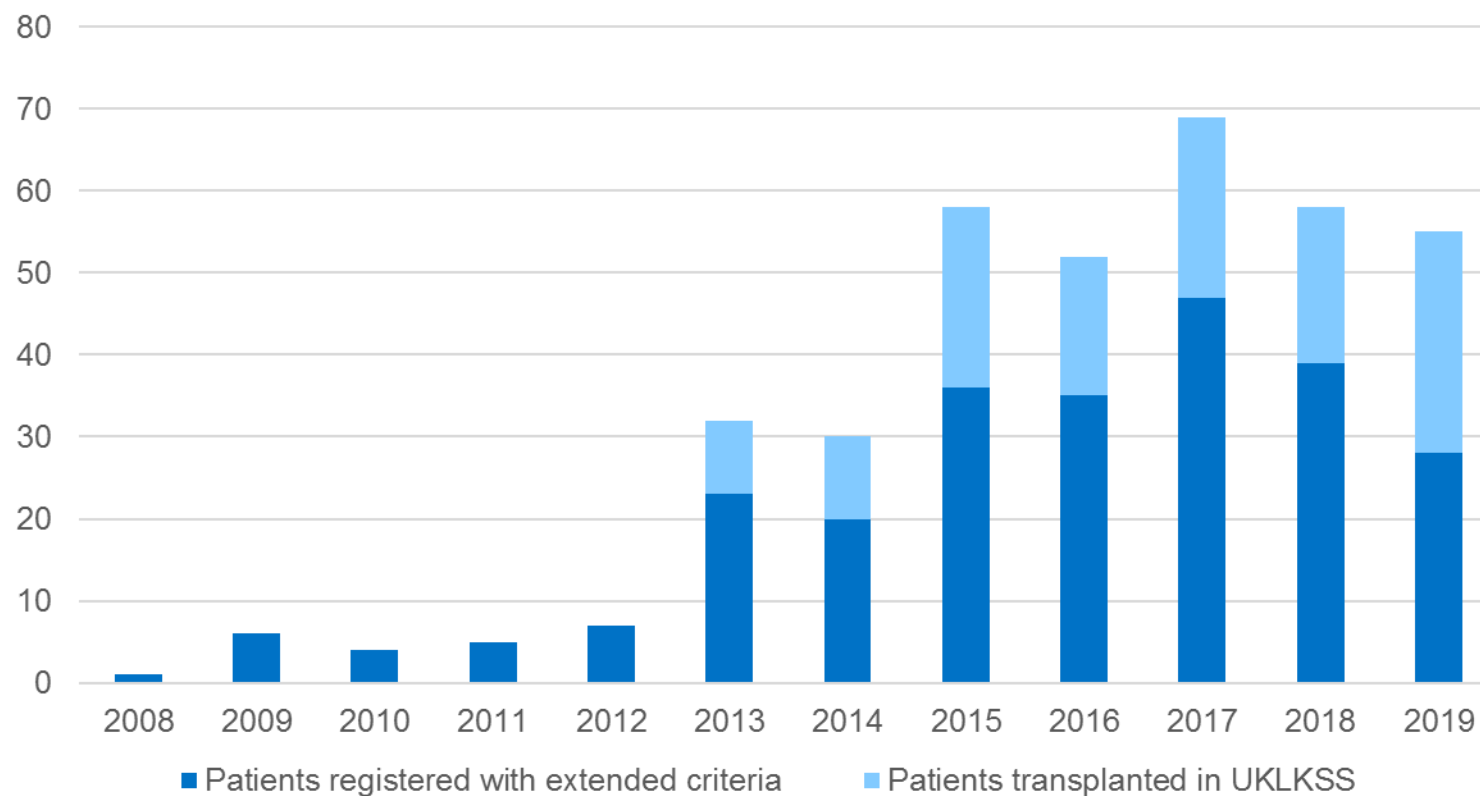
Compatible Pairs*

Calendar year of transplant	Number of compatible pair transplants	Number of additional TxS. due to inclusion of compatible pairs	Total number of TxS. due to inclusion of compatible pairs
2012	3	2	5
2013	2	2	4
2014	4	6	10
2015	10	19	29
2016	10	17	27
2017	17	24	41
2018	25	27	52
2019	36	46	82
Total	107	143	250

*31st December 2019

Extended Criteria in UKLKSS

Number of Patients Registered with Extended Antigen Criteria and Transplanted in the UKLKSS



Total:

251 patients registered

126 patients transplanted

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.

