

A thick, blue, wavy line that curves across the top of the slide, separating the header from the main content.

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

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Statistics and Clinical Studies  
NHS Blood and Transplant

# Outline

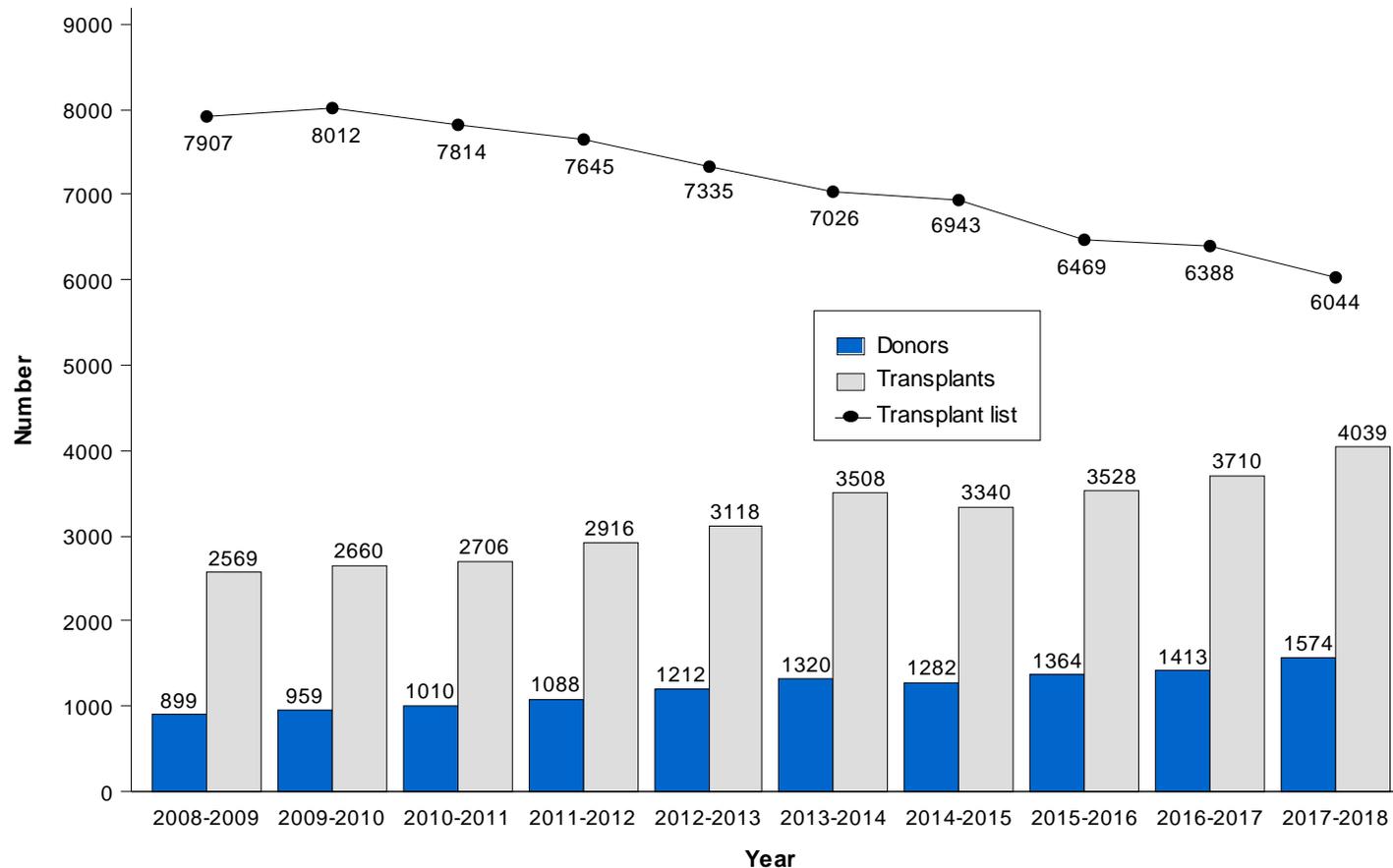
- Trends in deceased organ donors and transplants
- Overview of kidney transplantation in the UK
  - Deceased donor kidney transplants
  - Living donor kidney transplants
  - Post transplant outcomes

# **Trends in deceased organ donors and transplants**

# Deceased donors and transplants

Highest number of deceased donors in the UK last year - 1574 - resulting in 4039 transplants

Figure 2.1 Number of deceased donors and transplants in the UK, 1 April 2008 - 31 March 2018, and patients on the active transplant list at 31 March



Since Organ Donation Taskforce Recommendations (2007/8):

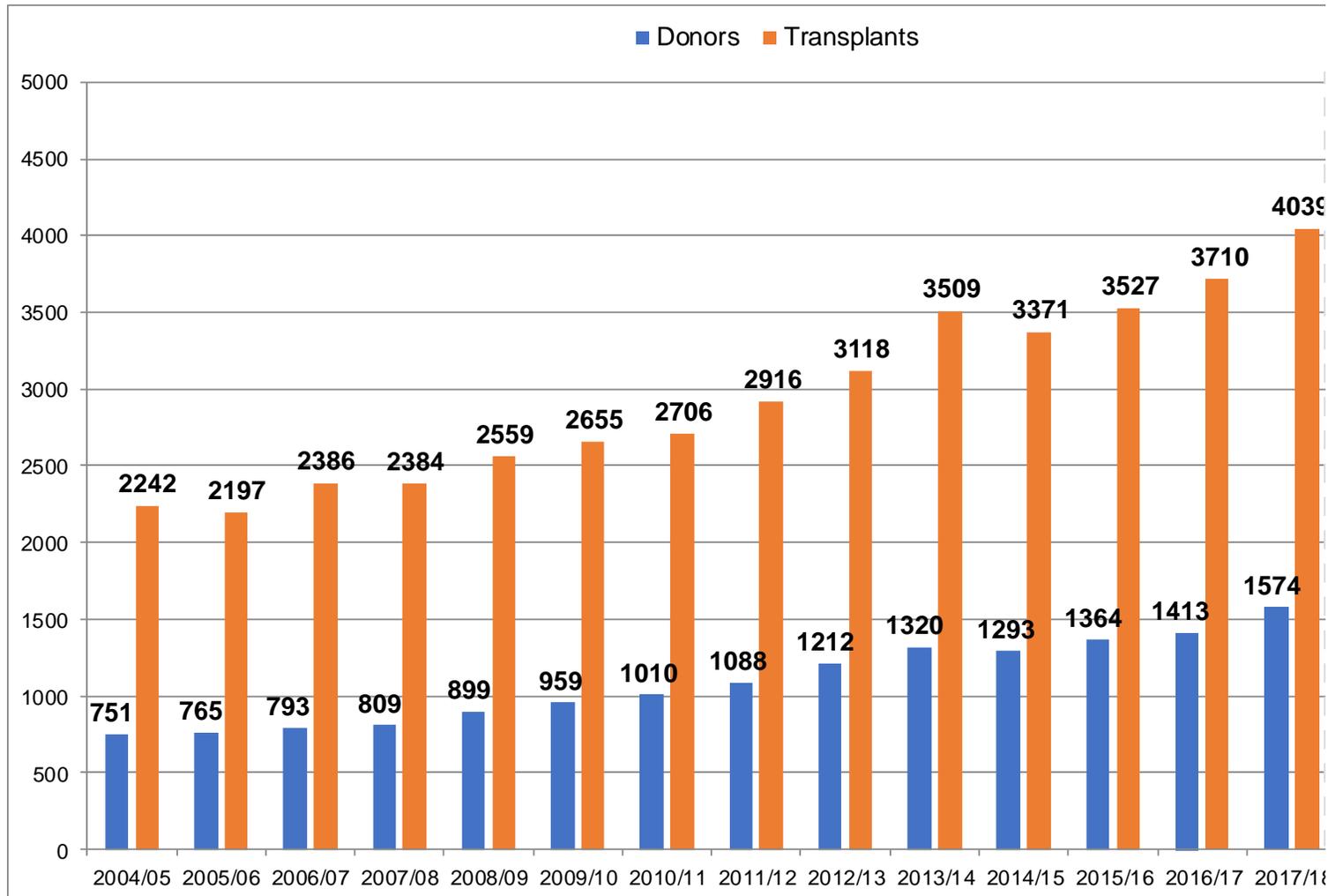
21% decrease in waiting lists

69% increase in transplants (all organs)

