

KQuIP/UKRR Regional Day

Yorkshire & Humber

6th July 2017 – 10.10-11.30

What do the data tell us – primary, secondary and tertiary care

Scott Anderson, Public Health England

Youseff Beaini, Bradford & Districts CCG

Fergus Caskey, UK Renal Registry

Richard Baker, NHS England



KQuIP



THE NATIONAL AND REGIONAL PICTURE

YORKSHIRE AND THE HUMBER

UK Renal Registry

Dr Fergus Caskey

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Honorary Senior Lecturer, University of Bristol
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What we will be covering

- Incidence (treatment rates)
 - Age and ethnicity
 - Late presentation
 - Dialysis access in new and existing HD pts
- Home therapies
 - Modality at day 1 and day 90
 - Age and co-morbidity
 - Trends
- Quality of care
 - Attainment of CKD-MBD standards
 - Treatment time (HD)
- Infections
 - PD peritonitis
 - MRSA & MSSA
- Survival
 - Incident patients (from 90 days)
 - Prevalent patients
 - Impact of co-morbidity

INCIDENCE (TREATMENT RATES)



New RRT patients per million of the population

Centre	Year					Catchment population (millions)	Crude 2015 rate	
	2011	2012	2013	2014	2015		pmp	(95% CI)
Bradfd	60	71	63	83	88	0.65	135	(107-163)
Donc	43	40	60	54	36	0.41	88	(59-116)
Hull	108	94	90	98	121	1.02	119	(97-140)
Leeds	153	151	183	170	146	1.67	87	(73-102)
Sheff	135	156	136	151	151	1.37	110	(93-128)
York	53	55	37	64	61	0.49	124	(93-155)

Number of patients starting RRT by renal centre 2011-2015

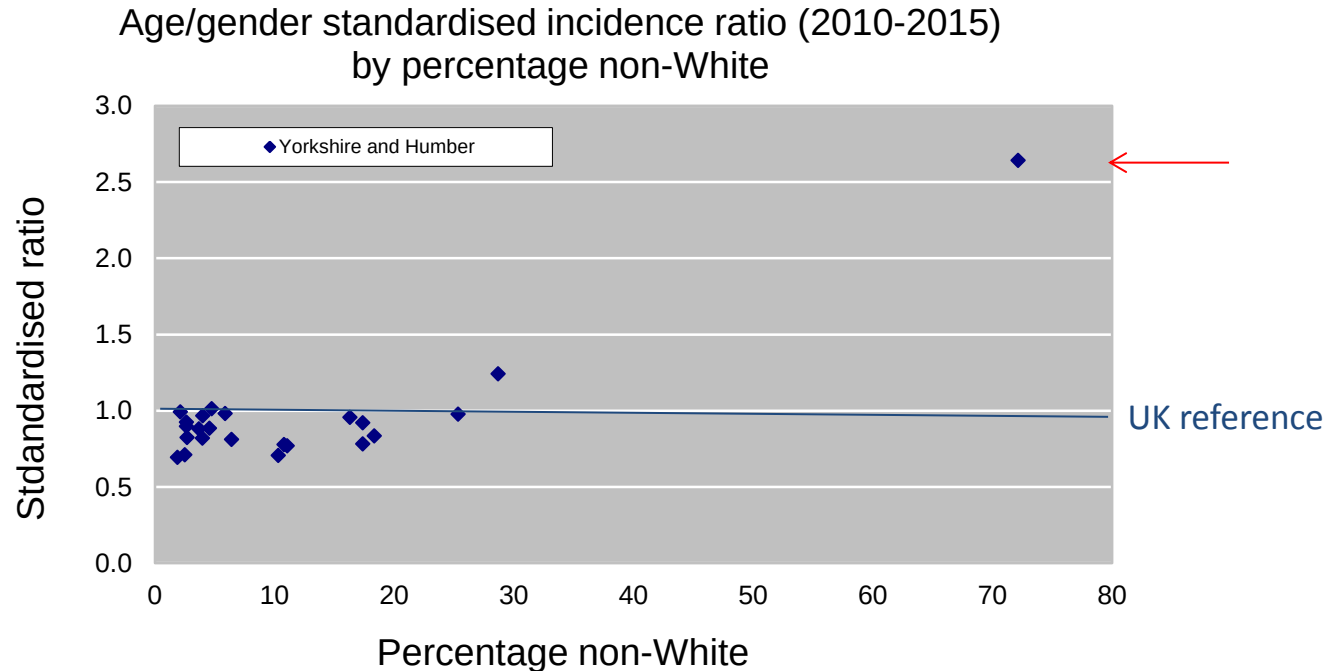
RRT treatment rates

Generally lower than expect, with the exception of Bradford City.

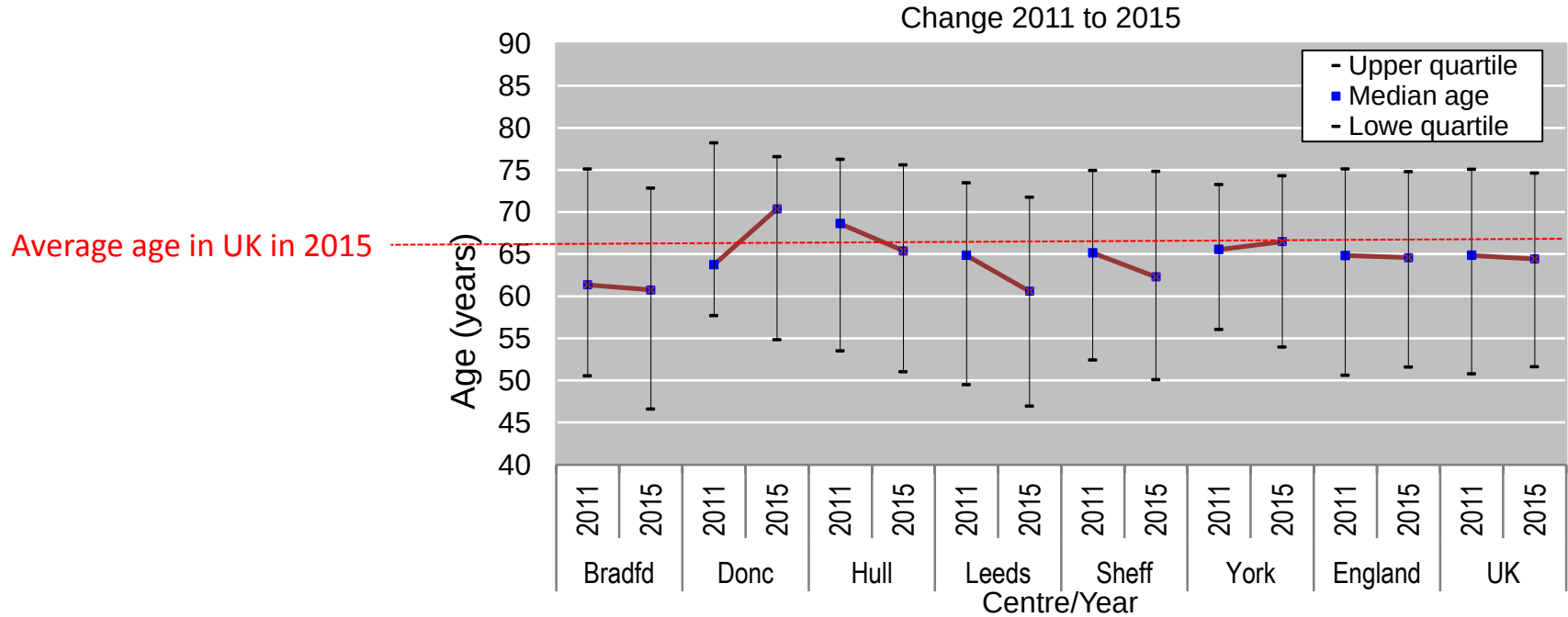
UK area	CCG/HB	Total population (2013)	2009	2010	2011	2012	2013	2014		2009-2014				% non-White
			O/E	O/E	O/E	O/E	O/E	O/E	Crude rate pmp	O/E	LCL	UCL	Crude rate pmp*	
North Yorkshire and Humber	<i>NHS East Riding of Yorkshire</i>	314,600	0.93	0.69	0.72	0.72	0.46	0.73	102	0.71	0.61	0.82	92	1.9
	NHS Hambleton, Richmondshire and Whitby	153,600	0.91	0.76	0.69	1.20	0.92	0.82	111	0.88	0.73	1.07	111	2.7
	NHS Harrogate and Rural District	158,200	1.02	0.66	0.96	0.95	0.51	1.07	139	0.86	0.71	1.05	104	3.7
	NHS Hull	257,600	1.02	0.95	0.76	0.76	0.93	1.00	105	0.90	0.76	1.07	89	5.9
	NHS North East Lincolnshire	159,800	0.85	0.70	1.35	0.67	0.82	0.98	119	0.90	0.74	1.10	101	2.6
	NHS North Lincolnshire	168,800	0.73	0.70	1.50	1.13	1.05	0.48	59	0.93	0.77	1.12	108	4.0
	<i>NHS Scarborough and Ryedale</i>	110,100	0.94	0.59	0.57	0.92	0.69	0.78	109	0.75	0.59	0.96	97	2.5
	<i>NHS Vale of York</i>	349,100	0.65	0.69	1.08	0.92	0.77	0.83	100	0.82	0.72	0.95	93	4.0
South Yorkshire and Bassetlaw	NHS Barnsley	235,800	0.89	1.19	0.81	1.03	1.04	1.30	157	1.05	0.90	1.22	117	2.1
	NHS Bassetlaw	113,700	0.68	0.93	0.82	1.04	1.23	0.89	114	0.93	0.75	1.17	111	2.6
	NHS Doncaster	303,600	1.04	0.94	1.06	0.81	1.14	1.33	158	1.06	0.93	1.21	117	4.7
	NHS Rotherham	258,700	0.95	1.12	0.70	0.83	0.74	0.83	101	0.86	0.73	1.01	97	6.4
	NHS Sheffield	560,100	1.30	1.04	0.99	1.22	0.95	0.95	102	1.07	0.97	1.19	107	16.3
West Yorkshire	<i>NHS Airedale, Wharfedale and Craven</i>	158,500	1.04	0.56	0.49	0.65	0.84	1.15	145	0.79	0.64	0.98	94	11.1
	NHS Bradford City	82,700	0.38	3.33	1.88	2.65	2.59	3.19	218	2.34	1.87	2.94	151	72.2
	NHS Bradford Districts	334,600	0.97	1.18	1.08	1.39	1.05	1.14	117	1.14	0.99	1.30	108	28.7
	<i>NHS Calderdale</i>	206,400	0.97	0.52	0.59	0.77	1.05	0.63	73	0.76	0.62	0.92	82	10.3
	NHS Greater Huddersfield	240,400	0.72	0.82	0.91	1.10	0.92	1.02	116	0.92	0.78	1.08	98	17.4
	<i>NHS Leeds North</i>	199,900	0.74	0.66	0.82	0.77	0.84	0.88	105	0.79	0.65	0.95	88	17.4
	<i>NHS Leeds South and East</i>	241,000	0.63	0.73	0.93	0.75	0.94	0.98	100	0.83	0.69	1.00	79	18.3
	<i>NHS Leeds West</i>	320,500	0.93	0.60	0.58	0.72	1.13	0.69	69	0.78	0.66	0.92	72	10.8
	NHS North Kirklees	187,900	1.42	1.06	1.24	0.48	1.46	0.85	90	1.08	0.91	1.29	108	25.3
	NHS Wakefield	329,700	0.59	0.89	0.88	1.09	0.85	0.99	118	0.88	0.77	1.02	99	4.6

RRT treatment rates

Generally lower than expected, with the exception of Bradford City.



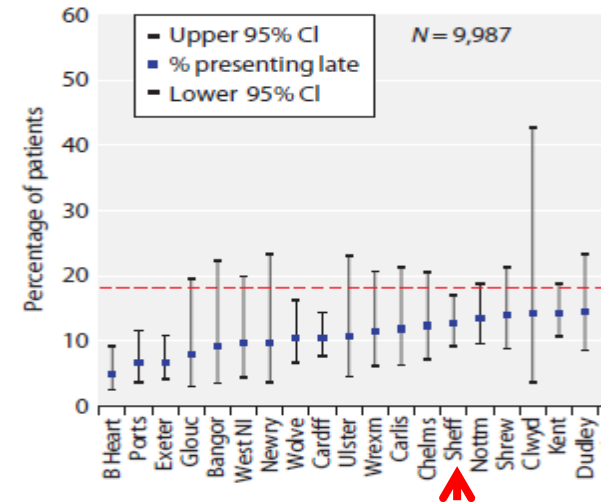
Change in median age at start of RRT



Late presentation for RRT

Presenting within 90 days of first dialysis.

