

A thick, blue, wavy line that curves across the top of the slide, starting from the left edge and ending at the right edge.

The latest trends in organ donation and kidney transplantation in the UK

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Outline

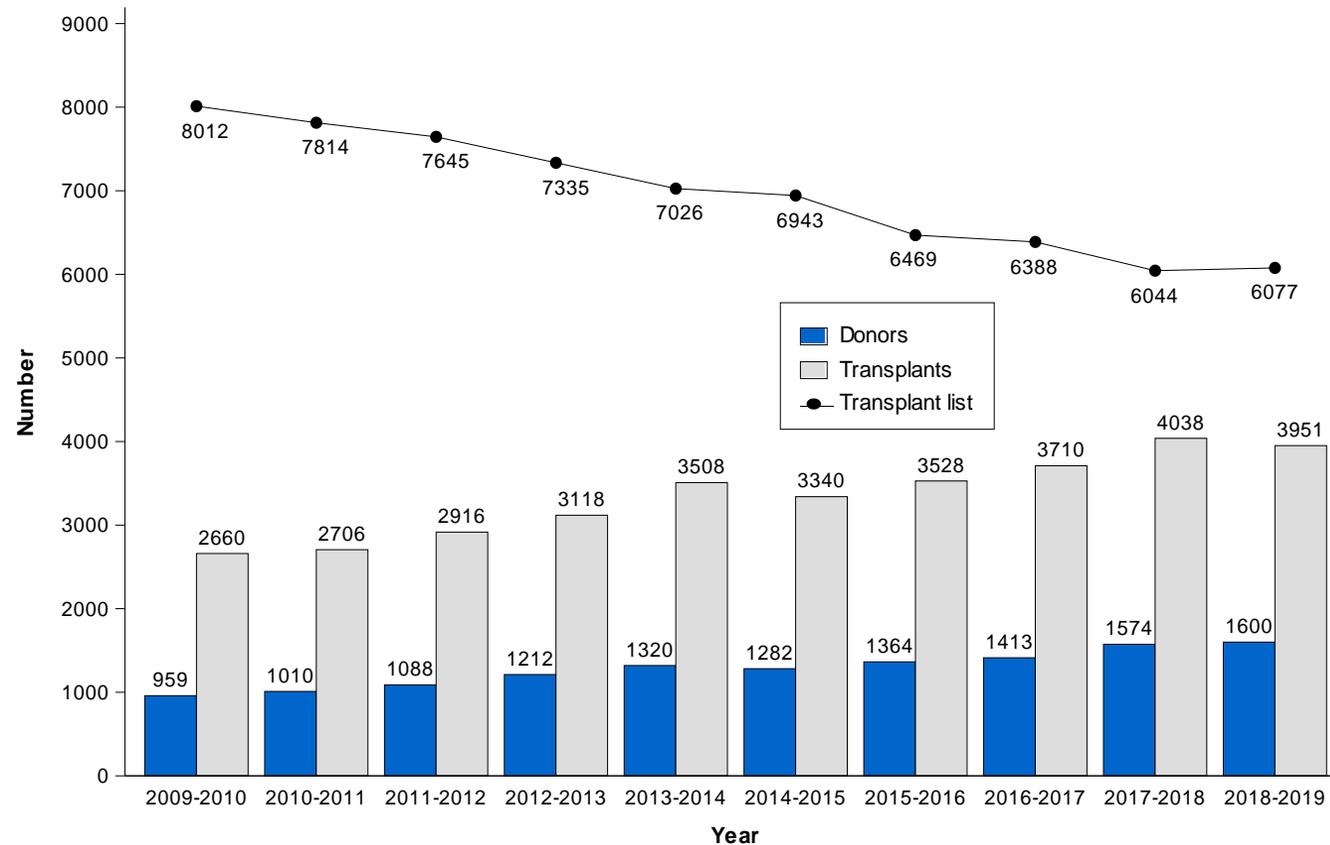
- Trends in deceased organ donors and transplants
- Overview of kidney transplantation in the UK
 - Deceased donor kidney transplants
 - Living donor kidney transplants
 - Post transplant outcomes

Trends in deceased organ donors and transplants

Deceased donors and transplants

Highest number of deceased donors in the UK last year - 1600 - resulting in 3951 transplants

Figure 2.1 Number of deceased donors and transplants in the UK, 1 April 2009 - 31 March 2019, and patients on the active transplant list at 31 March



Over last 10 years

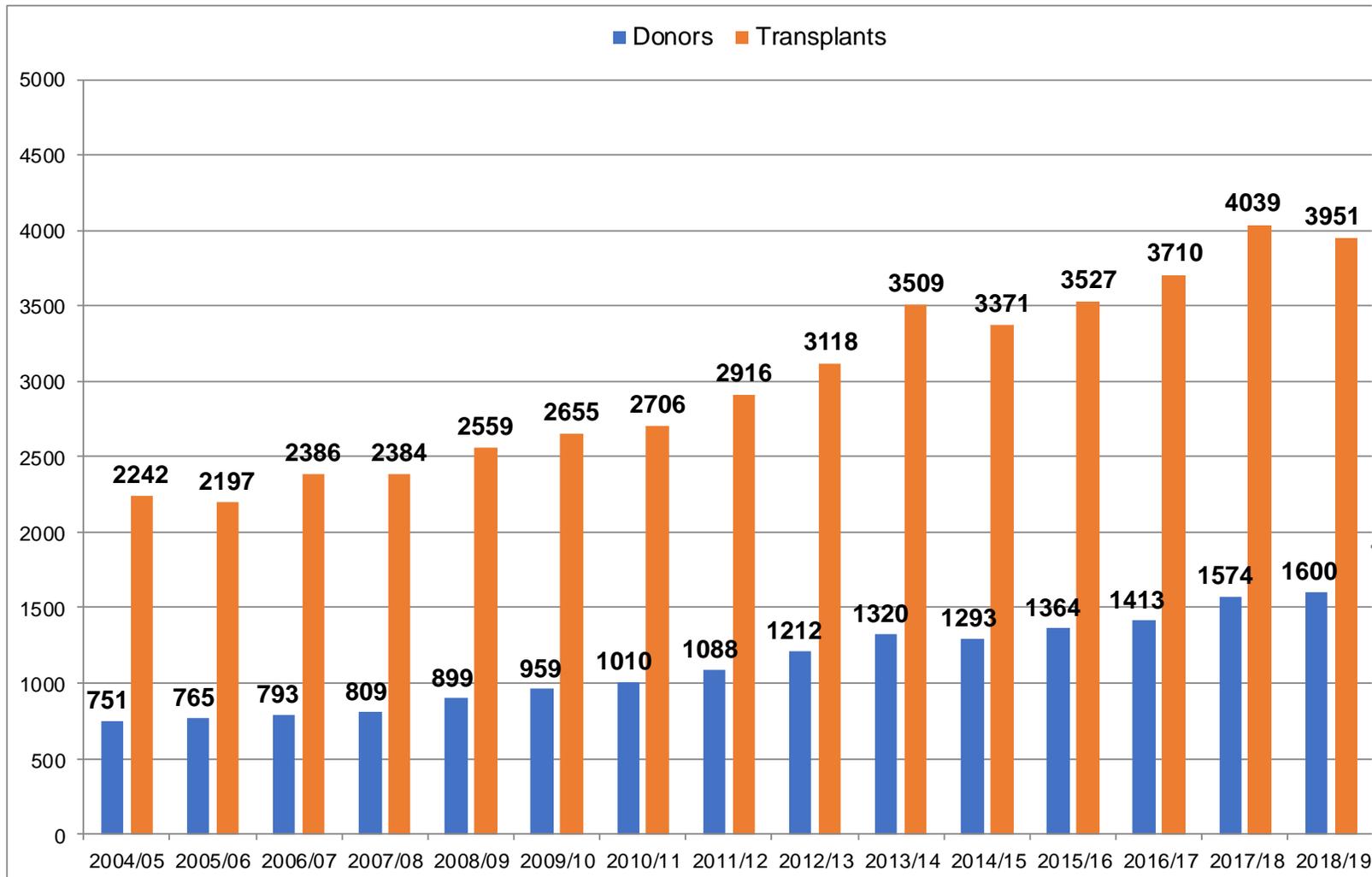
24% decrease in waiting lists

49% increase in transplants (all organs)

67% increase in deceased organ donors

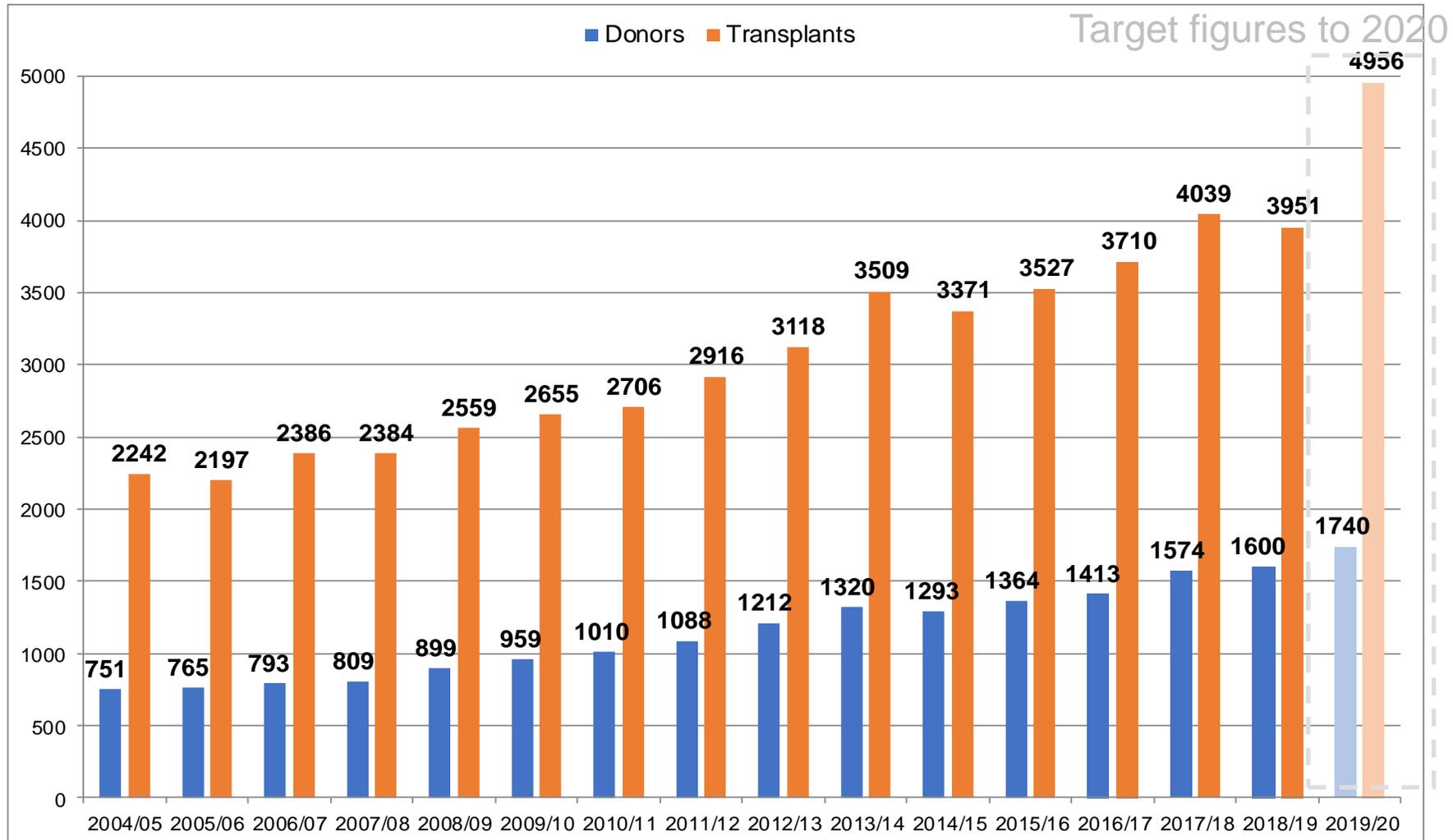
UK Strategy – *Taking Organ Transplantation to 2020*

