

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

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

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Statistics and Clinical Studies, NHS Blood and Transplant

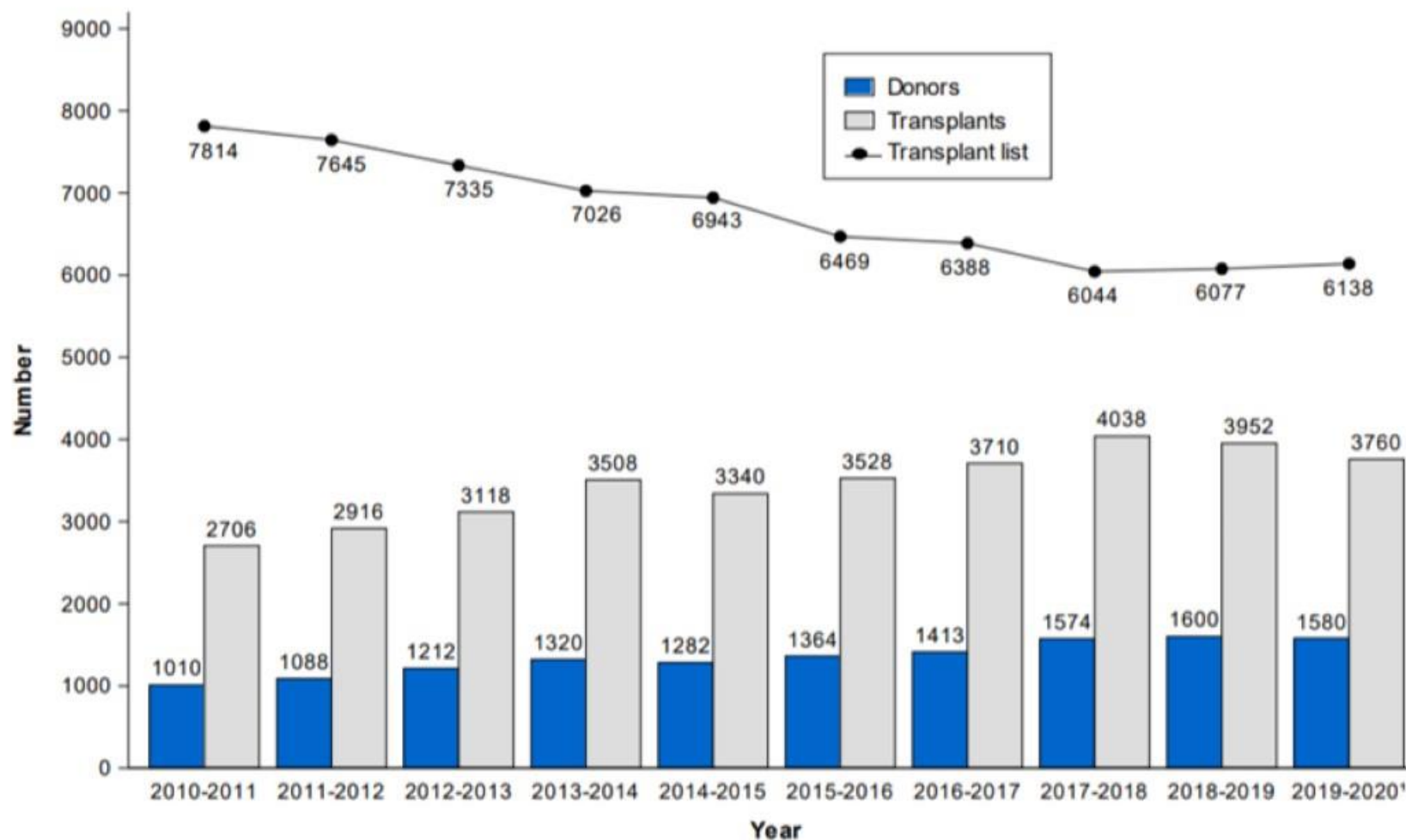
# Outline

- 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
- Focusing on COVID-19 era

# Trends in deceased organ donors and transplants

# Deceased donors and transplants

Small drop in the number of deceased donors in the UK last year - 1580 - resulting in 3760 transplants



<sup>1</sup> Waiting list as at 29 February 2020

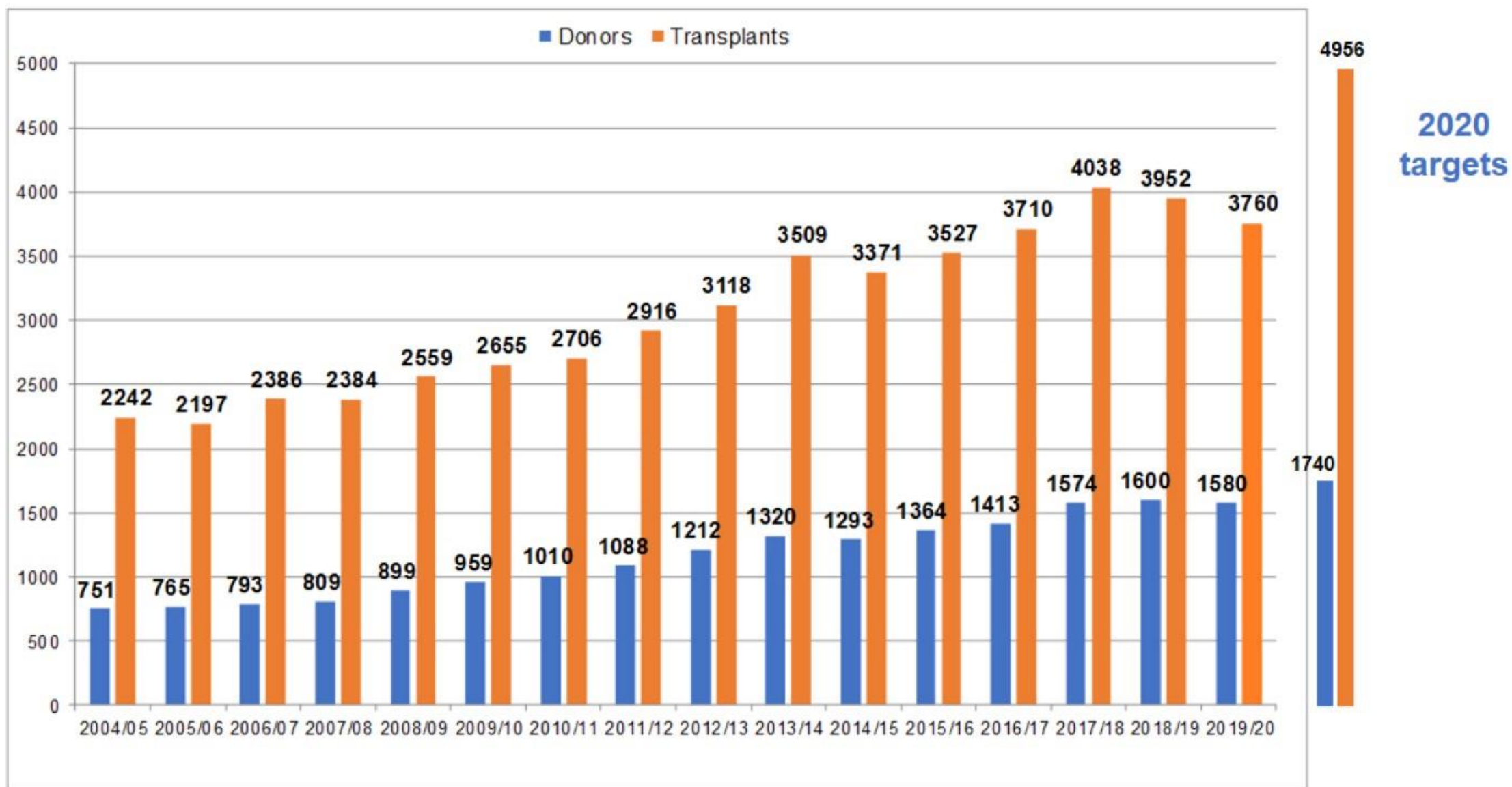
Over last 10 years

21% decrease  
in waiting lists

39% increase in  
transplants  
(all organs)

56% increase in  
deceased organ  
donors

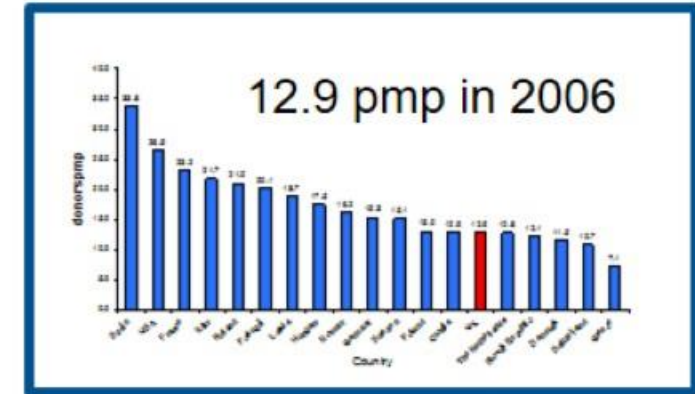
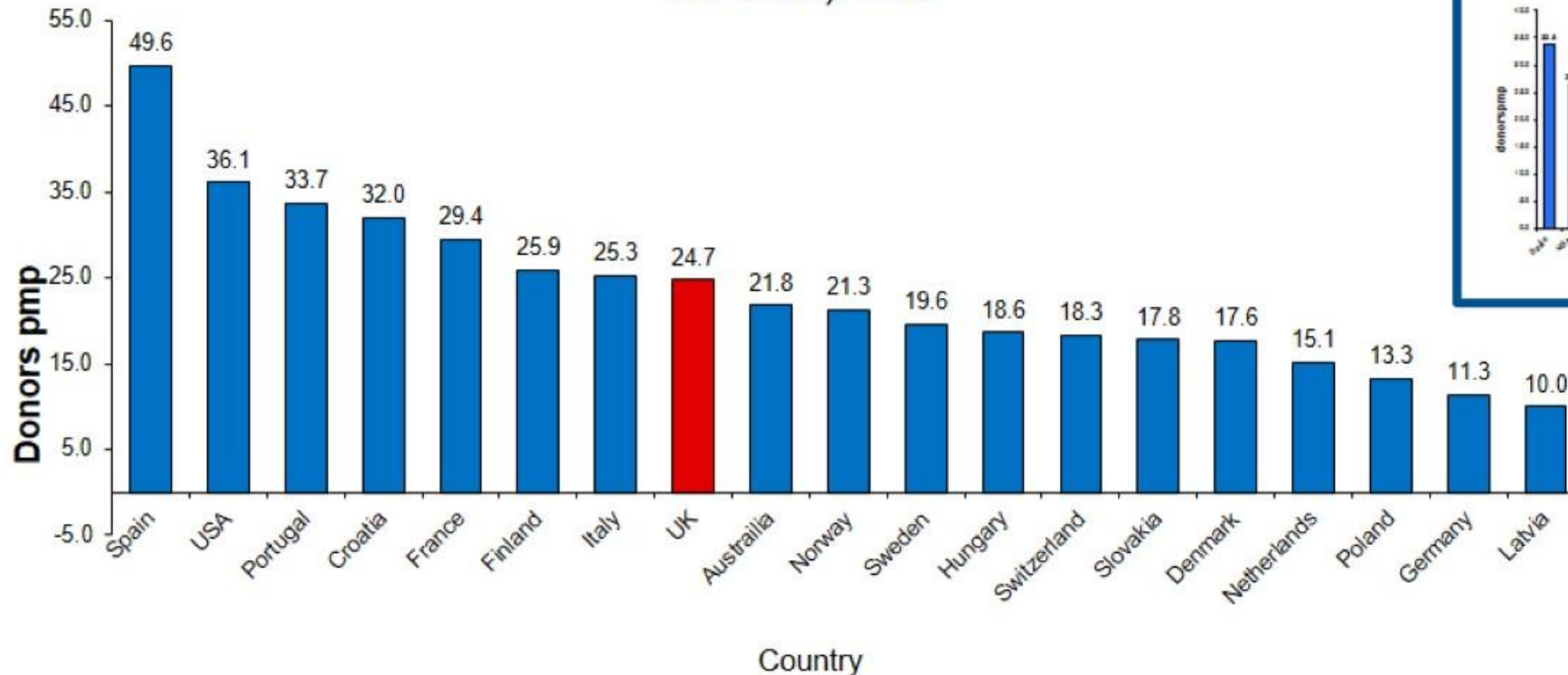
# UK Strategy – *Taking Organ Transplantation to 2020*