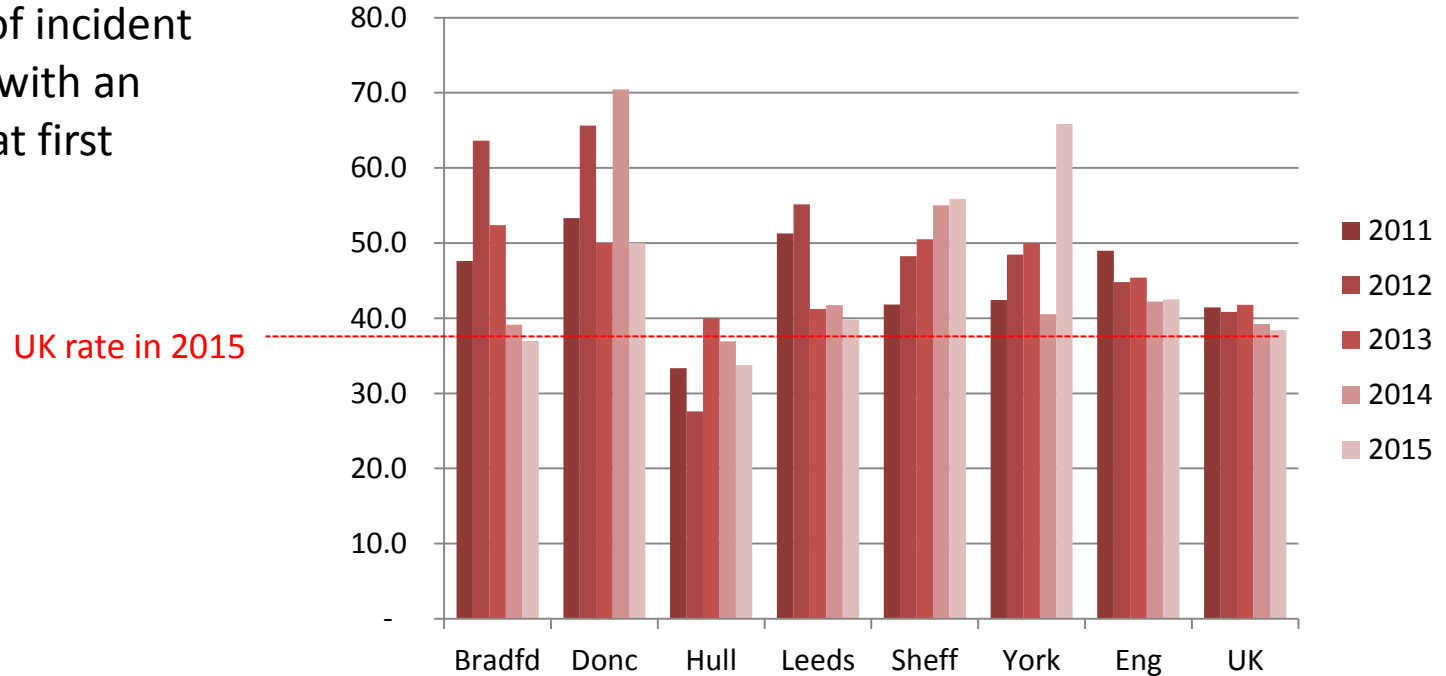
	Brad	Donc	Hull	Leeds	Sheff	York
2013/4	17	18	22	21	13	*
2008	17	20	NA	14	13	15



2013/4 data. 18th UKRR Report. Fig 1.11.

Trends in definitive access at first dialysis

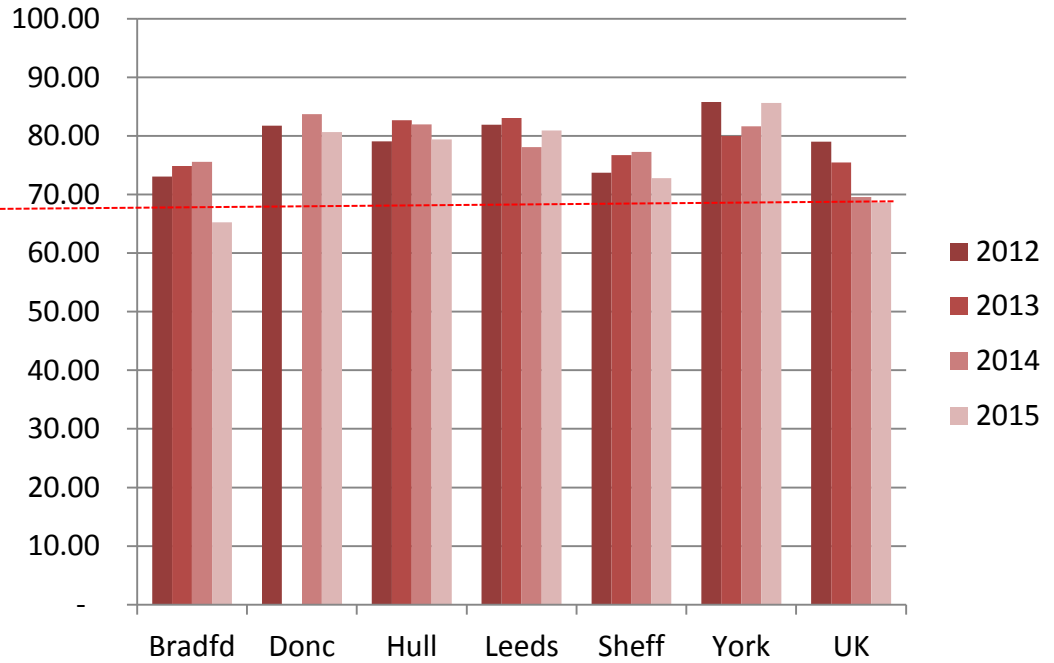
Percentage of incident HD patients with an AVF or AVG at first dialysis.



Trends in definitive access in existing HD patients

Percentage of HD patients on 31st Dec with an AVF or AVG.

UK rate in 2015

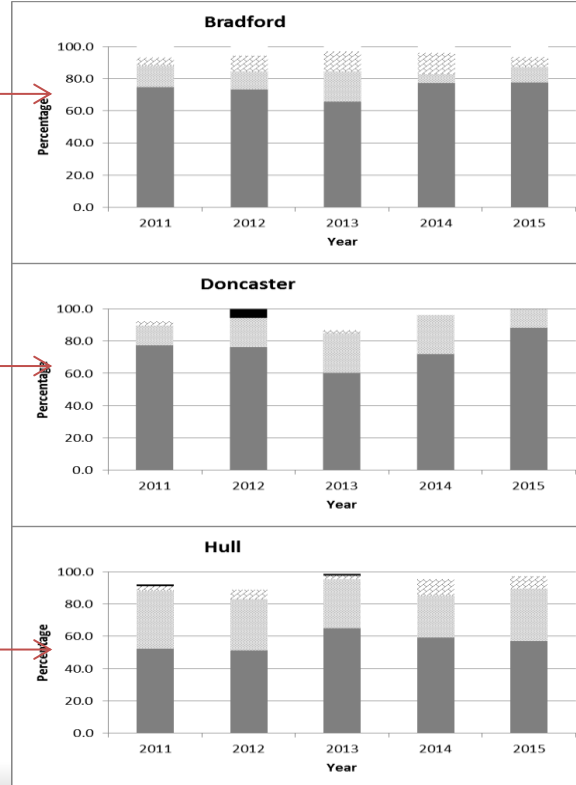


HOME THERAPIES (HOME HD & PD)



Modality at day 90

RRT treatment
modality 90 days
after first
treatment.



Number (%) on home therapies

	RRT patients N	% of prevalent RRT patients				Ratio HT/Dialysis
Centre		HT	ICHD	Tx	HT+Tx	
Bradfd	628	4.3	36	59.7	64	0.11
Donc	396	9.6	43.2	47.2	56.8	0.18
Hull	931	9.3	37.6	53.1	62.4	0.2
Leeds	1,453	5.4	33.7	61	66.3	0.14
Sheff	1,235	7.9	40.3	51.7	59.7	0.16
York	475	8.2	31.4	60.4	68.6	0.21
England	49,974	8.1	39.4	52.5	60.6	0.17
UK	59,521	7.9	39	53.1	61	0.17

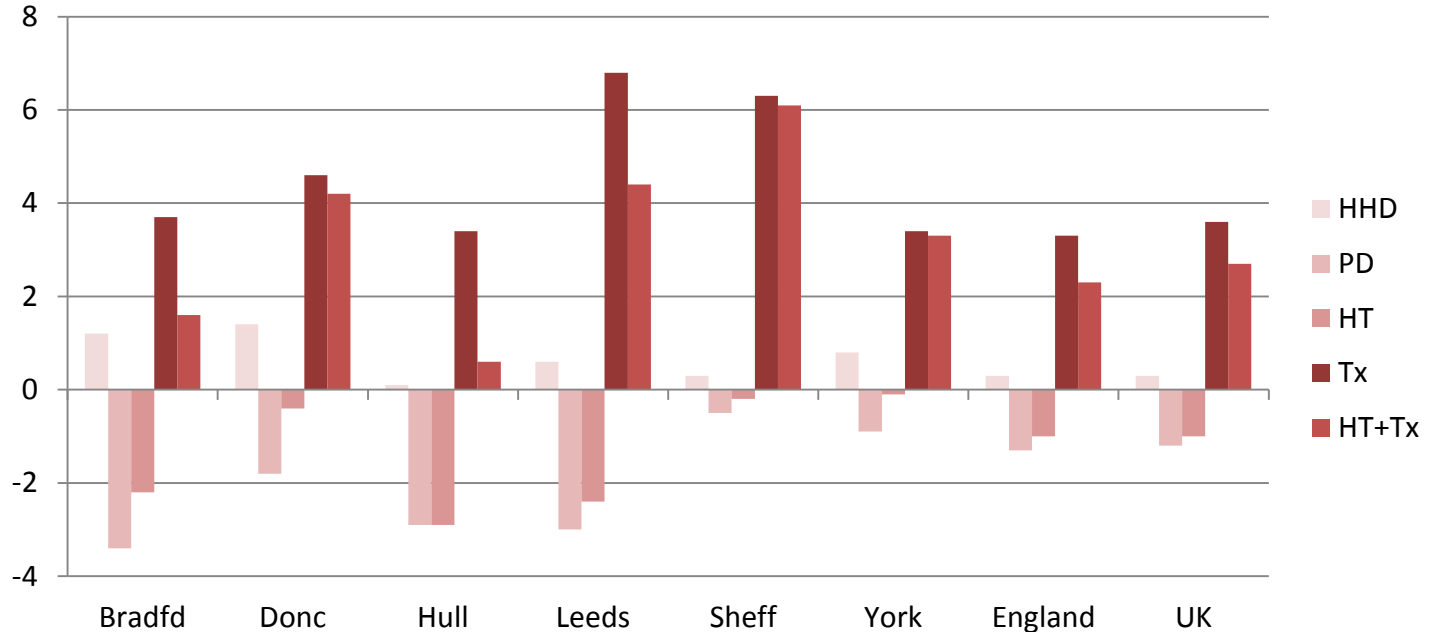
Proportion of prevalent RRT patients using HTs, ICHD and transplantation, by country and centre, on 31st December 2015



Changes in rates of home therapies (& transplant)

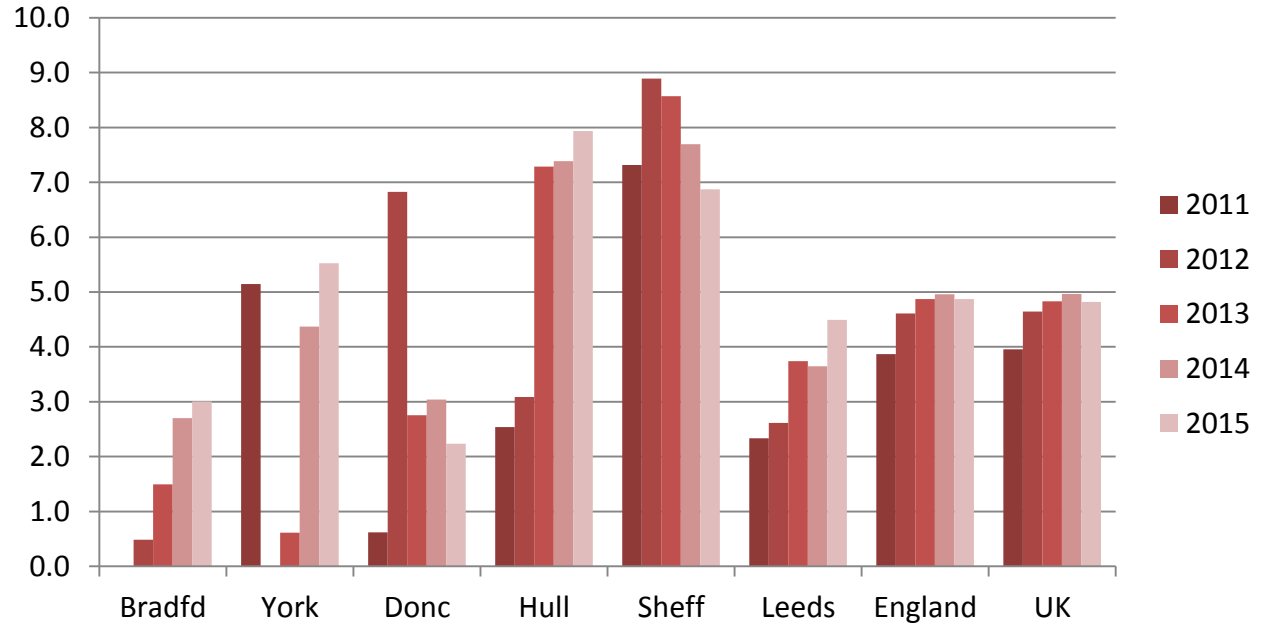
Percentage
of RRT:

Change in
treatment
modalities
between
2011 and
2015,
according to
centre and
country.



Changes in rates on home HD

Percentage of prevalent haemodialysis patients treated with home haemodialysis by centre 2011-2015.



