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Review of donation and transplantation activity and impact of COVID-19 pandemic

Matthew Robb

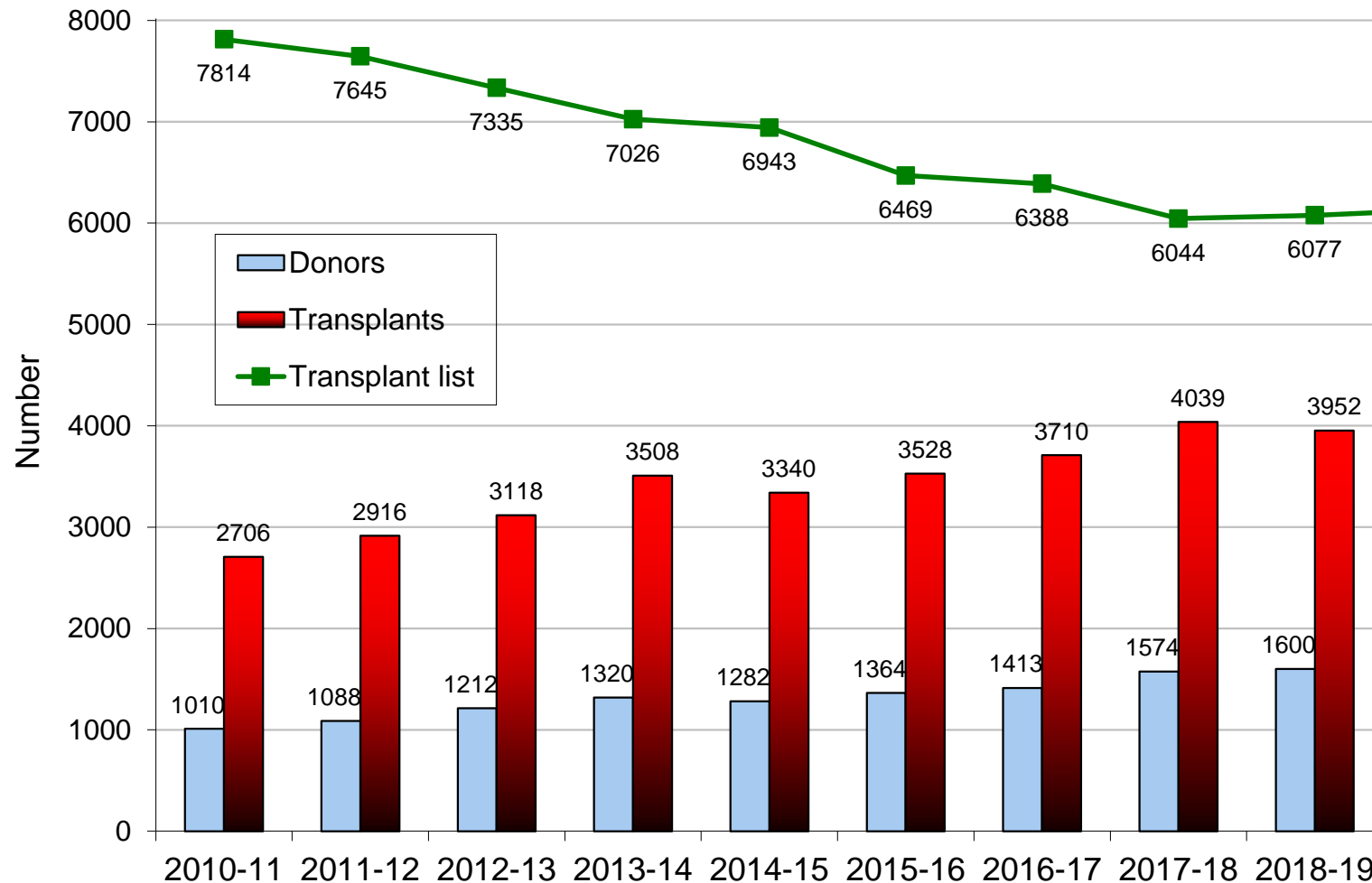
Statistics and Clinical Studies

NHSBT

Summary of Activity – Pre-Pandemic



Deceased donors, transplants and transplant waiting list



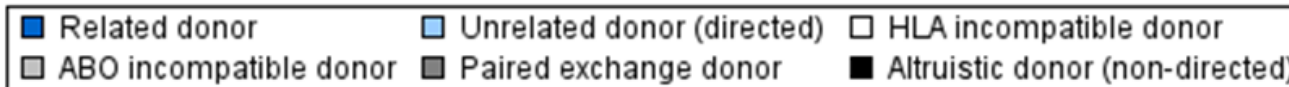
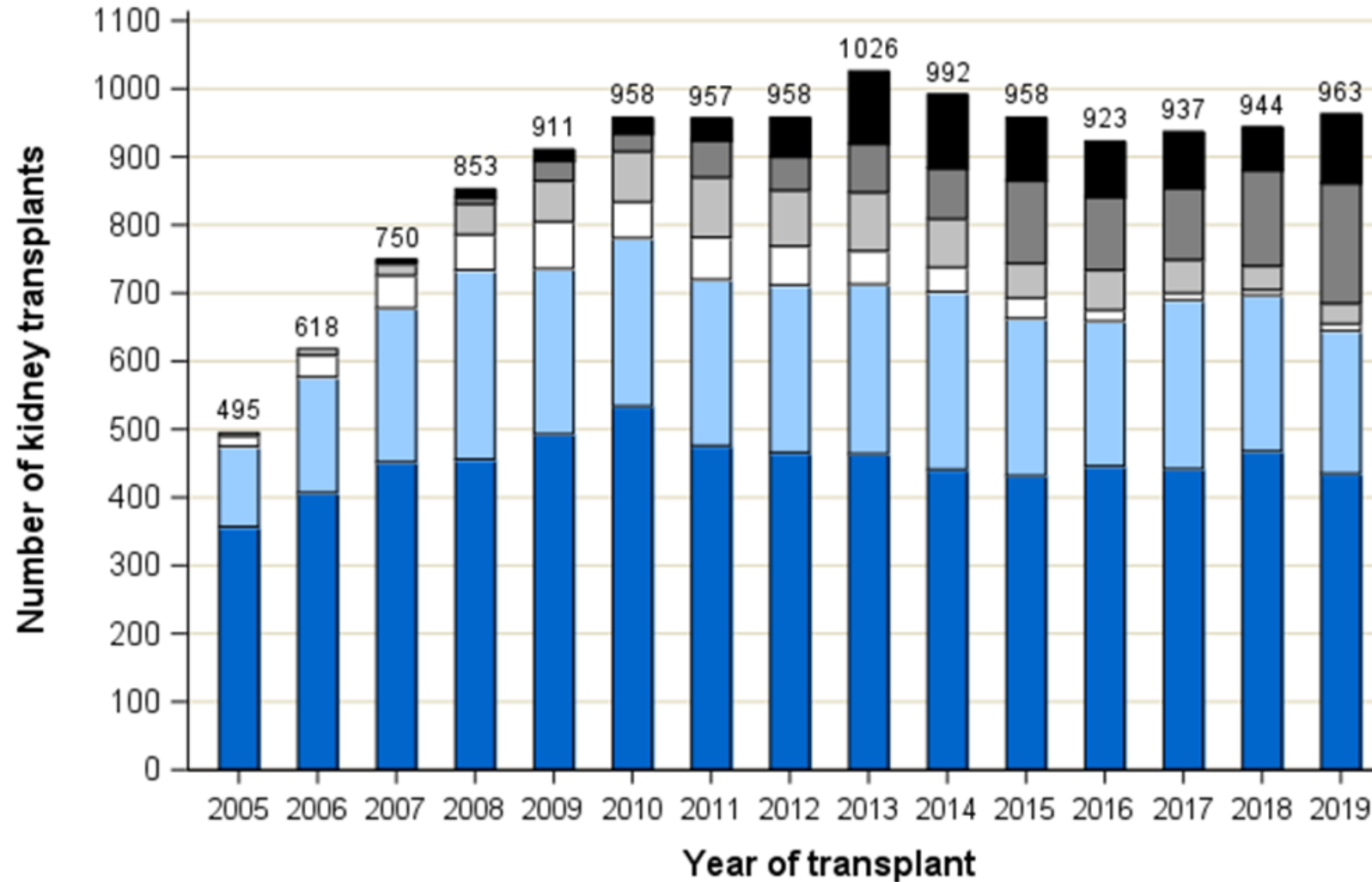