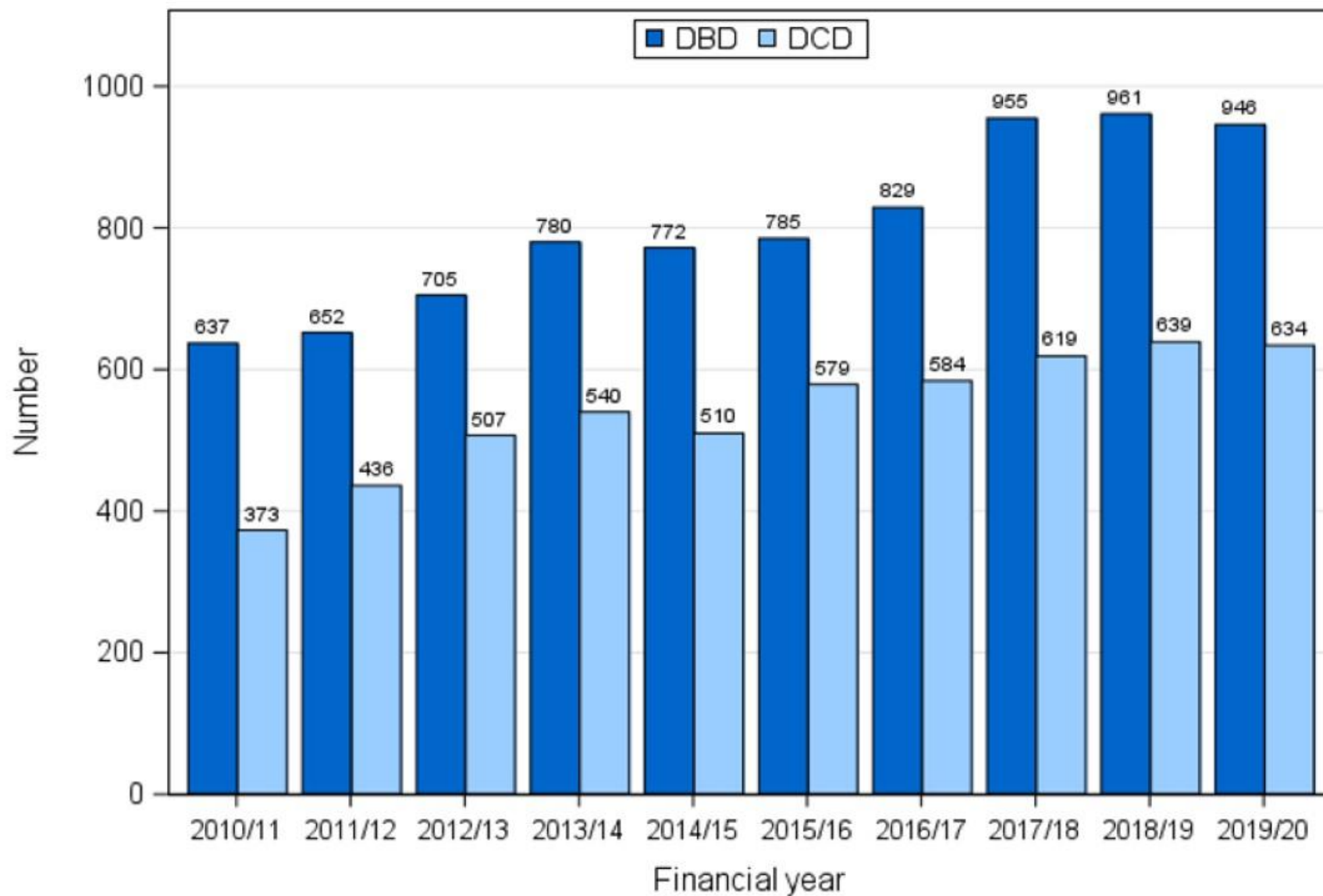
# International comparisons – Deceased donor rates in 2019

**Actual\* deceased organ donor rates for Europe, Australia and the USA, 2019**



\*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.