95% increase in deceased organ donors

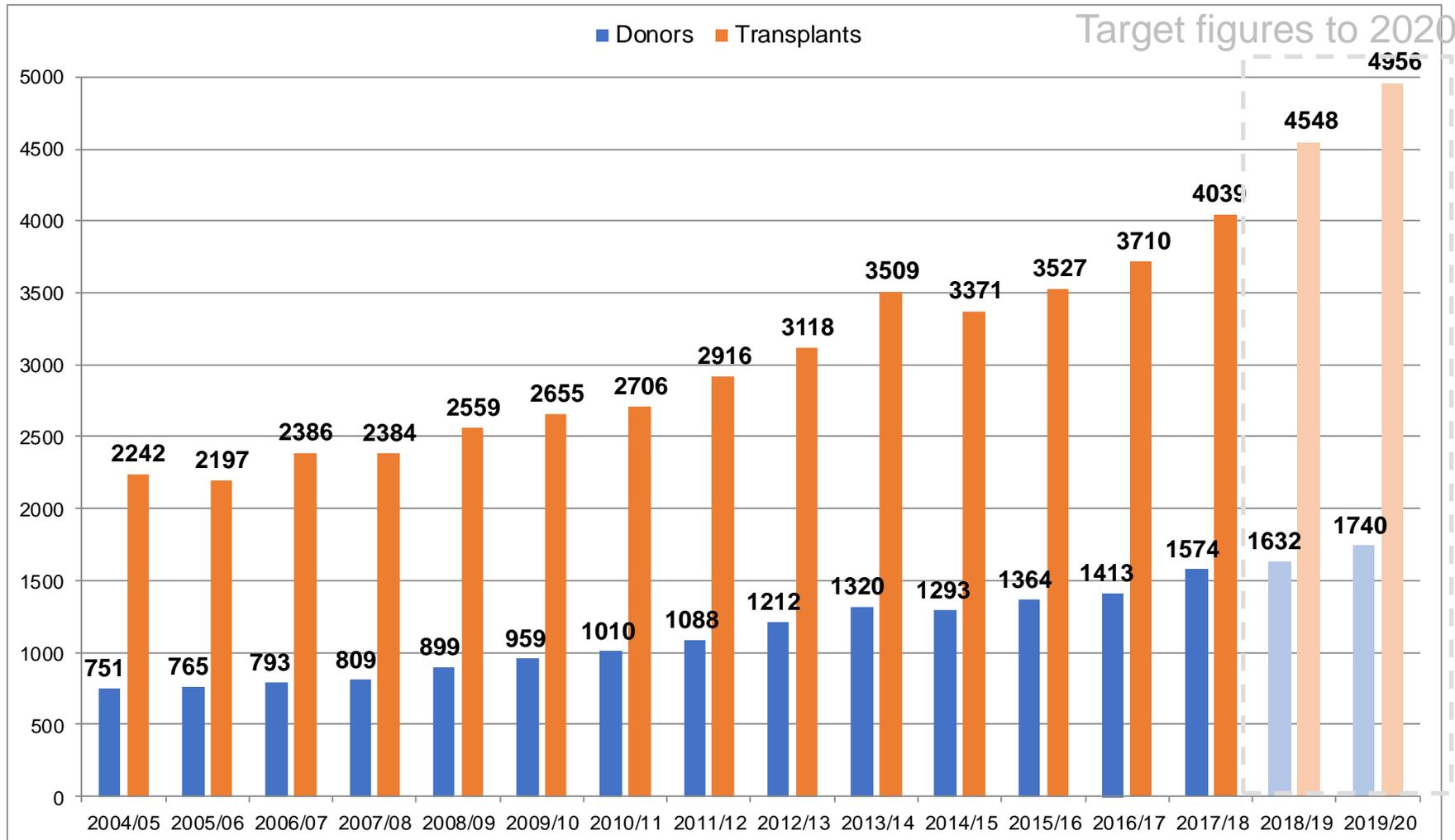
# UK Strategy – *Taking Organ Transplantation to 2020*

## Targets for deceased donors and transplants



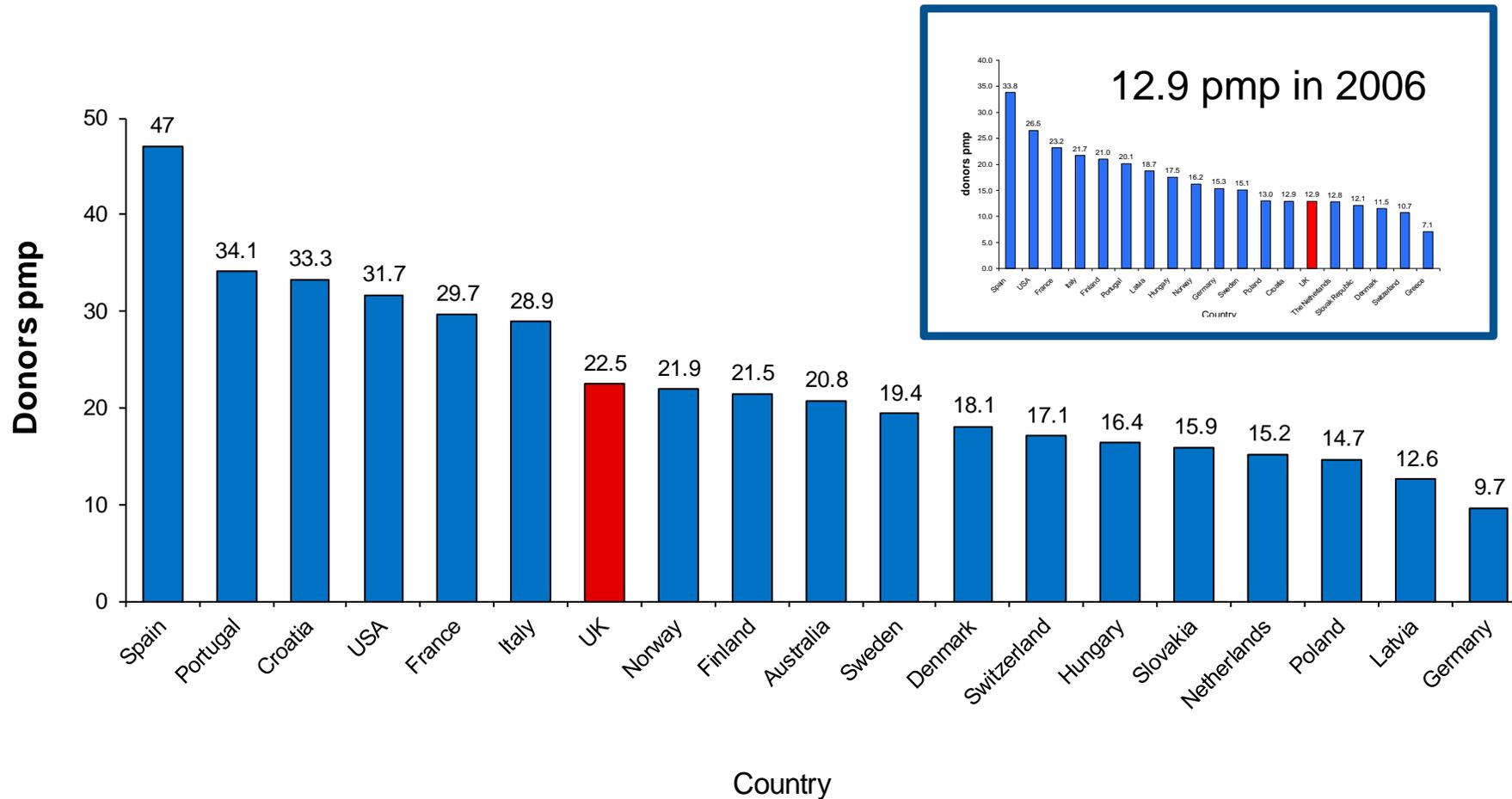
# UK Strategy – Taking Organ Transplantation to 2020