Age and gender of people on home therapies

	HT patients N	Median age (years)					% male	
Centre		HHD	PD	HT	ICHD		HT	ICHD
Bradfd	25	49	53	52	63		40	58
Donc	33	64	69	66	69		72.7	58.5
Hull	84	58	65	62	69		60.7	68.6
Leeds	81	49	53	52	65		56.8	59.9
Sheff	102	56	65	61	68		63.7	60.1
York	40	50	65	60	68		75	61.1
England	4,035	55	64	61	68		61.2	61.5
UK	4,720	55	64	61	68		61.1	61.3

Median age and gender of prevalent dialysis patients, by country and centre, on 31st December 2015

Co-morbidities of people on home therapies

Centre	Dialysis	HT	% no comorbidity			% 1–2 comorbidities			% ≥3 comorbidities		
	N	N	HHD	PD	ICHD	HHD	PD	ICHD	HHD	PD	ICHD
Bradfd	251	25	85.7	77.8	47.7	0	11.1	40.5	14.3	11.1	11.7
Donc	204	33	77.8	56.3	59.7	11.1	37.5	34.9	11.1	6.3	5.4
Hull	434	84		57.5	53.6		39.7	41		2.7	5.4
Leeds	570	81	70	60.8	51	25	35.3	36.1	5	3.9	12.9
Sheff	601	102	59.1	58	50.4	40.9	40	42.6	0	2	7
York	189	40	81.8	69	43.7	9.1	24.1	43	9.1	6.9	13.4
Total	13,654	2,416	66	60.8	51.7	28	32.6	38.8	6	6.6	9.5

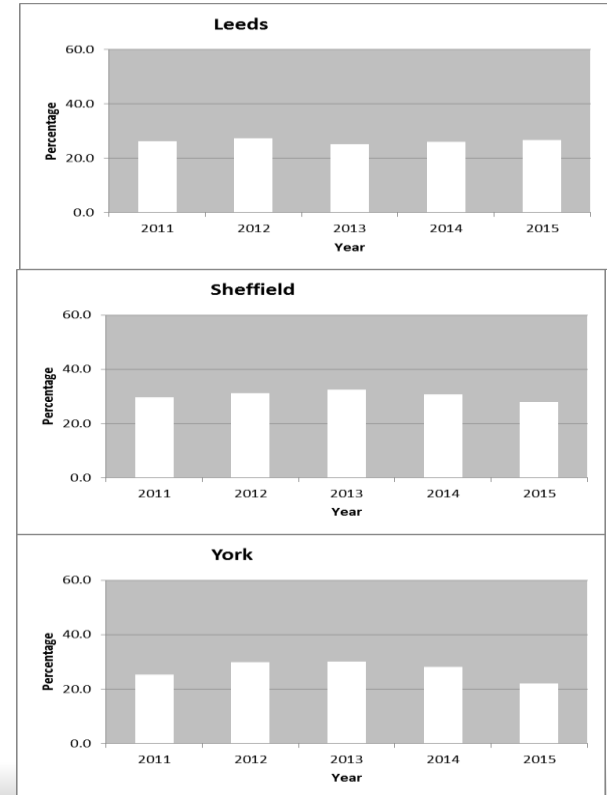
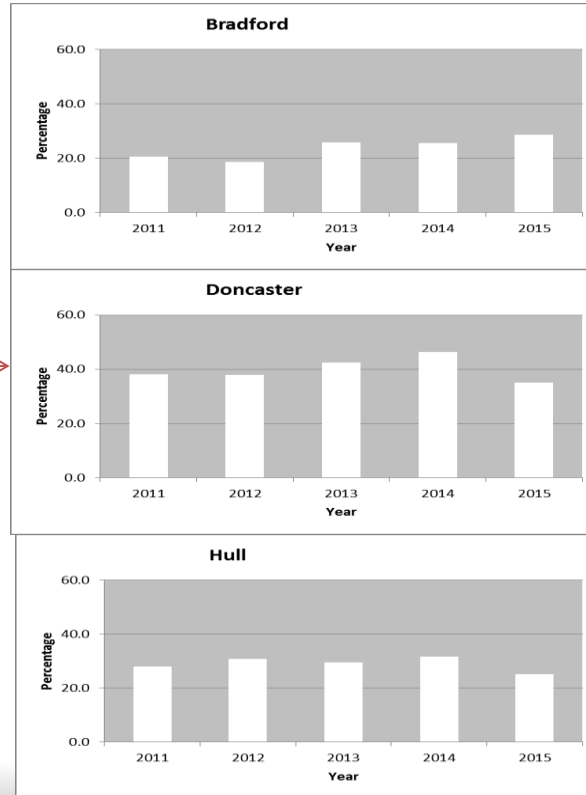
Comorbidity burden in the prevalent dialysis population, by dialysis modality and centre, on 31st December 2015

QUALITY OF CARE

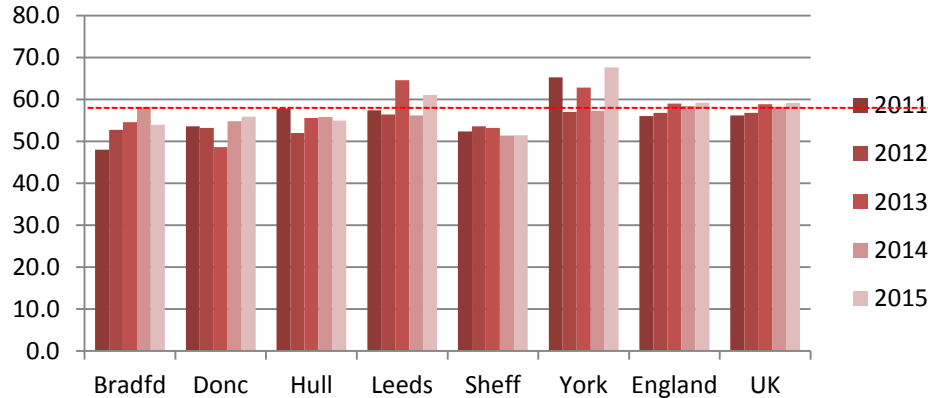


Trends in attainment of CKD MBD standard (HD)

Percentage of haemodialysis patients within the ranges specified for the simultaneous combinations of bone and mineral disorder in preventing severe hyperparathyroidism 2011-2015

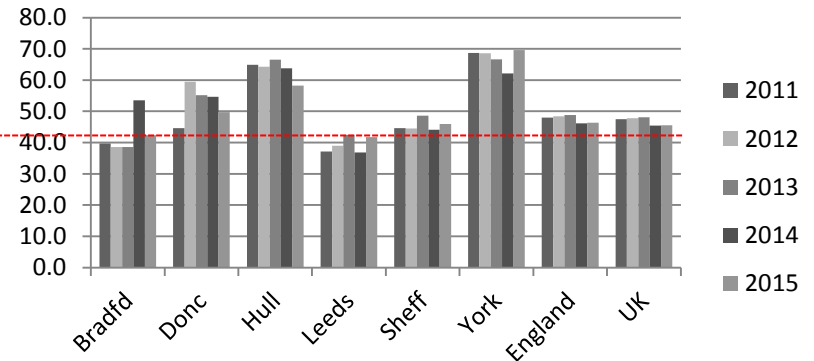


Trends in attainment of anaemia standards (HD)



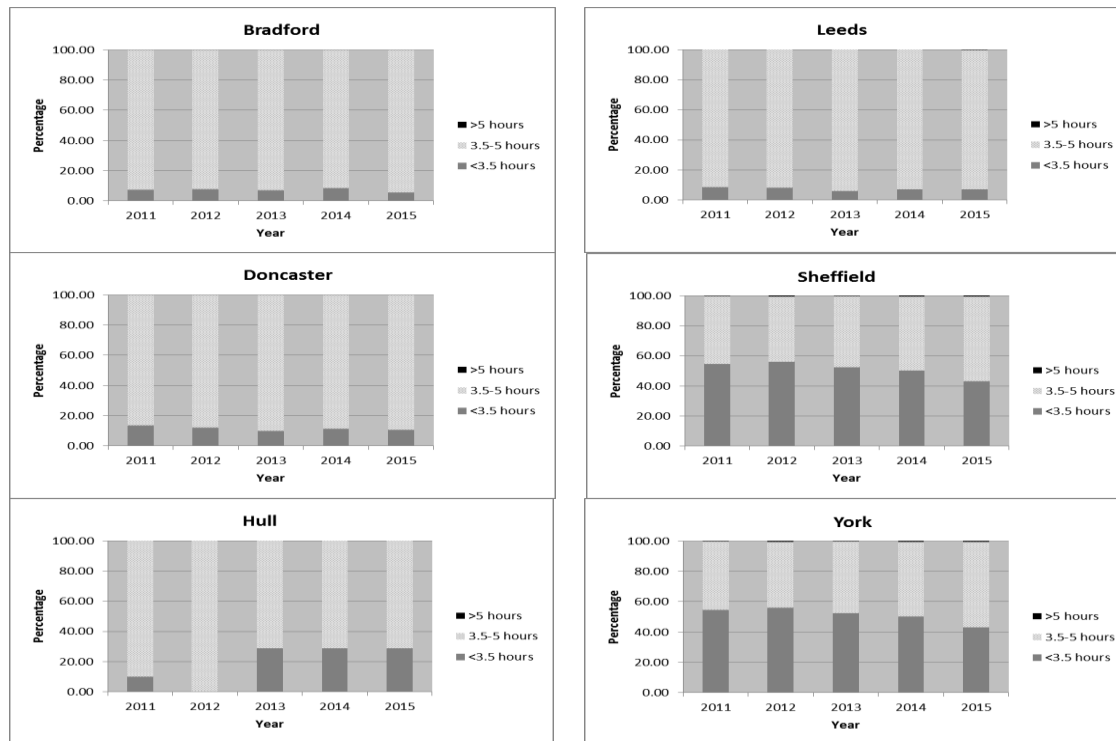
Percentage achieving the Ferritin standard (>100ug/L)

UK rate in 2015



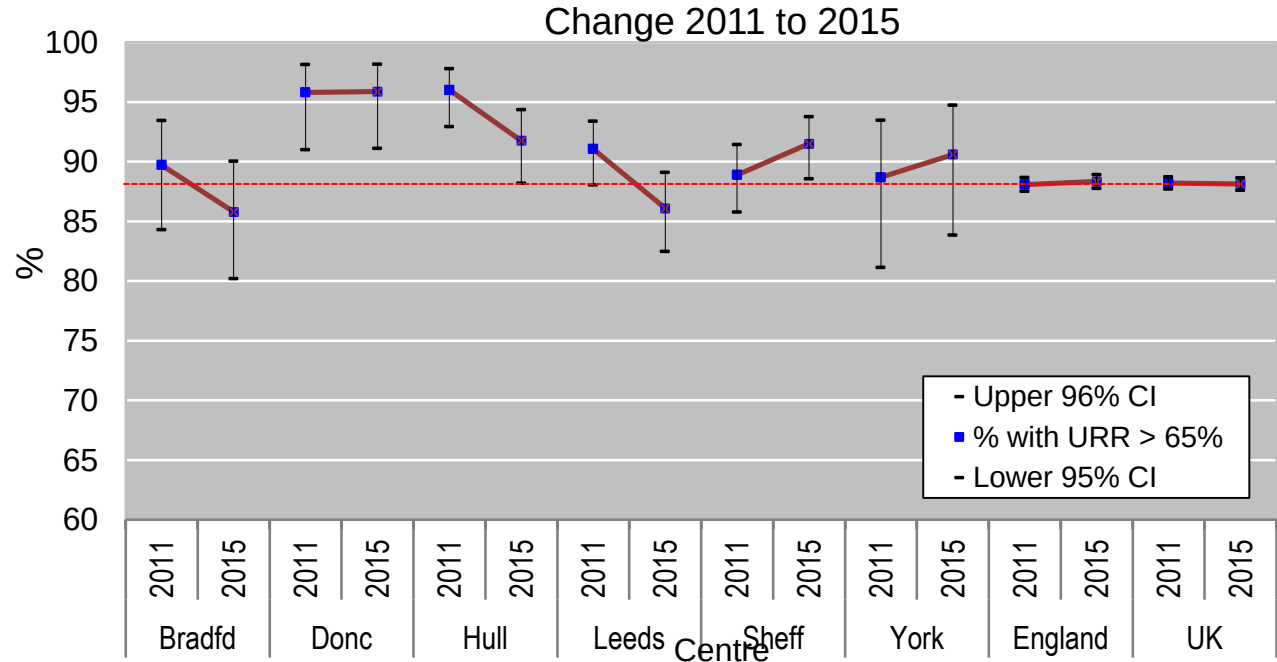
Trends in HD treatment time (hours) by centre

Time per
dialysis session
for prevalent
patients on HD
by centre in
2011 and 2015



Trends in attaining URR>65%

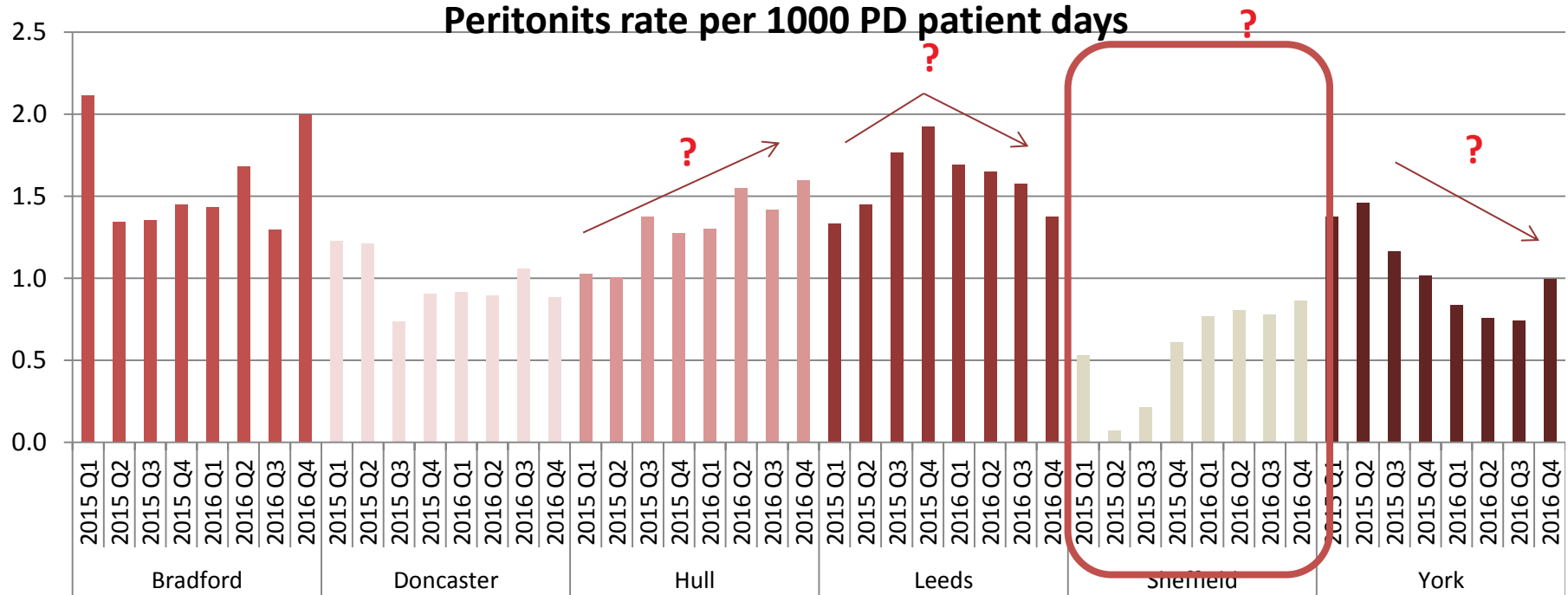
Percentage of prevalent patients on HD with URR>65% by centre in 2011 and 2015.