Targets for deceased donors and transplants



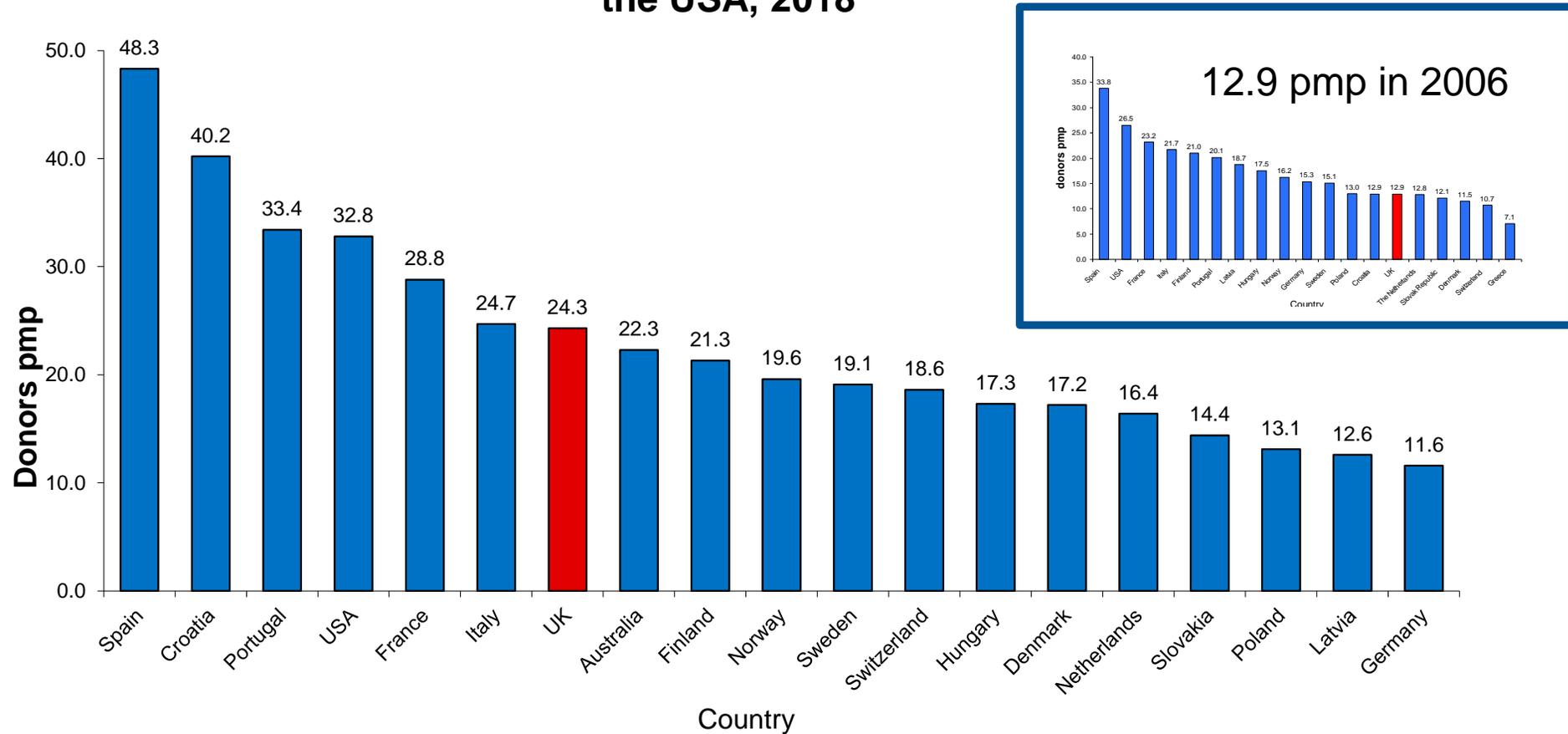
UK Strategy – *Taking Organ Transplantation to 2020*

Targets for deceased donors and transplants



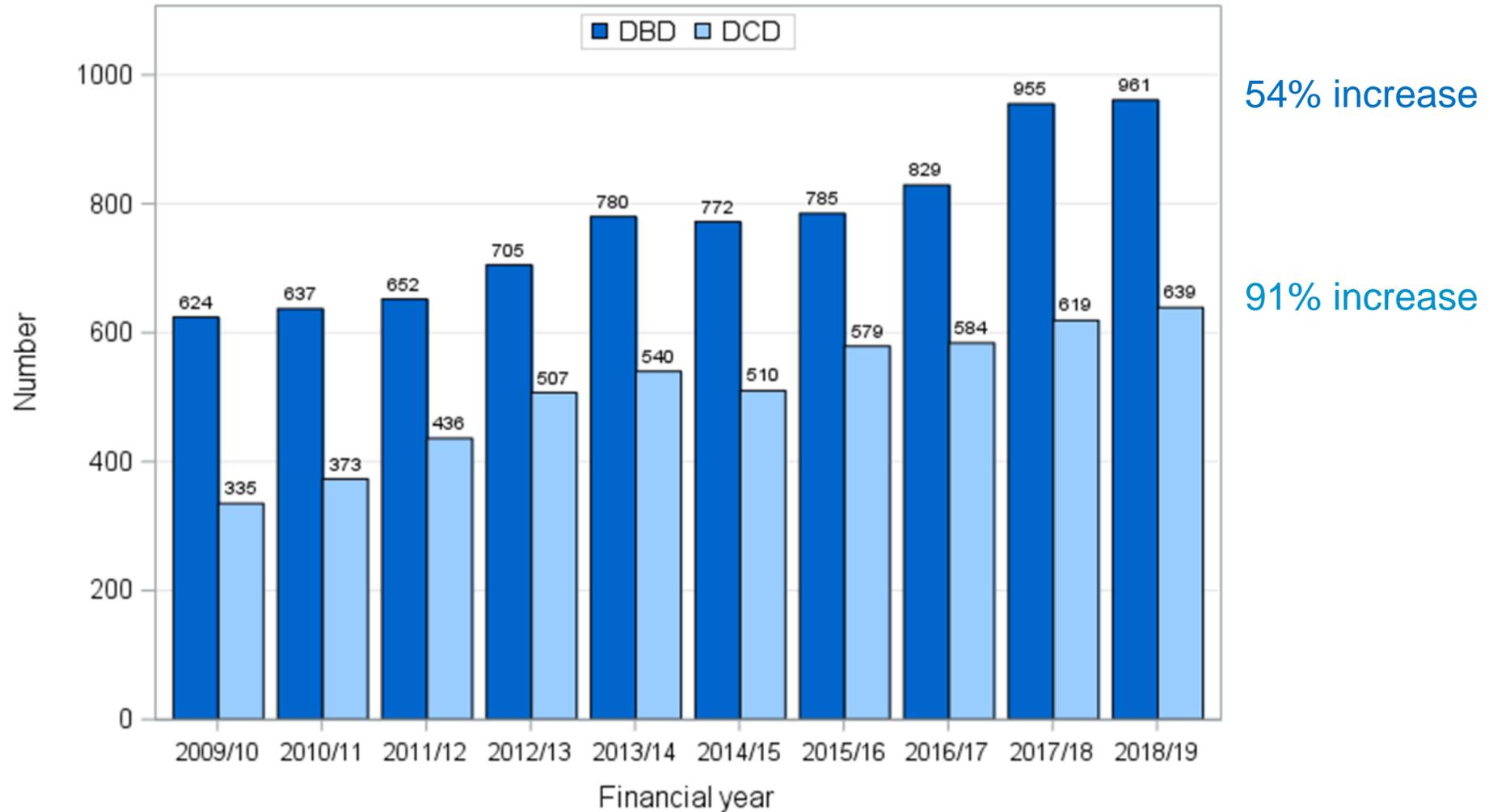
International comparisons – Deceased donor rates in 2018