Over the last ten years

21% fall in waiting lists

39% increase in transplants (all organs)

56% increase in deceased organ donors

Adult living donor kidney transplants

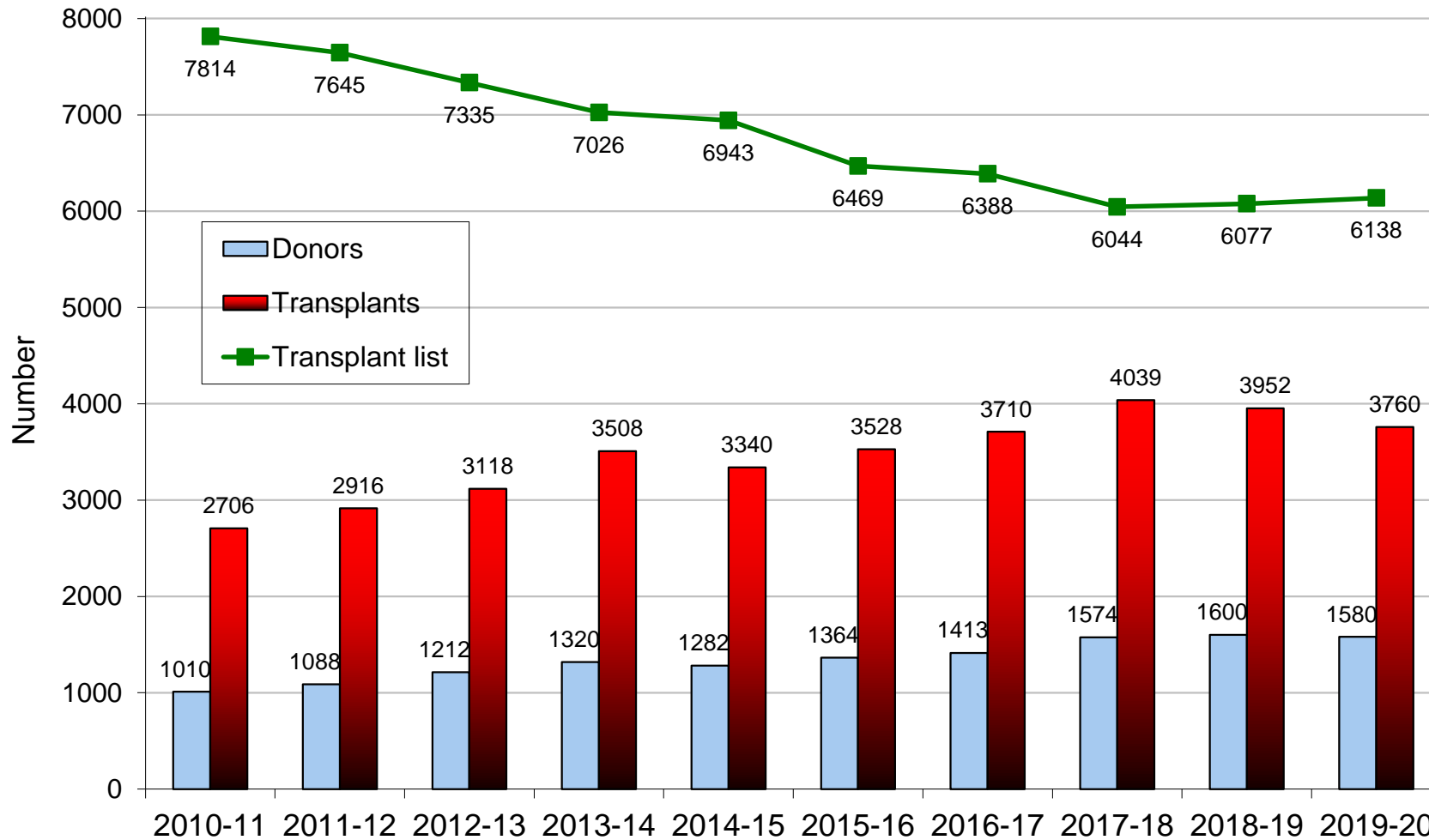


Summary of Activity – March 2020 onwards

Deceased donor transplantation

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Deceased donors, transplants and transplant waiting list