INFECTIONS

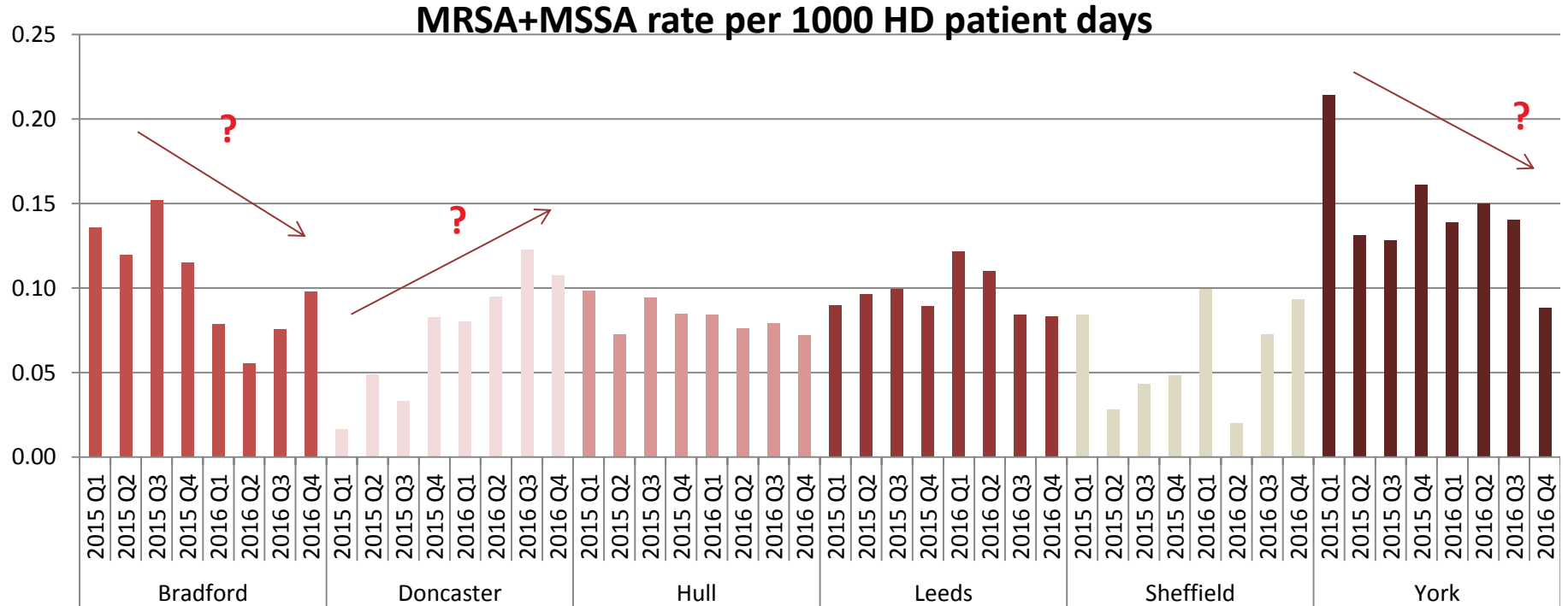
PD peritonitis rates

(Dashboard data)



MRSA & MSSA bacteraemia rates

(Dashboard data)



SURVIVAL



One year survival from day 90

One year after 90 days
survival adjusted to
age 60, 2011-2014

cohort.		
Incident 1yr after 90d		
Centre	Total	Age adj Survival
York	179	90.7
Donc	180	90.6
Bradfd	252	88.3
Hull	352	92.0
Sheff	542	90.9
Leeds	606	90.3

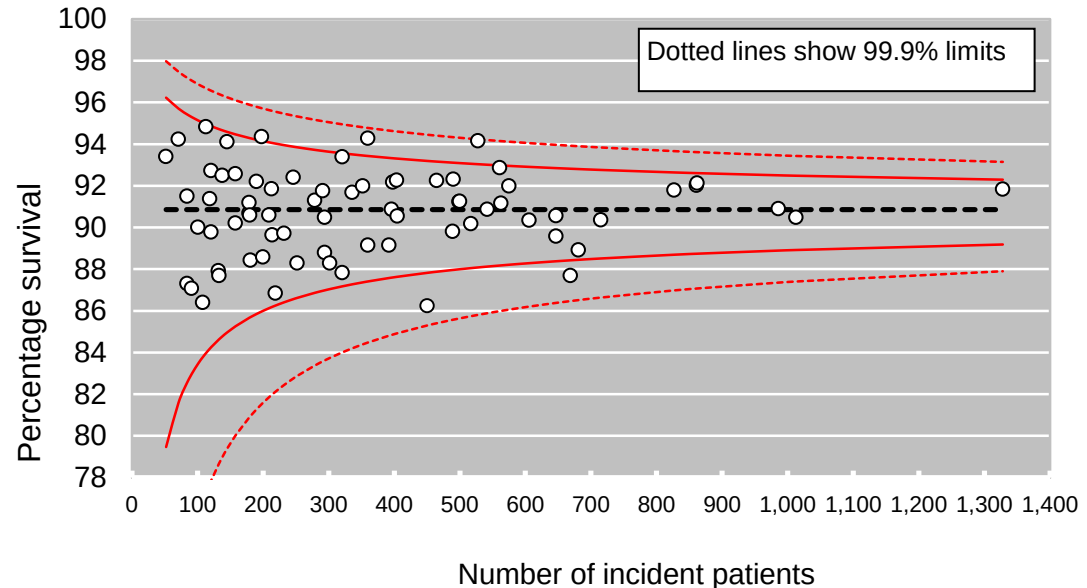


Fig 5.15. Survival Chapter. 19th UKRR Report.

One year survival from 31st Dec 2014

One year survival funnel plot of prevalent dialysis patients by centre adjusted to age 60, 2014 cohort

Centre	Prevalent 1yr from 31 st Dec	
	Total	Age adj Survival
York	153	88.6
Donc	199	89.5
Bradfd	220	87.5
Hull	381	88.7
Sheff	613	88.9
Leeds	536	87.2

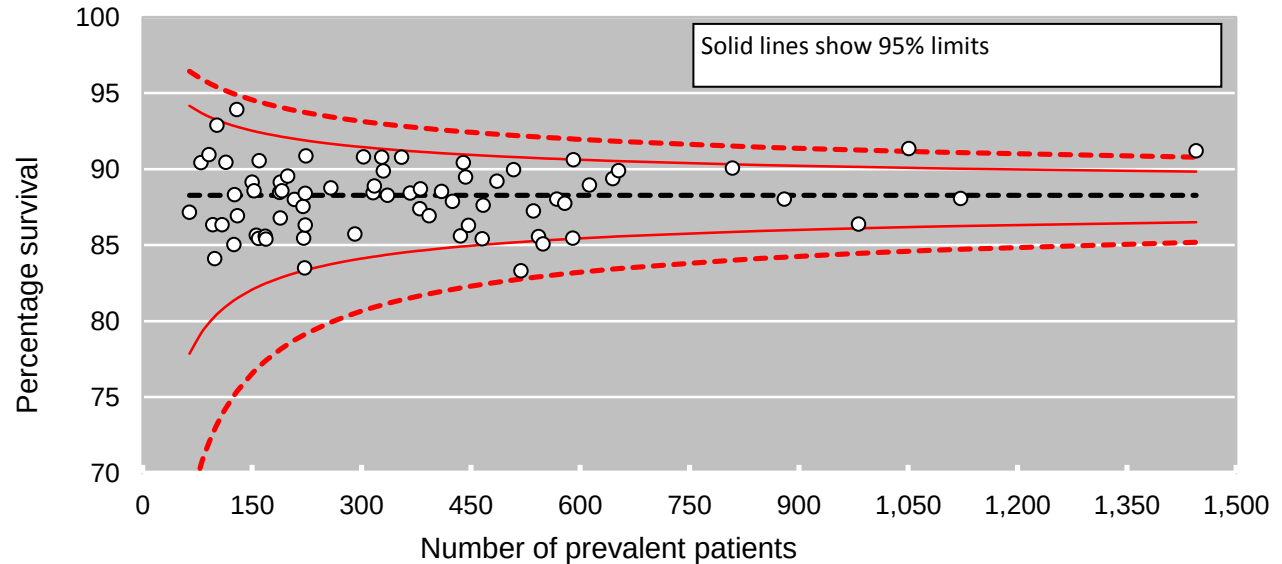
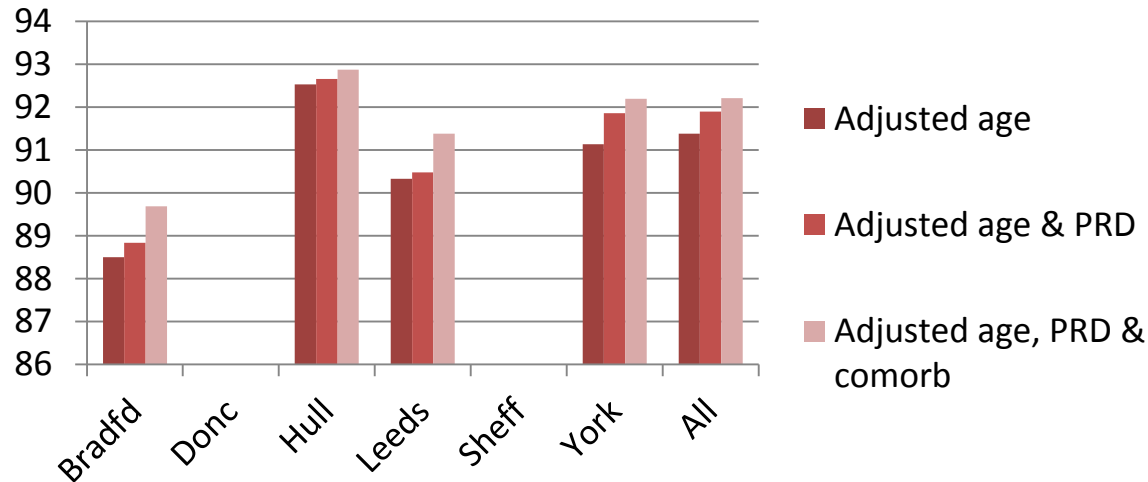


Fig 5.20. Survival Chapter. 19th UKRR Report.

Data completeness for co-morbidity

	Brad	Donc	Hull	Leeds	Sheff	York
Completeness 2014	100	70	100	100	79	95
Completeness 2009	96	42	85	90	55	74





Acknowledgements

Thank you to **Dr Retha Steenkamp** (UKRR) and **Dr John Stoves** (Bradford), who did a lot of work to prepare and select the appropriate content of/ presentation for data for this meeting.

Thank you to all the UK renal units for providing data to the UK Renal Registry.

Current developments at the Registry are only possible thanks to the work of all many people...