Actual* deceased organ donor rates for Europe, Australia and the USA, 2018



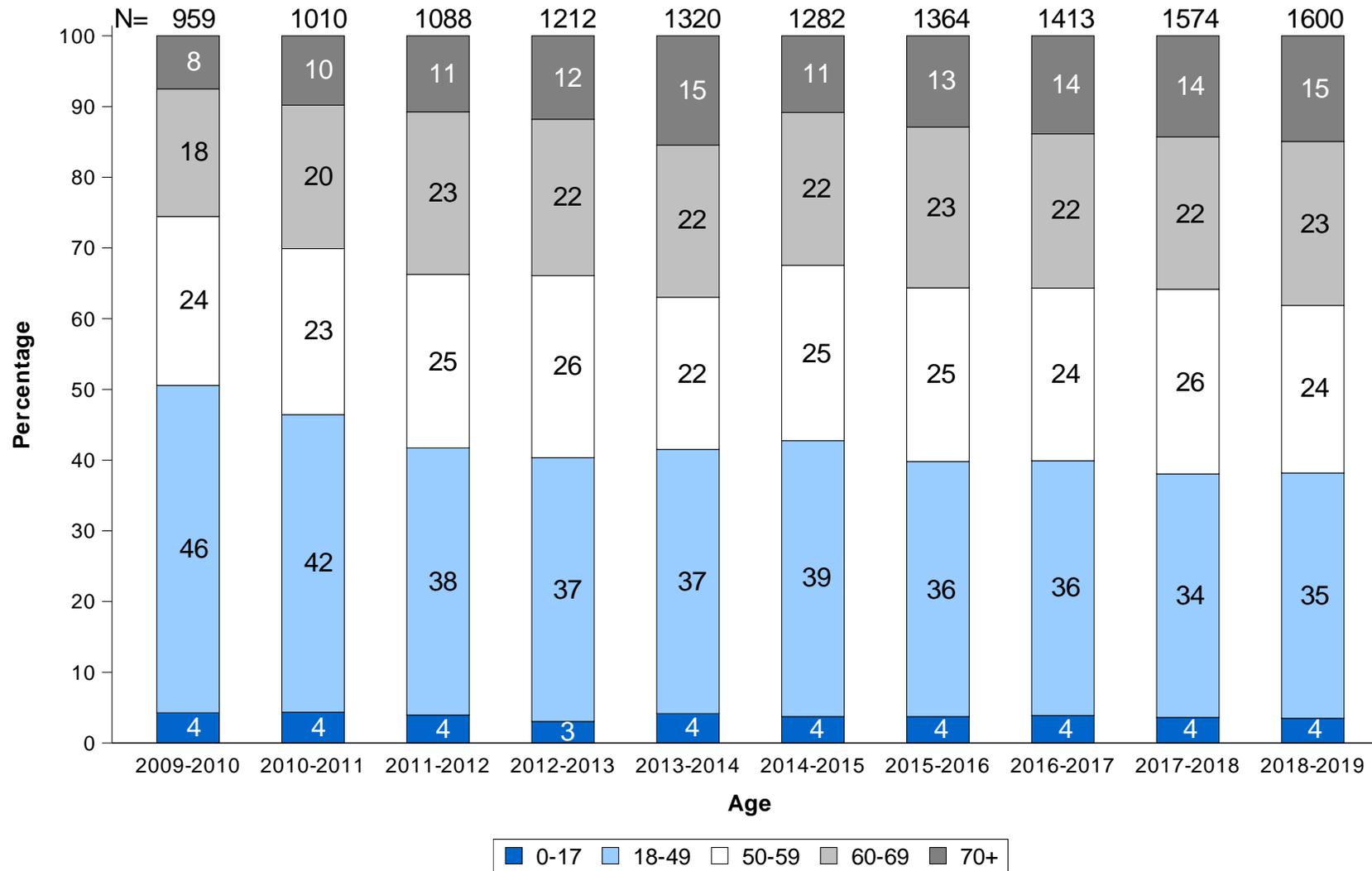
*Actual deceased organ donor at least one organ has been recovered for the purpose of transplantation, in contrast to a utilised donor, who is an actual donor from whom at least one organ has been transplanted. The number of utilised donors is therefore lower or equal than the number of actual donors.

DBD vs DCD donors



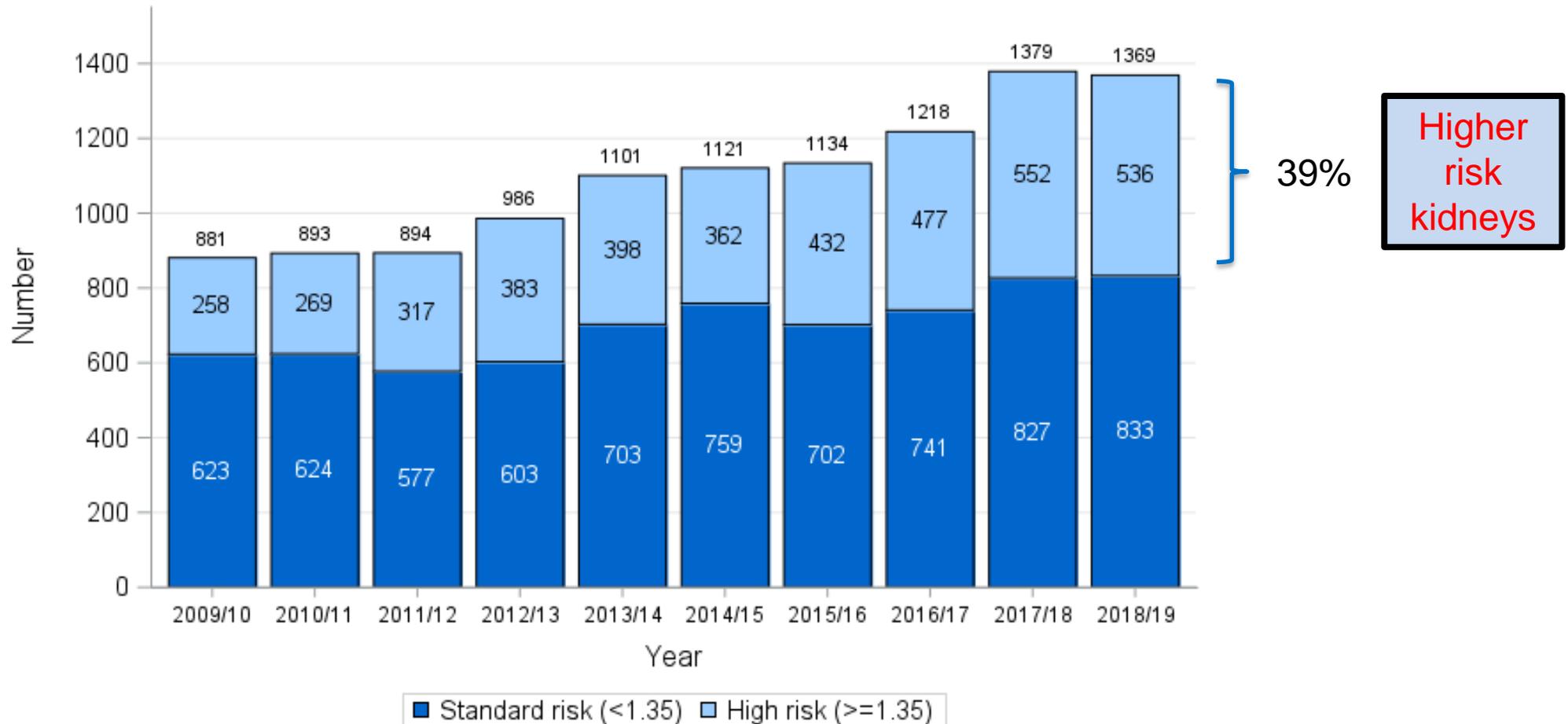
Age of deceased donors

Figure 3.1 Age of deceased donors in the UK, 1 April 2009 - 31 March 2019



UK Kidney Donor risk index of transplanted DBD kidneys

Figure 5.10 UK Kidney Donor Risk Index of transplanted DBD donor kidneys
1 April 2009 - 31 March 2019



Increase in deceased donors this year?

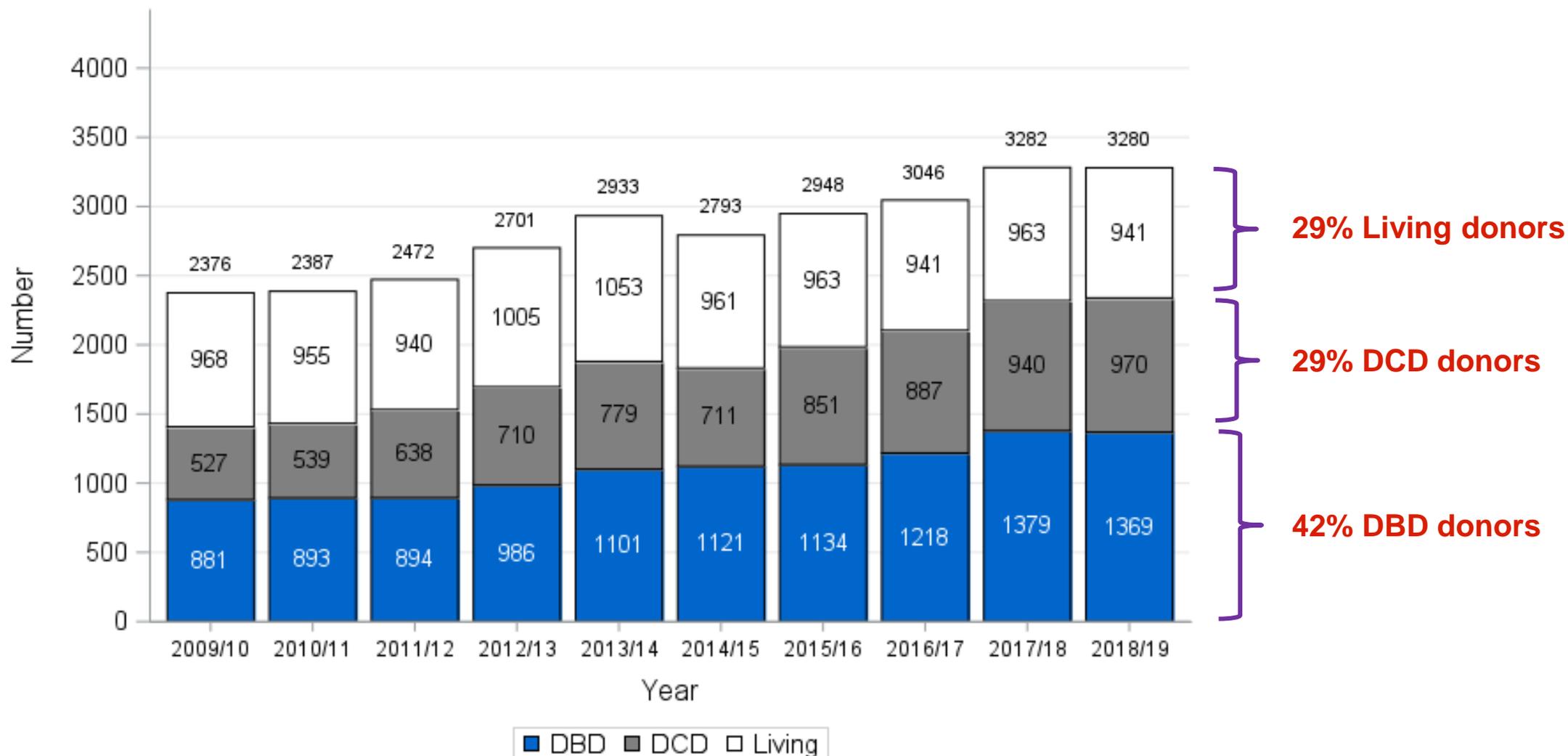
DONOR AND TRANSPLANT ACTIVITY			
	<i>Current year</i> (01.04.19 - 29.12.19)	<i>Previous year</i> (01.04.18 - 29.12.18)	<i>% Change²</i>
ORGAN DONORS			
Donors after brain death (DBD)	723	721	0.3
Donors after circulatory death (DCD)	497	447	11.2
Total deceased donors (DD)	1220	1168	4.5