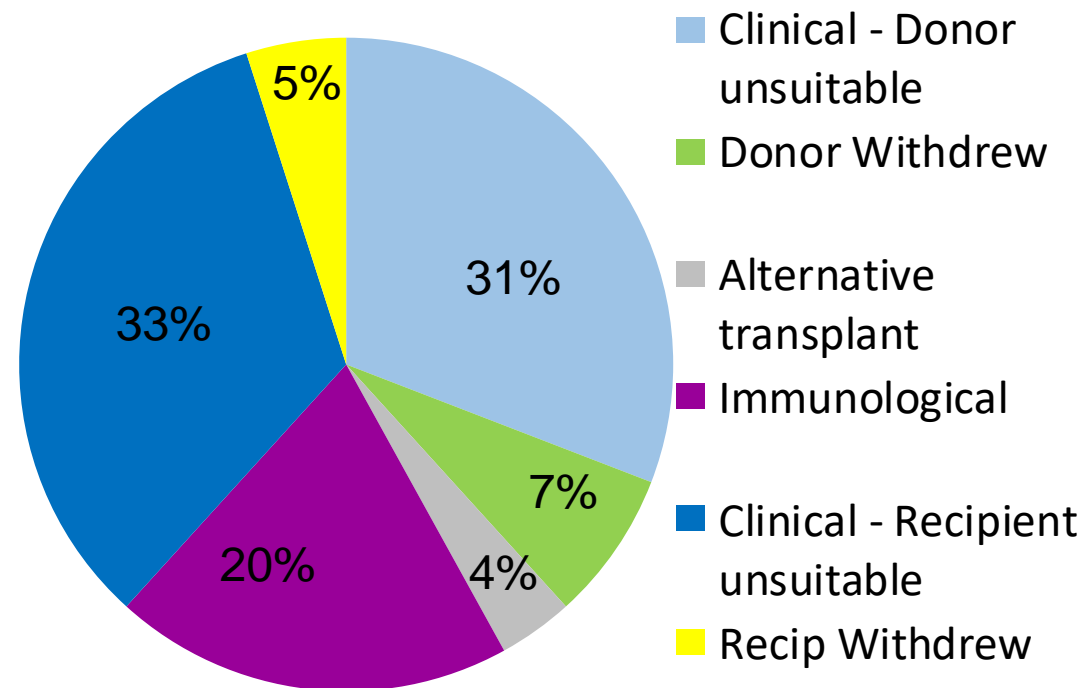
* Feedback ID (from the covering email)

Next

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October 2017- April 2019 (81 reasons)