## Targets for deceased donors and transplants

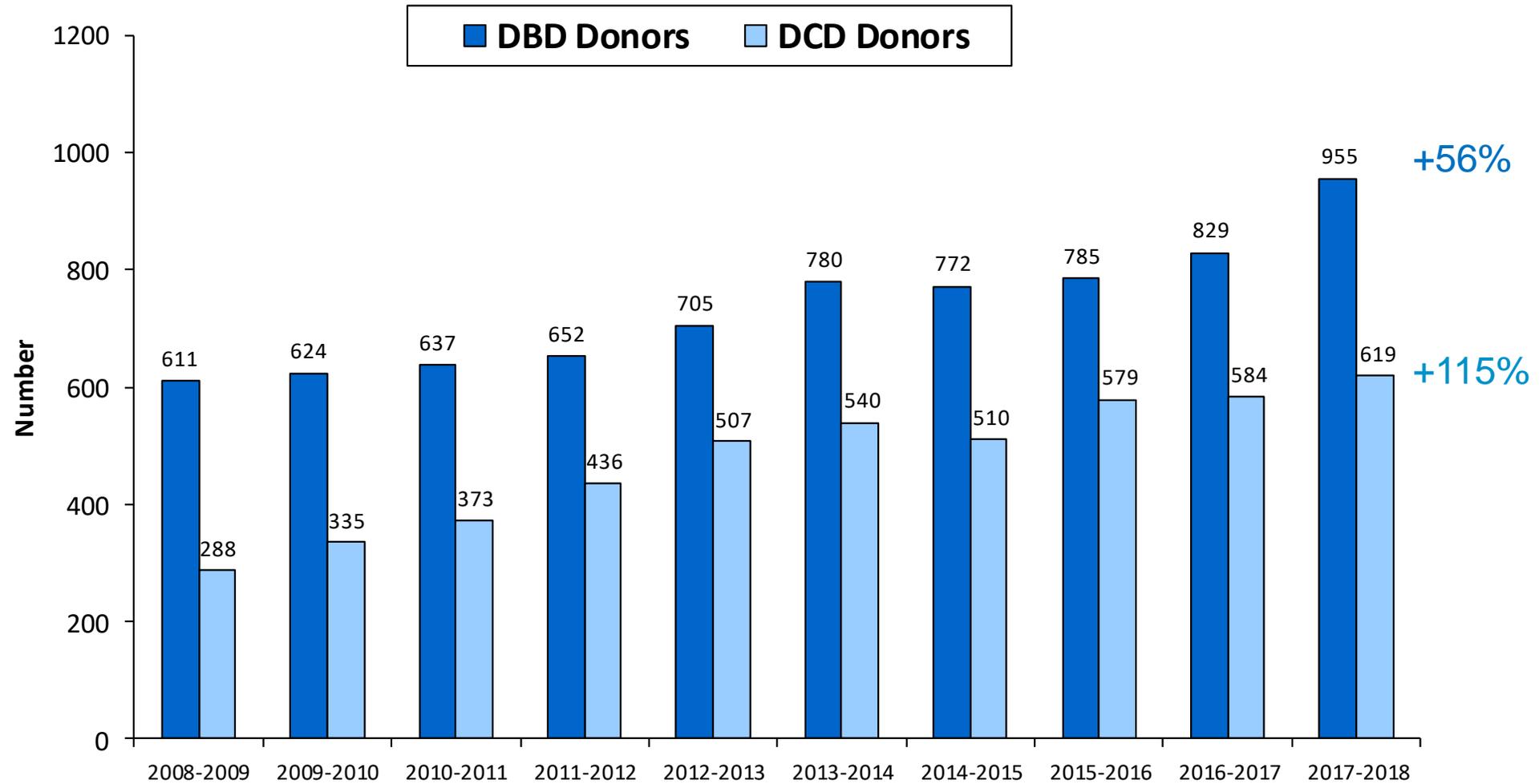


# International comparisons – Deceased donor rates in 2017

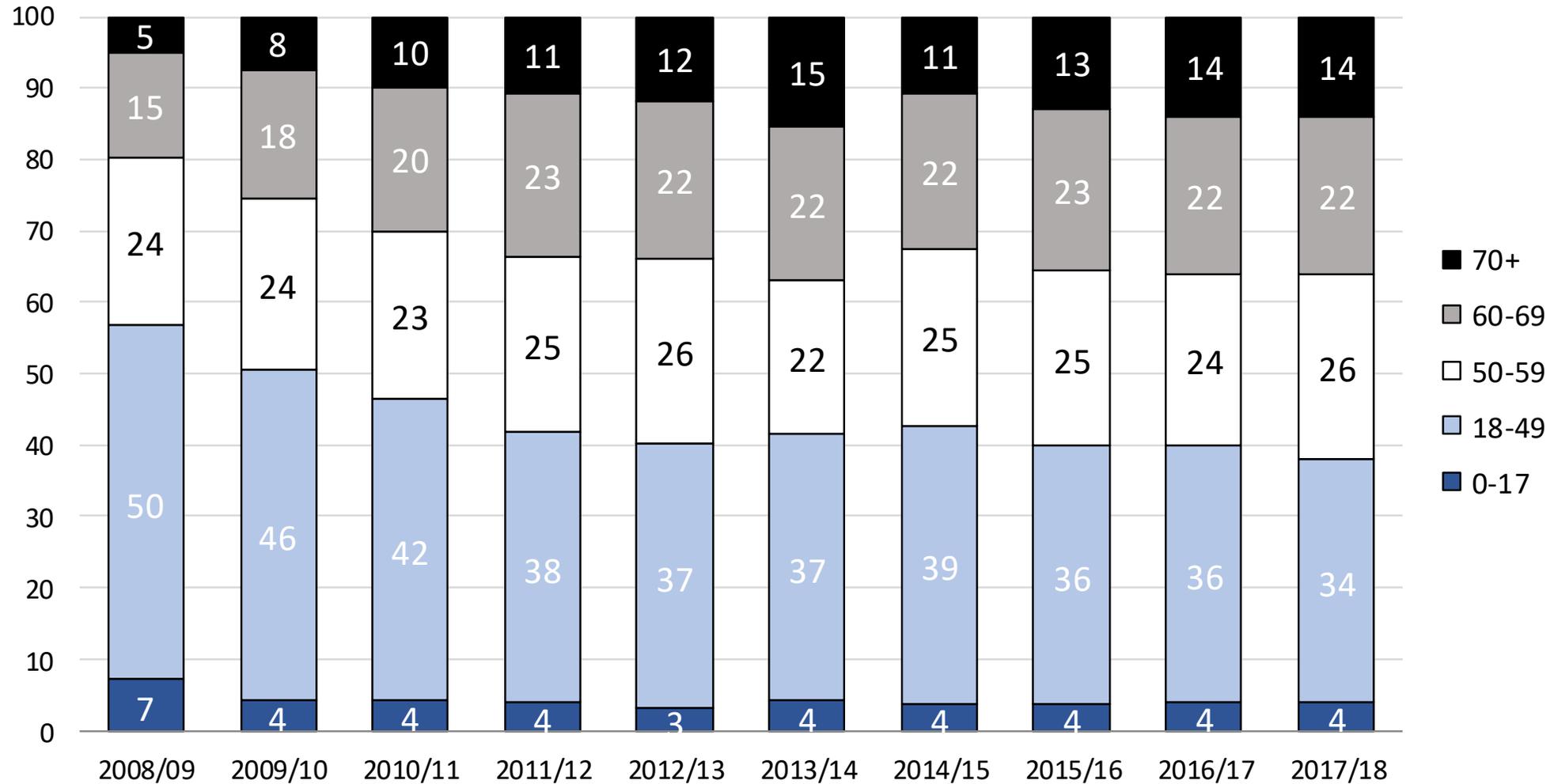
Deceased organ donor rates for Europe, Australia and the USA,  
2017



# DBD vs DCD donors

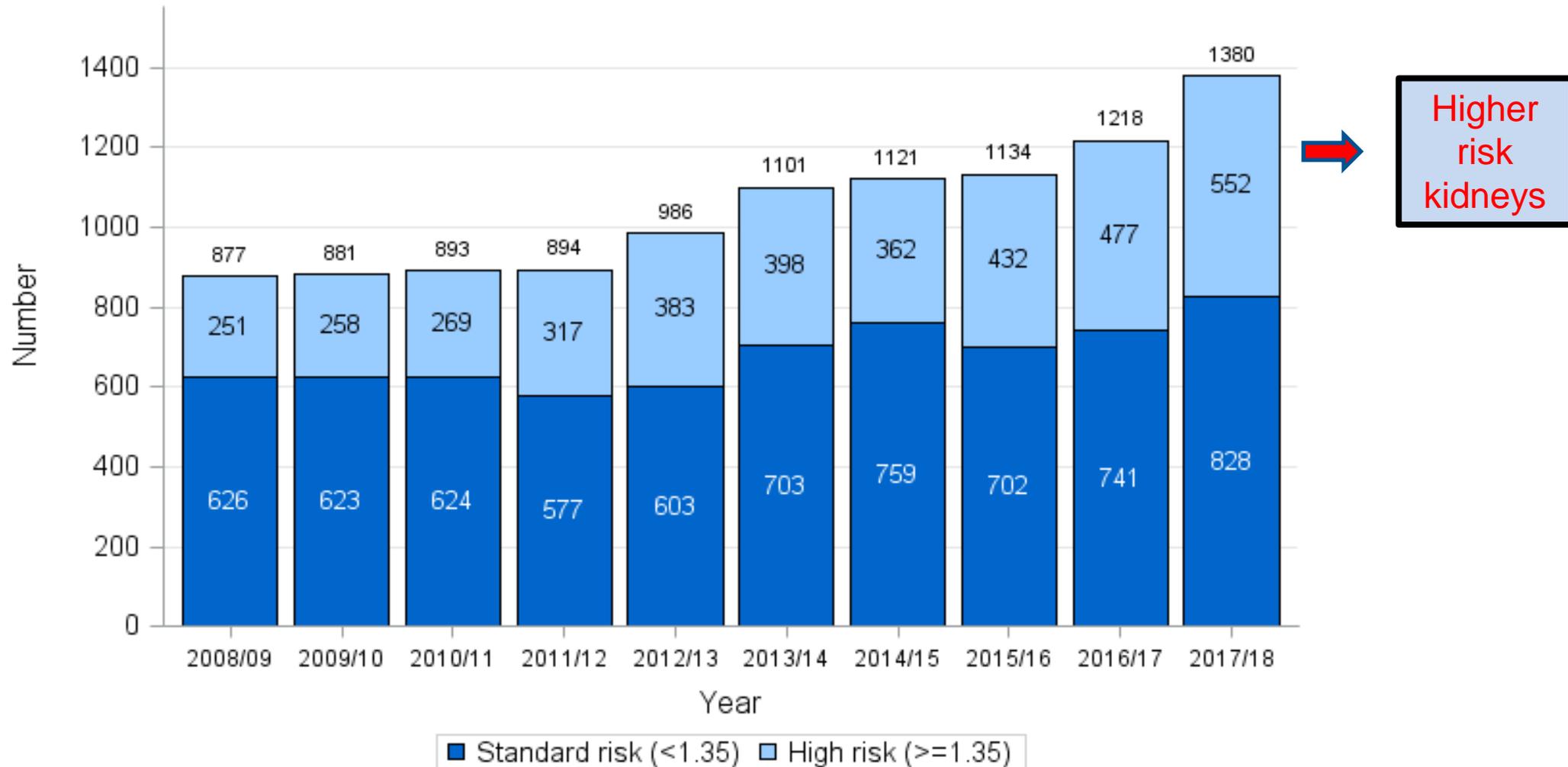


# Age of deceased donors



# UK Kidney Donor risk index of transplanted DBD kidneys

Figure 5.10 UK Kidney Donor Risk Index of transplanted DBD donor kidneys  
1 April 2008 - 31 March 2018



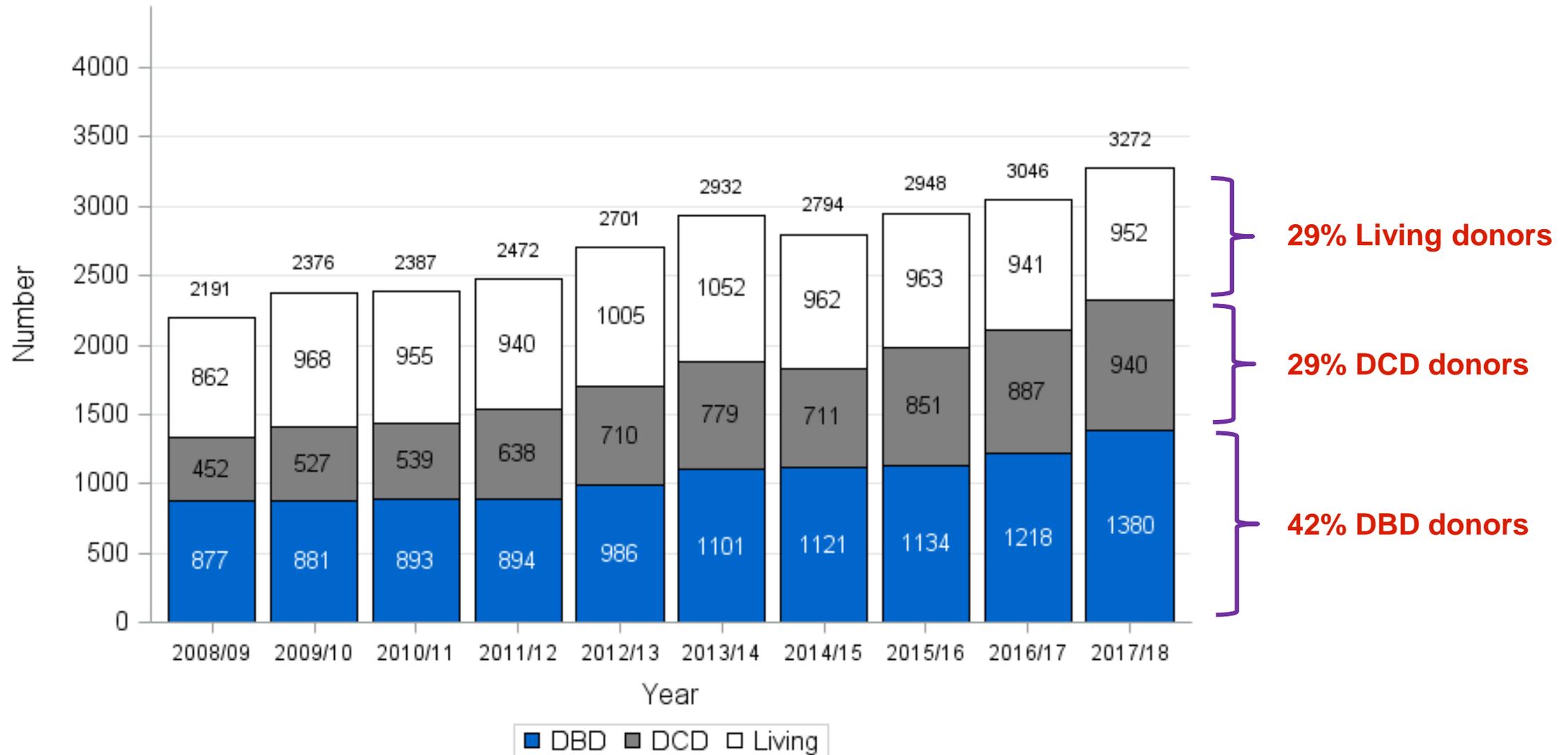
# Increase in deceased donors this year?