Taken from the weekly statistics : www.odt.nhs.uk

Kidney transplantation in the UK

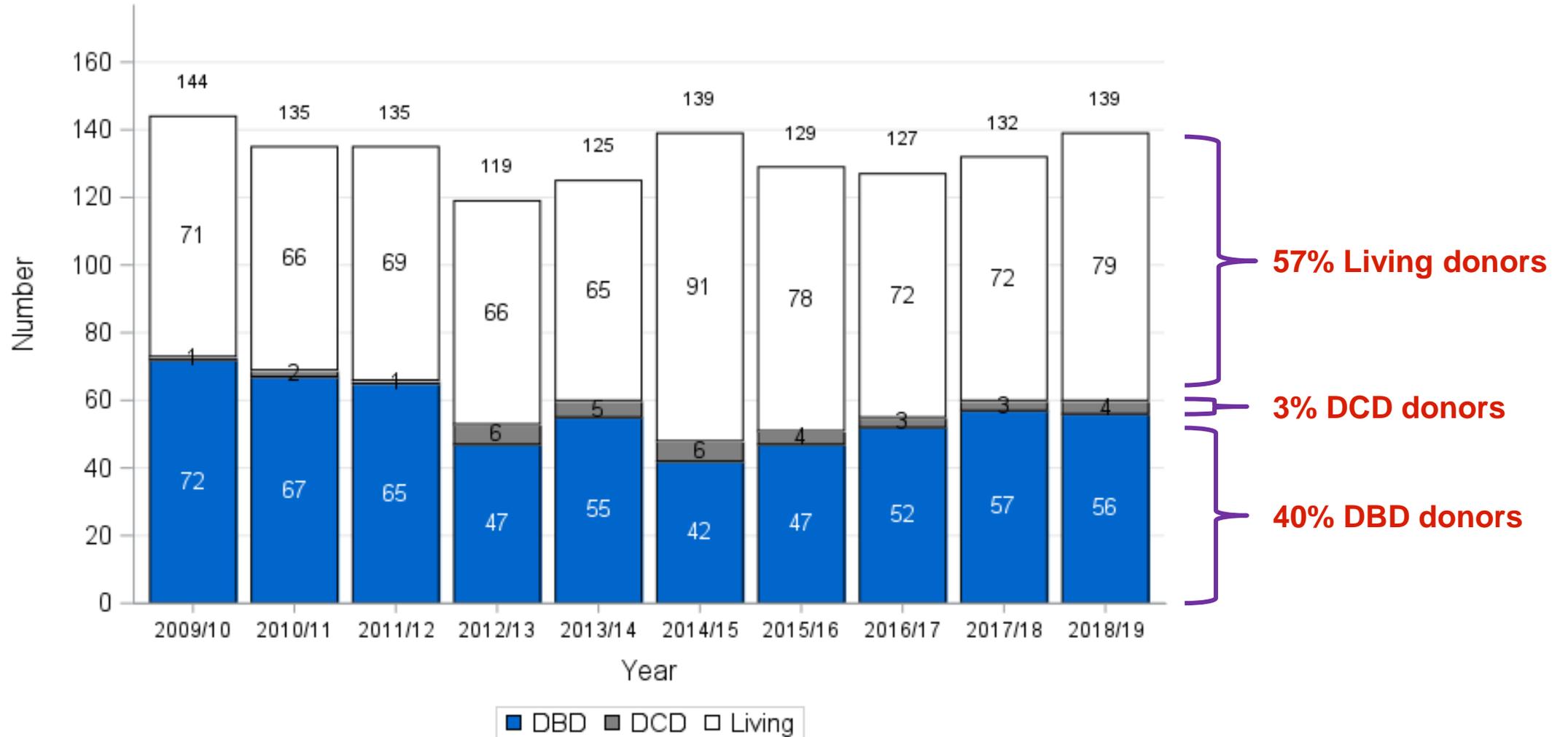
Total adult kidney only transplants

Figure 5.1 Adult kidney only transplants, 1 April 2009 - 31 March 2019



Total paediatric kidney transplants

Figure 10.1 Paediatric kidney only transplants, 1 April 2009 - 31 March 2019

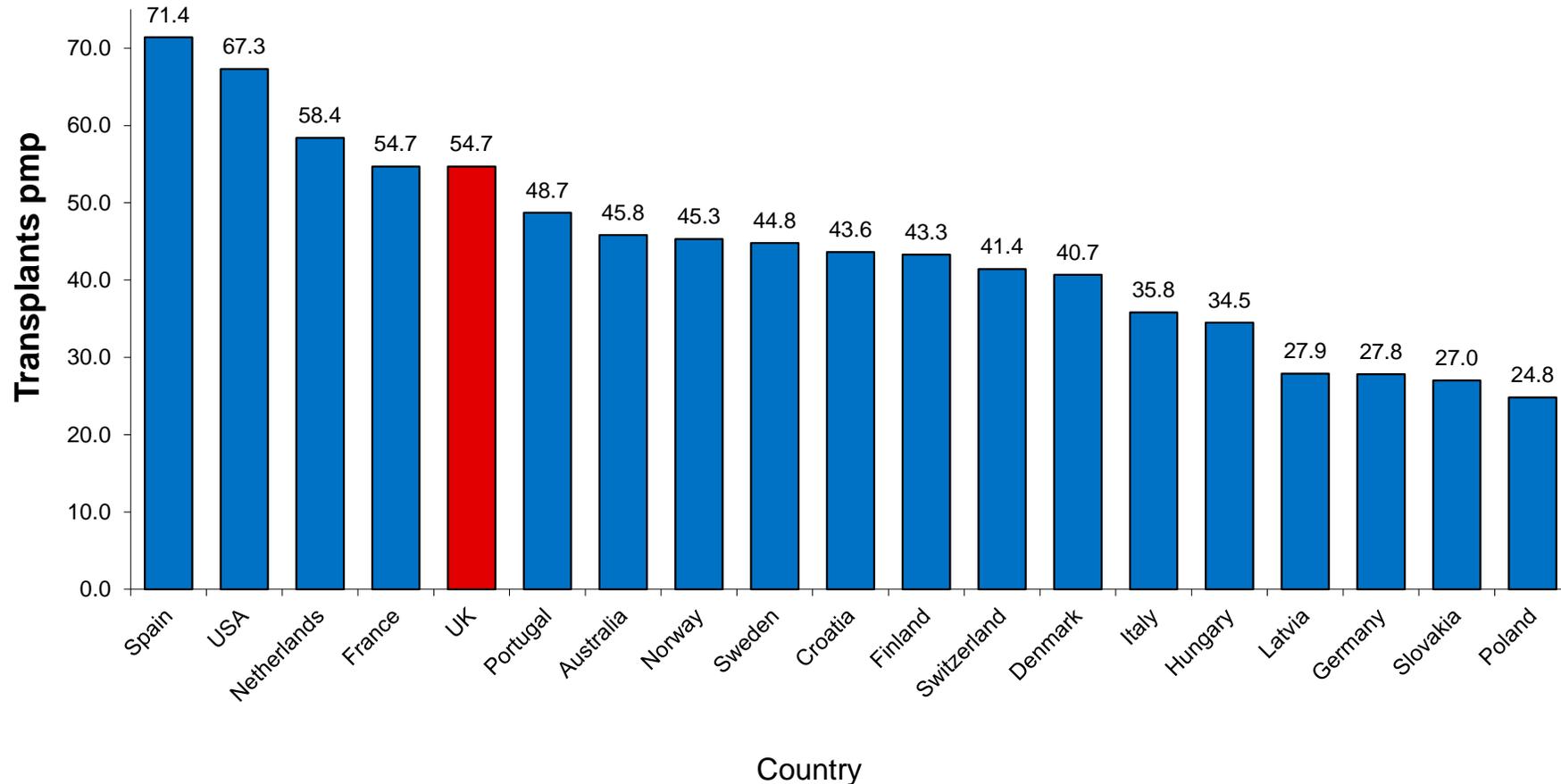


Kidney transplant rates this year?

DONOR AND TRANSPLANT ACTIVITY			
	<i>Current year</i> (01.04.19 - 29.12.19)	<i>Previous year</i> (01.04.18 - 29.12.18)	<i>% Change</i> ²
ORGAN TRANSPLANTS			
Deceased donors (DD)			
Kidney	1756	1717	2.3
Pancreas	11	13	-15.4
Kidney/pancreas ⁷	127	132	-3.8
Pancreas islets	20	14	42.9
Heart ⁶	126	130	-3.1
Lung(s)	123	125	-1.6
Heart/lung	5	2	
Liver/lobe ⁸	691	740	-6.6
Intestinal	15	15	0
Other (multi-organ)	17	8	
Total DD transplants	2891	2896	-0.2
Living donor (LD) - 1 mth in arrears ⁴			
Kidney	687	699	-1.7
Liver	14	13	7.7
Lung	0	0	
Intestinal	0	0	
Total LD transplants	701	712	-1.5