Over the last year

1% increase in waiting lists

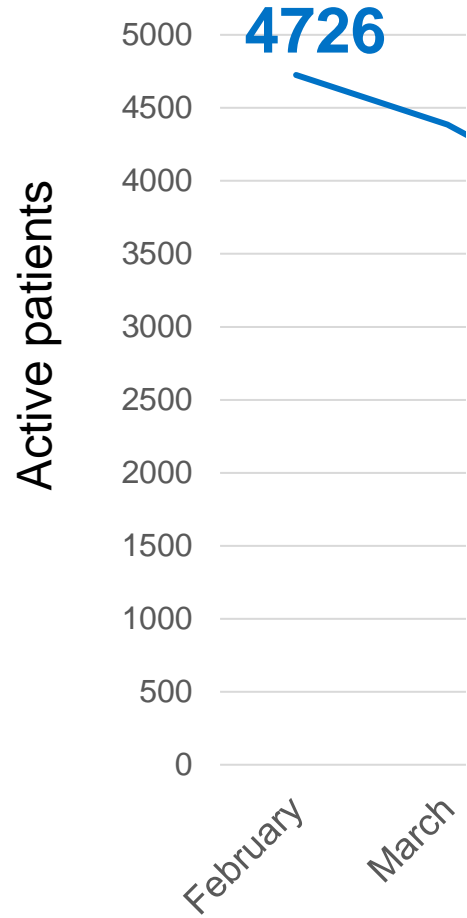
5% fall in transplants (all organs)

1% fall in deceased organ donors

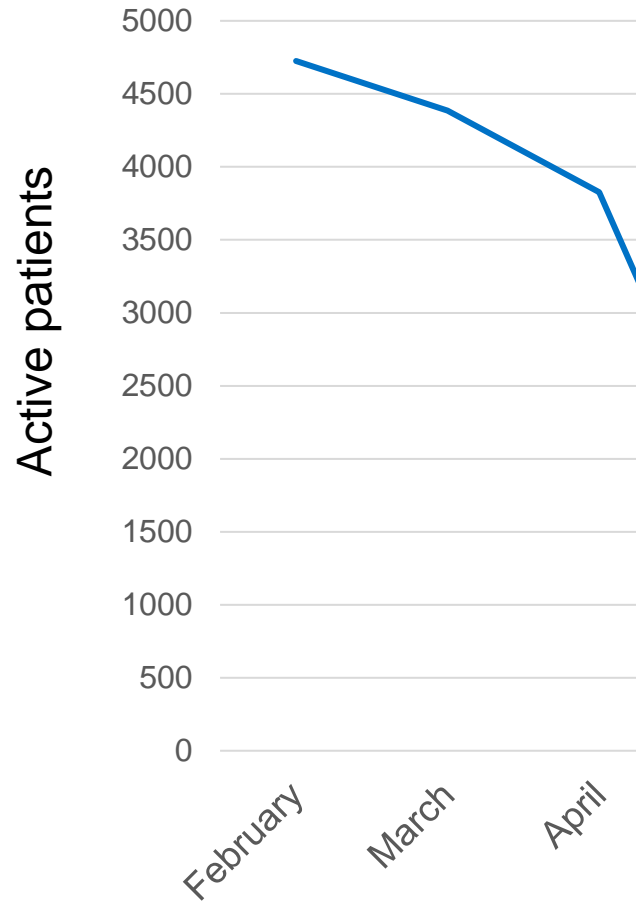
Active kidney waiting list, monthly 2020/21