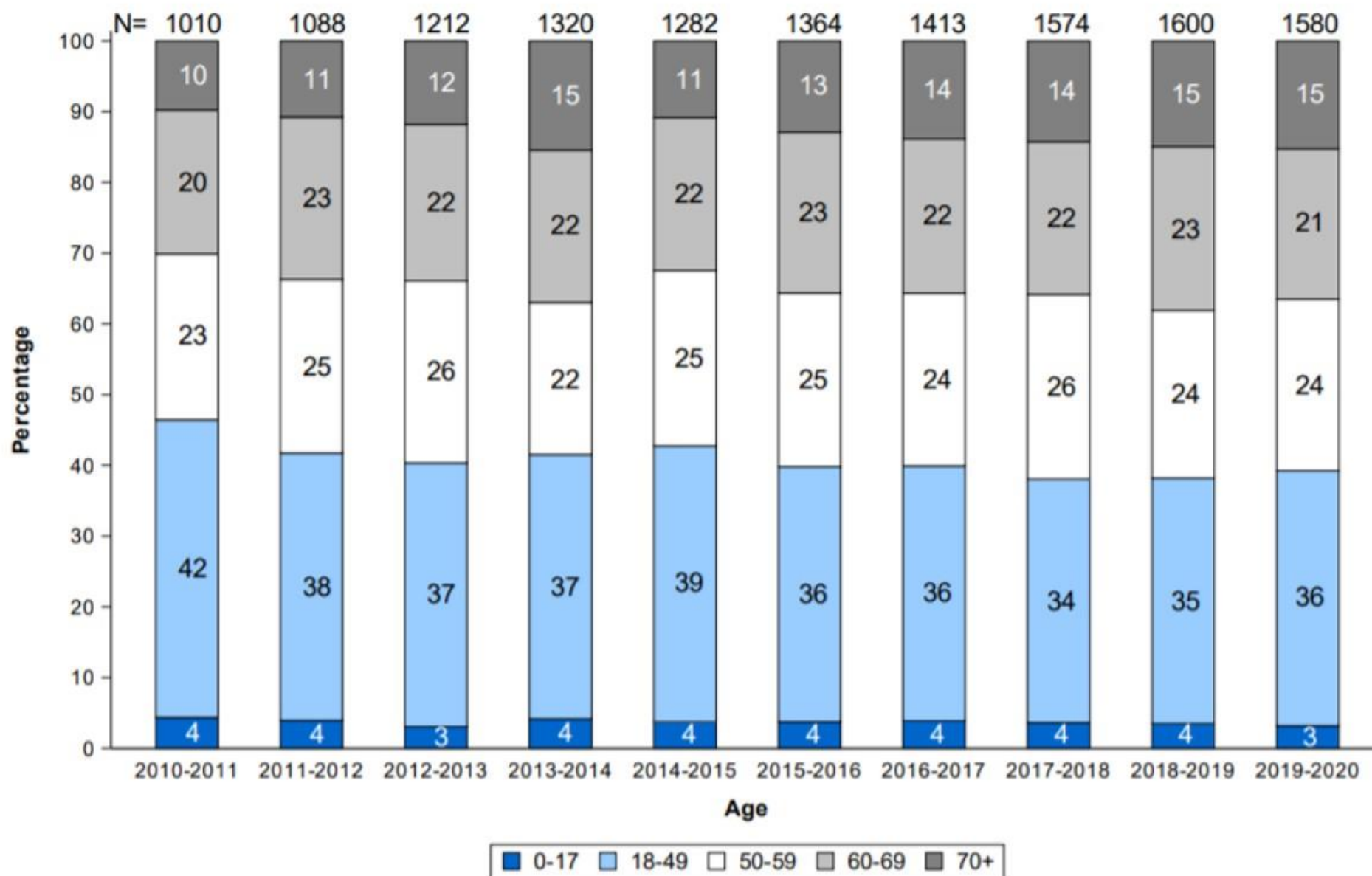
# DBD vs DCD donors



49% increase

70% increase

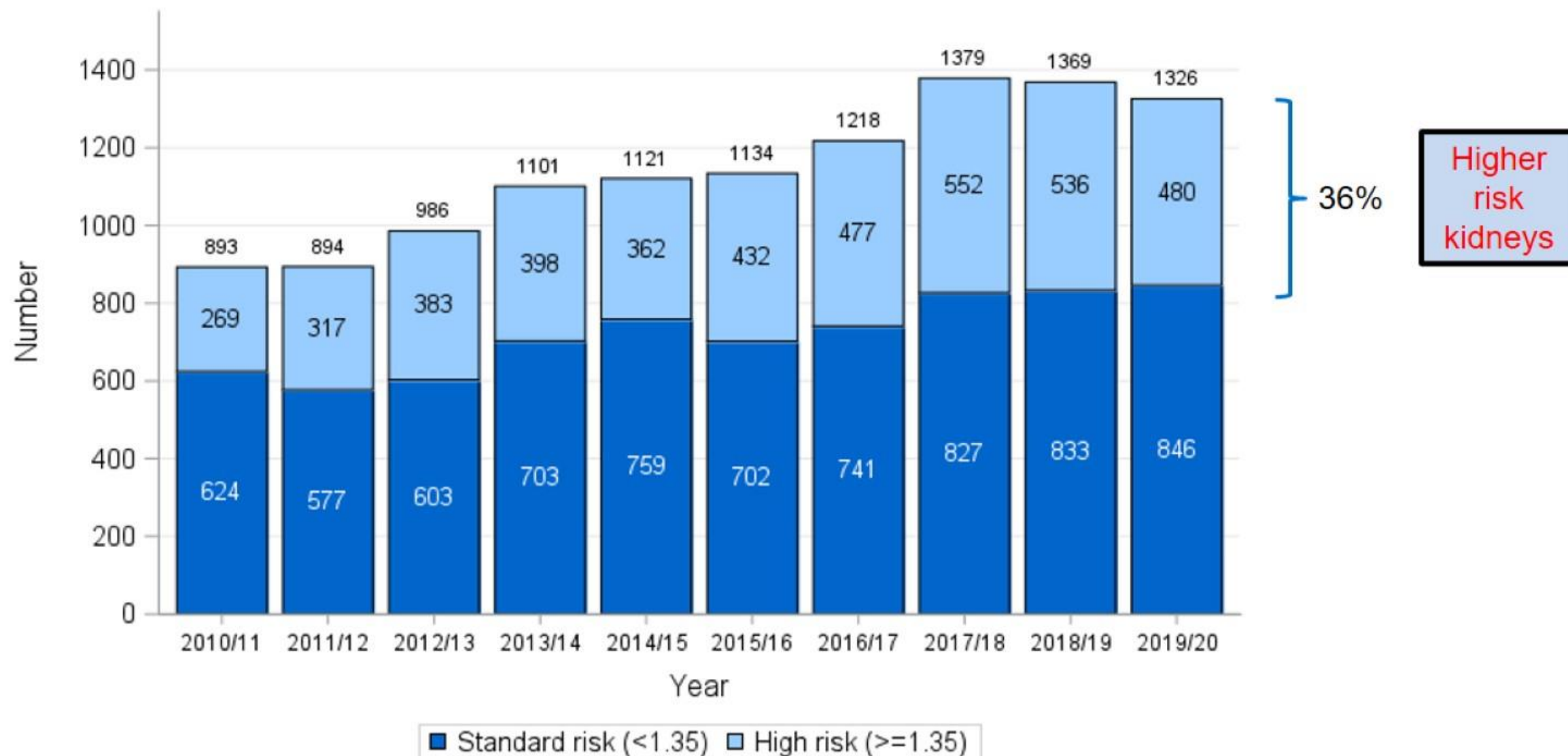
# Age of deceased donors



Increase in older donors group

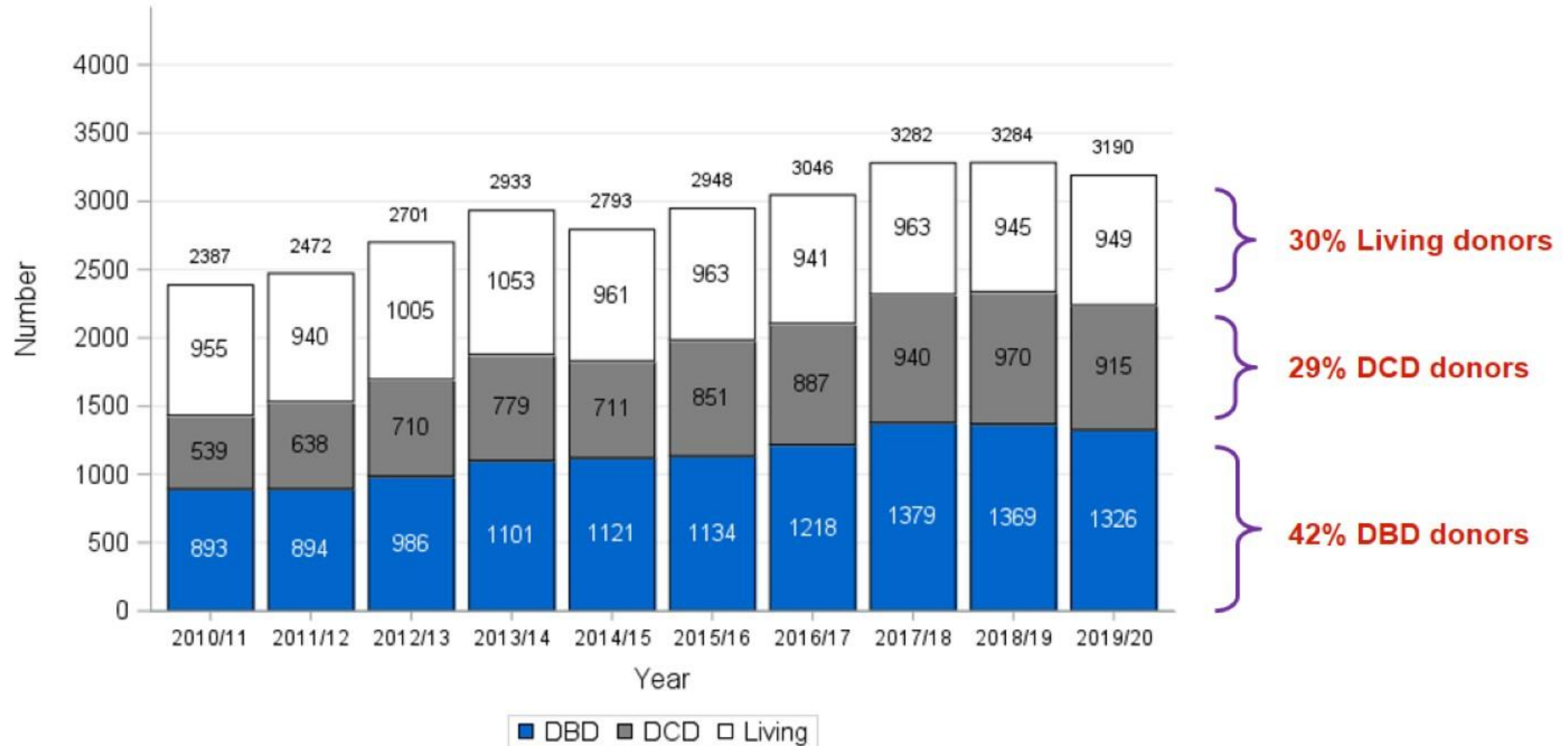


# UK Kidney Donor risk index of transplanted DBD kidneys

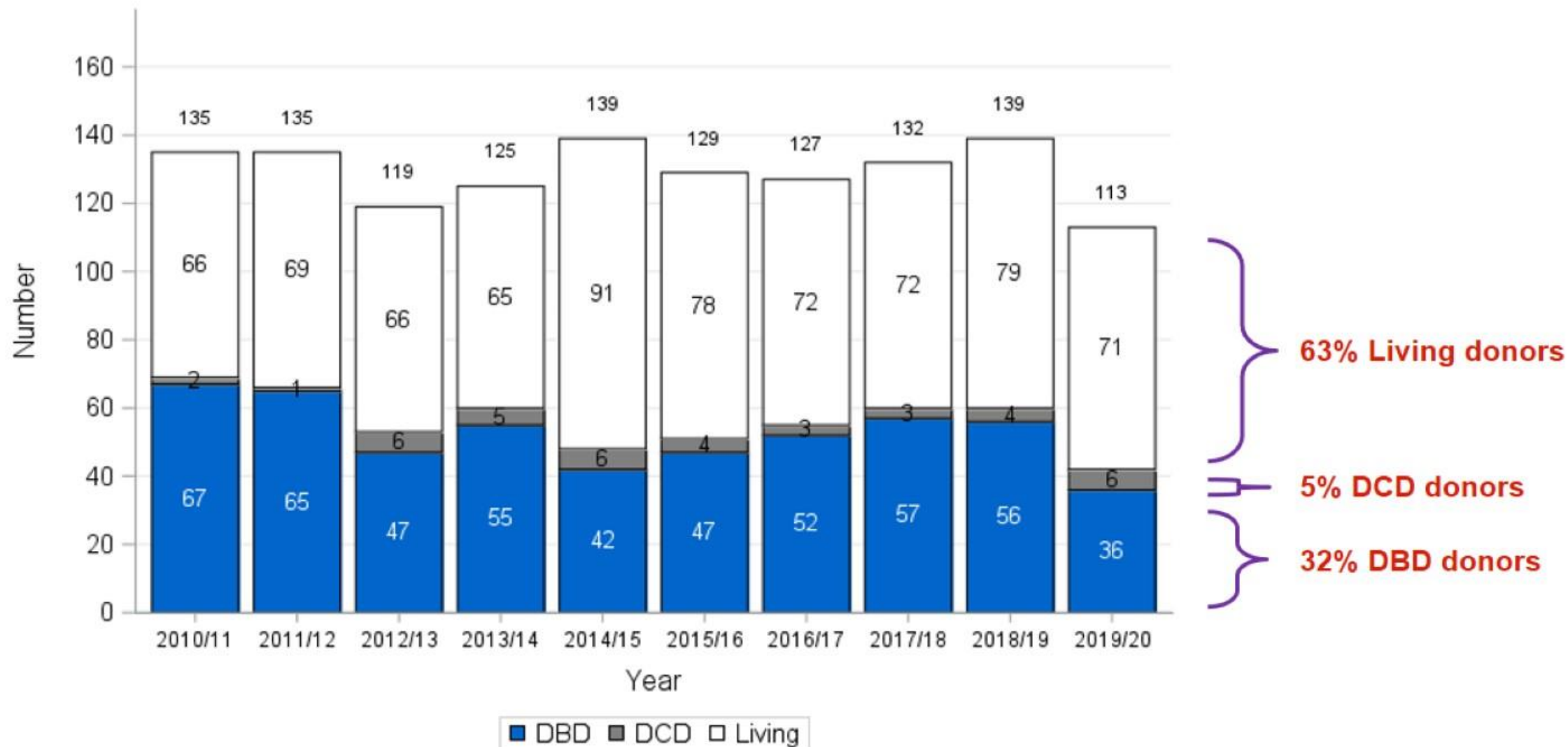


# Kidney transplantation in the UK

# Total adult kidney only transplants

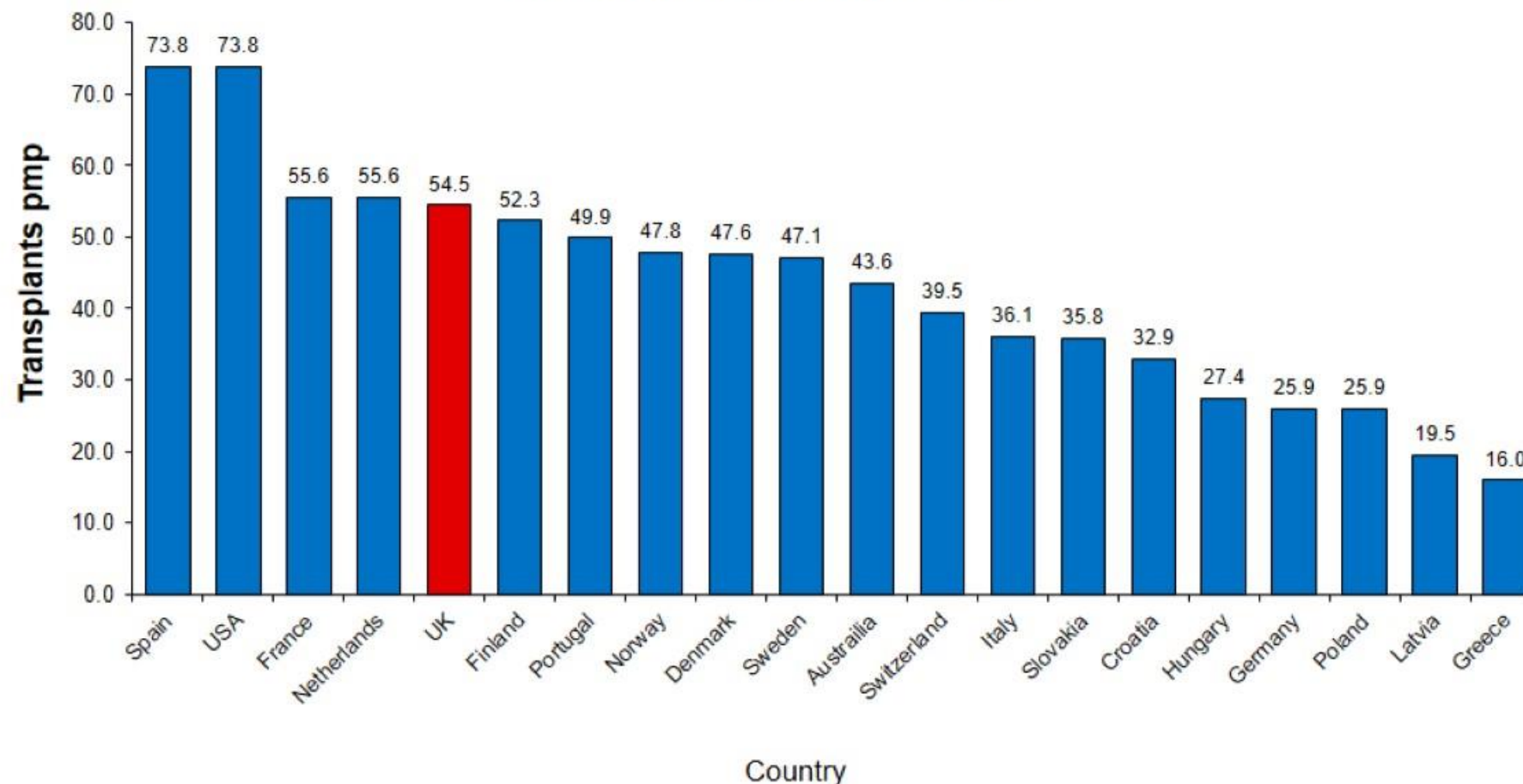


# Total paediatric kidney transplants



# Kidney transplant rates

Deceased and living donor kidney transplant rates for Europe, Australia and the USA, 2019