Kidney transplant rates

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

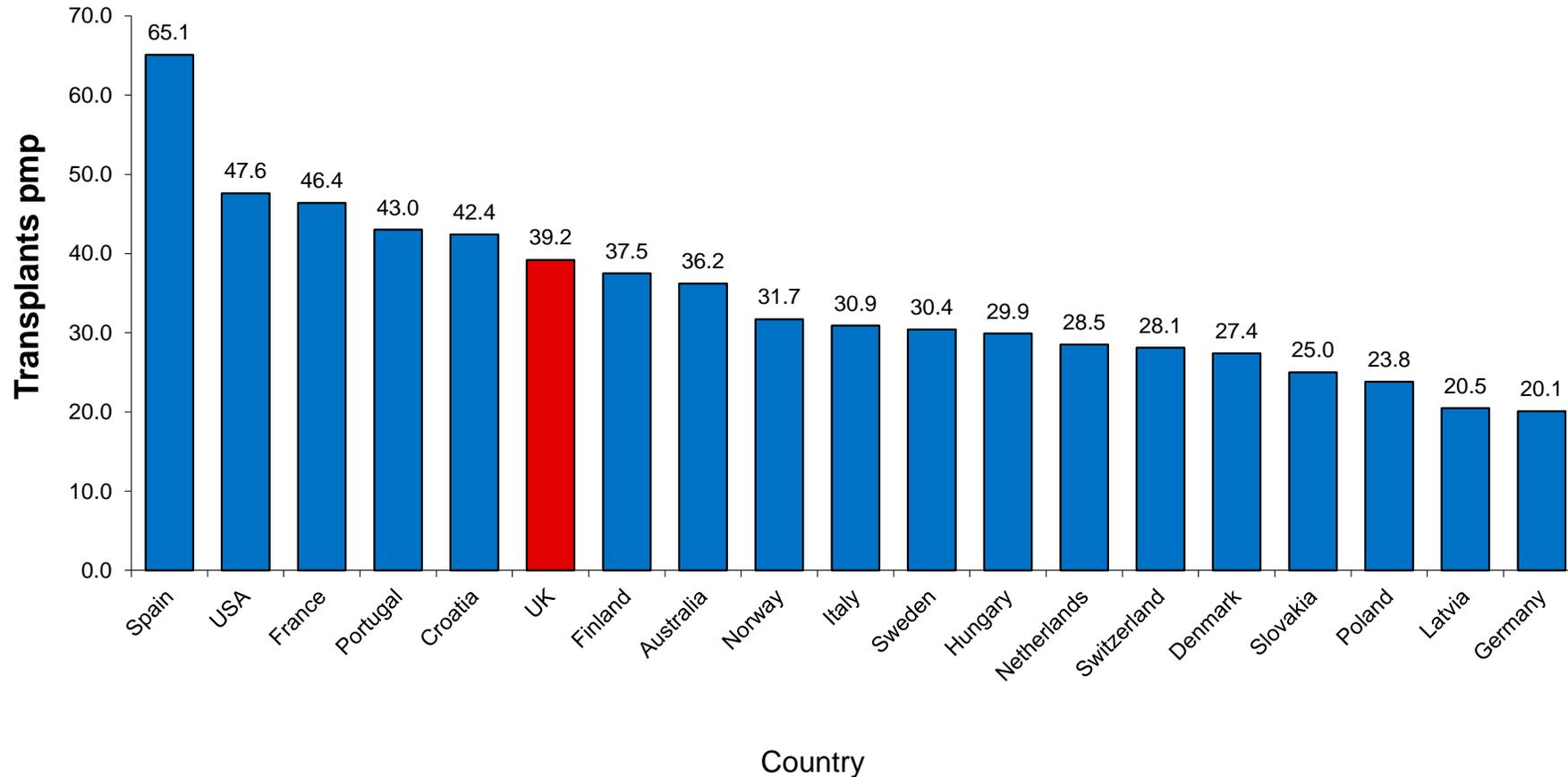


Source: Council of Europe – Transplant Newsletter

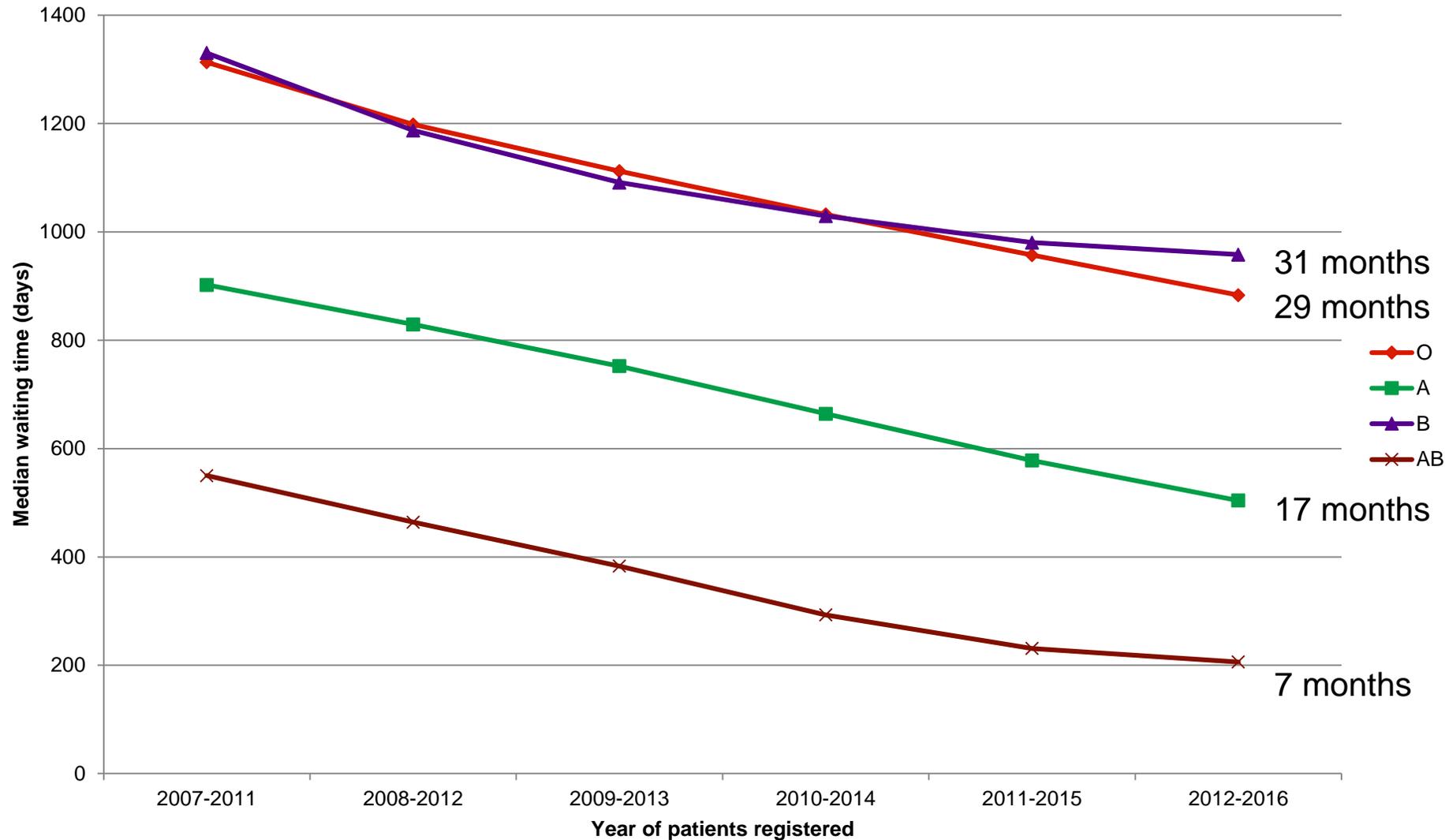
Deceased donor kidney transplants

Deceased donor kidney transplant rates

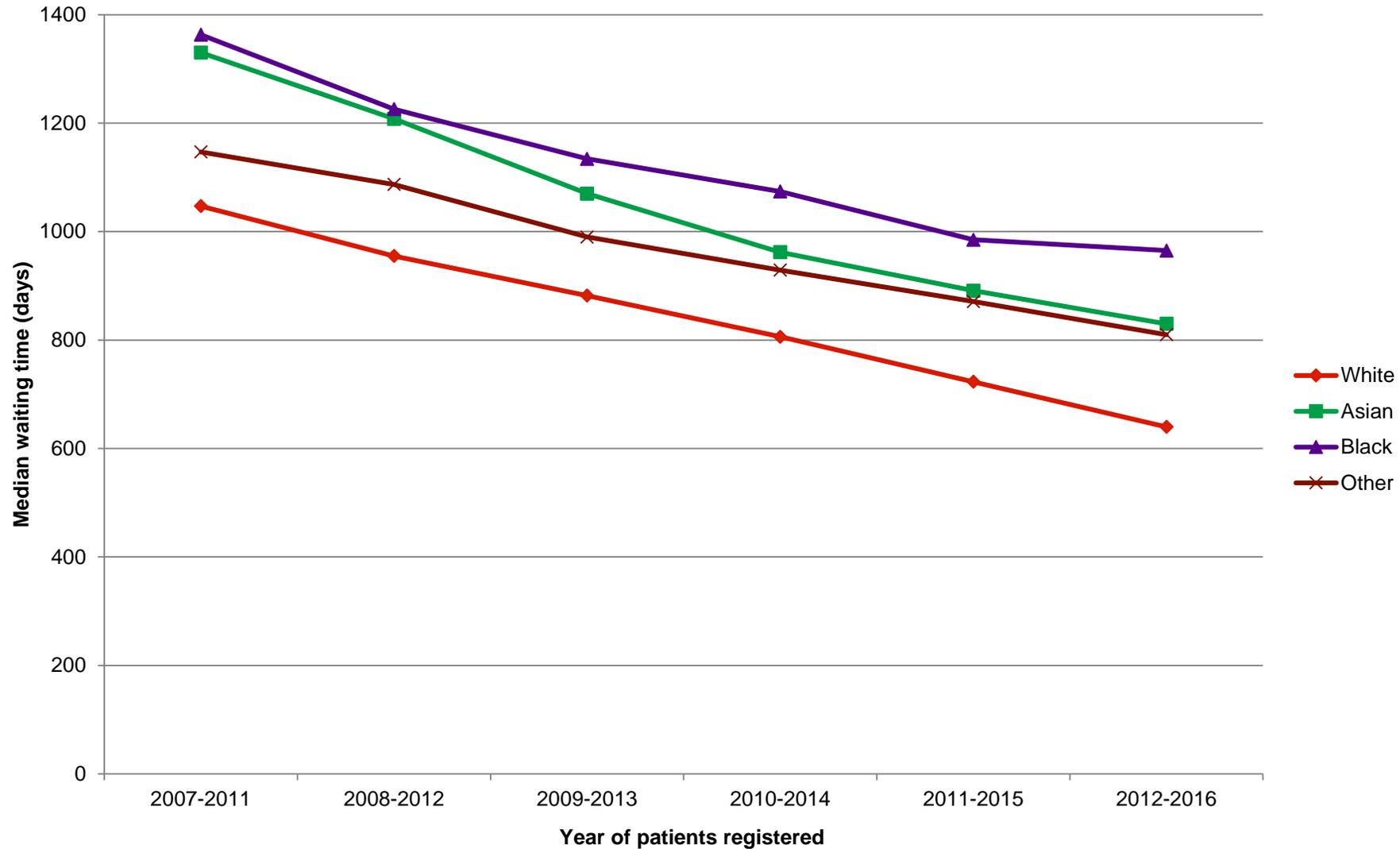
Deceased donor kidney transplant rates for Europe, Australia and the USA, 2018