Blood and Transplant

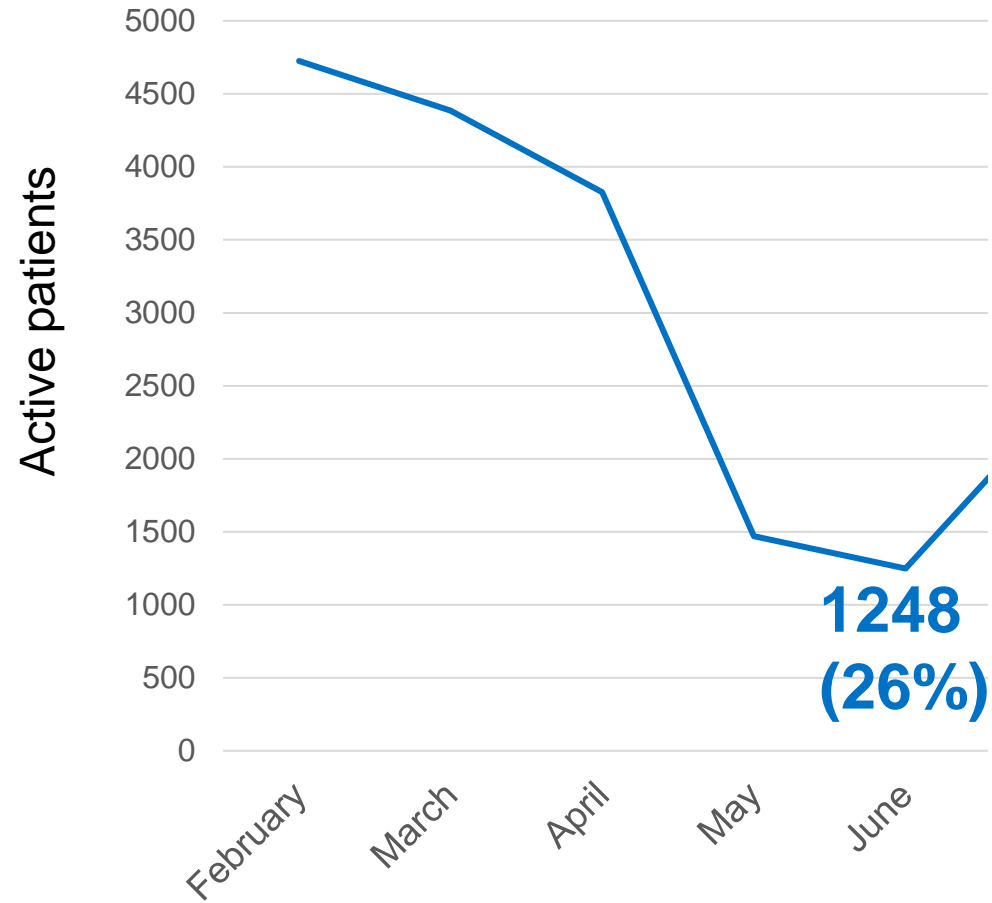


Active kidney waiting list, monthly 2020/21

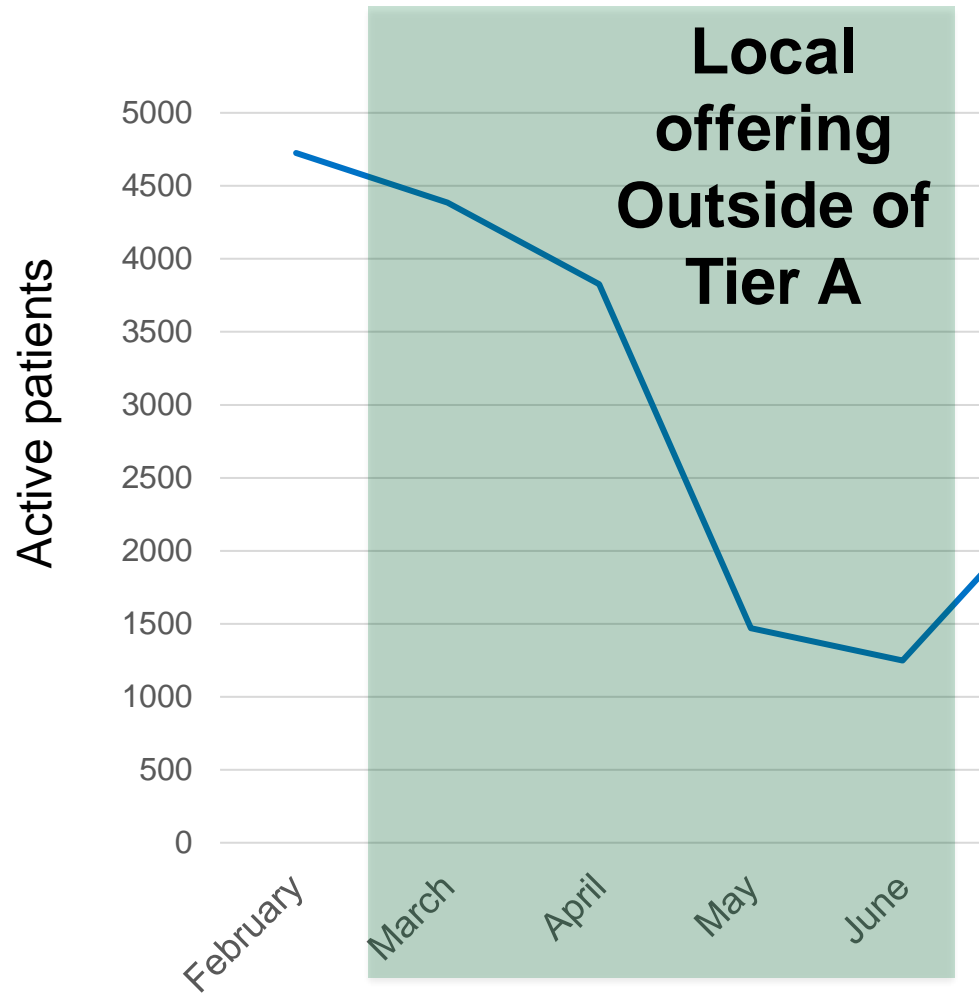


Between 10-14 April, only 3 transplant centres open for deceased donor transplant

Active kidney waiting list, monthly 2020/21



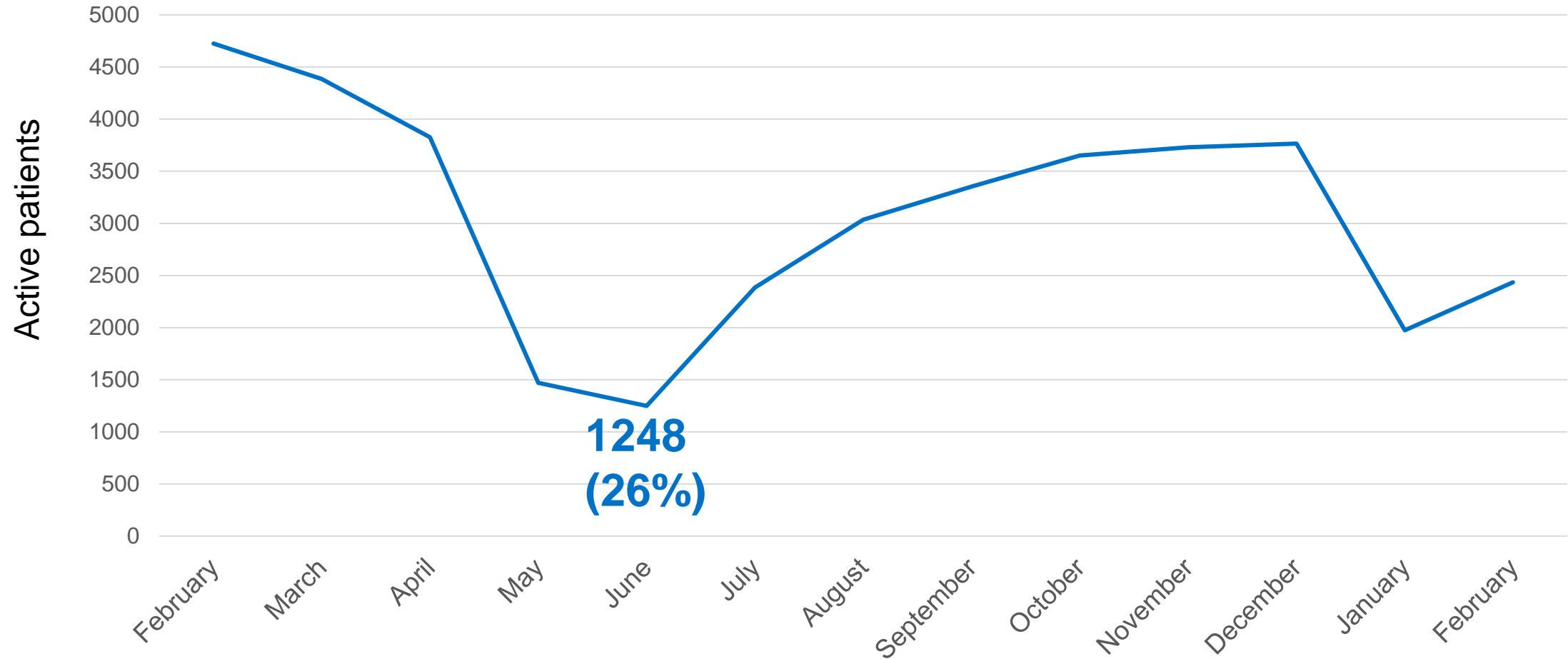
Active kidney waiting list, monthly 2020/21