DONOR AND TRANSPLANT ACTIVITY			
	<i>Current year</i> (01.04.18 - 30.12.18)	<i>Previous year</i> (01.04.17 - 30.12.17)	<i>% Change*</i>
ORGAN DONORS			
Donors after brain death (DBD)	723	675	7.1
Donors after circulatory death (DCD)	446	446	0
Total deceased donors (DD)	1169	1121	4.3

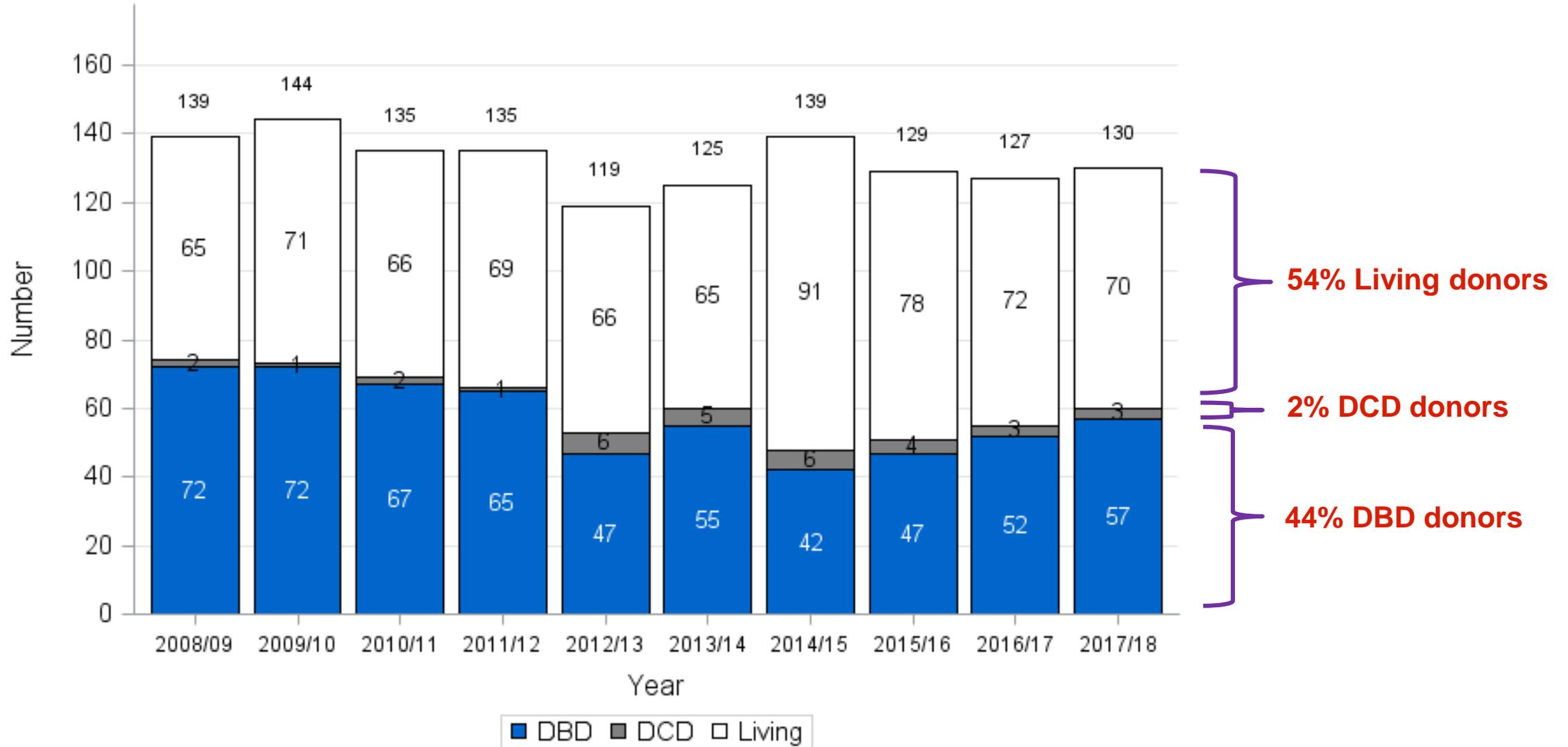
Taken from the weekly statistics : [www.odt.nhs.uk](http://www.odt.nhs.uk)

# **Kidney transplantation in the UK**

# Total adult kidney only transplants



# Total paediatric kidney transplants

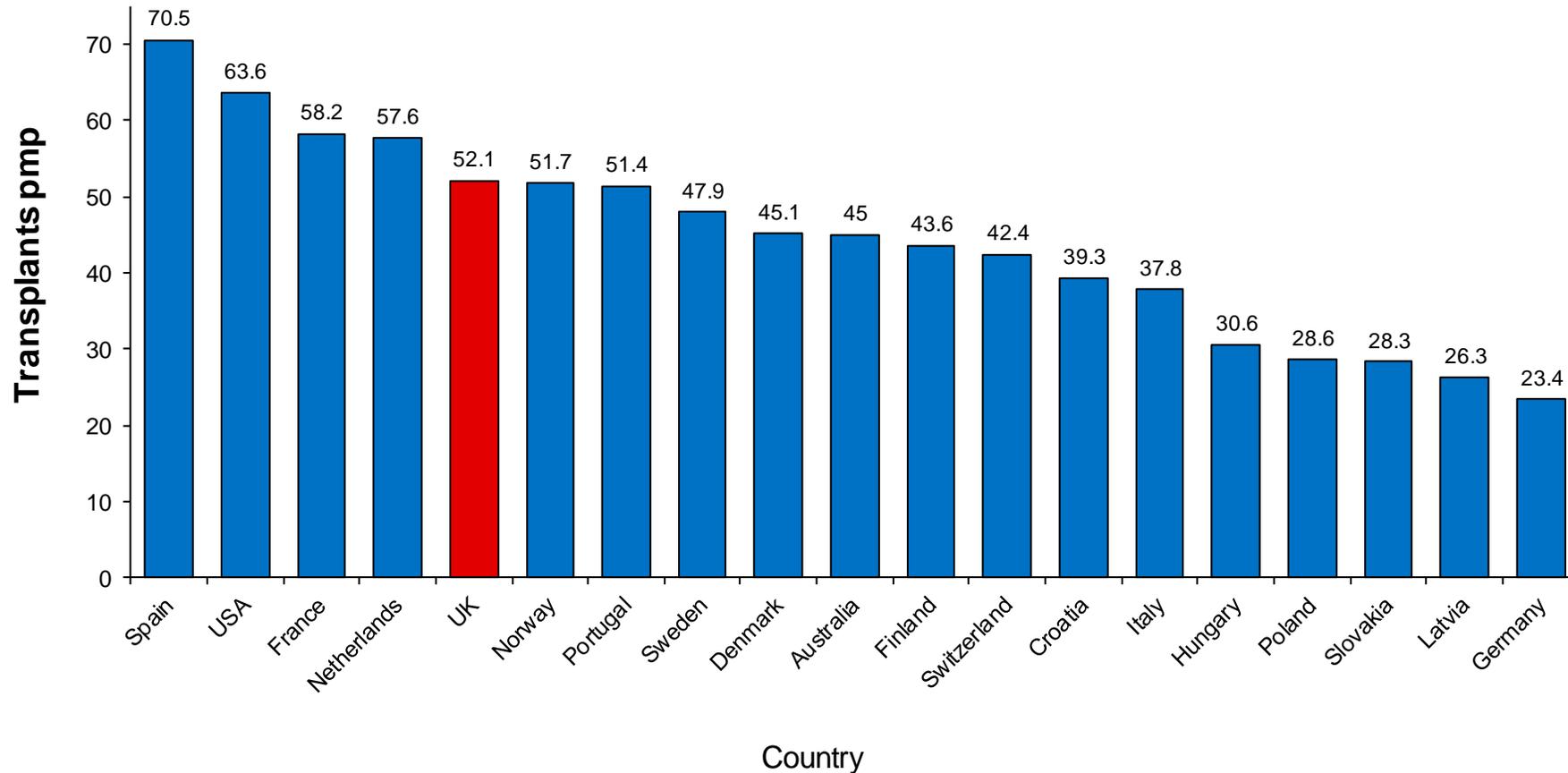


# Kidney transplant rates this year?

DONOR AND TRANSPLANT ACTIVITY			
	<i>Current year</i> (01.04.18 - 30.12.18)	<i>Previous year</i> (01.04.17 - 30.12.17)	<i>% Change</i> <sup>2</sup>
ORGAN TRANSPLANTS			
Deceased donors (DD)			
Kidney	1722	1698	1.4
Pancreas	14	10	40
Kidney/pancreas <sup>7</sup>	132	123	7.3
Pancreas islets	14	14	0
Heart <sup>6</sup>	129	139	-7.2
Lung(s)	125	143	-12.6
Heart/lung	2	8	
Liver/lobe <sup>6</sup>	742	710	4.5
Intestinal	16	16	0
Other (multi-organ)	8	13	
Total DD transplants	2904	2874	1
Living donor (LD) - 1 mth in arrears <sup>4</sup>			
Kidney	682	688	-0.9
Liver	12	22	-45.5
Lung	0	0	
Intestinal	0	1	
Total LD transplants	694	711	-2.4