[@fjcaskey](#)
[@UKRenalRegistry](#)



www.renalreg.org

Transplantation in Yorkshire and Humberside 2017

Richard Baker



Blood and Transplant

**ANNUAL REPORT ON KIDNEY
TRANSPLANTATION**

**REPORT FOR 2016/2017
(1 APRIL 2007 – 31 MARCH 2017)**

PUBLISHED JUNE 2017

PRODUCED IN COLLABORATION WITH NHS ENGLAND

Figure 5.1

Adult kidney only transplants, 1 April 2007 - 31 March 2017

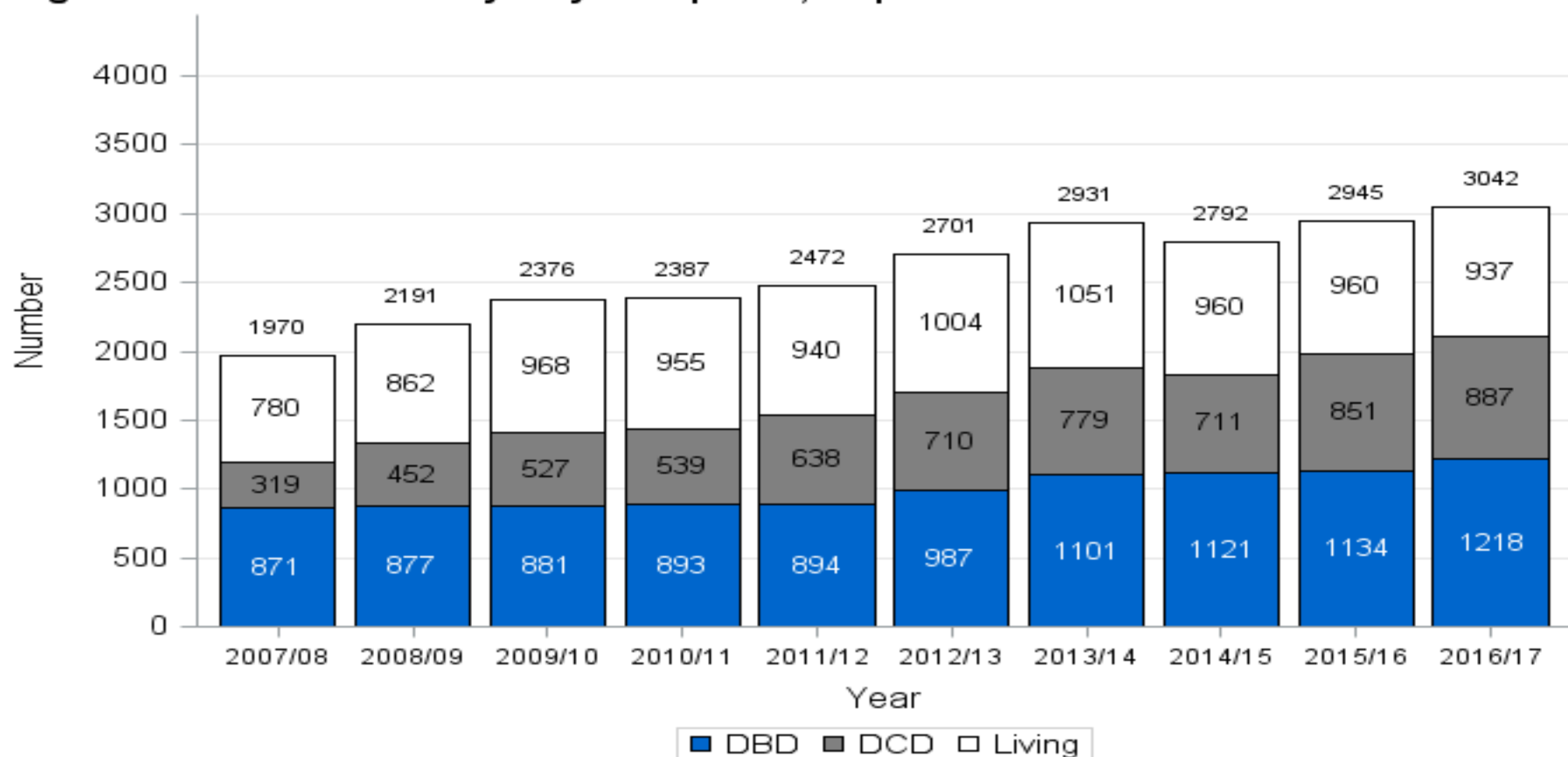


Figure 2.1 Patients on the kidney transplant list at 31 March

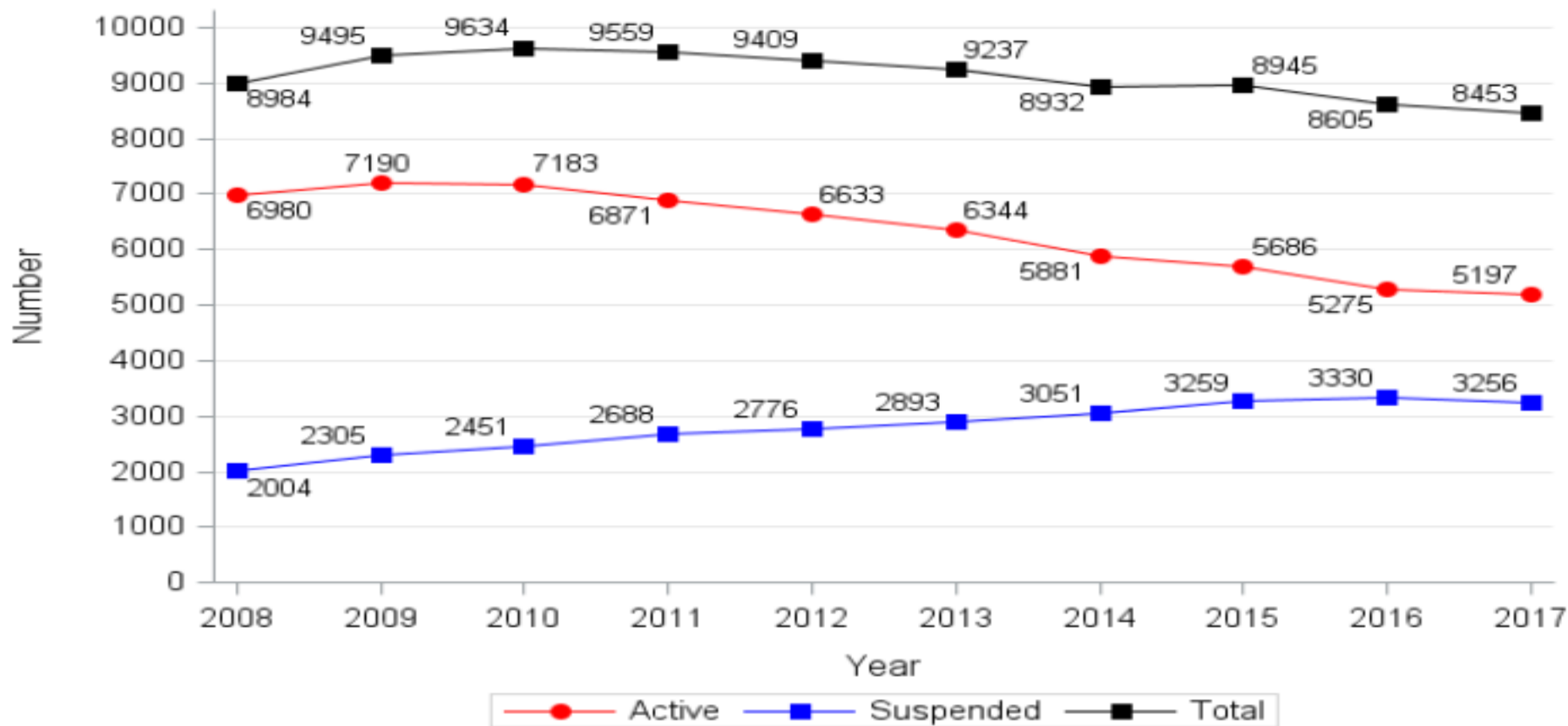


Figure 3.2

Adult patients on the active kidney only transplant list at 31 March 2017, by centre

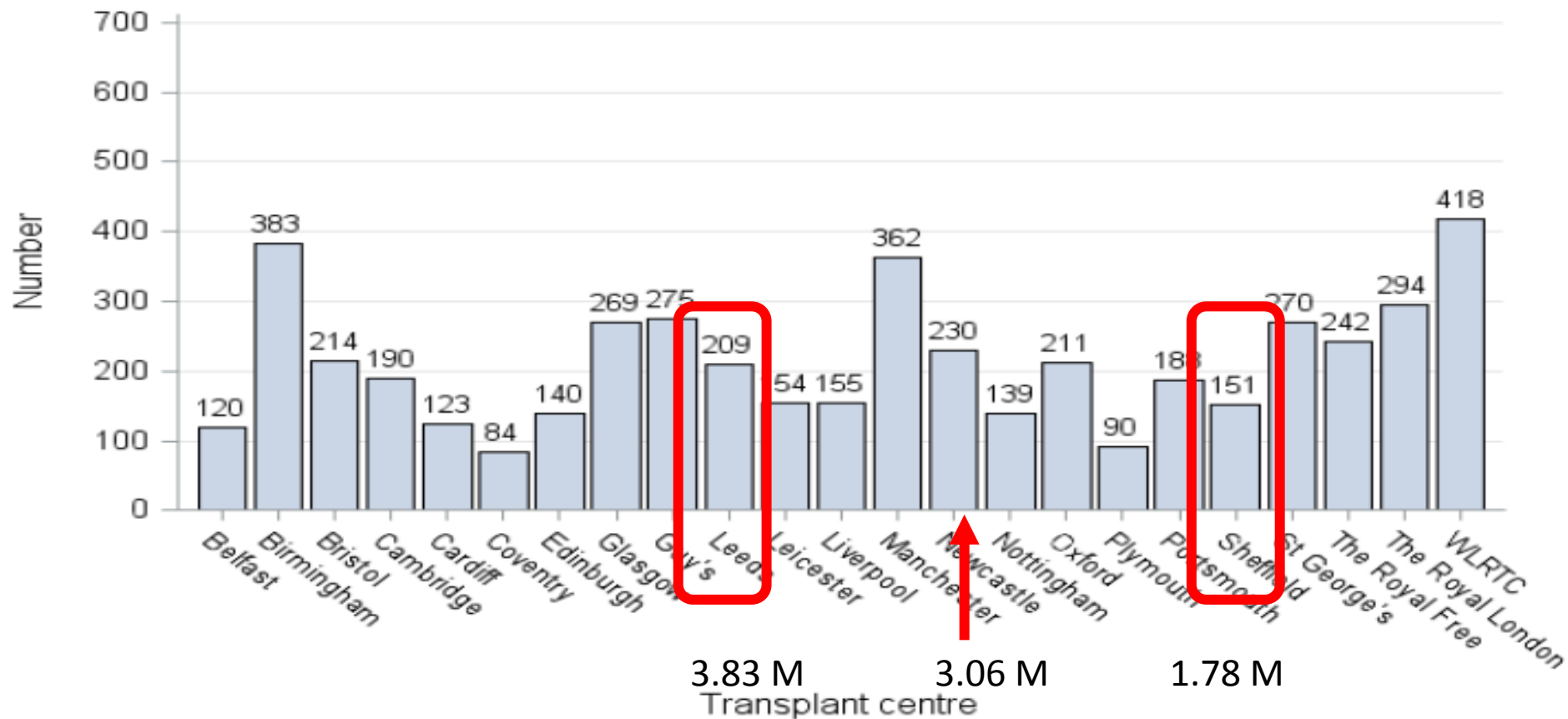


Figure 3.11

**Adult pre-emptive listing rates by centre,
registrations between 1 April 2015 and 31 March 2016**

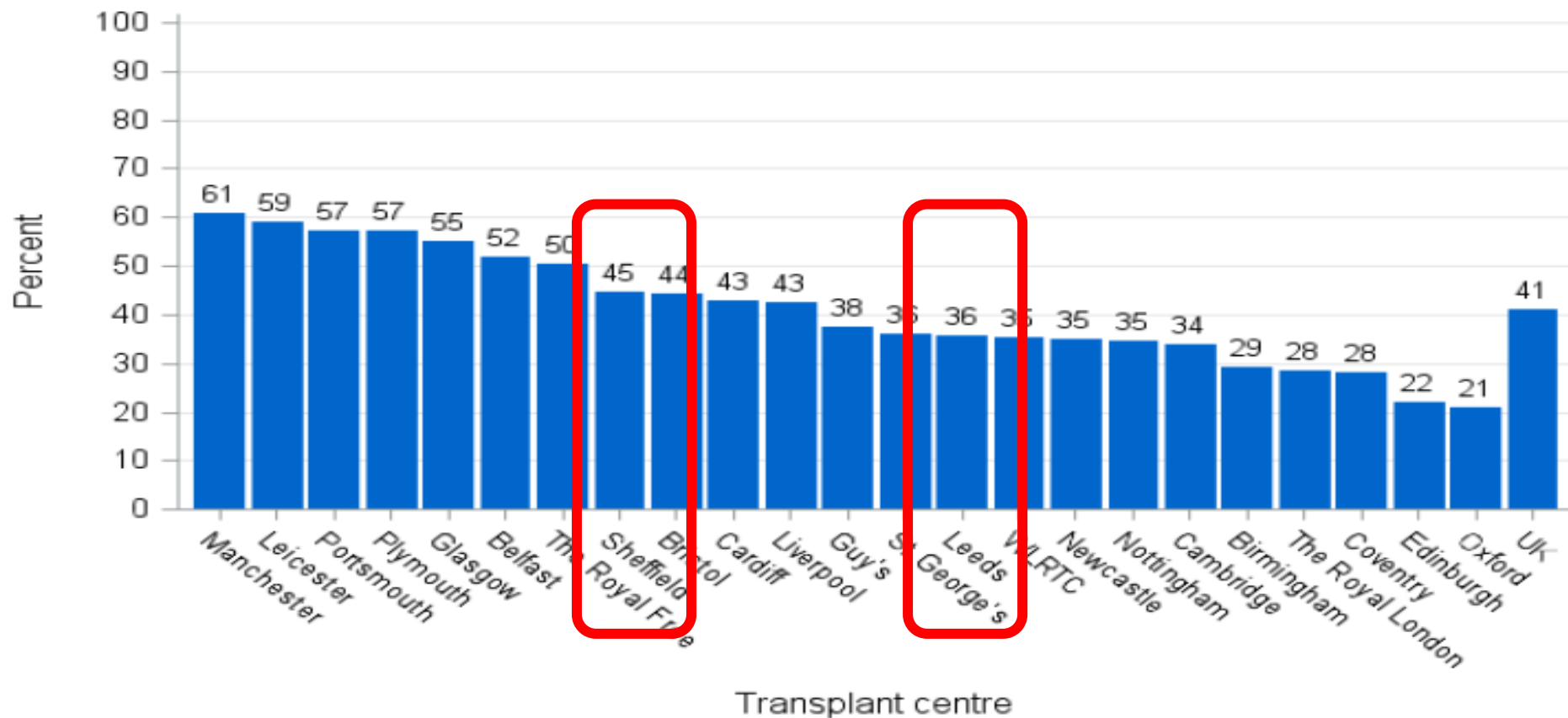


Figure 5.8

Adult deceased donor pre-emptive transplant rates by centre,
1 April 2016 - 31 March 2017