Active kidney waiting list, monthly 2020/21

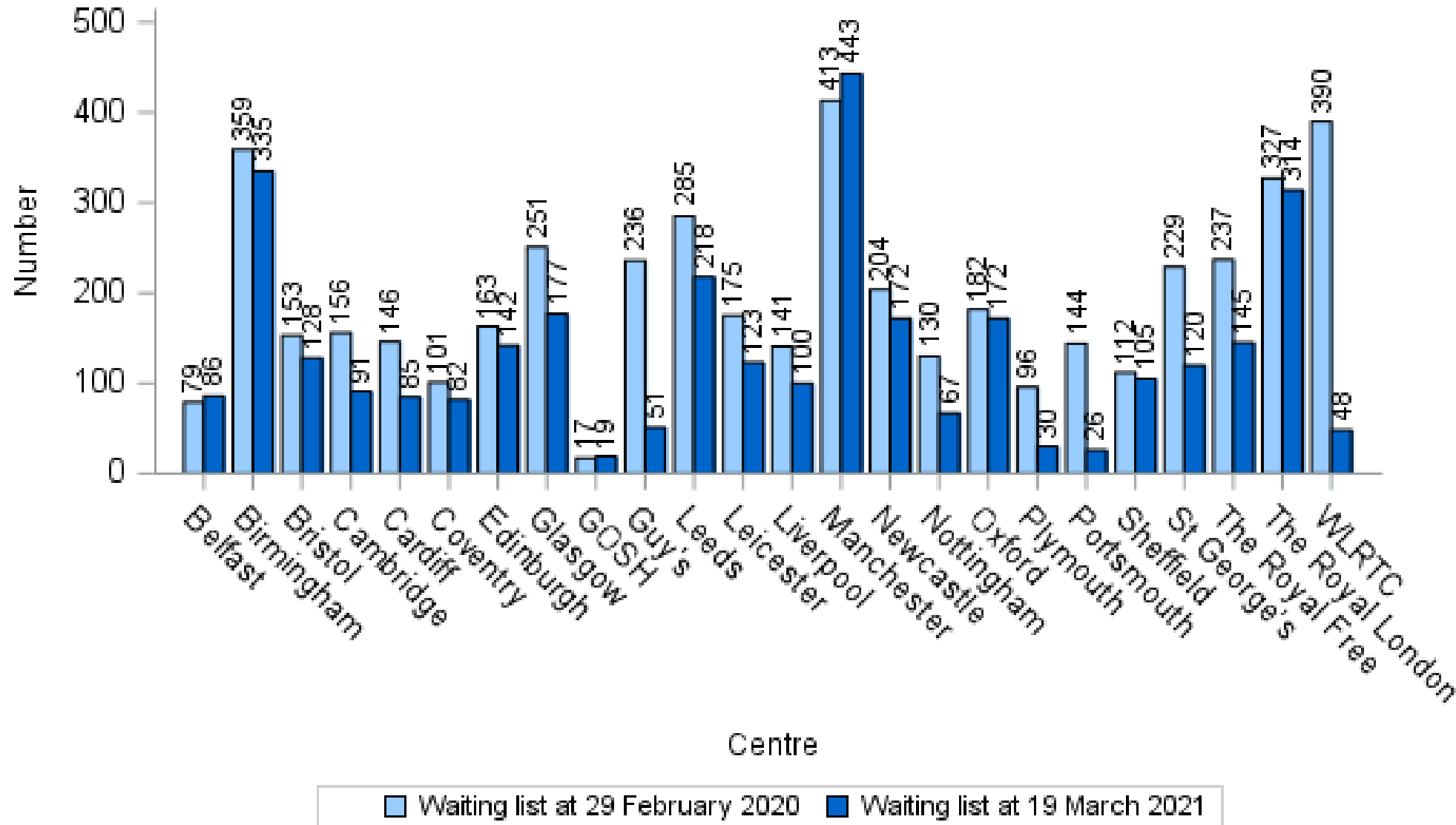


Blood and Transplant



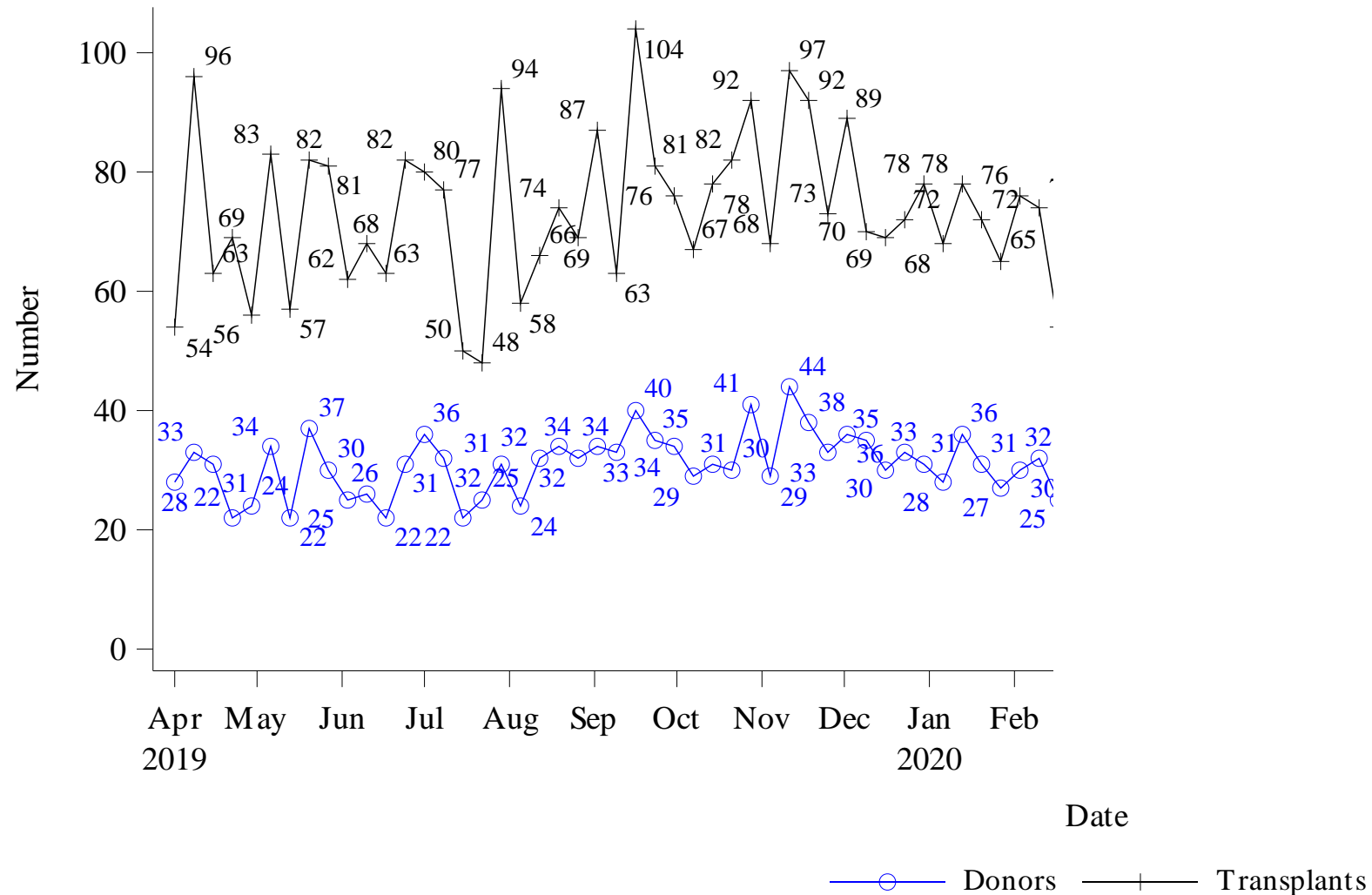