# Kidney transplant rates

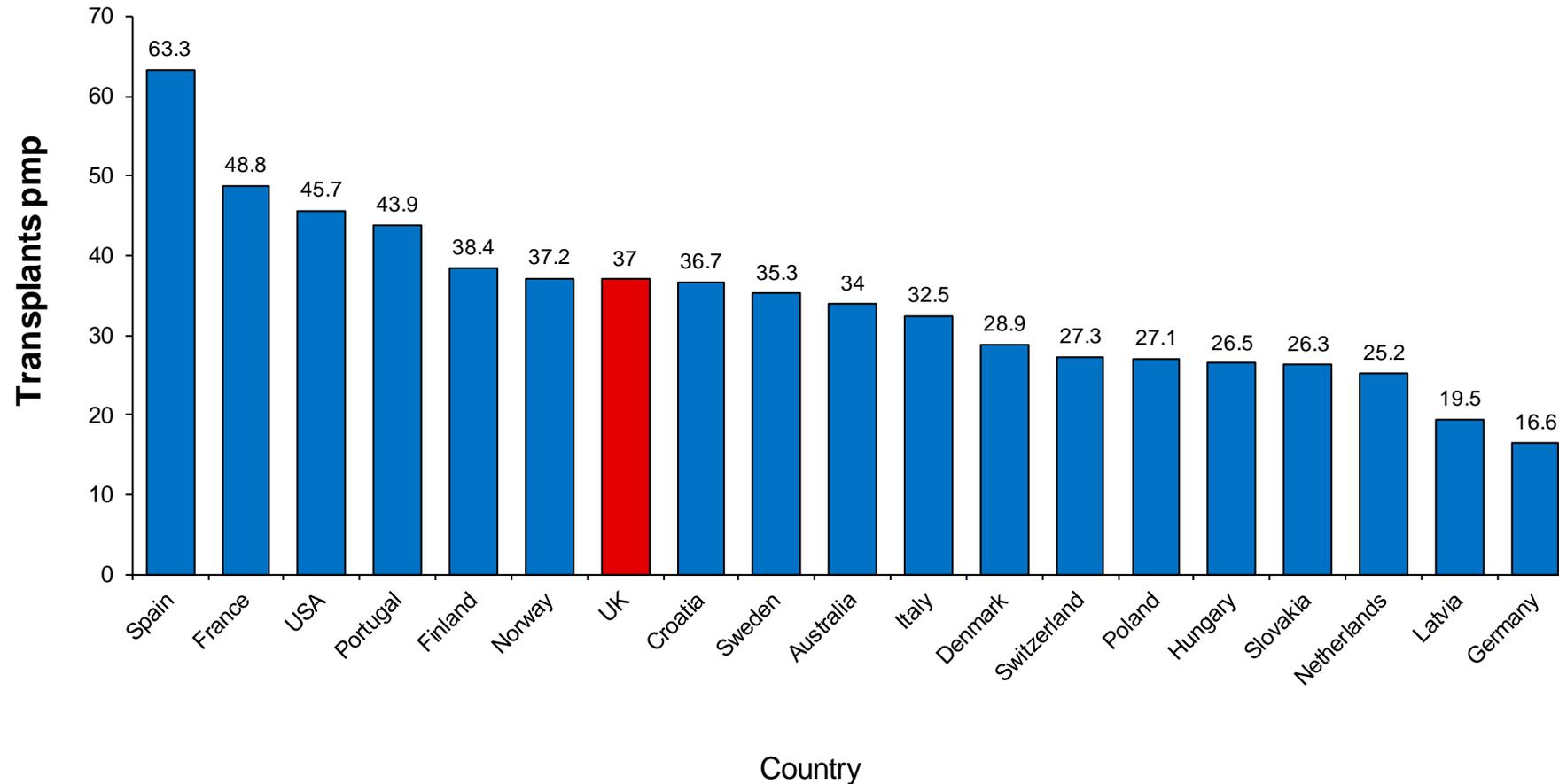
### Deceased and living donor kidney transplant rates for Europe, Australia and the USA, 2017