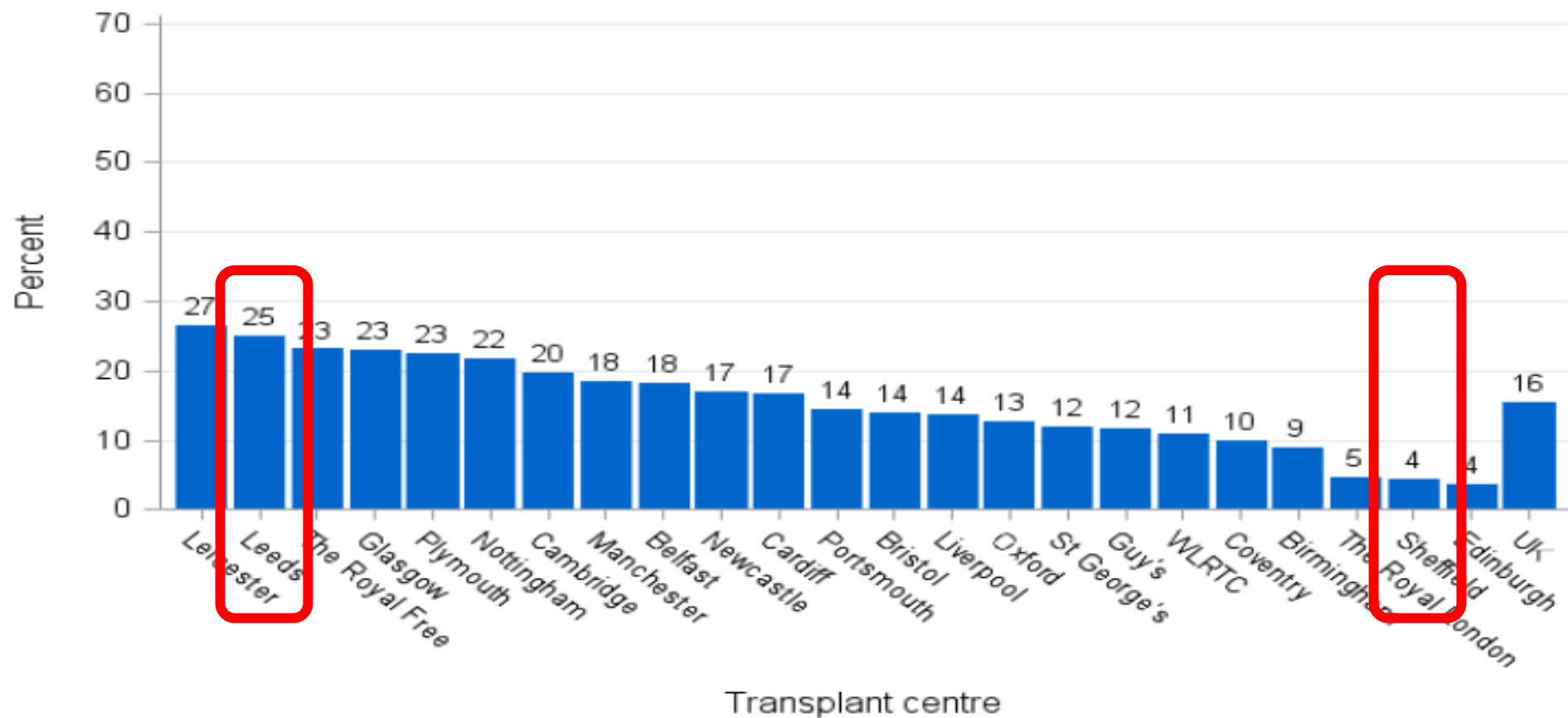


Figure 2.6 Comparison of kidney registration rates (pmp) with deceased donor transplant rates (pmp) by recipient country/Strategic Health Authority of residence

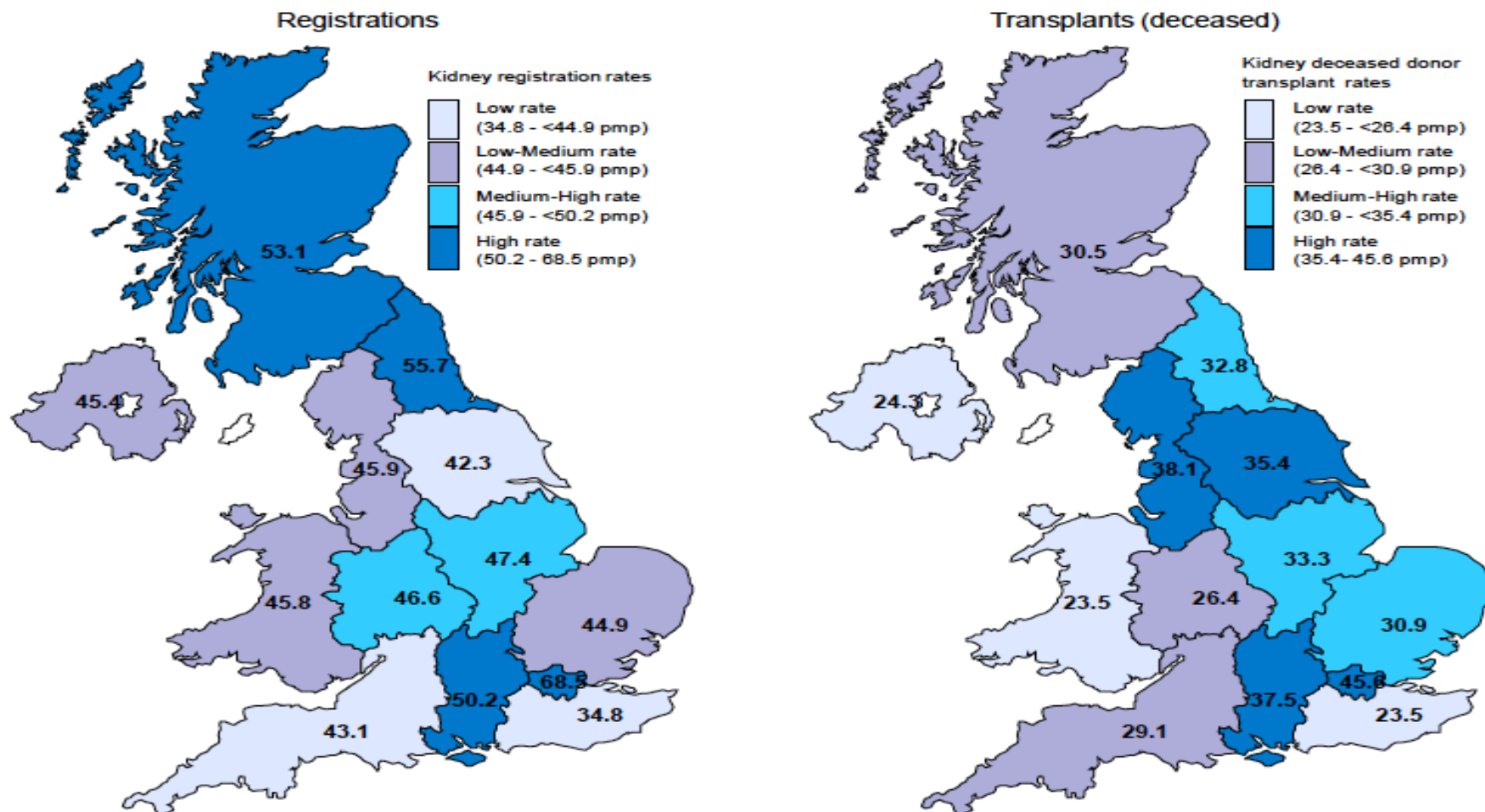
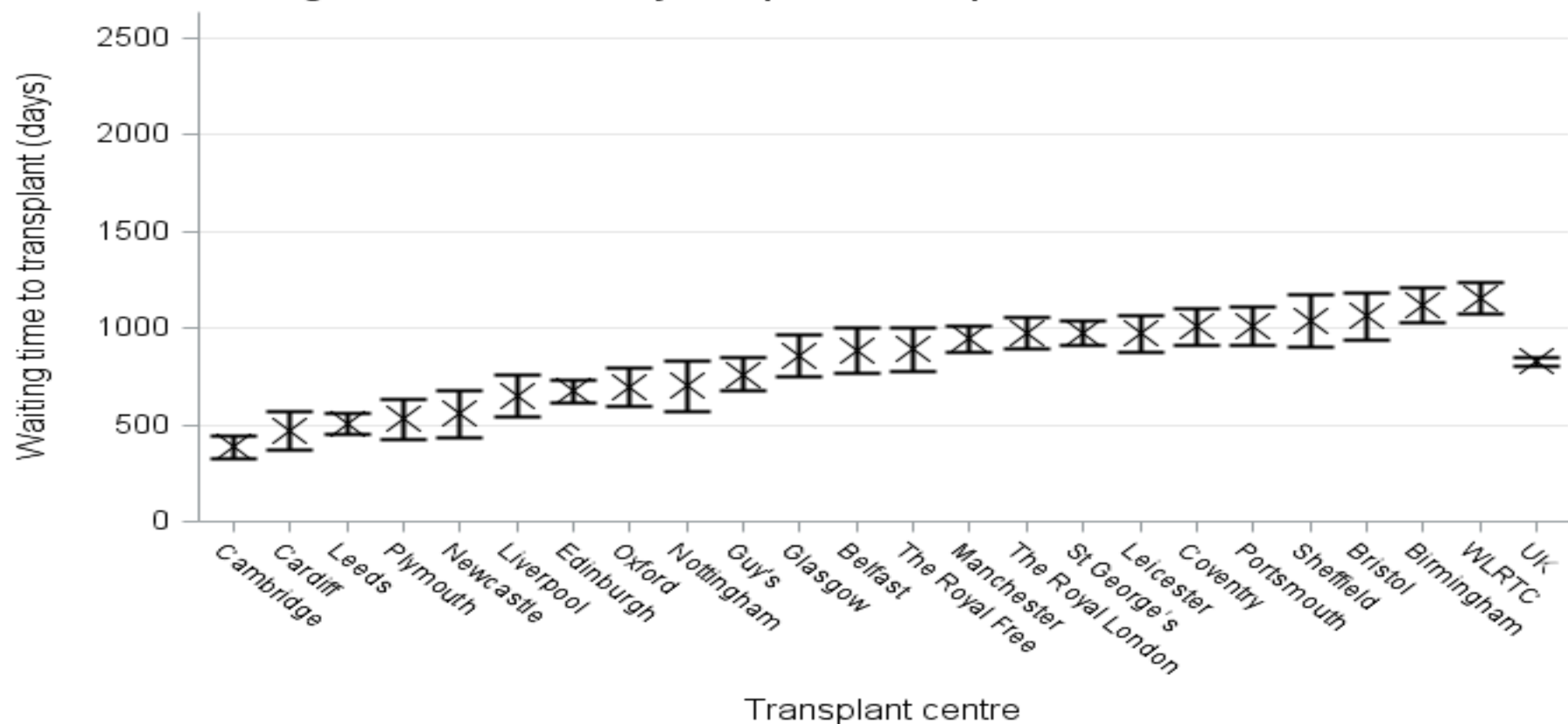


Figure 3.10

Median waiting time to deceased donor transplant for adult patients registered on the kidney transplant list, 1 April 2011 - 31 March 2014



Median Wait Time by Centre 2013-7

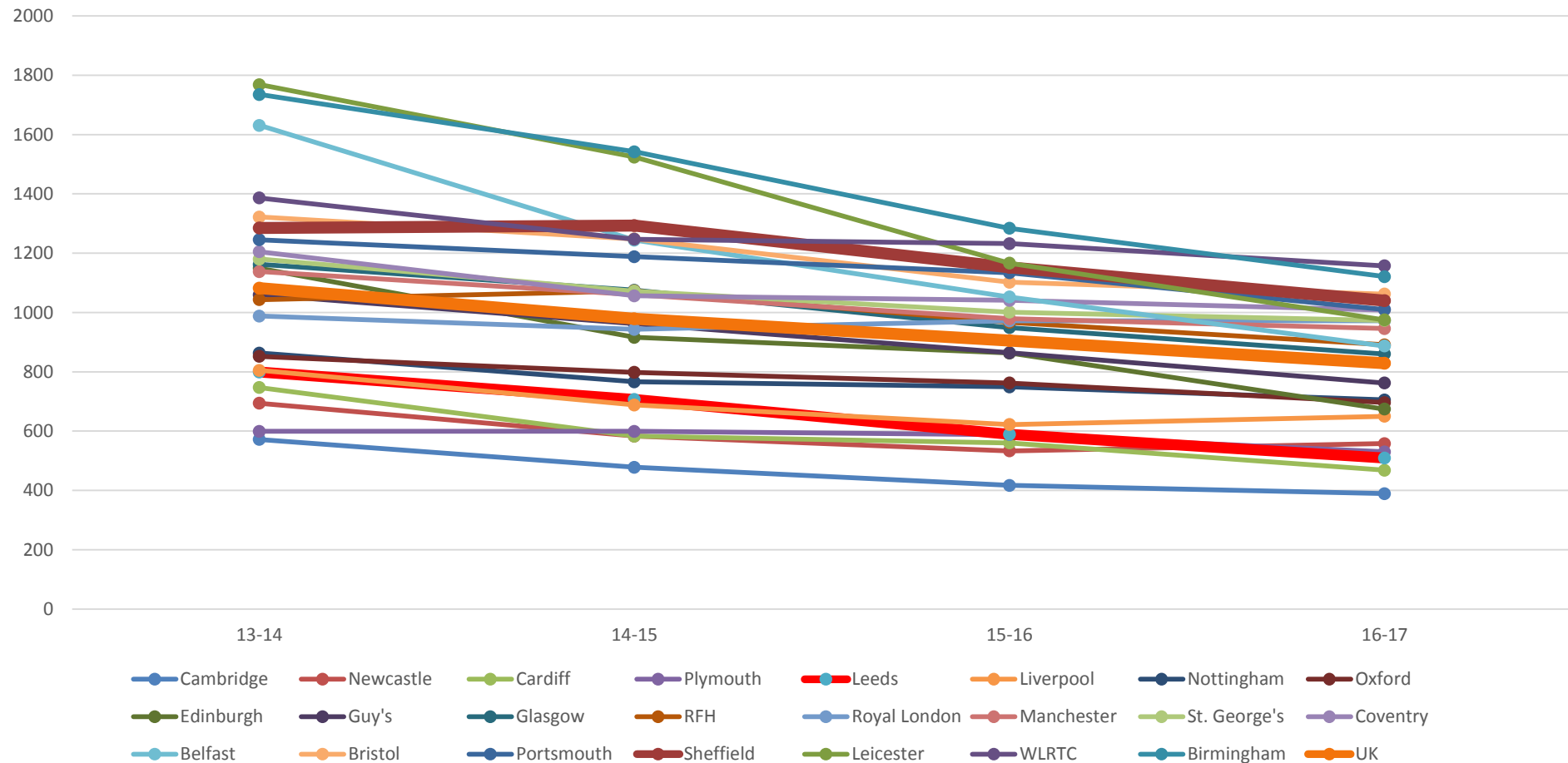


Figure 3.5 Three-year post-registration outcome for 3003 new adult kidney only registrations made in the UK, 1 April 2013 - 31 March 2014, by centre