Active kidney waiting list, by centre

29 February 2020 and 19 March 2021



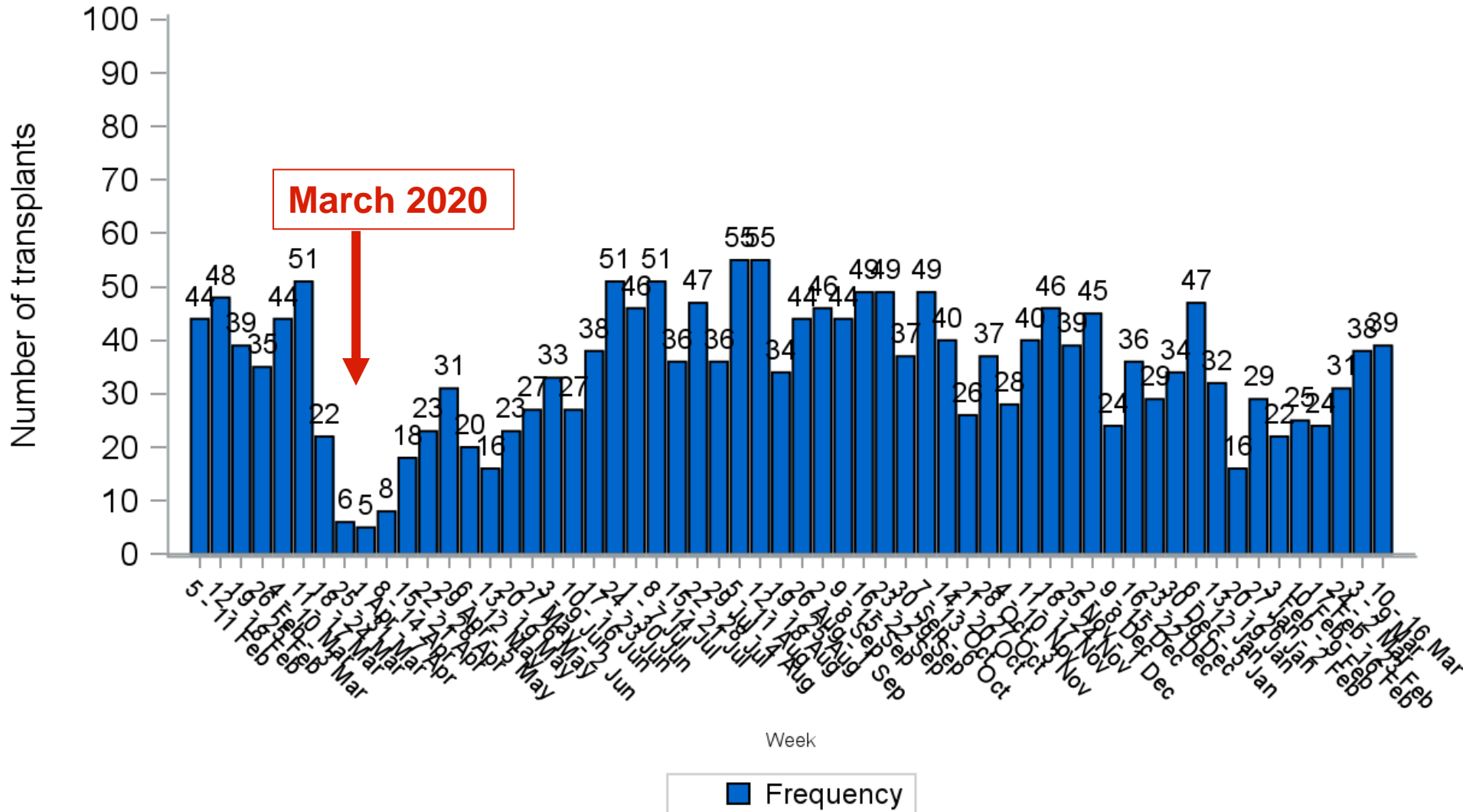
What about 2020/21 activity?