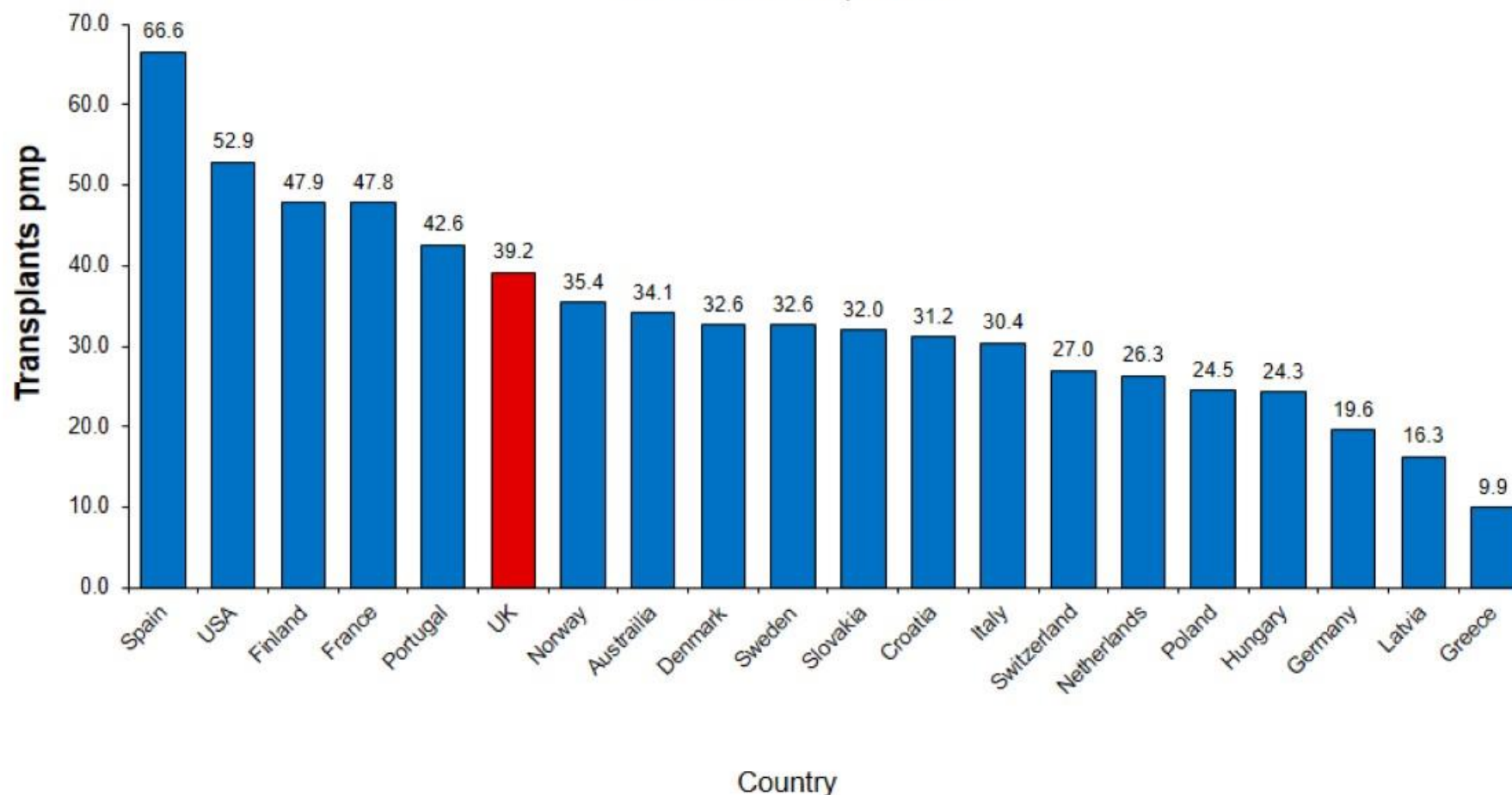




# Deceased donor kidney transplants

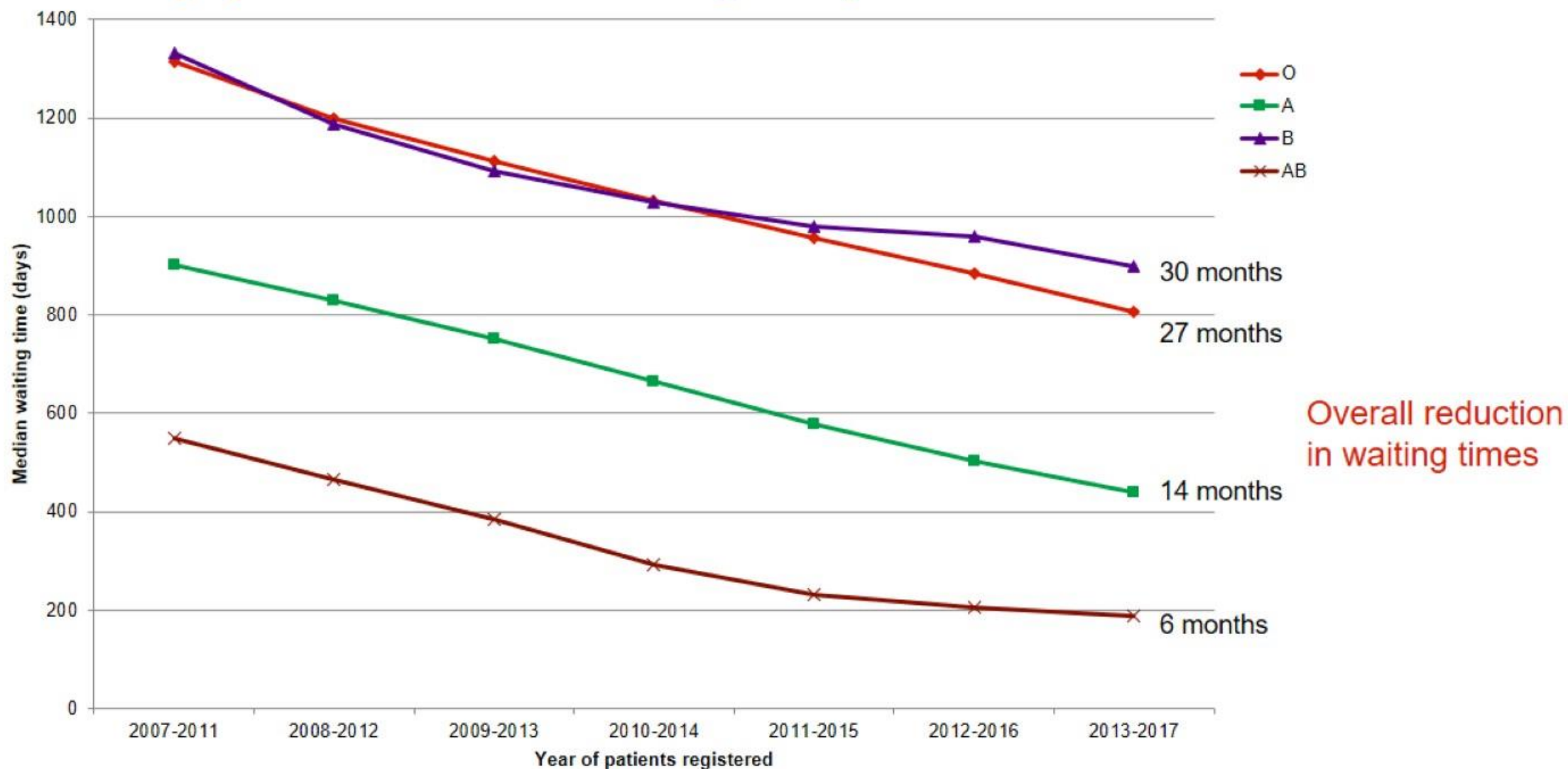
# Deceased donor kidney transplant rates

Deceased donor kidney transplant rates for Europe, Australia and the USA, 2019

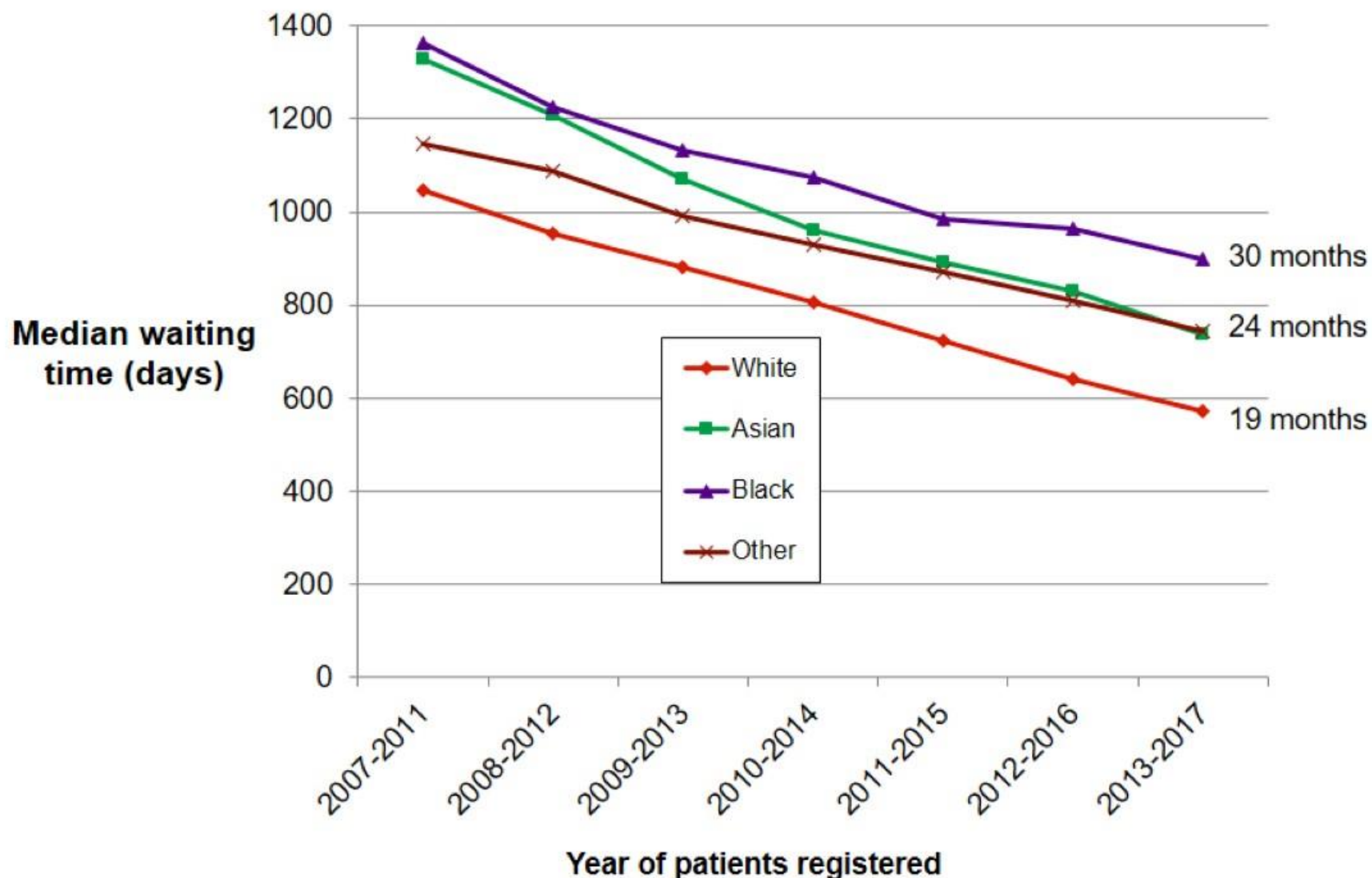


Source: Council of Europe – Transplant Newsletter

# Median waiting time to transplant for adult kidney patients – blood group



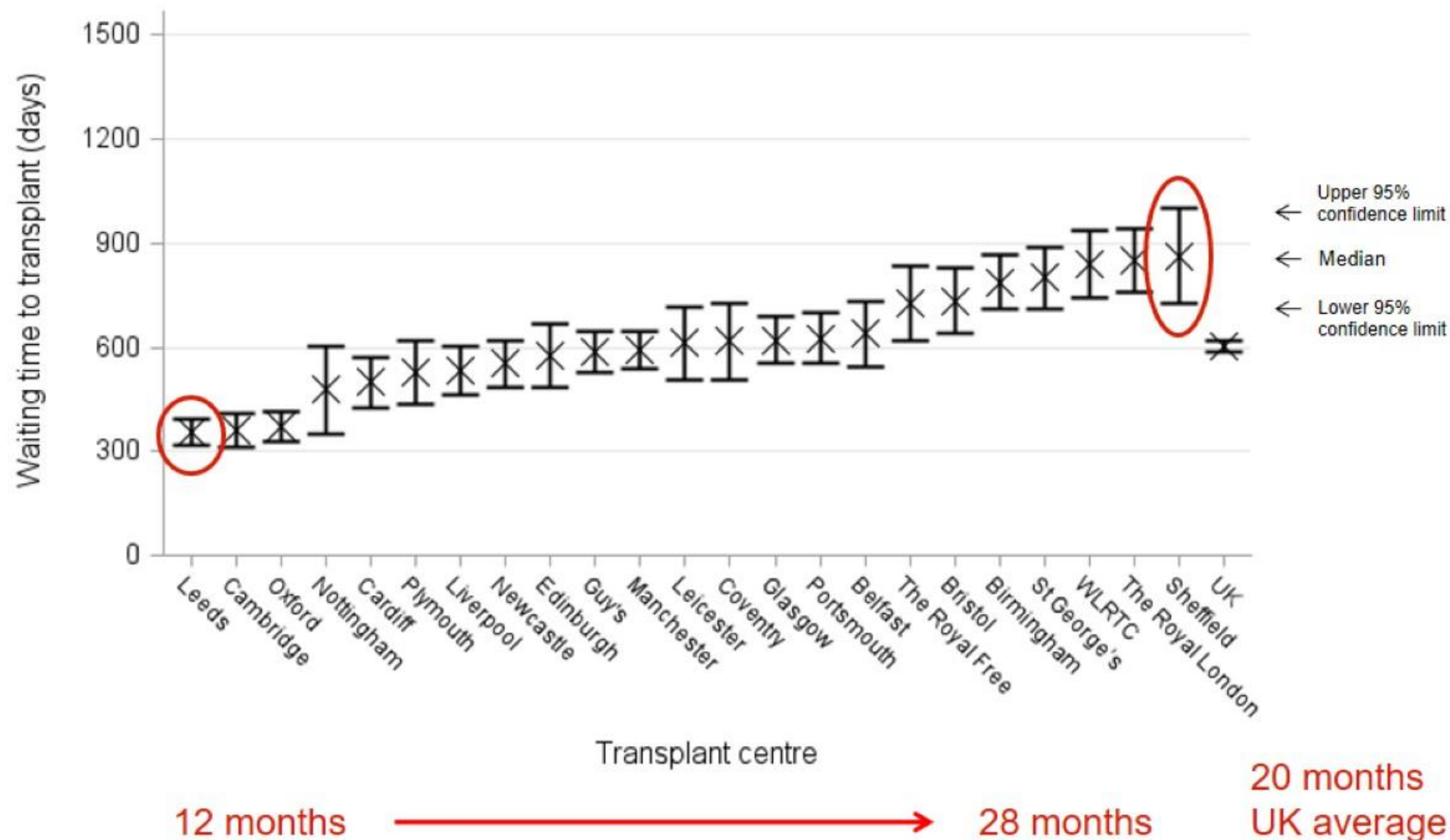
# Median waiting time to transplant for adult kidney patients - ethnicity