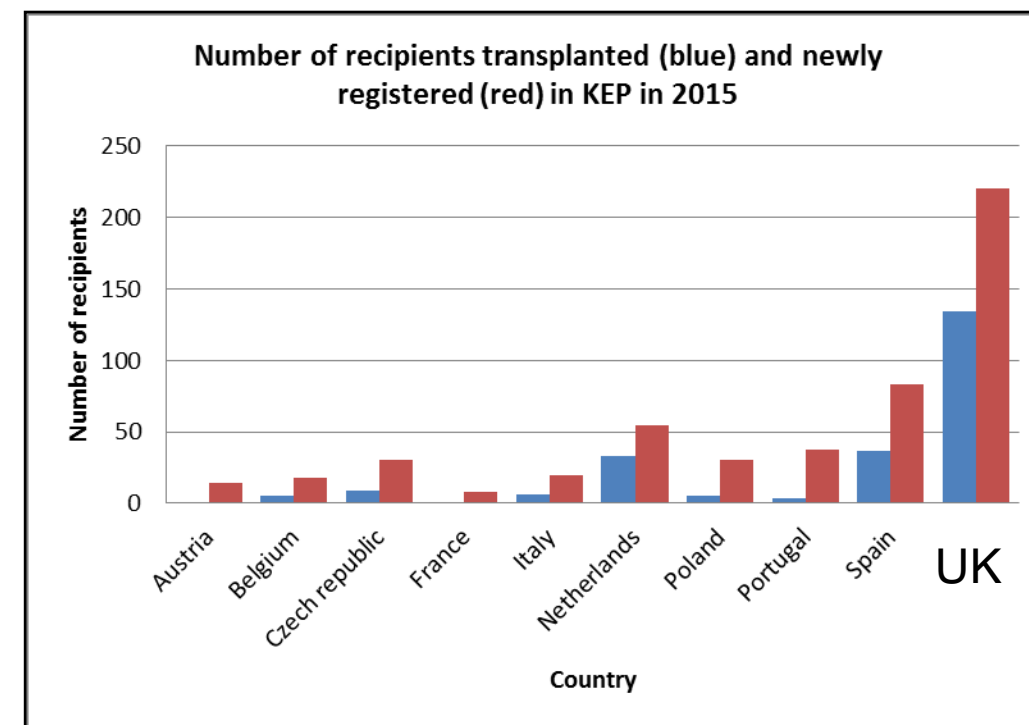
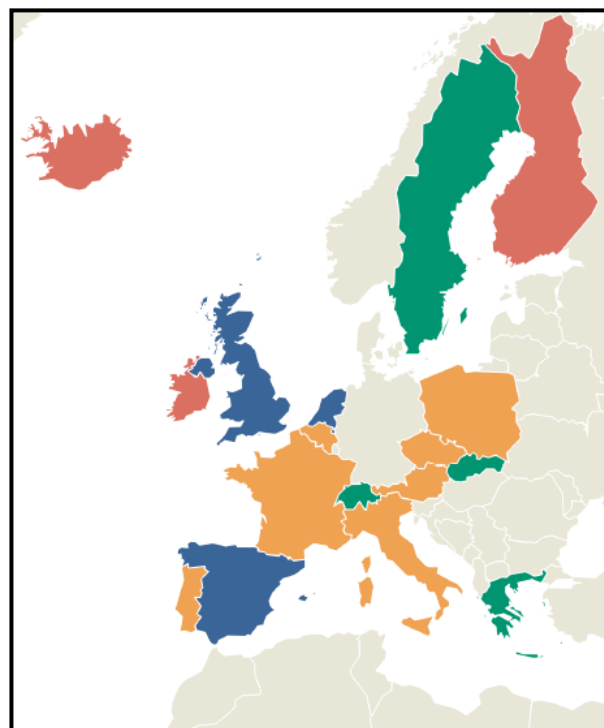


UK scheme - largest in Europe



European Network for Collaboration on Kidney Exchange Programmes (ENCKEP)

- Large, advanced programmes
- New, smaller programmes
- Programmes in development
- Countries with no programme