Figure 1 Effect CoVID-19 has on Deceased Donation and Transplantation
Number of deceased donors and transplants by week since 1 April 2019



UK deceased donor kidney transplants

5 February 2020 – 16 March 2021



What about 2020/21 activity overall?

DONOR AND TRANSPLANT ACTIVITY			
	Current year (01.04.20 - 14.03.21)	Previous year (01.04.19 - 14.03.20)	% Change*
ORGAN DONORS			
Donors after brain death (DBD)	728	920	-20.9
Donors after circulatory death (DCD)	379	622	-39.1
Total deceased donors (DD)	1107	1542	-28.2
Non-proceeding deceased donors (DD) ^a	431	692	-37.7
Living donors (LD) - 1 mth in arrears ^a	362	975	-62.9
ORGAN TRANSPLANTS			
Deceased donors (DD)			
Kidney	1710	2230	-23.3
Pancreas	3	13	
Kidney/pancreas ^{AAA}	80	162	-50.6
Pancreas islets	7	22	
Heart ^{AA}	154	165	-6.7
Lung(s)	84	153	-45.1
Heart/lung	2	5	
Liver/lobe ^{AA}	701	883	-20.6
Intestinal	12	20	-40
Other (multi-organ)	10	18	-44.4
Total DD transplants	2763	3671	-24.7

DBD donors down 21%
DCD donors down 39%

Total DD kidney transplants down 23%

New Kidney Offering Scheme – First 12 months

- Designed to
 - Improve equity of access to a national resource
 - More effective 'longevity' match between the donor and recipient
 - Avoid long waiting times that are predictable
- Scheme went live on 11th September 2019
- Highly sensitised patients have improved access to transplant
 - 10% increase in transplants to highly sensitised patients
 - Increase in patients with 100% cRF transplanted from 2% to 4%
- 3% increase in transplants to BAME recipients

Summary of Activity – March 2020 onwards

Living donor transplantation

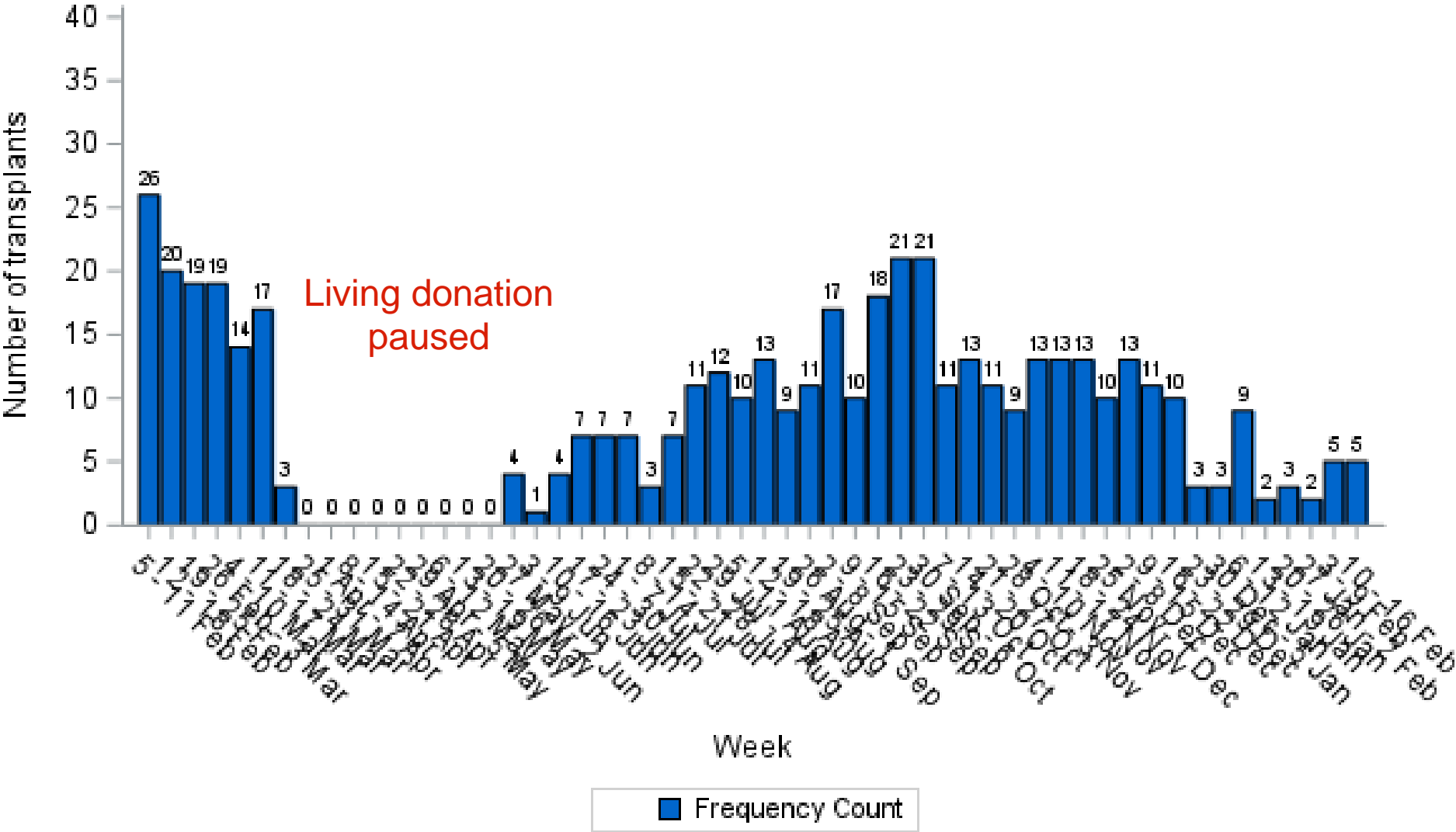
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UK living donor kidney transplants