Median waiting time to transplant for adult kidney patients

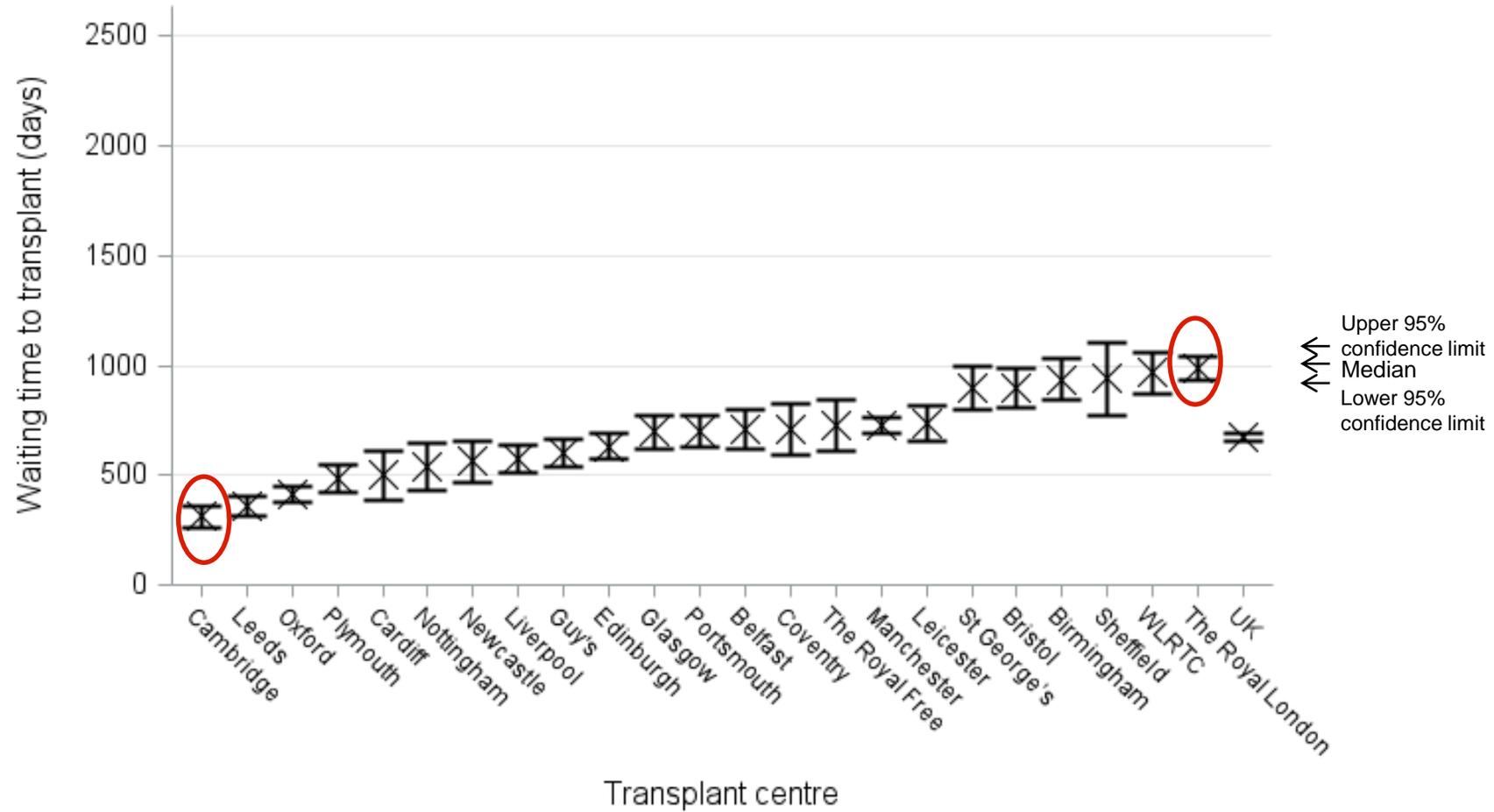


Median waiting time to transplant



Median waiting time to transplant

Figure 3.10 Median waiting time to deceased donor transplant for adult patients registered on the kidney transplant list, 1 April 2013 - 31 March 2016



10 months



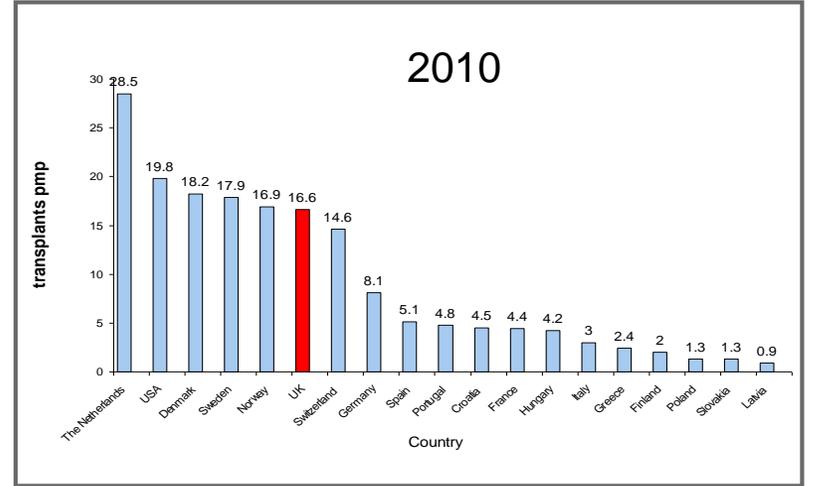
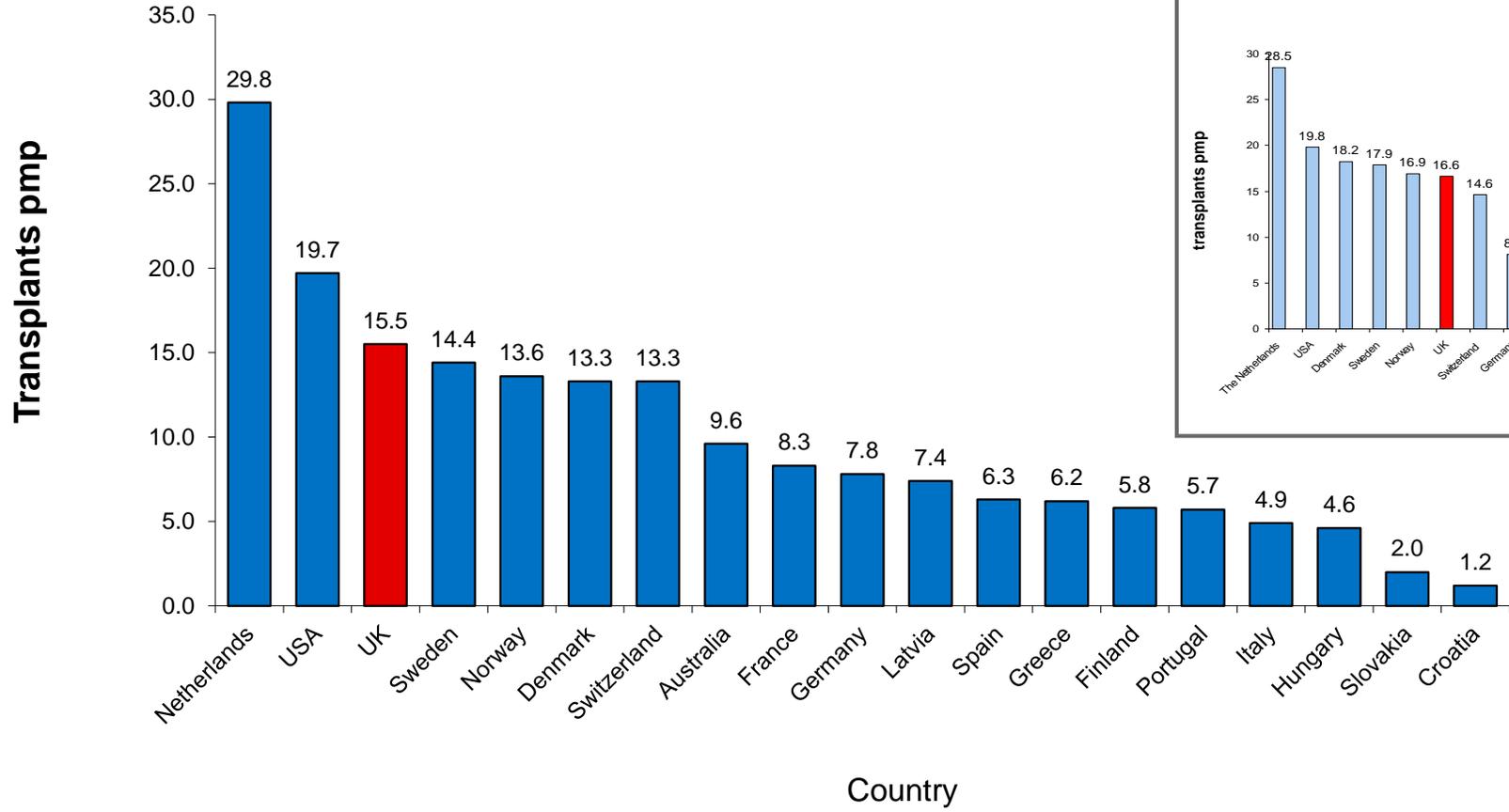
32 months