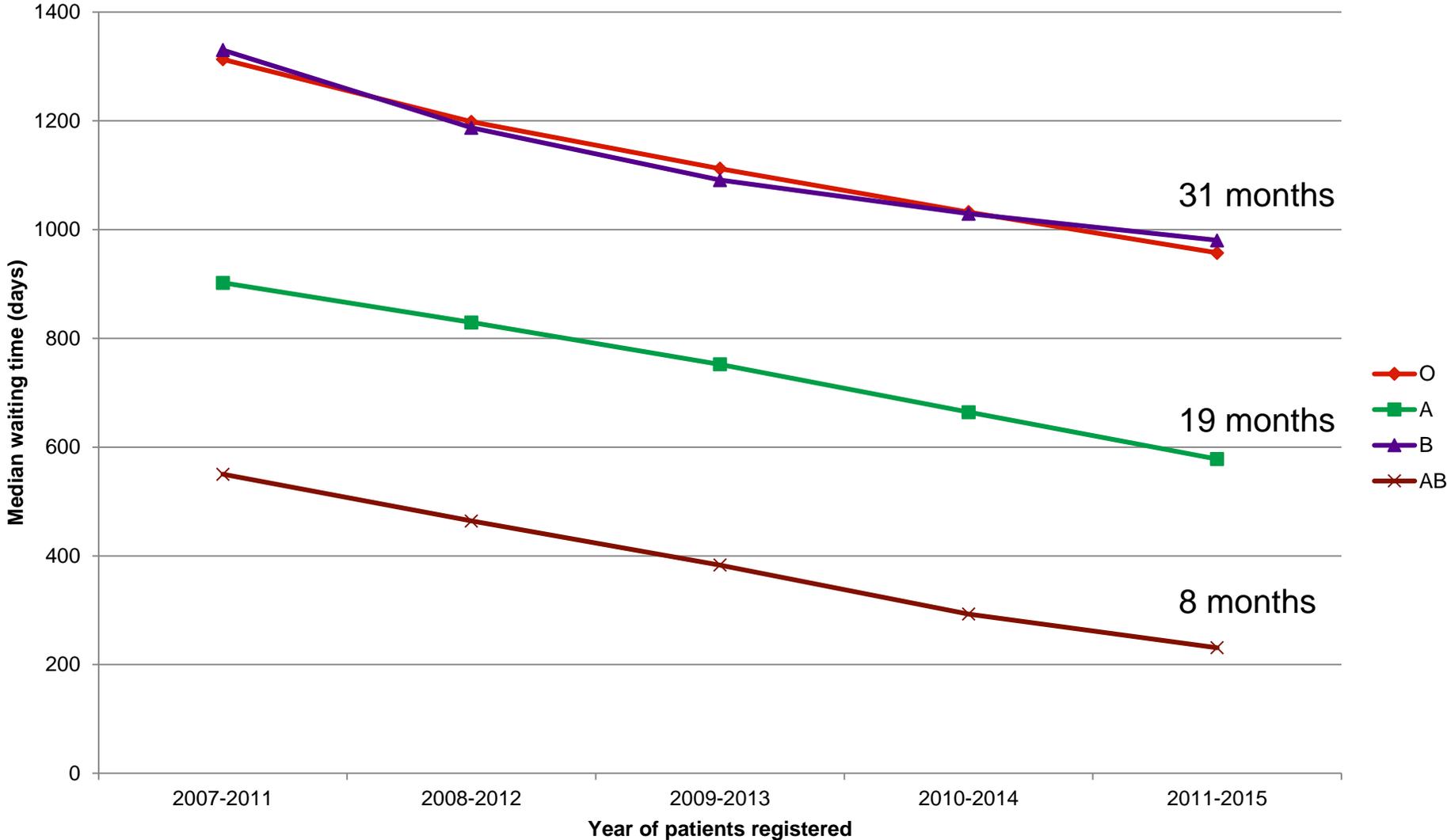
# **Deceased donor kidney transplants**

# Deceased donor kidney transplant rates

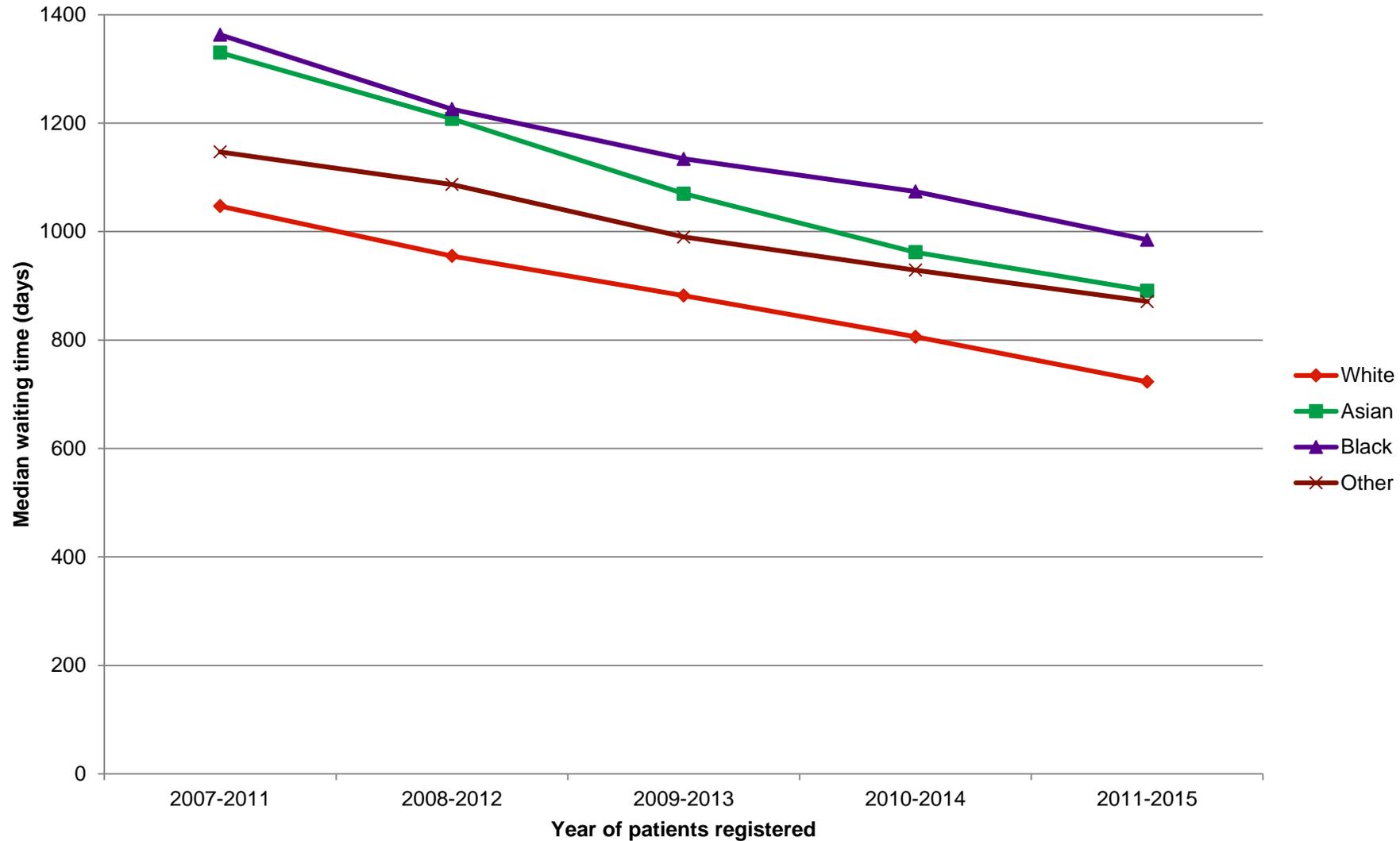
## Deceased donor kidney transplant rates for Europe, Australia and the USA, 2017