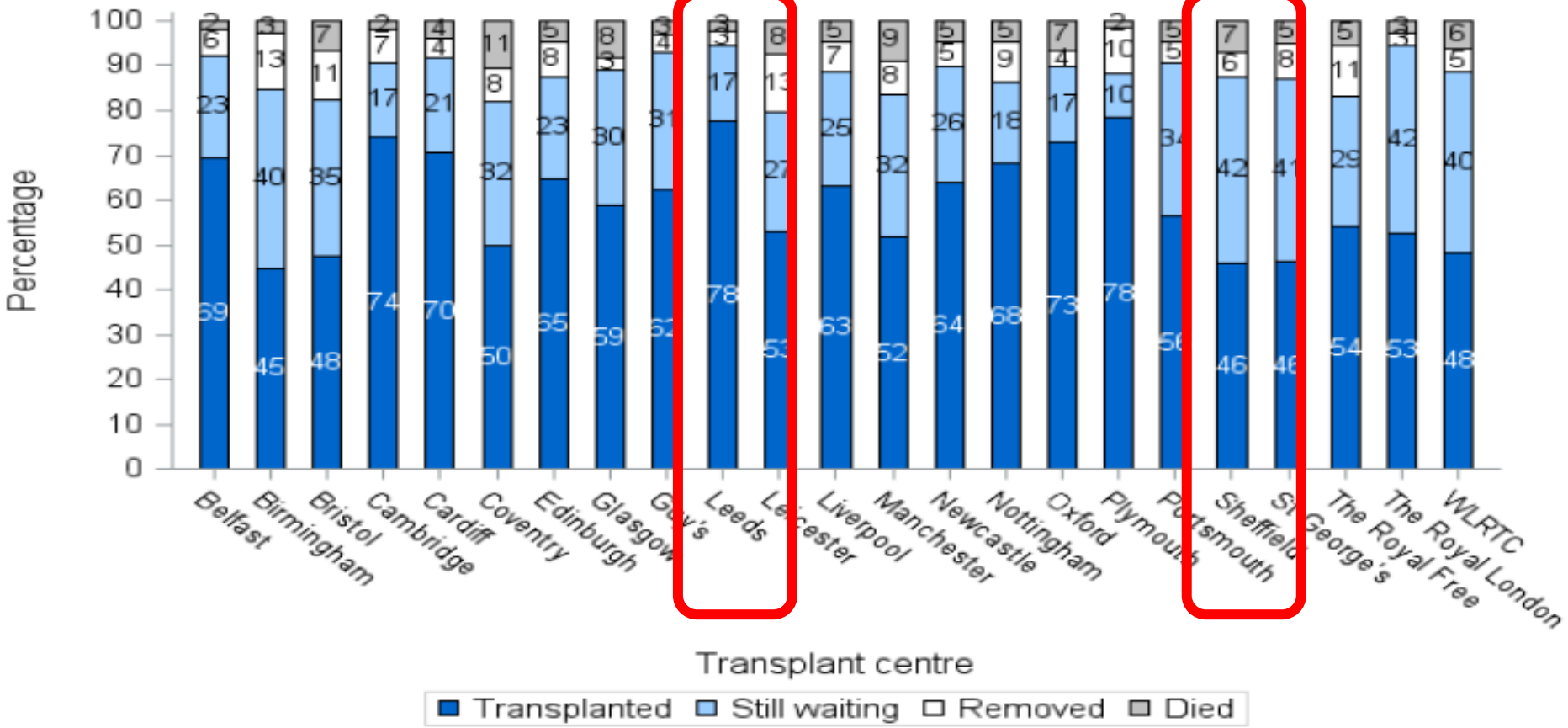


Table 4.1

Adult standard criteria DBD donor kidney offer decline rates by transplant centre, 1 April 2014 and 31 March 2017

Centre	Code	2014/15		2015/16		2016/17		Overall	
		N	(%)	N	(%)	N	(%)	N	(%)
Belfast	A	33	(42)	18	(39)	23	(30)	74	(38)
Birmingham	B	102	(49)	103	(52)	116	(57)	321	(53)
Bristol	C	59	(58)	49	(55)	64	(55)	172	(56)
Cambridge	D	32	(25)	20	(35)	27	(26)	79	(28)
Cardiff	E	24	(46)	26	(42)	26	(46)	76	(45)
Coventry	F	24	(38)	13	(46)	19	(26)	56	(36)
Edinburgh	G	26	(46)	40	(48)	31	(55)	97	(49)
Glasgow	H	46	(39)	58	(47)	68	(63)	172	(51)
Guy's	J	38	(45)	55	(44)	61	(48)	154	(45)
Leeds	K	33	(18)	39	(23)	45	(18)	117	(20)
Leicester	L	106	(70)	42	(55)	41	(37)	189	(59)
Liverpool	M	35	(60)	41	(56)	29	(41)	105	(53)
Manchester	N	85	(42)	63	(33)	77	(45)	225	(41)
Newcastle	O	24	(67)	33	(45)	44	(43)	101	(50)
Nottingham	P	30	(57)	28	(50)	31	(61)	89	(56)
Oxford	Q	24	(38)	30	(23)	40	(50)	94	(38)
Plymouth	R	18	(33)	18	(28)	15	(33)	51	(31)
Portsmouth	S	38	(45)	22	(41)	48	(40)	108	(42)
Sheffield	T	38	(45)	32	(47)	23	(43)	93	(45)
St George's	U	48	(27)	51	(41)	52	(48)	151	(39)
The Royal Free	V	52	(40)	37	(30)	34	(38)	123	(37)
The Royal London	W	60	(37)	61	(48)	77	(35)	198	(39)
WLRTC	X	80	(51)	65	(54)	97	(56)	242	(54)
UK		1055	(46)	944	(44)	1088	(46)	3087	(46)

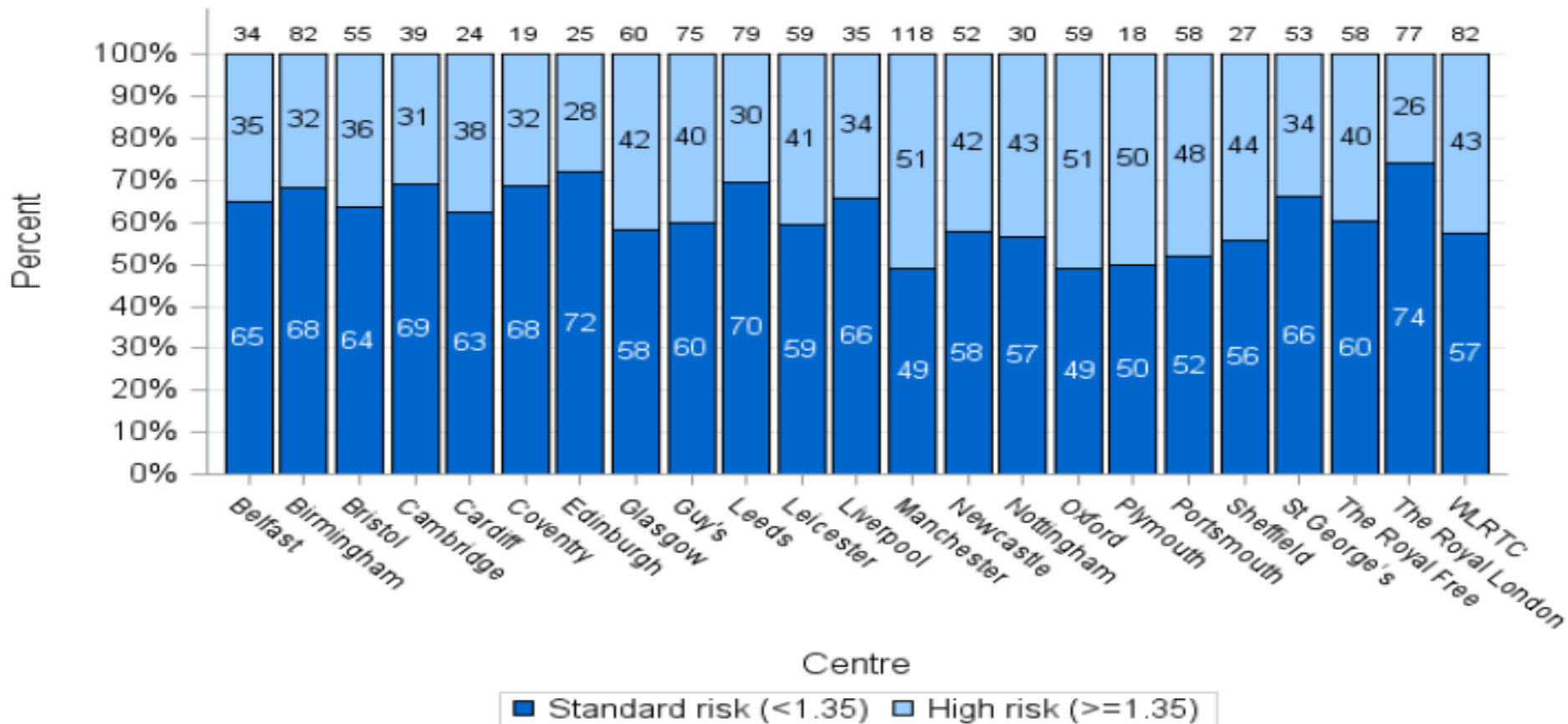
Table 4.2

Adult extended criteria DBD donor kidney offer decline rates by transplant centre, 1 April 2014 and 31 March 2017

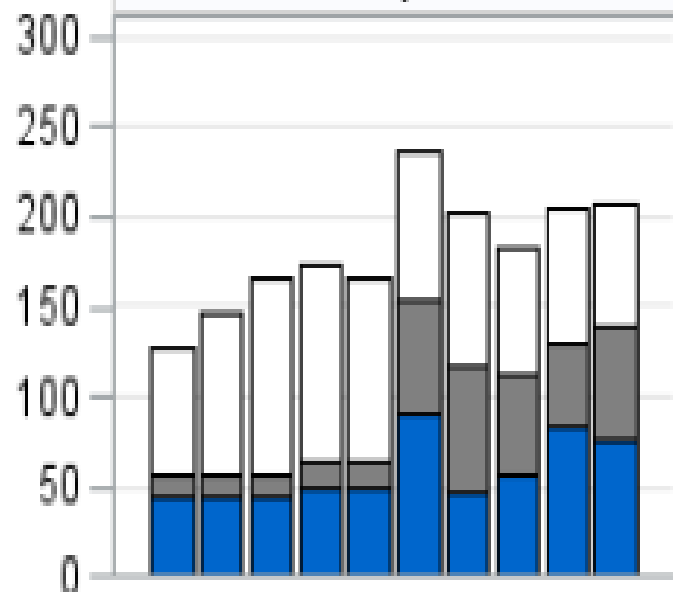
Centre	Code	2014/15		2015/16		2016/17		Overall	
		N	(%)	N	(%)	N	(%)	N	(%)
Belfast	A	18	(39)	26	(46)	26	(42)	70	(43)
Birmingham	B	94	(71)	93	(53)	90	(69)	277	(64)
Bristol	C	44	(50)	84	(65)	73	(64)	201	(62)
Cambridge	D	32	(56)	23	(52)	19	(58)	74	(55)
Cardiff	E	11	(64)	19	(68)	31	(81)	61	(74)
Coventry	F	17	(65)	10	(50)	12	(67)	39	(62)
Edinburgh	G	28	(64)	31	(74)	32	(69)	91	(69)
Glasgow	H	35	(49)	58	(52)	67	(51)	160	(51)
Guy's	J	30	(50)	53	(45)	61	(59)	144	(52)
Leeds	K	27	(41)	29	(38)	30	(50)	86	(43)
Leicester	L	89	(80)	40	(60)	41	(49)	170	(68)
Liverpool	M	28	(68)	32	(63)	32	(56)	92	(62)
Manchester	N	62	(60)	102	(41)	80	(38)	244	(45)
Newcastle	O	18	(56)	28	(57)	33	(55)	79	(56)
Nottingham	P	16	(69)	23	(48)	24	(38)	63	(49)
Oxford	Q	17	(47)	33	(61)	49	(51)	99	(54)
Plymouth	R	11	(36)	10	(20)	15	(47)	36	(36)
Portsmouth	S	44	(34)	38	(55)	49	(45)	131	(44)
Sheffield	T	41	(66)	37	(68)	43	(72)	121	(69)
St George's	U	38	(45)	56	(59)	68	(63)	162	(57)
The Royal Free	V	24	(46)	32	(59)	43	(56)	99	(55)
The Royal London	W	44	(55)	52	(73)	77	(71)	173	(68)
WLRTC	X	72	(58)	84	(51)	90	(61)	246	(57)
UK		840	(58)	993	(55)	1085	(58)	2918	(57)