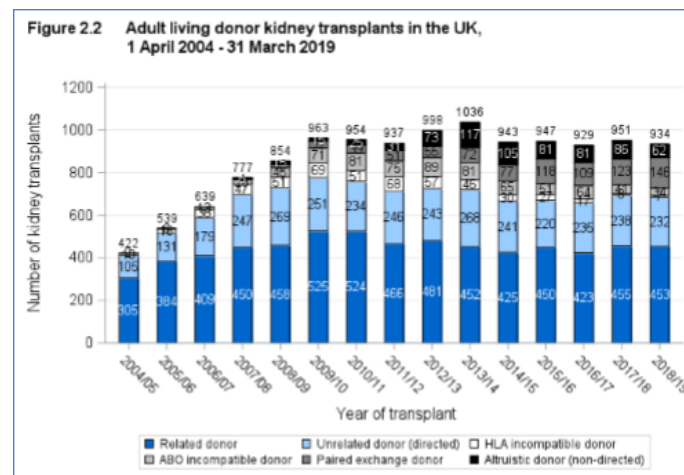
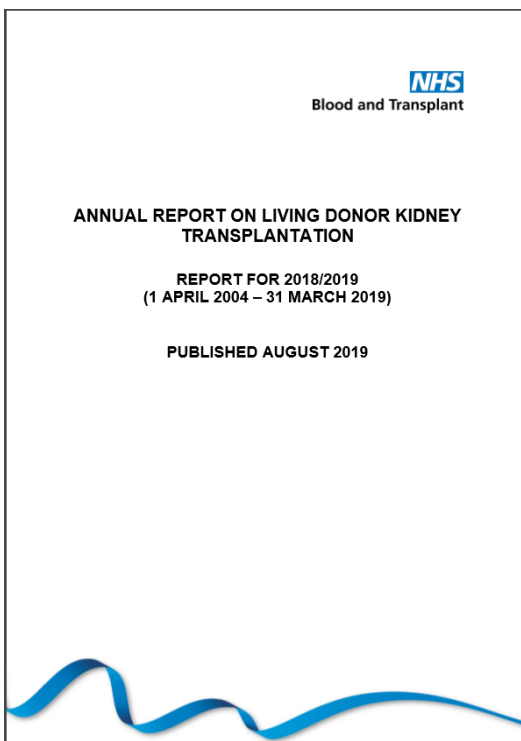


Transplantation

Building kidney exchange programmes in Europe - An overview of exchange practice and activities

Biró, P. et al. (2018) Building kidney exchange programmes in Europe - An overview of exchange practice and activities. *Transplantation*, (doi:[10.1097/TP.0000000000002432](https://doi.org/10.1097/TP.0000000000002432)) (PMID:[30247314](https://pubmed.ncbi.nlm.nih.gov/30247314/)) (Early Online Publication)

What information is available to support decision making?



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
<input type="button" value="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

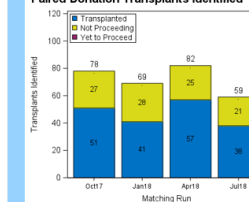
Note: Chances of transplant through the NLDKSS could be increased by considering and antibody incompatible transplant within the scheme

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

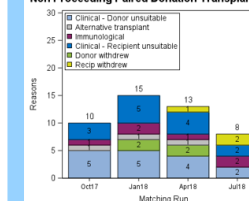
http://www.odt.nhs.uk/doc/chance_of_transplant.xls

UK Living Kidney Sharing Schemes Performance Figures

Paired Donation Transplants Identified



Non Proceeding Paired Donation Transplants

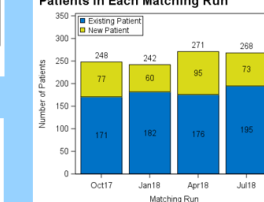


Note: each reason may account for multiple transplants

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

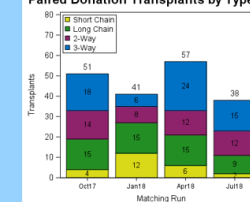
Patients in Each Matching Run



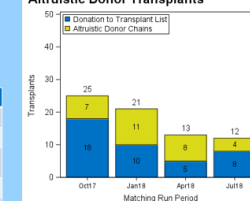
UKLSS Records

	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 1017 living donor kidney transplants 2018/19, a 2% decrease from the previous financial year
- There is variation in the number of living donor kidney transplants and utilisation of the UKLKSS across the UK
- There has been an increase in the number of transplants through the UKLKSS and in particular the number resulting from non-directed altruistic donors

Acknowledgements

Transplant unit, H&I laboratory and other hospital staff and Specialist Nurses for Organ Donation for provision of data to the UK Transplant Registry

Chloe Brown and Lisa Burnapp



www.odt.nhs.uk