# Median waiting time to transplant for adult kidney patients

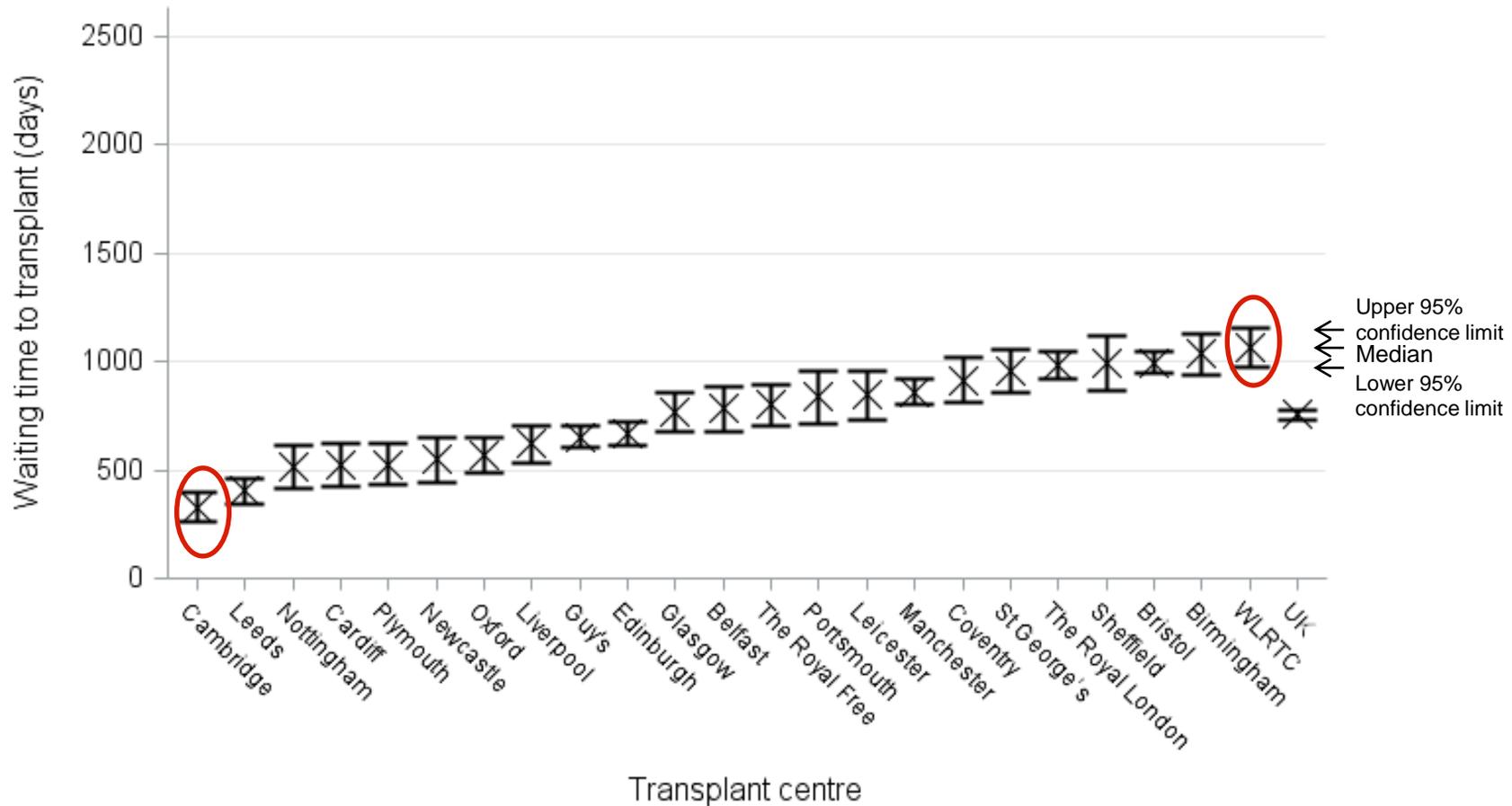


# Median waiting time to transplant



# 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 2012 - 31 March 2015



11 months



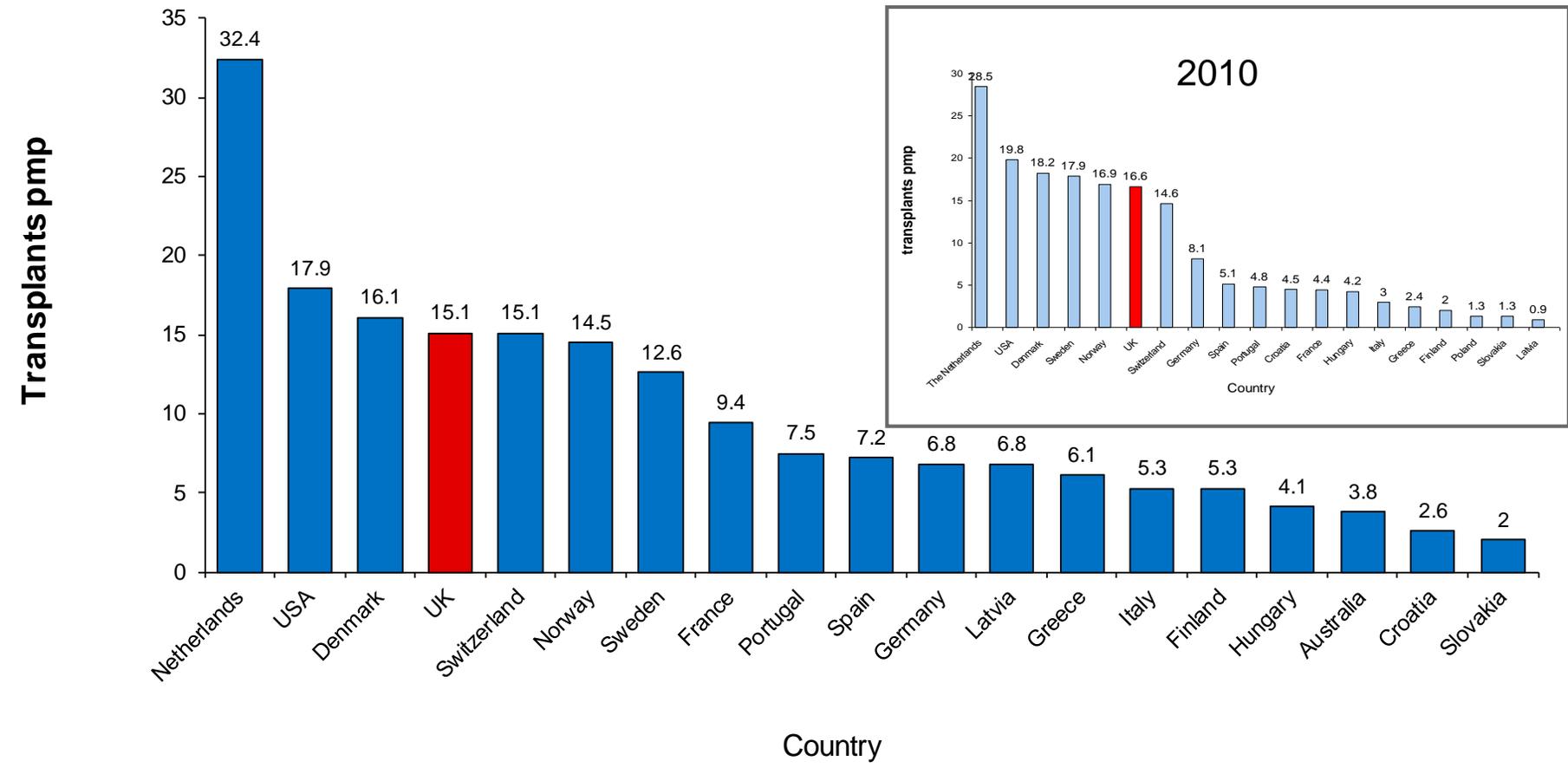
35 months

25 months  
UK average

# **Living donor kidney transplants**

# International data - living donor (LD) kidney transplant rates

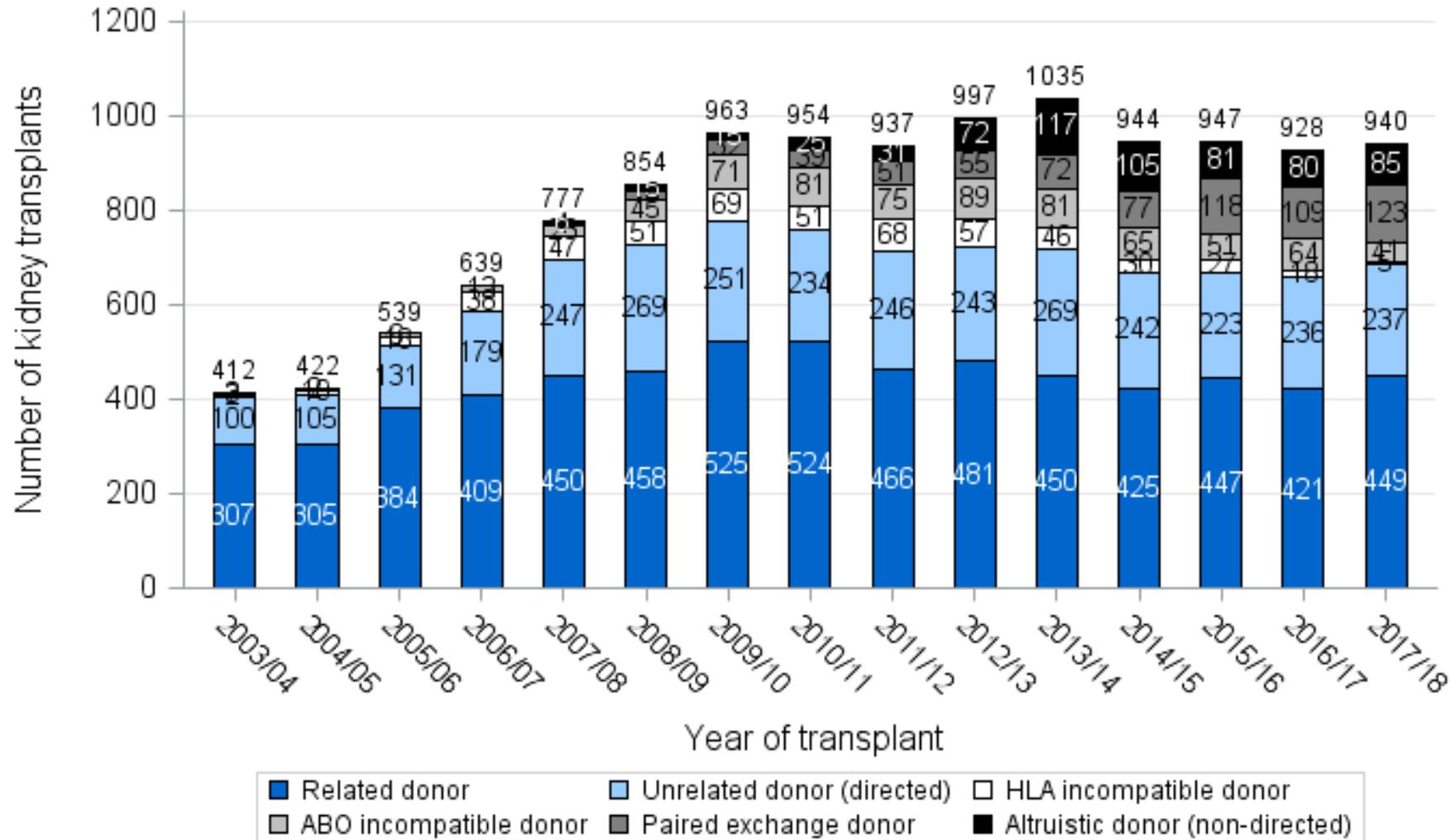
Living donor kidney transplant rates for Europe, Australia and the USA, 2017