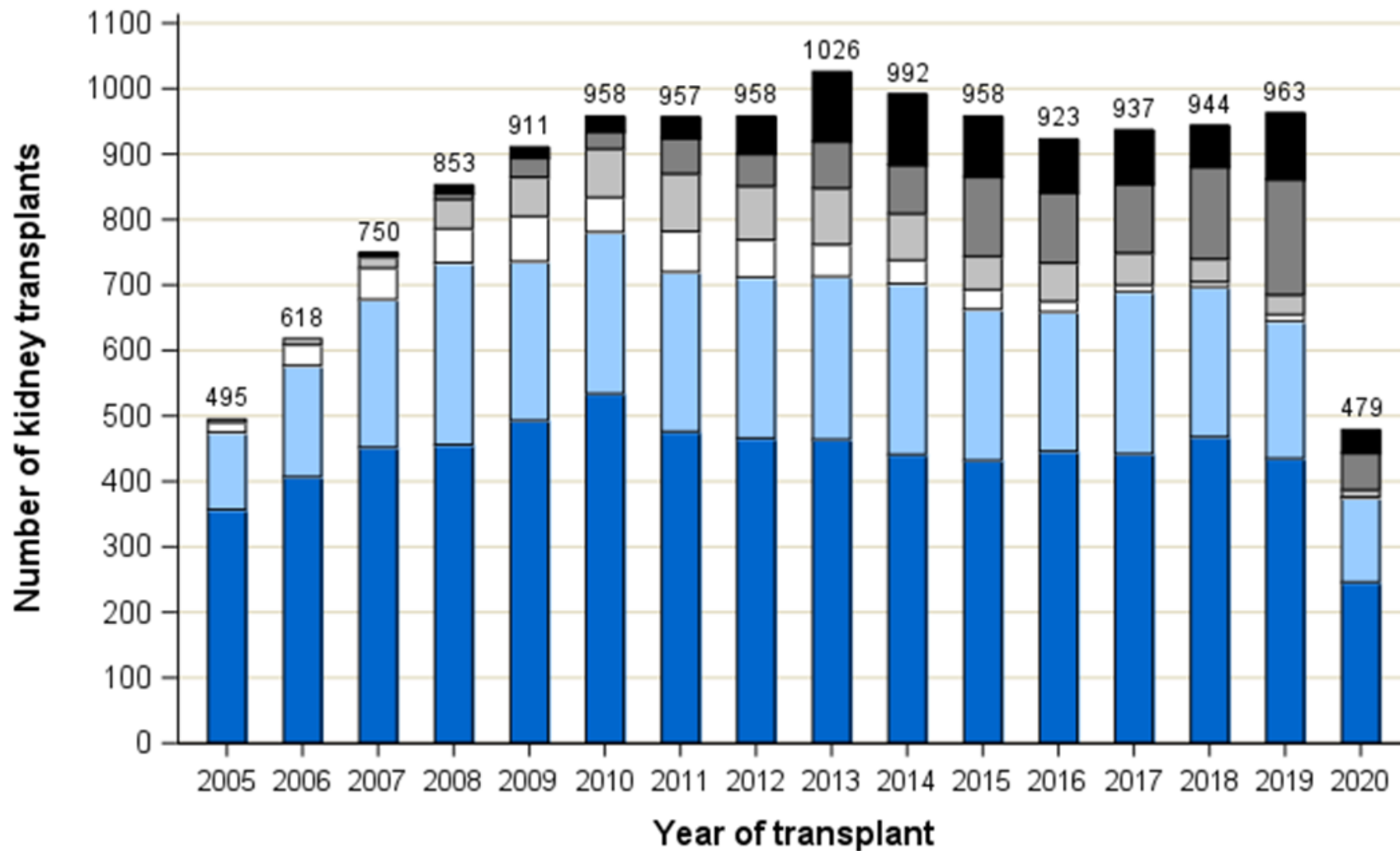
5 February 2020 – 16 February 2021



Blood and Transplant



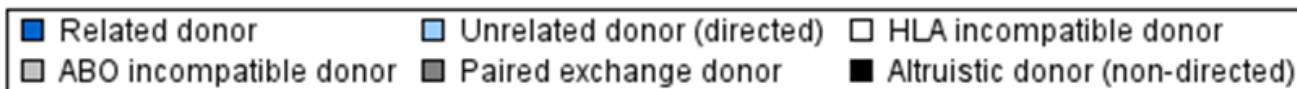
Adult living donor kidney transplants



In 2020

Living donor kidney transplants at 50% compared to 2019

2/4 UKLKSS matching runs performed



UKLKSS Matching Run Update

	Avg. Matching Runs 2019
Pairs Included	304
NDADs Included	22
Transplants Identified	86
%Transplants Completed	70%

UKLKSS Matching Run Update

	Avg. Matching Runs 2019	February 2020
Pairs Included	304	299
NDADs Included	22	29
Transplants Identified	86	95
%Transplants Completed	70%	43%

UKLKSS Matching Run Update



Blood and Transplant

	Avg. Matching Runs 2019	February 2020	October 2020
Pairs Included	304	299	247
NDADs Included	22	29	21
Transplants Identified	86	95	92
%Transplants Completed	70%	43%	10%

UKLKSS Matching Run Update

	Avg. Matching Runs 2019	February 2020	October 2020
Pairs Included	304	299	247
NDADs Included	22	29	21
Transplants Identified	86	95	92
%Transplants Completed	70%	43%	10%
Transplants Yet to Proceed		4	67

Summary

- There was a decrease in the number of deceased donors and the number of transplants in 2019/20
- COVID-19 led to centre closures and pausing of all living donor activity during April and May
- 23% decrease in DDKT this year, 64% decrease in LDKT
- New kidney offering scheme has given increased access to transplant for highly sensitised patients

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

The screenshot shows the NHS Blood and Transplant website. At the top, there is a navigation bar with the NHS 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'. Below the menu, 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. At the bottom, there are links for 'ODT Hub Programme' and 'Tell us about an incident'.