Overall reduction  
in waiting times

# Median waiting time to transplant – unadjusted

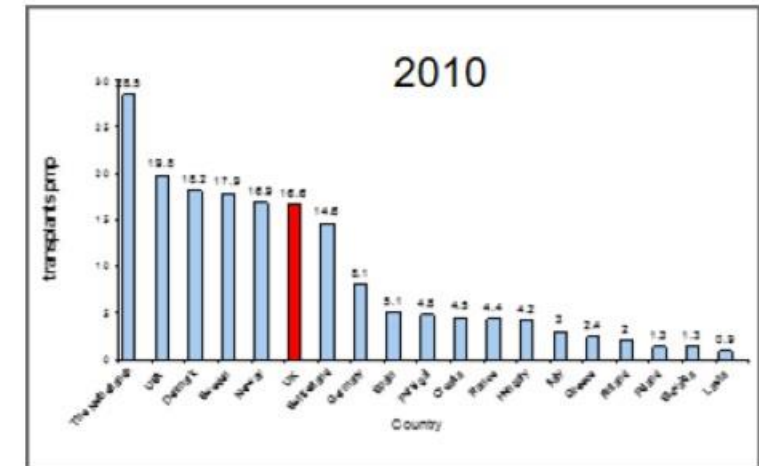
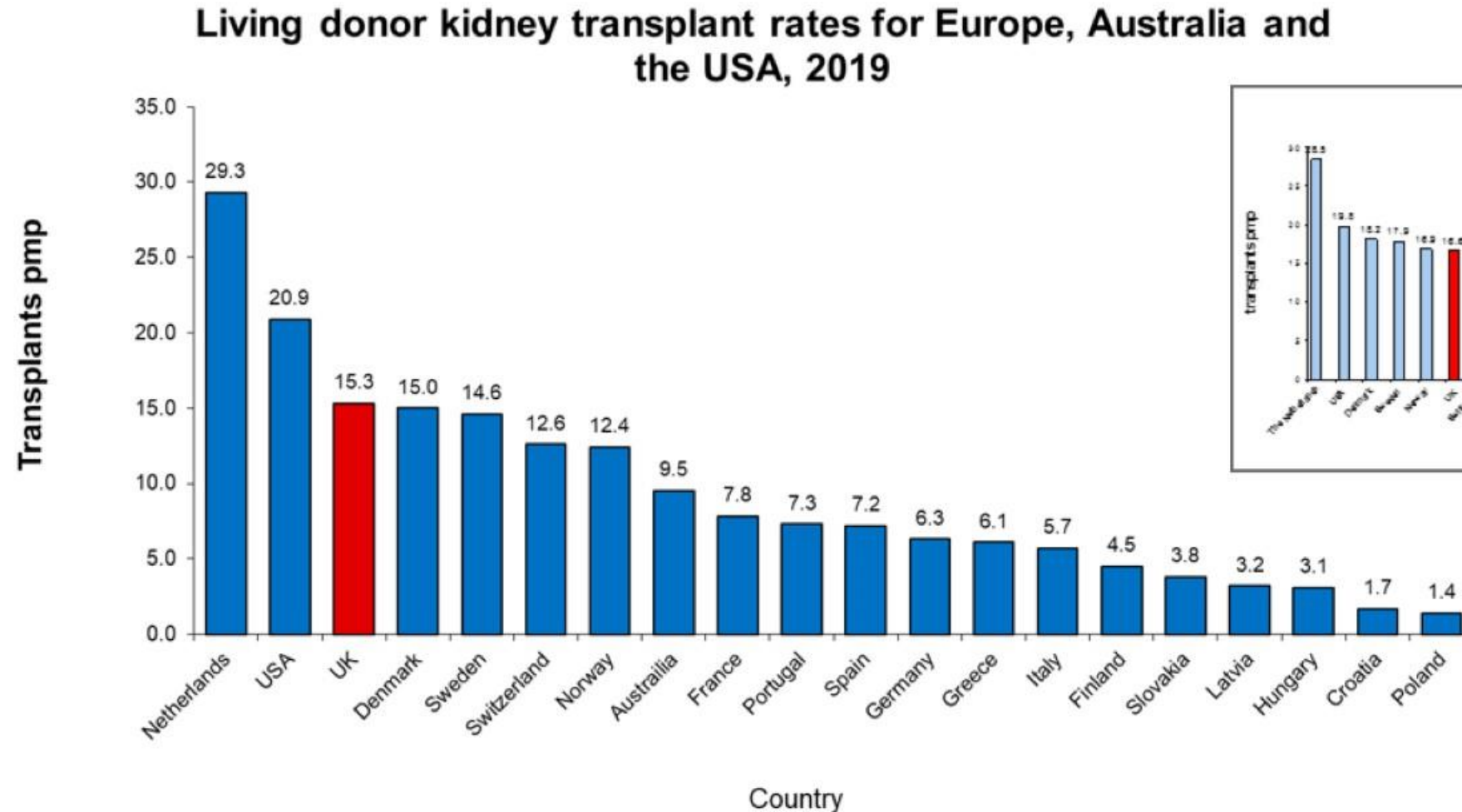
1 April 2014 – 31 March 2017





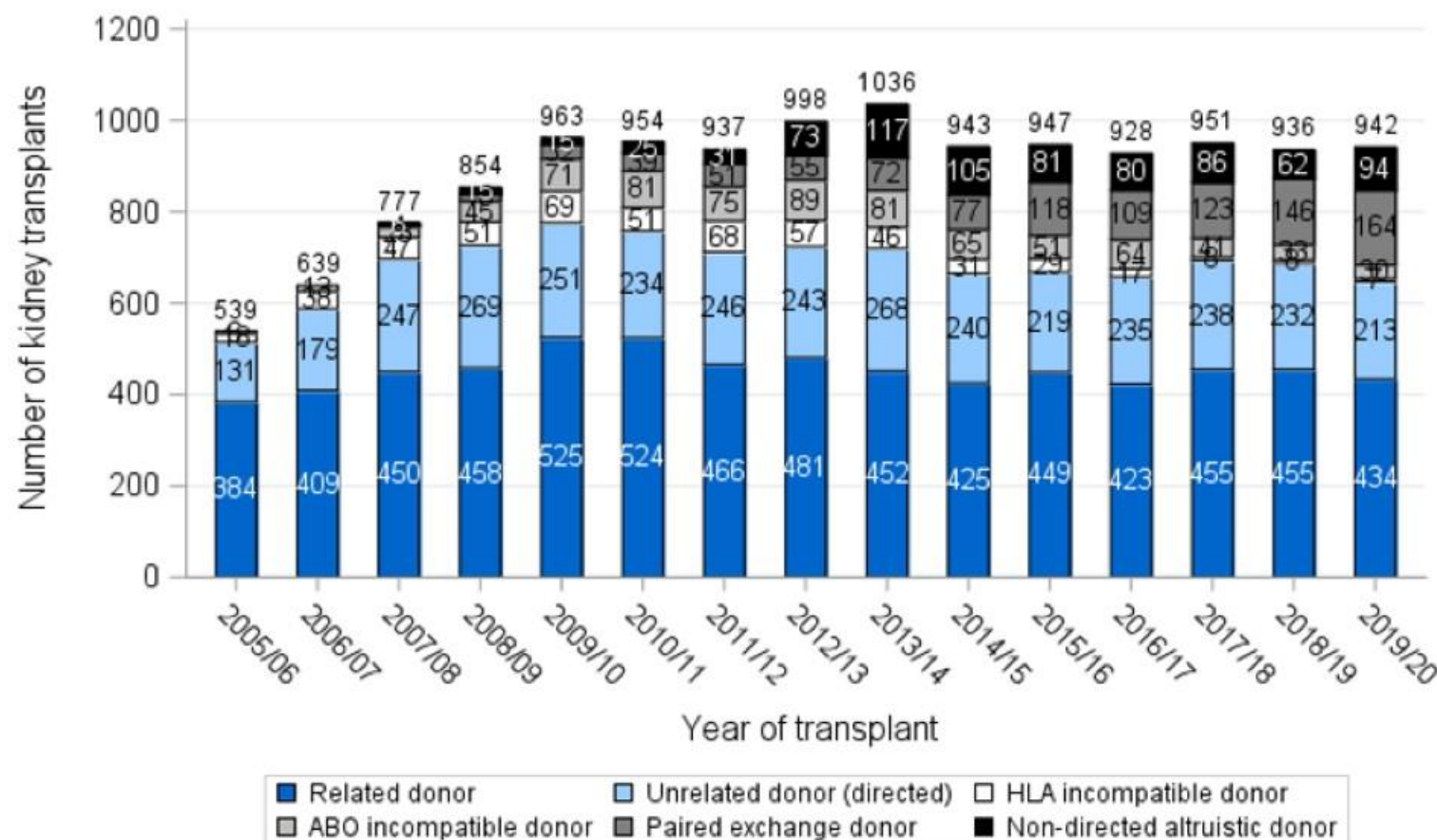
# Living donor kidney transplants

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



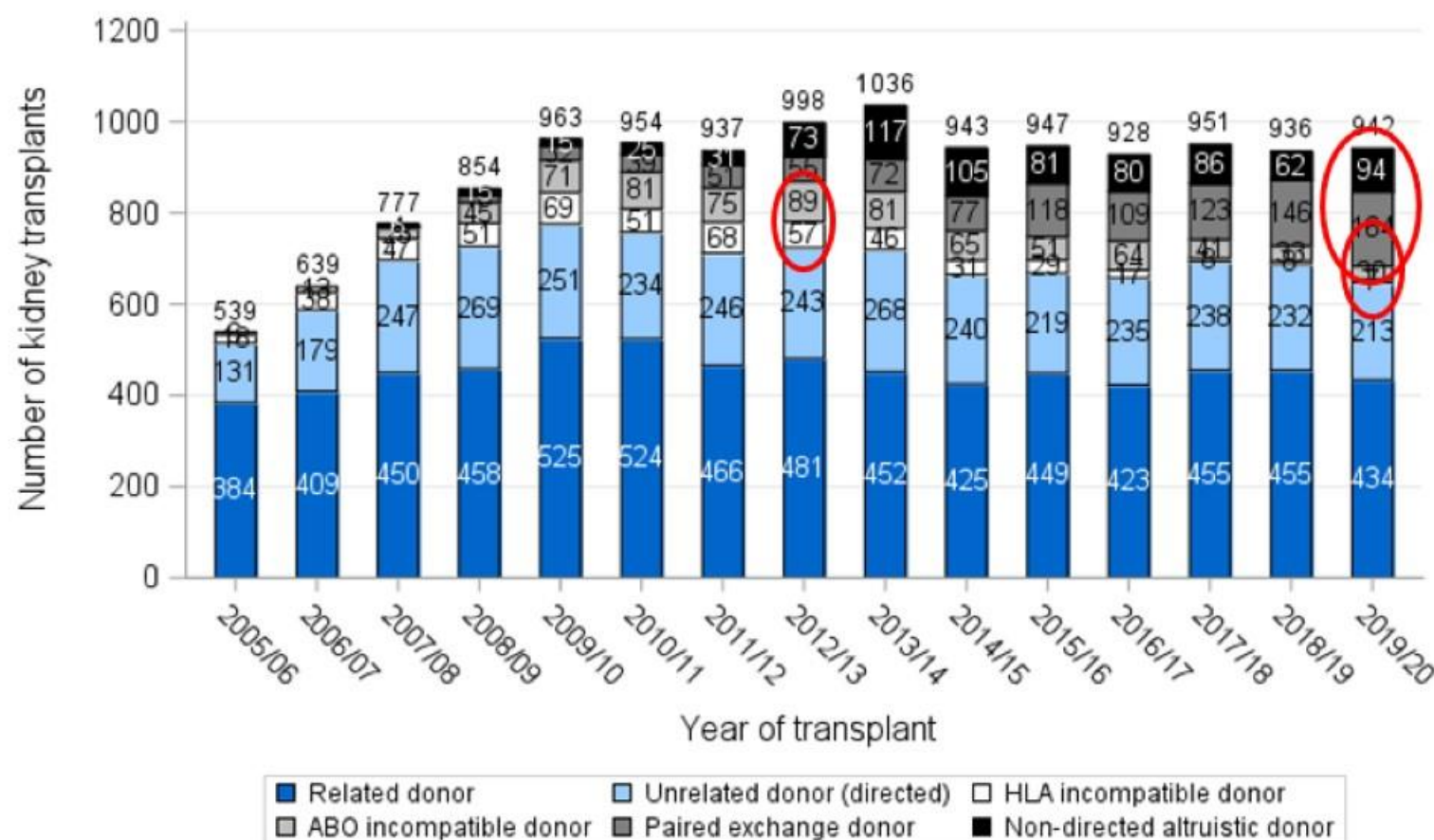
# Adult living donor transplants

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 linked to the growth in the sharing scheme – rise in paired and altruistic adult living donor kidney transplants