22 months
UK average

Living donor kidney transplants

International data - living donor (LD) kidney transplant rates

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

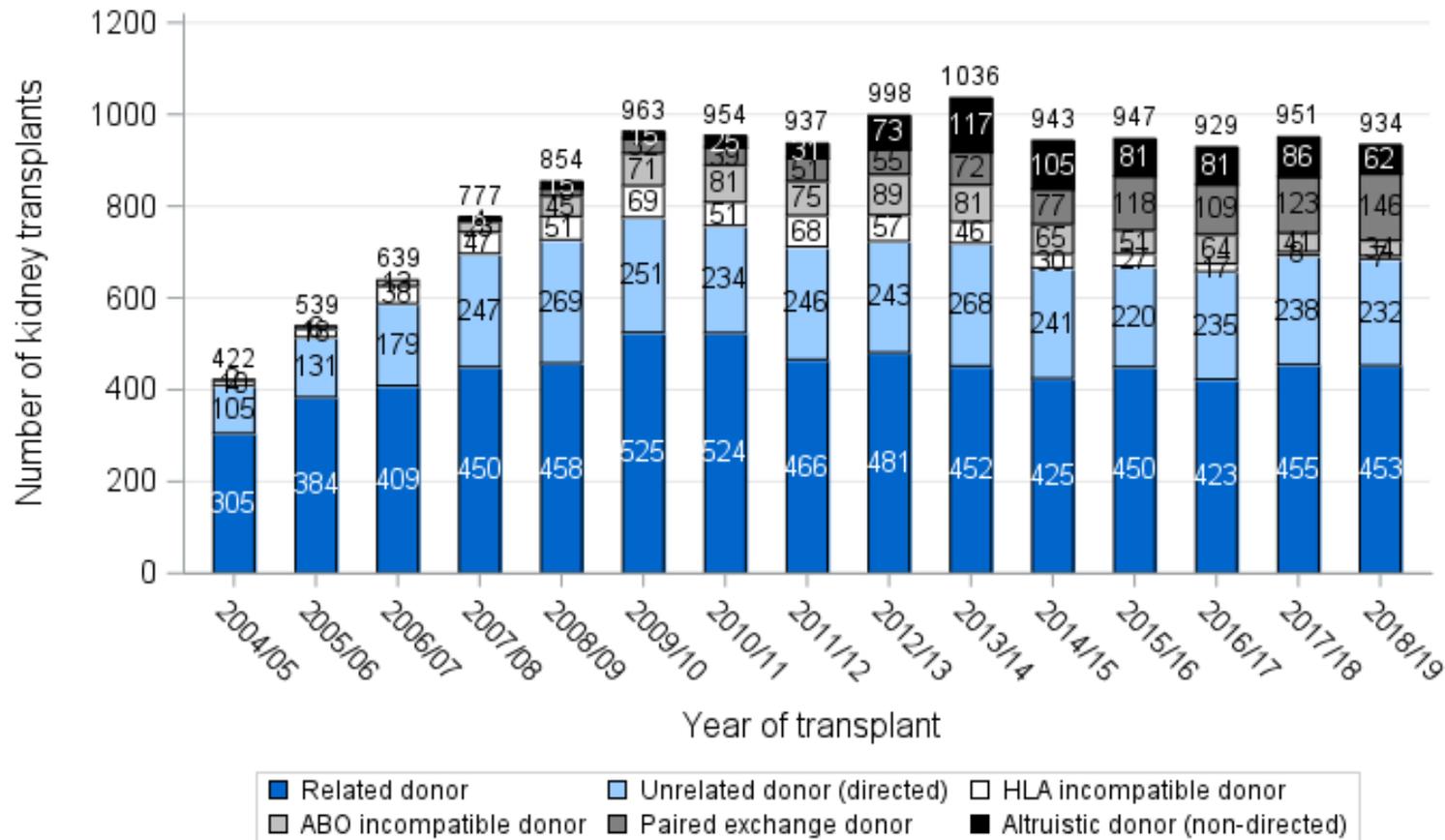


Source: Council of Europe – Transplant Newsletter

Adult living donor transplants

Increasing complexity of living donor kidney transplantation

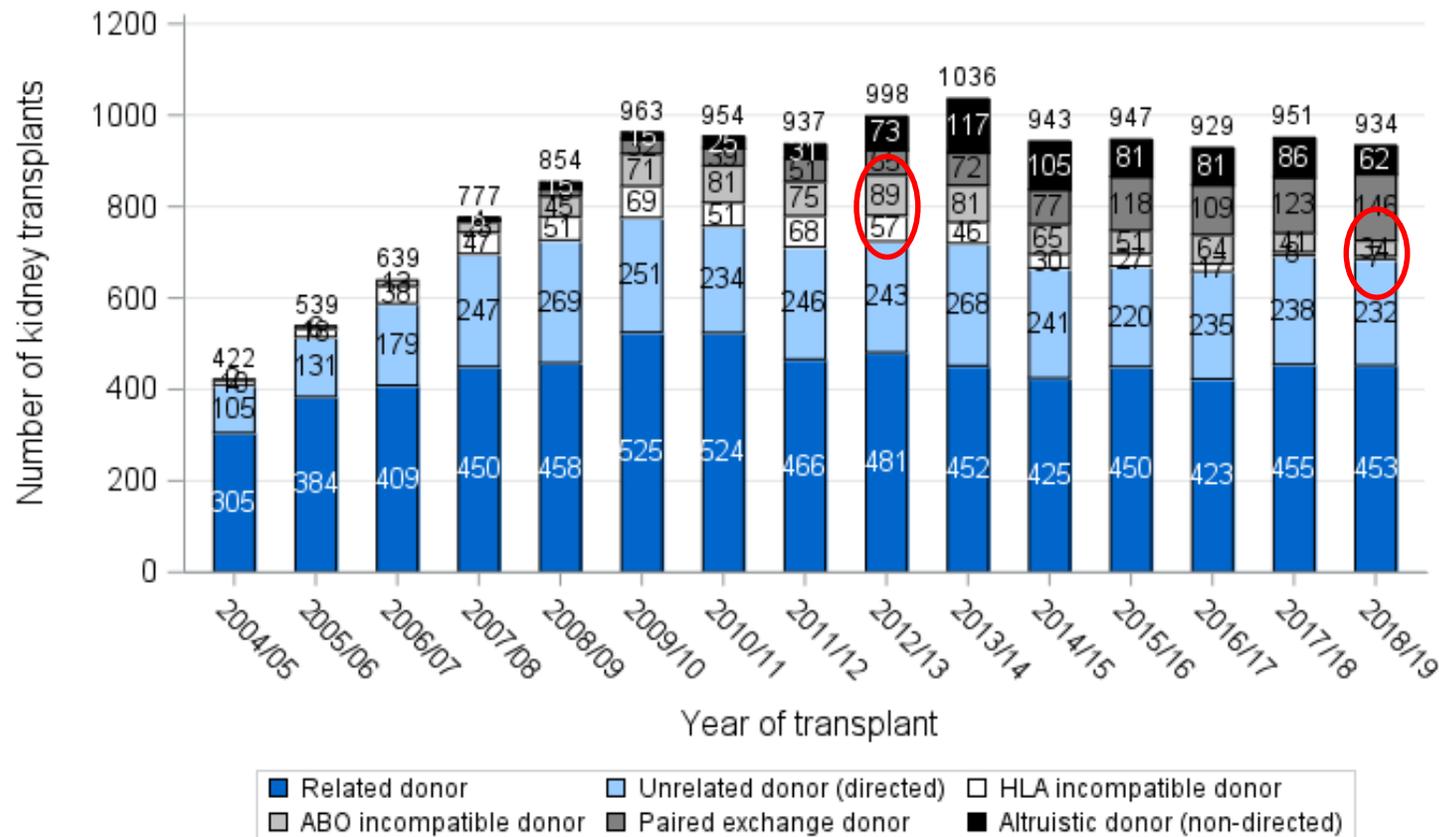
Figure 2.2 Adult living donor kidney transplants in the UK, 1 April 2004 - 31 March 2019



Adult living donor transplants

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

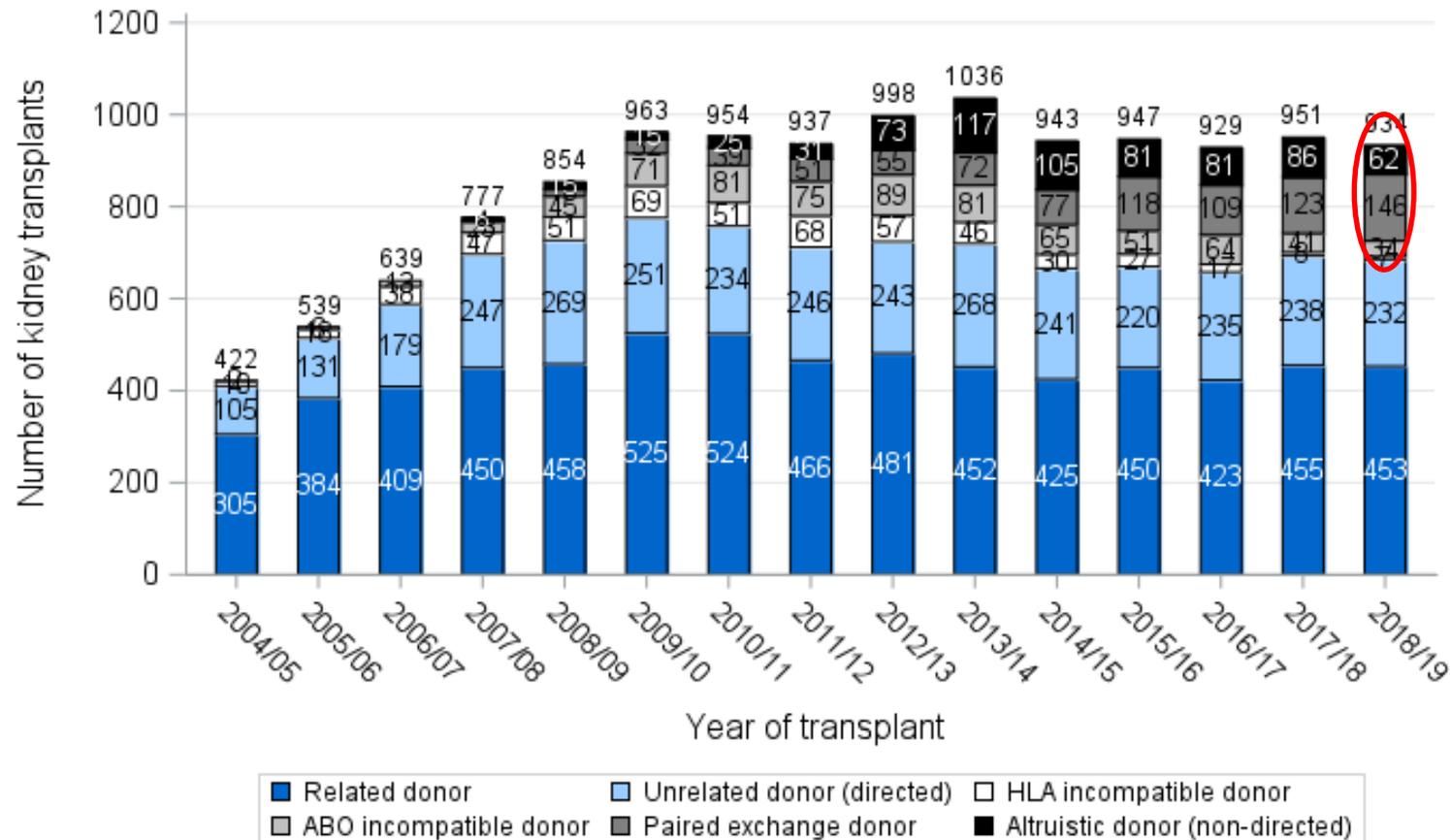
Figure 2.2 Adult living donor kidney transplants in the UK, 1 April 2004 - 31 March 2019