Source: Council of Europe – Transplant Newsletter

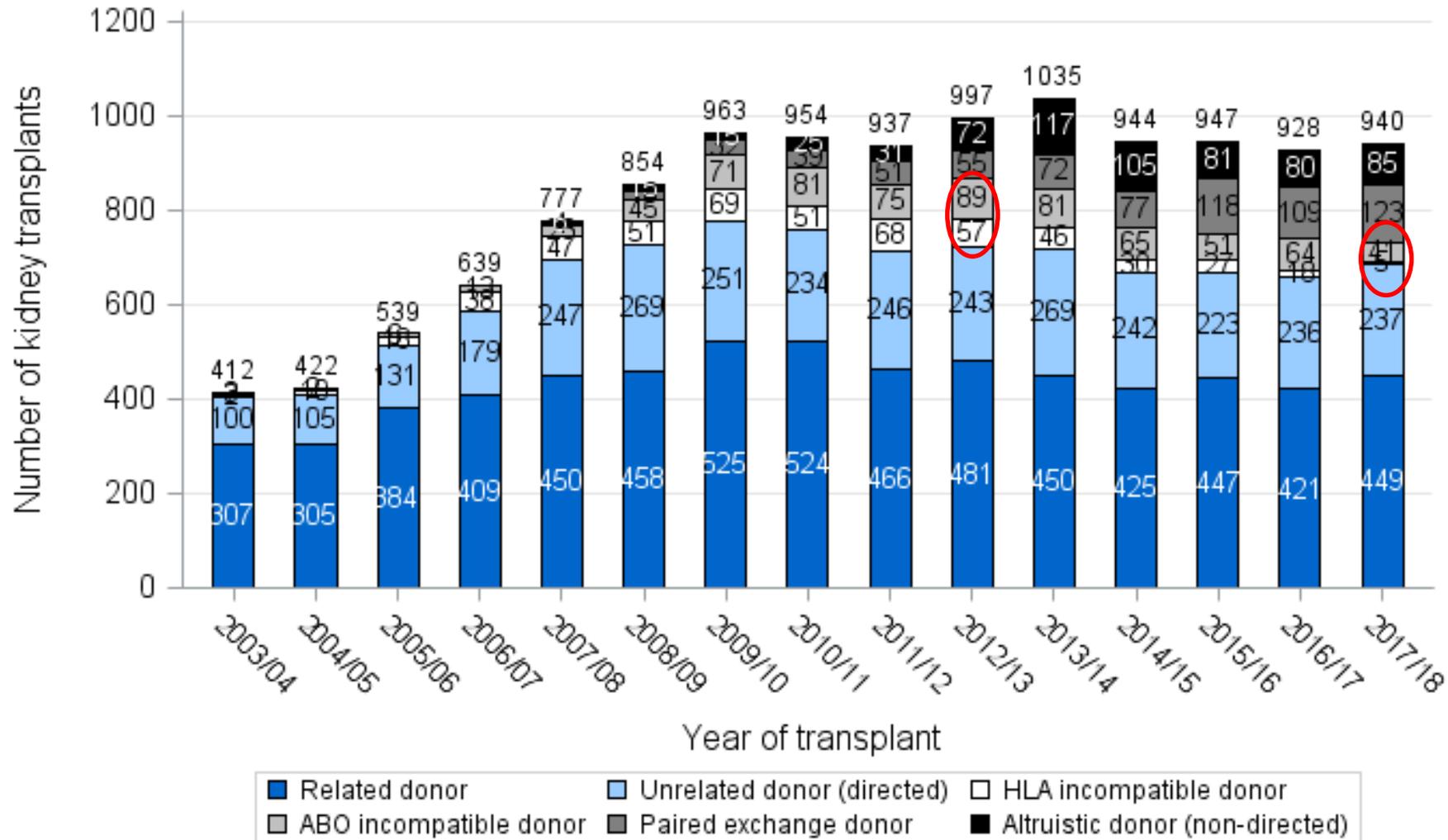
# Adult living donor transplants

Increasing complexity of living donor kidney transplantation



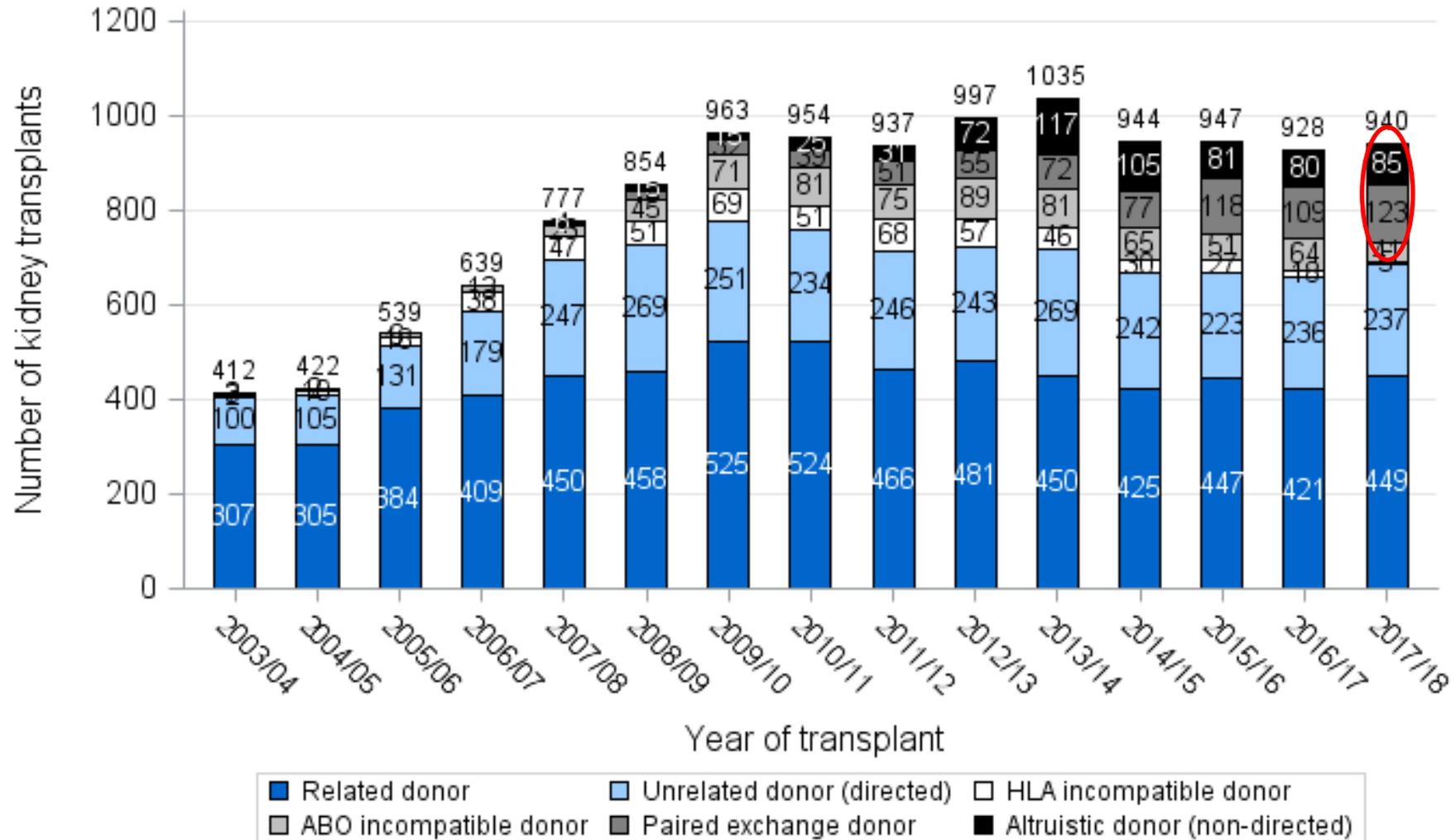
# Adult living donor transplants

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



# Adult living donor transplants

Rise in both paired and altruistic adult living donor kidney transplants



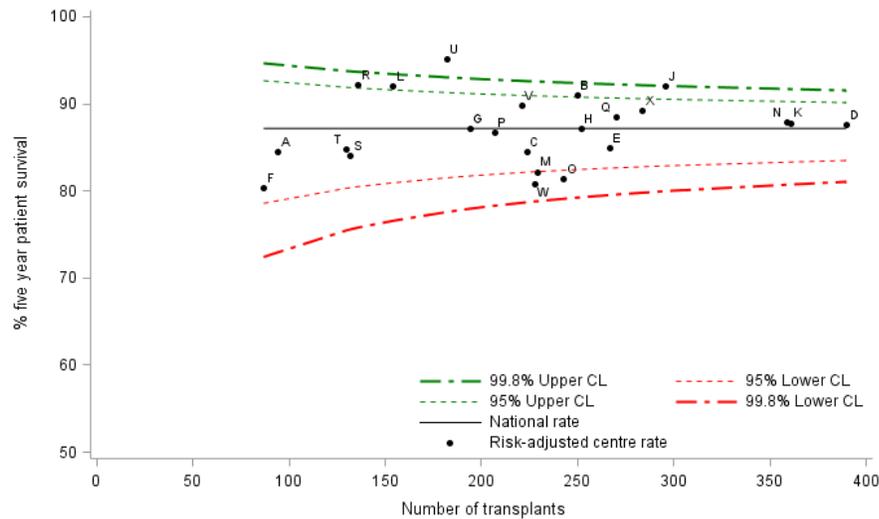
# Post transplant outcomes

# Deceased donor kidney transplant - Five year survival

Excellent post transplant outcomes – no outlying centres with poor survival

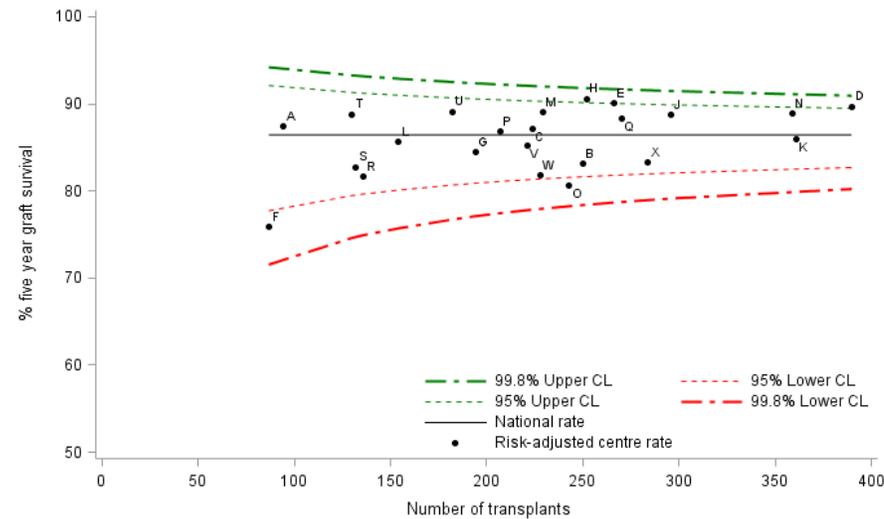
## Patient survival

Figure 6.4 Risk-adjusted five year patient survival rates for first deceased donor kidney transplants in adult patients, between 1 April 2009 and 31 March 2013



## Graft survival

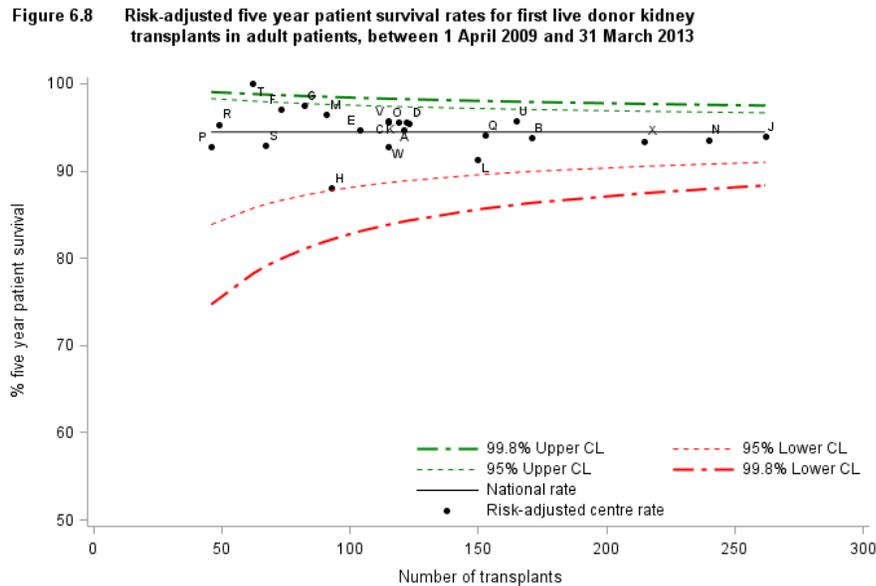
Figure 6.3 Risk-adjusted five year graft (death censored) survival rates for first deceased donor kidney transplants in adult patients, between 1 April 2009 and 31 March 2013



# Living donor kidney transplant - Five year survival

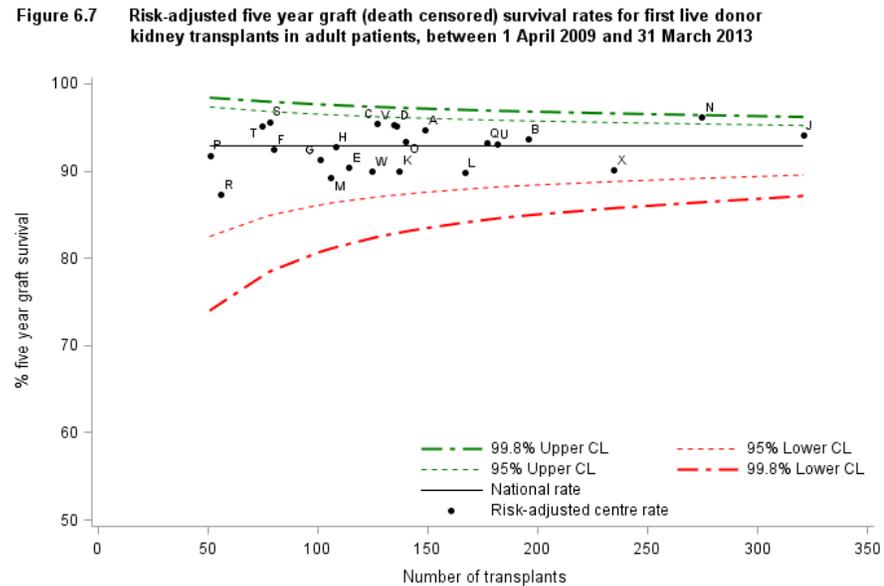
Excellent post transplant outcomes – no outlying centres with poor survival

## Patient survival



UK rate 94%

## Graft survival



UK rate 93%

# Summary

# Summary

## Total activity

- Deceased donors and transplants hit record high in 2017/18
- Numbers up again so far this year – 4% more DD, 1% more DD txs
  - 7% more DBD donors this year to date

## Kidney activity

- Adult kidney transplants – 42% DBD, 29% DCD, 29% LD
- 1% increase in DDKT this year, 1% fall in LDKT
- Median wait to kidney transplant falling - 25 months - and less variation by ethnicity, but centre variation remains (median 11 - 35 months)
- LDKT – fall in ABO and HLA incompatible transplantation
- Excellent post transplant outcomes with no outlying centres

Most figures from ODT Annual Report 2017/18 or Kidney Annual Report 2017/18

The screenshot shows the ODT Clinical website interface. 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 menu includes 'Home', 'Deceased donation', 'Living donation', 'Retrieval', 'Transplantation', 'Statistics and reports', 'Information for patients', and 'ODT structure & standards'. The 'Statistics and reports' menu is open, showing a list of reports: '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'. The 'Annual Activity Report' and 'Organ specific reports' items are circled in red. Below the navigation is a hero section 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

Rachel Hogg, Statistician, for help with slides



[www.odt.nhs.uk](http://www.odt.nhs.uk)