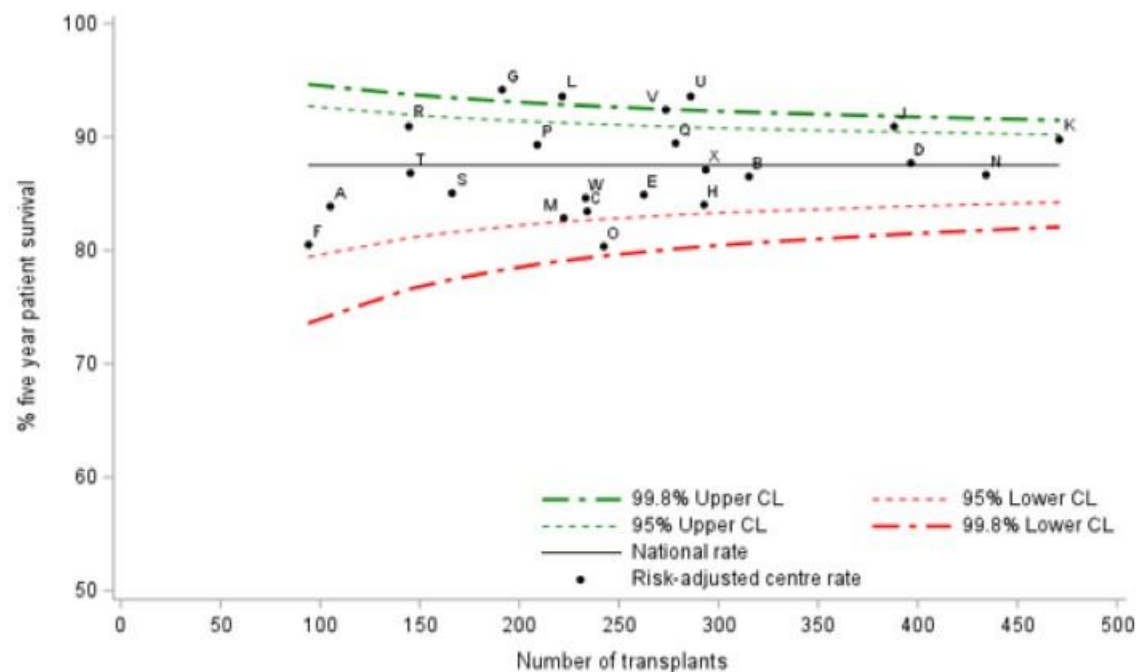
# Post transplant outcomes



# Deceased donor kidney transplant - Five year survival

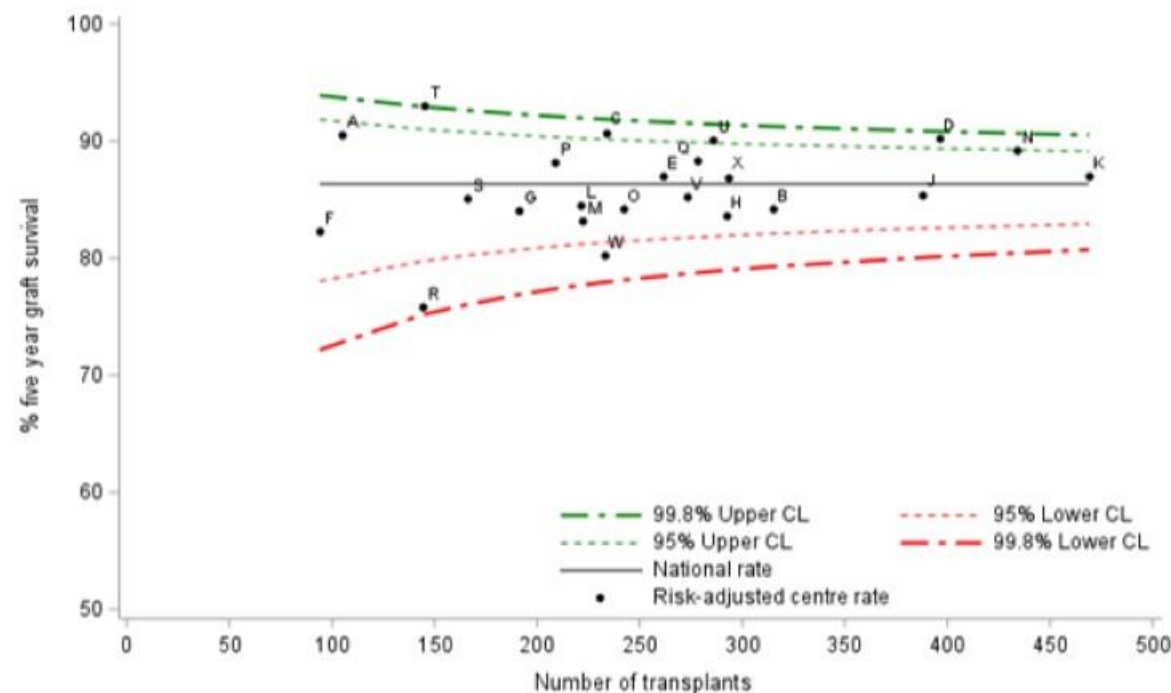
Excellent post transplant outcomes – no outlying centres with poor survival

Patient survival



UK rate 88%

Graft survival

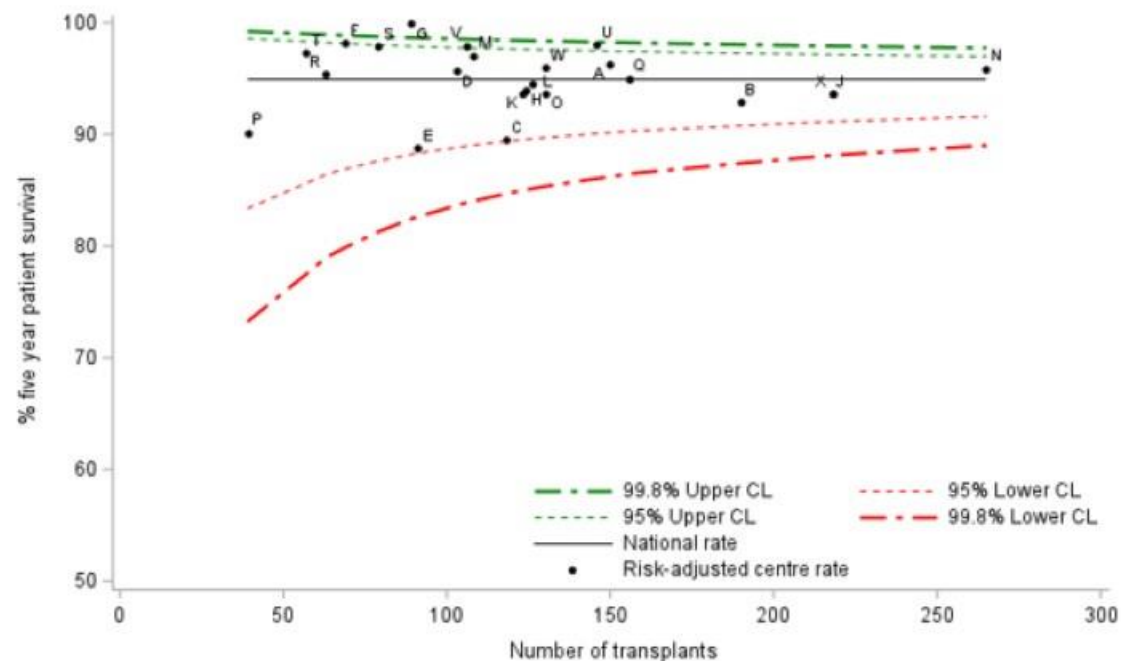


UK rate 86%

# Living donor kidney transplant - Five year survival

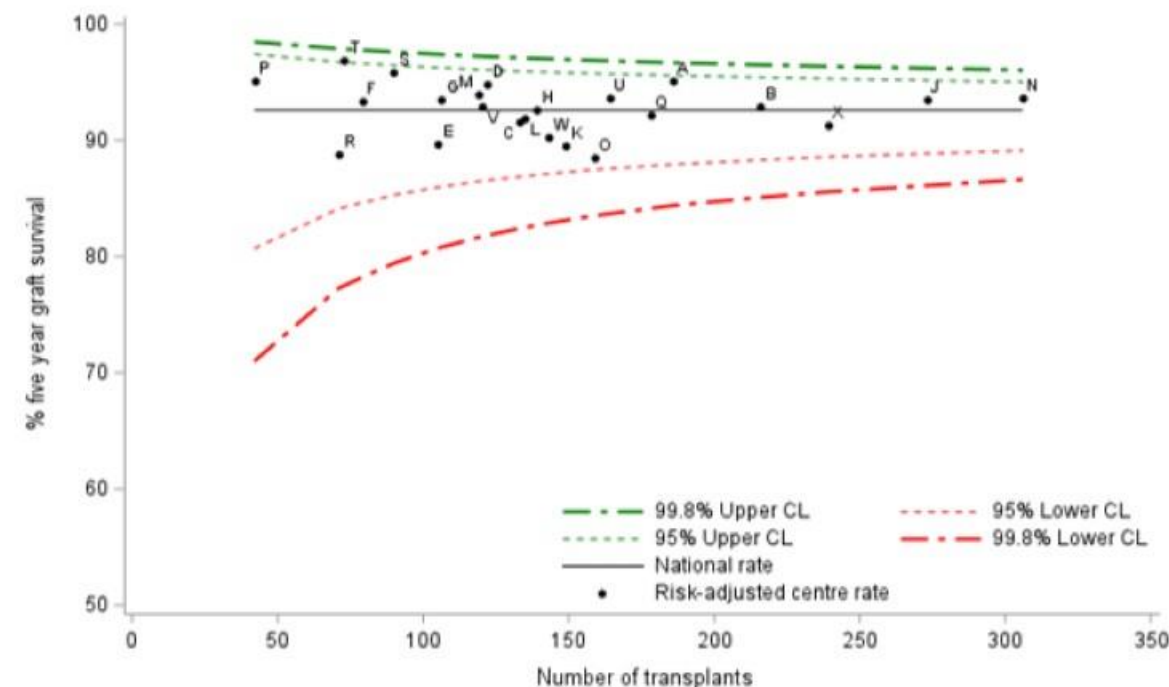
Excellent post transplant outcomes – no outlying centres with poor survival

Patient survival



UK rate 95%

Graft survival



UK rate 93%

# Activity during COVID-19

# Decrease in deceased donors

DONOR AND TRANSPLANT ACTIVITY			
	2020/21 Apr-Jan	2019/20 Apr-Jan	% Change*
ORGAN DONORS			
Donors after brain death (DBD)	598	737	-18.9
Donors after circulatory death (DCD)	303	504	-39.9
Total deceased donors (DD)	901	1241	-27.4