Adult living donor transplants

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



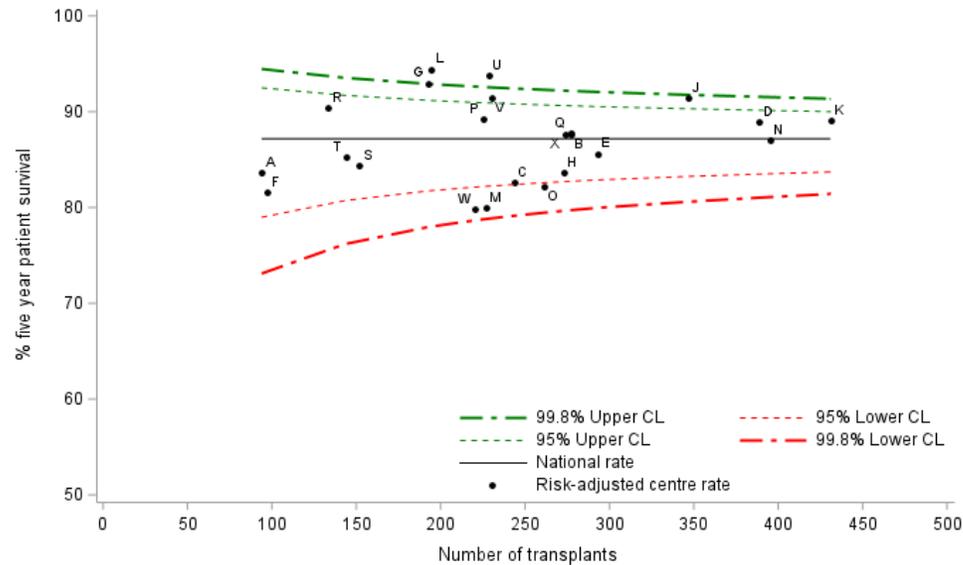
Post transplant outcomes

Deceased donor kidney transplant - Five year survival

Excellent post transplant outcomes – no outlying centres with poor survival

Patient survival

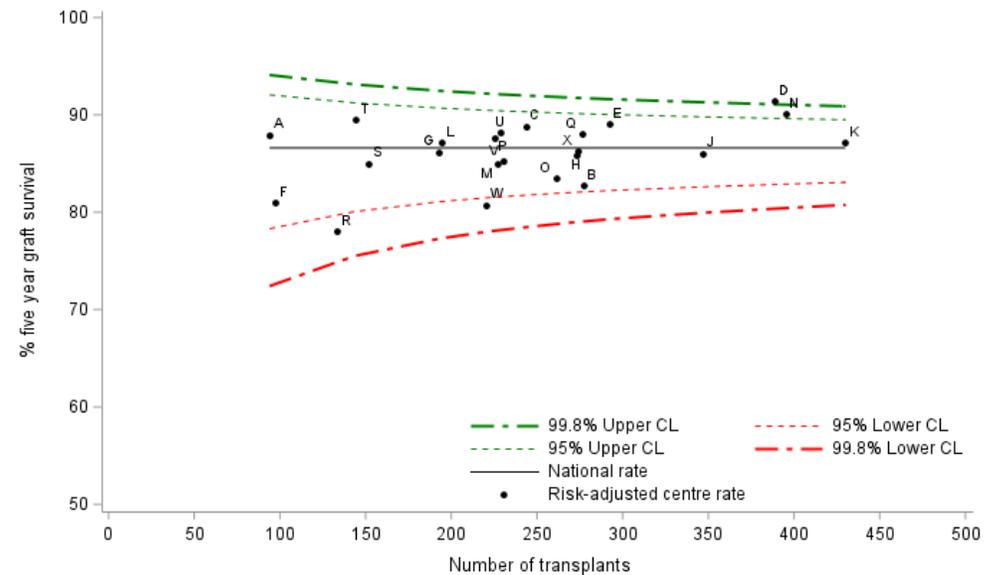
Figure 6.4 Risk-adjusted five year patient survival rates for first deceased donor kidney transplants in adult patients, between 1 April 2010 and 31 March 2014



UK rate 87%

Graft survival

Figure 6.3 Risk-adjusted five year graft (death censored) survival rates for first deceased donor kidney transplants in adult patients, between 1 April 2010 and 31 March 2014



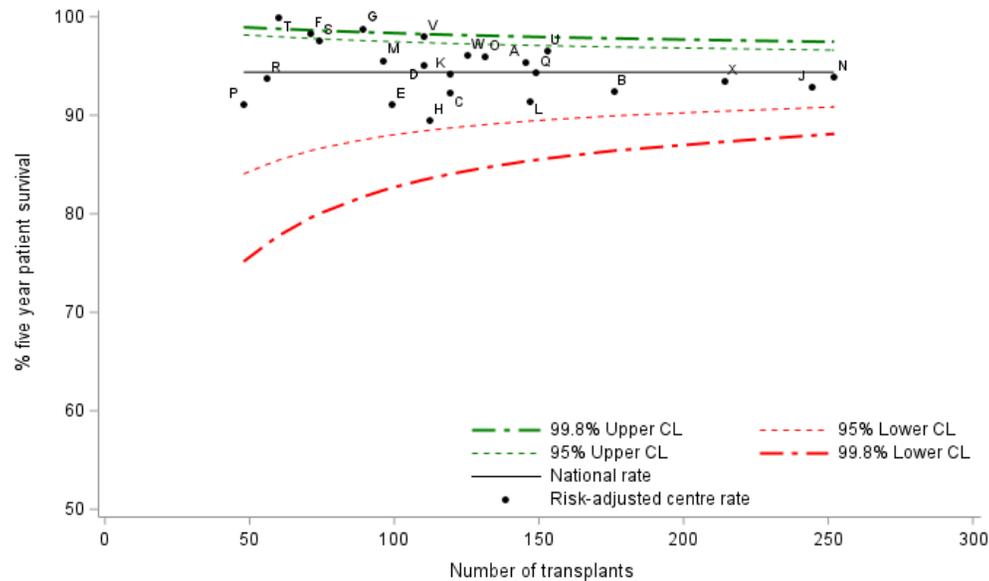
UK rate 87%

Living donor kidney transplant - Five year survival

Excellent post transplant outcomes – no outlying centres with poor survival

Patient survival

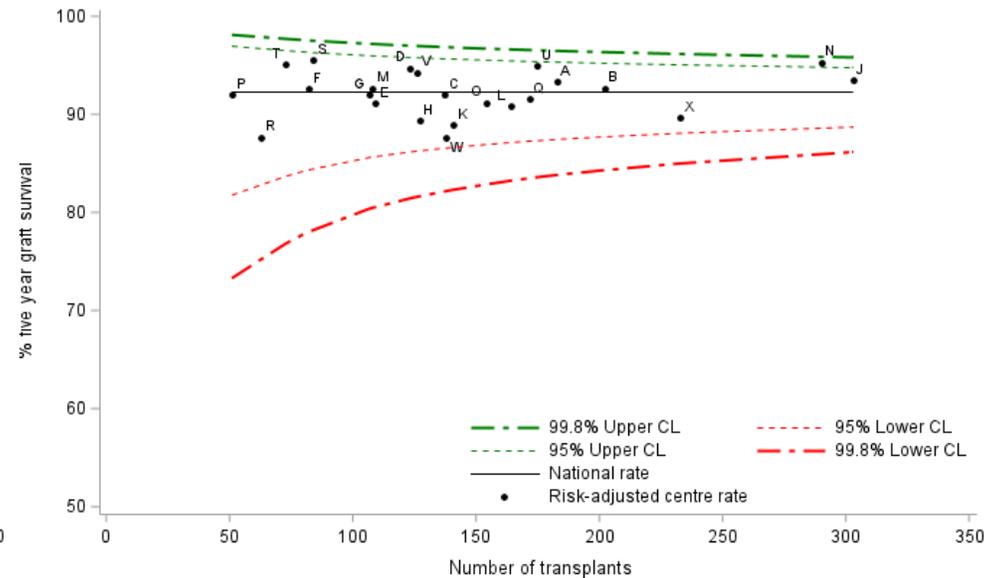
Figure 6.8 Risk-adjusted five year patient survival rates for first live donor kidney transplants in adult patients, between 1 April 2010 and 31 March 2014



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%

Summary

Summary

Total activity

- Deceased donors hit record high in 2018/19 however there was a small decrease in the number of transplants
- Numbers up again so far this year – 5% more DD, 0% change DD txs
 - 11% more DCD donors this year to date

Kidney activity

- Adult kidney transplants – 42% DBD, 29% DCD, 29% LD
- 2% increase in DDKT this year, 2% fall in LDKT
- Median wait to kidney transplant falling - 22 months - but centre variation remains (median 10 - 32 months)
- LDKT – fall in ABO and HLA incompatible transplantation
- Excellent post transplant outcomes with no outlying centres

Most figures from ODT Annual Report 2018/19 or Kidney Annual Report 2018/19

The screenshot shows the ODT Clinical website. At the top, there is a navigation bar with the NHS Blood and Transplant logo and links for 'Who we are', 'What we do', 'How we help', 'Get involved', 'Donate', 'Careers', and 'Media'. Below this is a search bar labeled 'Your search here' and the text 'ODT CLINICAL'. A main navigation bar contains links for 'Home', 'Deceased donation', 'Living donation', 'Retrieval', 'Transplantation', 'Statistics and reports', 'Information for patients', and 'ODT structure & standards'. The 'Statistics and reports' link is circled in red, and its dropdown menu is open, listing the following items: 'Annual Activity Report', 'Organ specific reports', 'Potential Donor Audit', 'ODT Performance Report', 'Annual NORS Report', 'Regional reports', 'Trust/board level benchmarking', 'Slides and presentations', 'Access data', and 'Publications'. Below the navigation bar is a large banner with the text 'Organ Donation and Transplantation' and 'Matching world-class performance in organ donation and transplantation'. At the bottom, there are three main content blocks: 'Taking Organ Transplantation to 2020' with a 'View the strategy' link, 'Annual Activity Report' with a 'Download the report' link, and 'Taking Organ Utilisation to 2020' with a 'Download the reports' link. Other links include 'ODT Hub Programme' and 'Tell us about an incident'.

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

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www.odt.nhs.uk