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

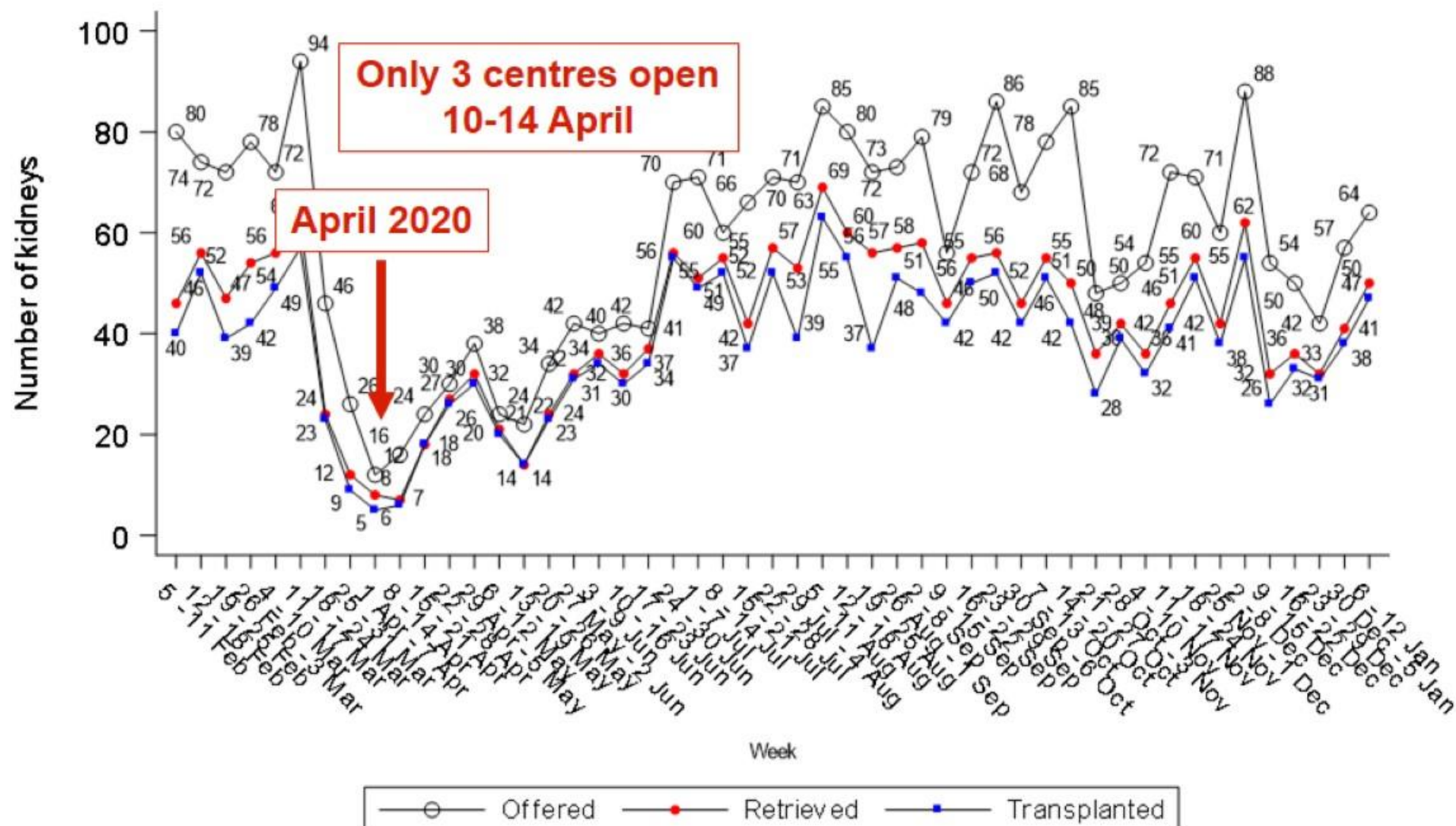
# Kidney transplant rates this year?

DONOR AND TRANSPLANT ACTIVITY			
	2020/21 Apr-Jan	2019/20 Apr-Jan	% Change <sup>2</sup>
ORGAN TRANSPLANTS			
Deceased donors (DD)			
Kidney	1413	1793	-21.2
Pancreas	3	11	
Kidney/pancreas <sup>7</sup>	64	130	-50.8
Pancreas islets	6	19	
Heart <sup>6</sup>	129	128	0.8
Lung(s)	65	124	-47.6
Heart/lung	2	5	
Liver/lobe <sup>6</sup>	579	707	-18.1
Intestinal	12	15	-20
Other (multi-organ)	7	17	
Total DD transplants	2280	2949	-22.7
Living donor (LD) - 1 mth in arrears <sup>4</sup>			
Kidney	277	721	-61.6
Liver	18	14	28.6
Lung	0	0	
Intestinal	0	0	
Total LD transplants	295	735	-59.9



# Kidneys from UK deceased donors offered, retrieved, and transplanted

5 February 2020 – 12 January 2021

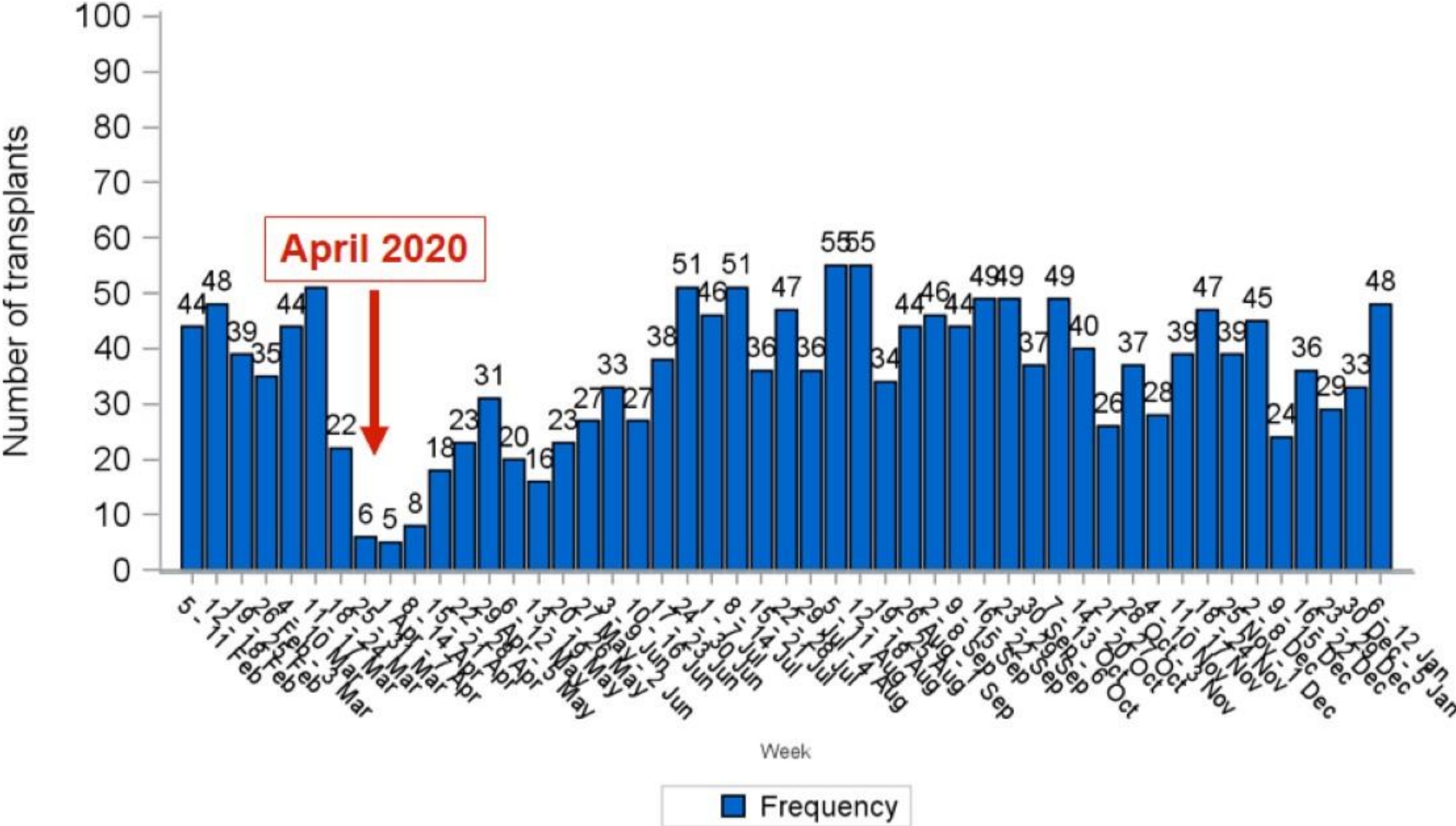


# UK deceased donor kidney transplants

5 February 2020 – 12 January 2021

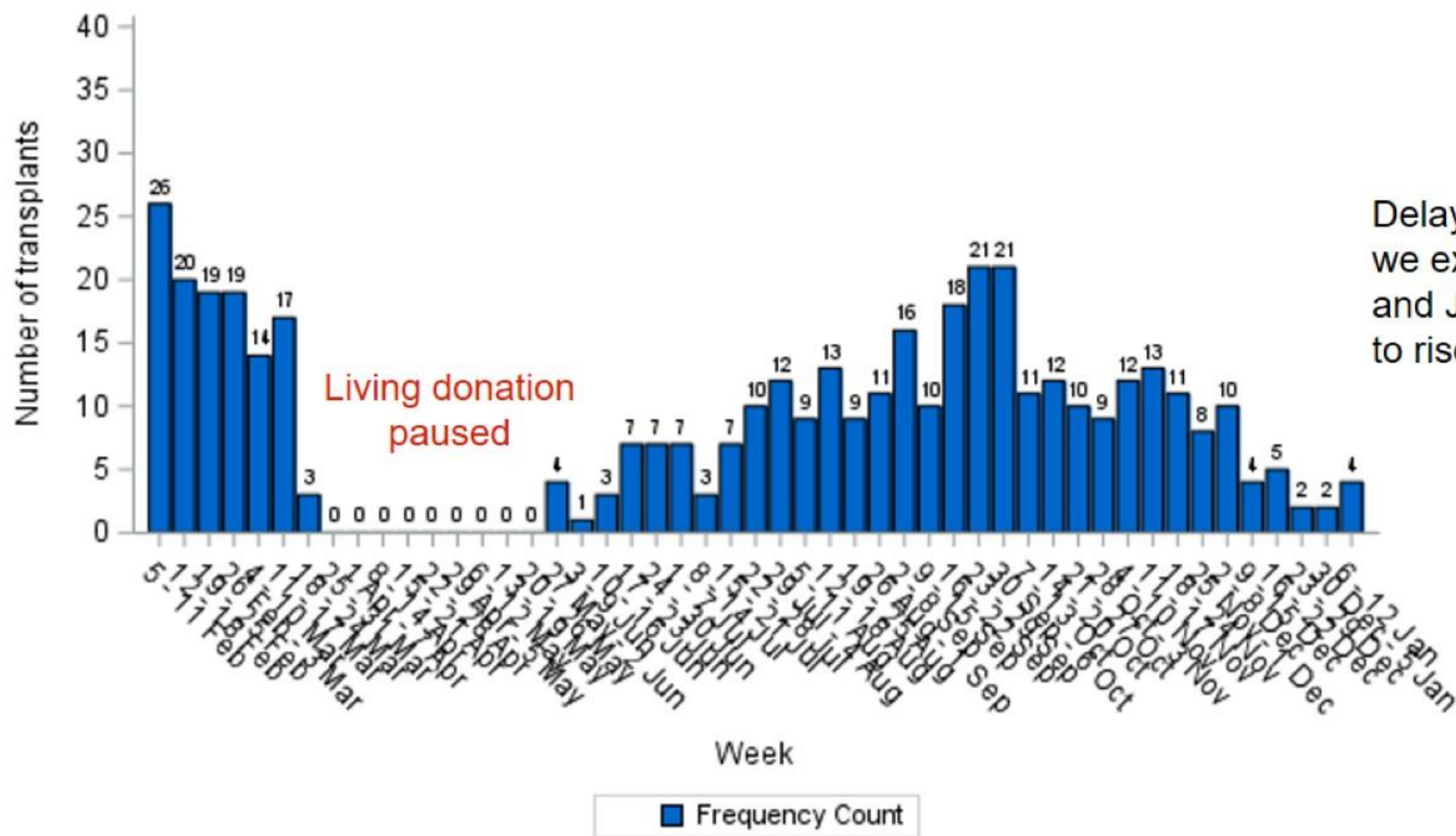


Blood and Transplant



# UK living donor kidney transplants

5 February 2020 – 12 January 2021

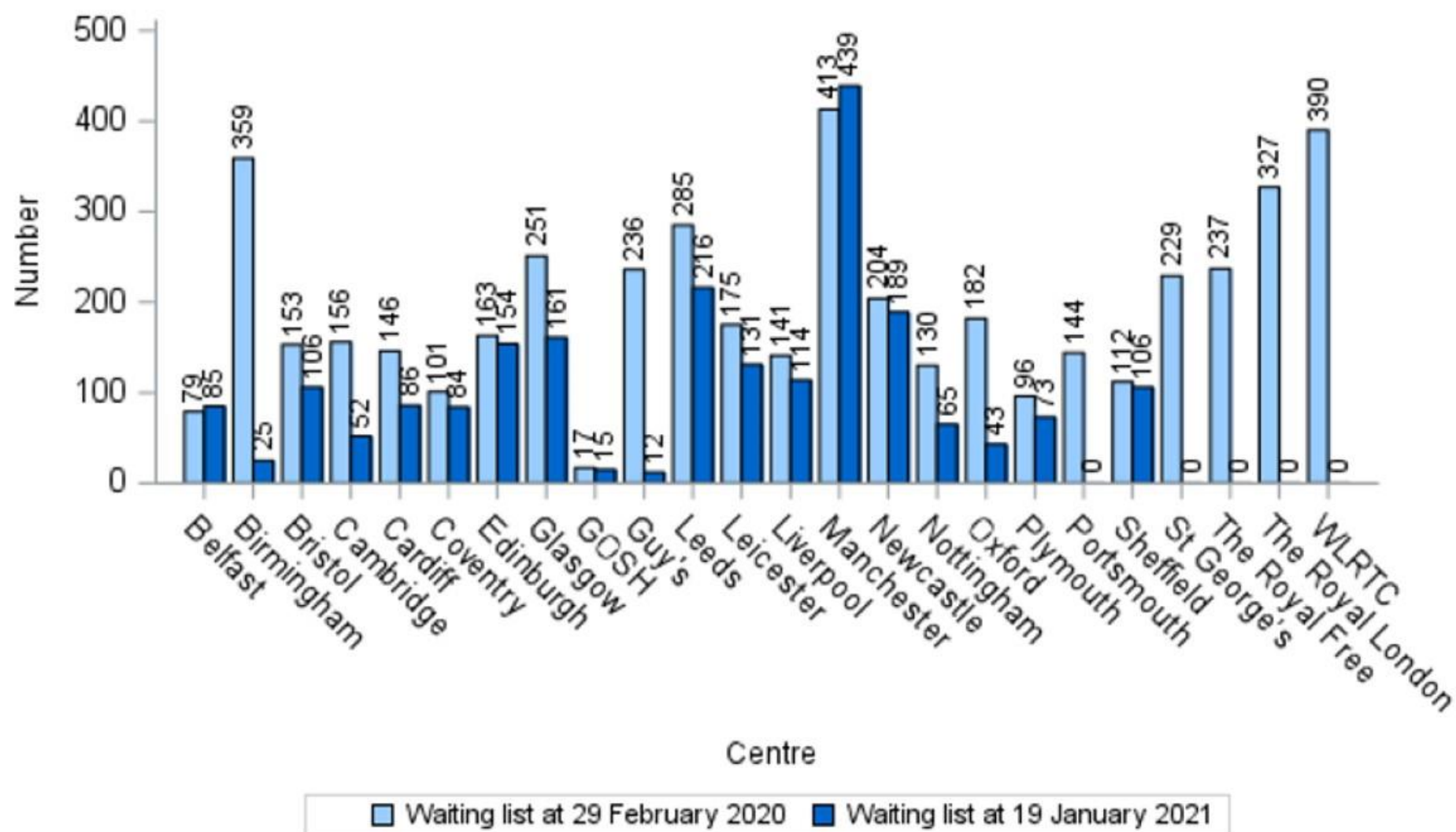


Delayed reporting - we expect December and January figures to rise



# Active kidney waiting list, by centre

29 February 2020 and 19 January 2021

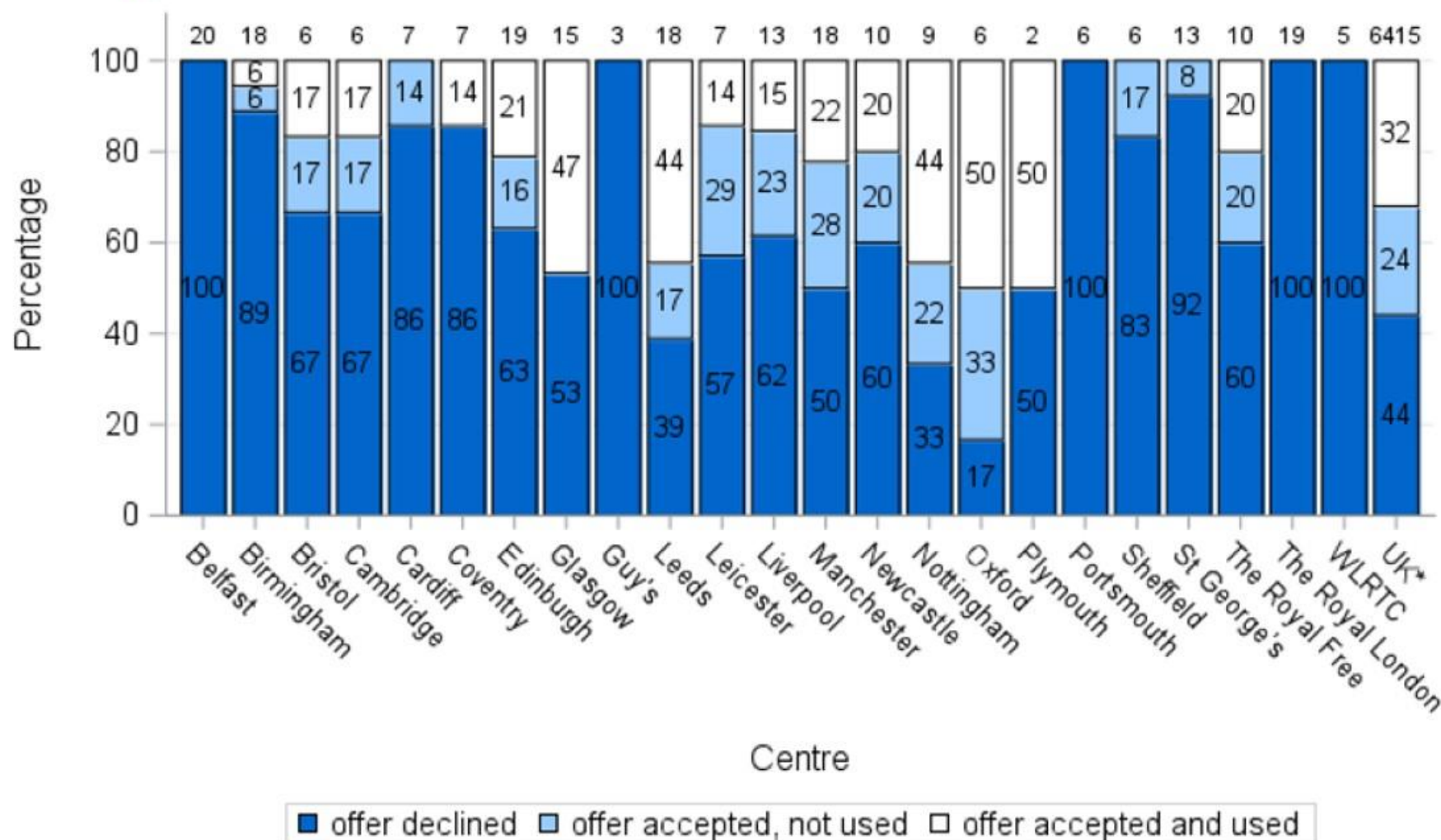


Currently  
46% of WL  
in February

# Adult deceased donor kidney offer decline rates, by centre

4 – 10 January 2021

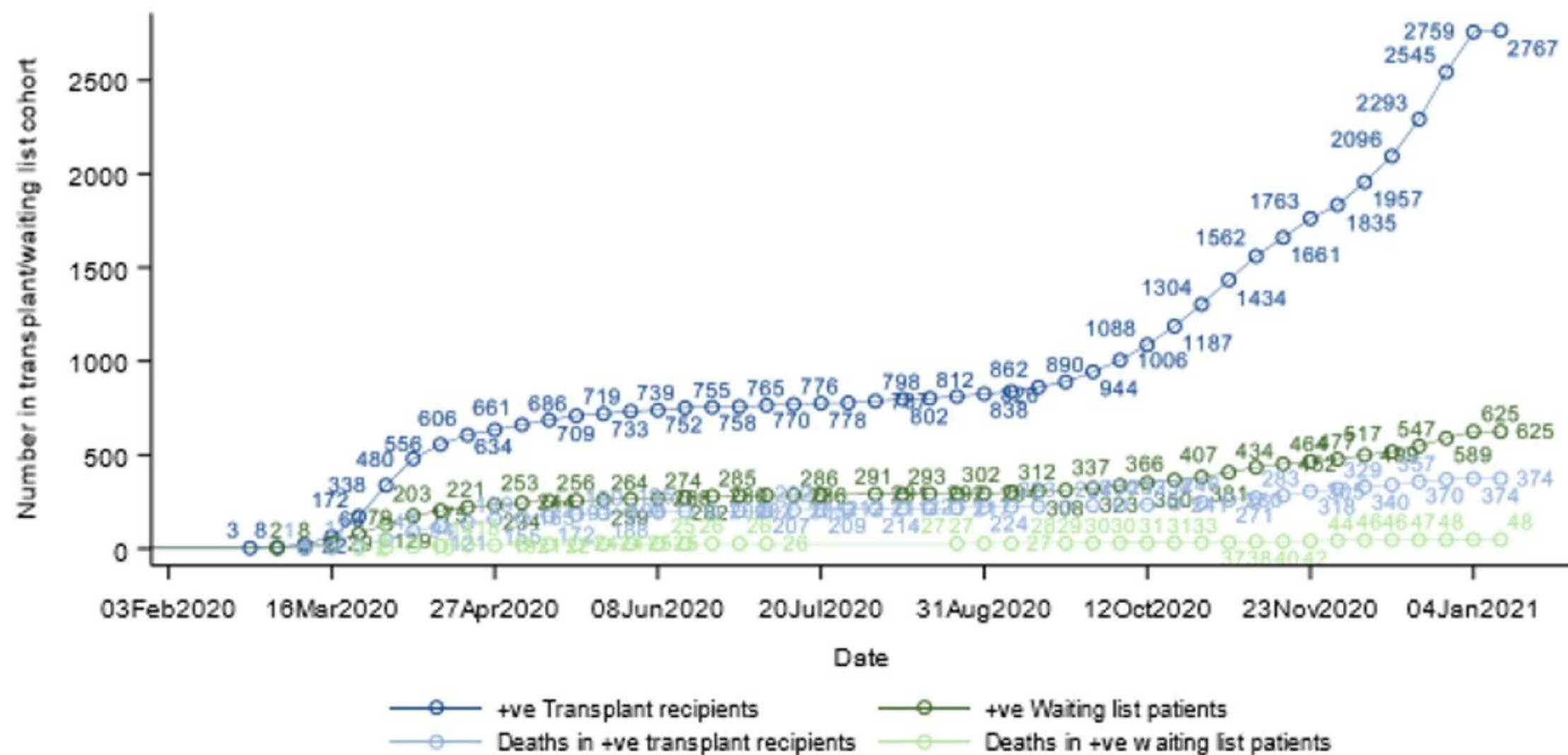
Some centres are still open but are not accepting any offers



\*UK comparison data is for the period 1 April 2019 - 29 February 2020



# Incidence of SARS-Cov-2 Transplant patients



# Summary

# Summary

## Total activity

- There was a decrease in the number of deceased donors and the number of transplants in 2019/20

## Kidney activity

- COVID-19 led to centre closures and pausing of all living donor activity during April and May
- Adult kidney transplants – 42% DBD, 29% DCD, 30% LD
- 21% decrease in DDKT this year, 62% decrease in LDKT
- Median wait to kidney transplant falling - 20 months - but centre variation remains (median 12 - 28 months)
- LDKT – fall in ABO and HLA incompatible transplantation
- Excellent post transplant outcomes with no outlying centres

Most figures from ODT Annual Activity Report 2019/20 or Kidney Annual Report 2019/20

The screenshot shows the NHS Blood and Transplant website's 'ODT CLINICAL' section. The top navigation bar includes 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'. The main navigation menu has tabs for 'Home', 'Deceased donation', 'Living donation', 'Retrieval', 'Transplantation', 'Statistics and reports', 'Information for patients', and 'ODT structure & standards'. The 'Statistics and reports' 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'. The 'Annual Activity Report' and 'Organ specific reports' are highlighted with a red border. Below the navigation menu, there are three main content areas: '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. At the bottom, there are links for 'ODT Hub Programme' and 'Tell us about an incident'.

**NHS**  
Blood and Transplant

Who we are | What we do | How we help | Get involved | Donate | Careers | Media

ODT CLINICAL

Your search here

Home | Deceased donation | Living donation | Retrieval | Transplantation | **Statistics and reports** | Information for patients | ODT structure & standards

**Annual Activity Report**

Organ specific reports

Potential Donor Audit

ODT Performance Report

Annual NORS Report

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Publications

Taking Organ Transplantation to 2020

» View the strategy

Annual Activity Report

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Taking Organ Utilisation to 2020

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ODT Hub Programme

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

Rebecca Hendry, Statistician, for help with slides



@NHSBT\_Stats



**Yes I donate**  
ORGAN DONATION

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