Figure 5.12

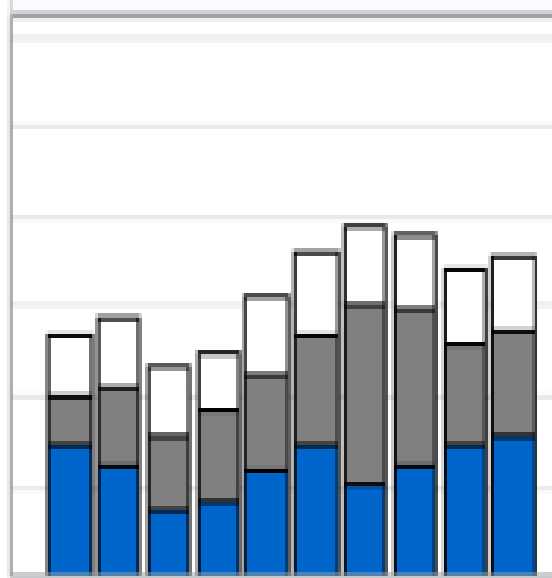
**UK Kidney Donor Risk Index of transplanted DBD donor kidneys
1 April 2016 - 31 March 2017**



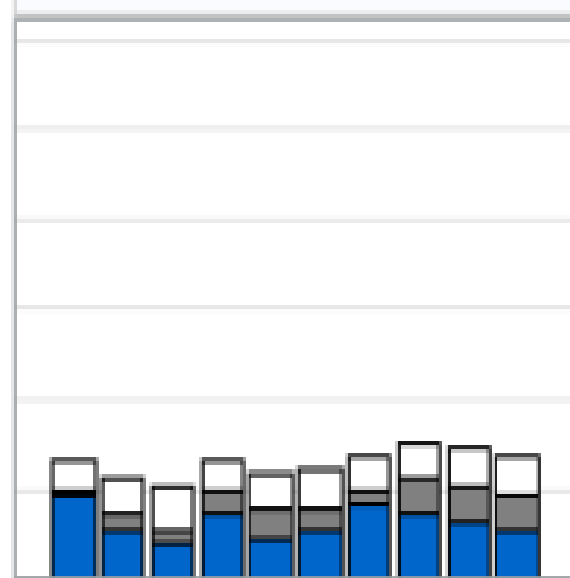
Guy's



Leeds



Sheffield



DBD



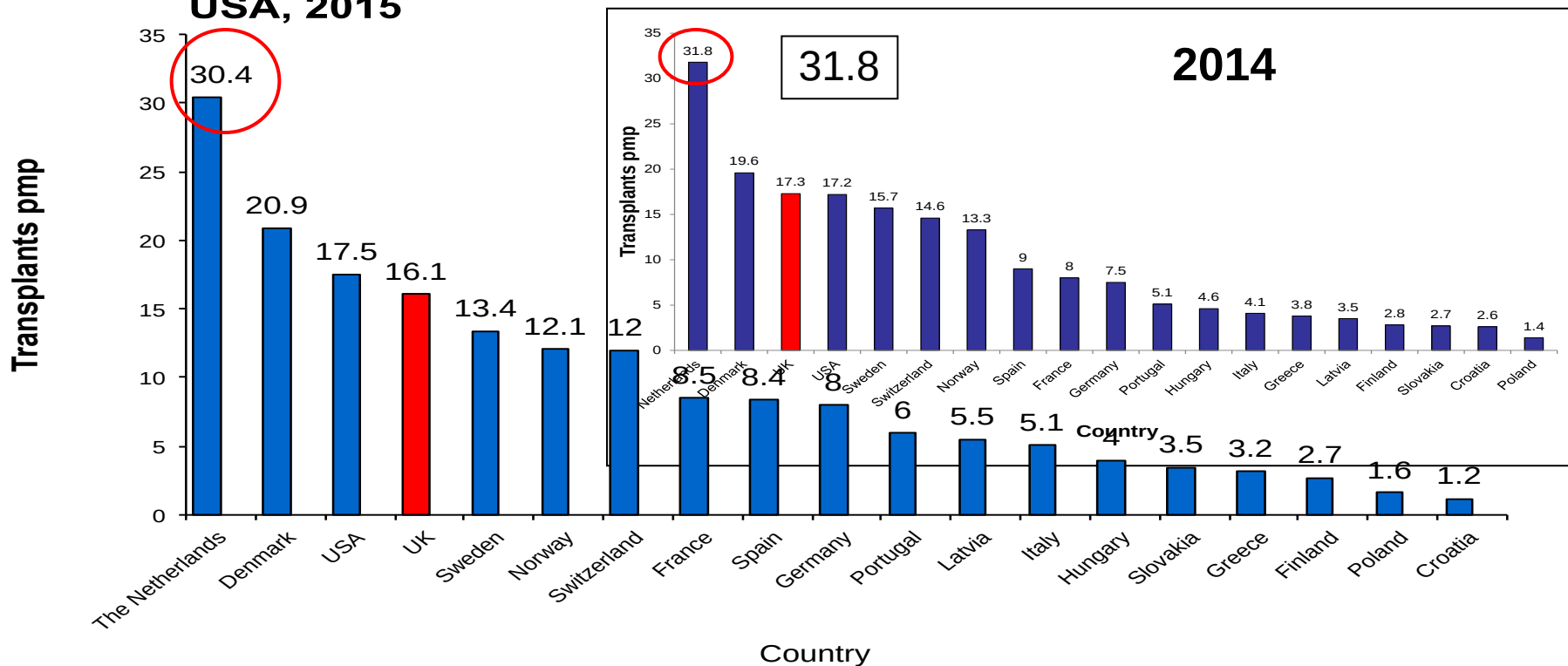
Living



DCD

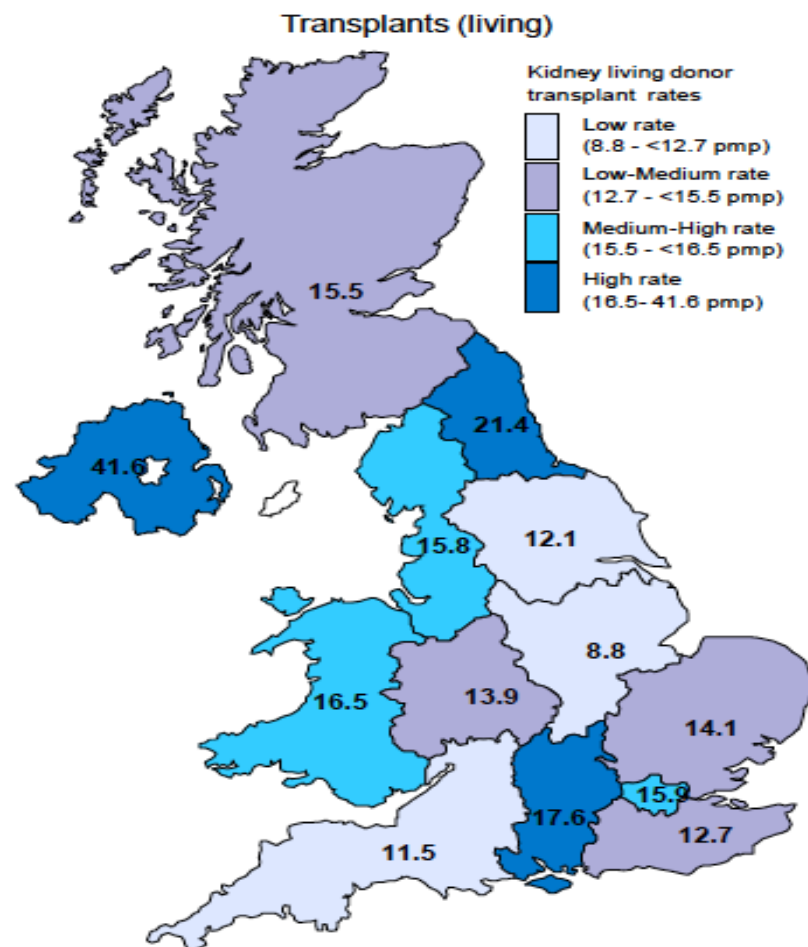
What does world class mean?

Living donor kidney transplant rates for Europe and the USA, 2015



Source: Council of Europe – Transplant Newsletter

Figure 2.7 Living donor kidney transplant rates (pmp) by recipient country/Strategic Health Authority of residence



LD transplantation: Leeds

2015/16

- 46 LD
- 11.5 pmp

2020

- >104 LD
- 26 pmp

	Population (million)	2013-2015			If 26 pmp pa
		total	p.a.	pmp p.a.	no.
Bradford	0.65	18	6	4.6	17
Hull	1.02	43	14	14.0	27
Leeds	1.84	62	21	11.2	48
York	0.49	14	5	9.5	13

Summary

Positives

- Established programme
- Unsuitable rate low
- Pre-emptive rate good
- AiT offered

Challenges

- Increase number of donors
 - Education
 - Attitude?
- Surgical capacity
- Greater use of KSS
 - Compatible pairs
 - Increase proportion transplanted

LD transplantation: Sheffield

2015/16

- 23 LD
- 12.8 pmp

2020

- >47 LD
- 26 pmp

	Population (million)	2013-2015			If 26 pmp pa
		total	p.a.	pmp p.a.	no.
Doncaster	0.41	6	2	4.9	11
Sheffield	1.37	52	17	12.7	36

Summary

Positives

- Established programme
- Surgical skill

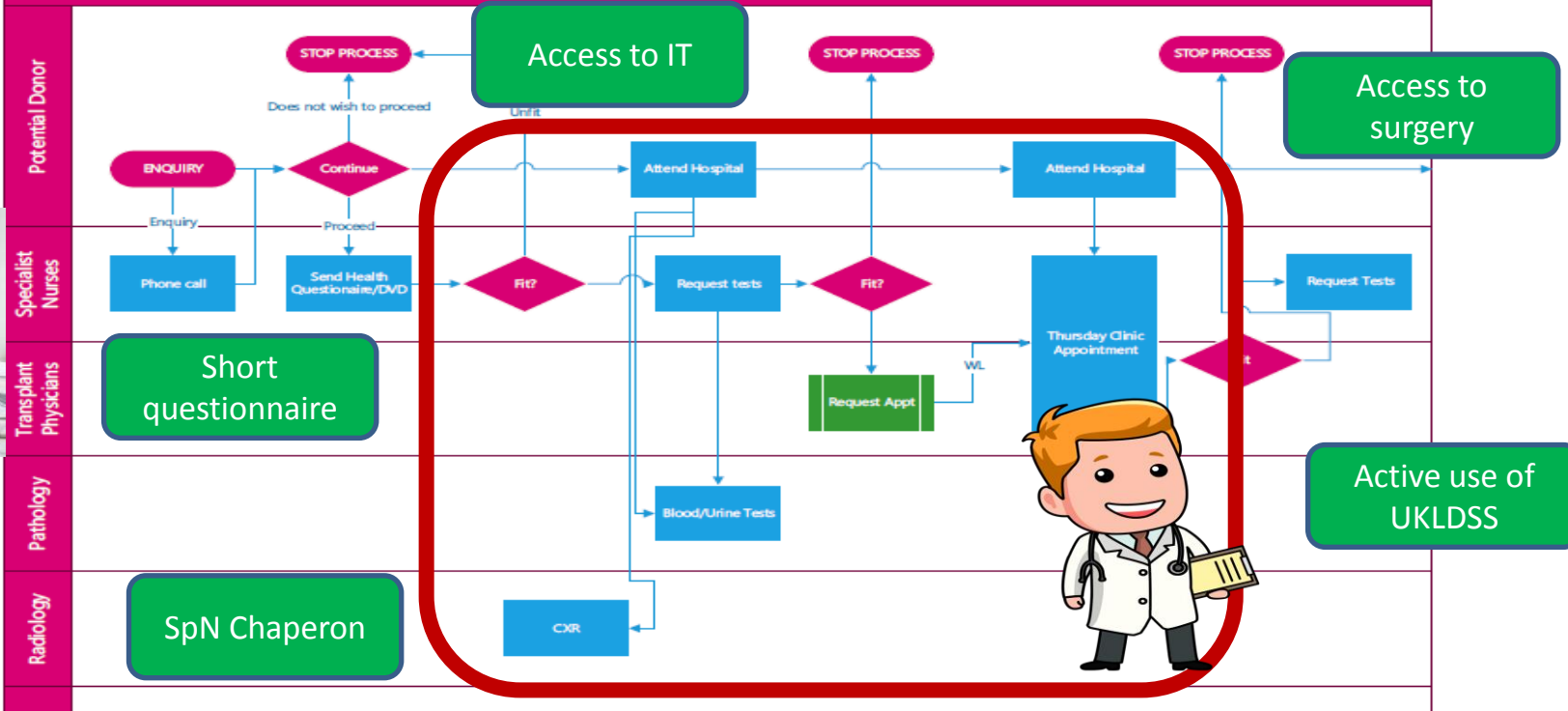
Challenges

- Increase number of donors
 - Education
 - Attitude?
 - Review unsuitable?
- Increase pre-emptive
 - Pathway
 - Surgical capacity
- Kidney Sharing Scheme
- Altruistic

Education of
Colleagues,
Patients and
Families



Leeds Live Donor Pathway 2016



Bypass
Cadaveric
Listing

Factors associated with living donor kidney transplantation: Multivariate analysis

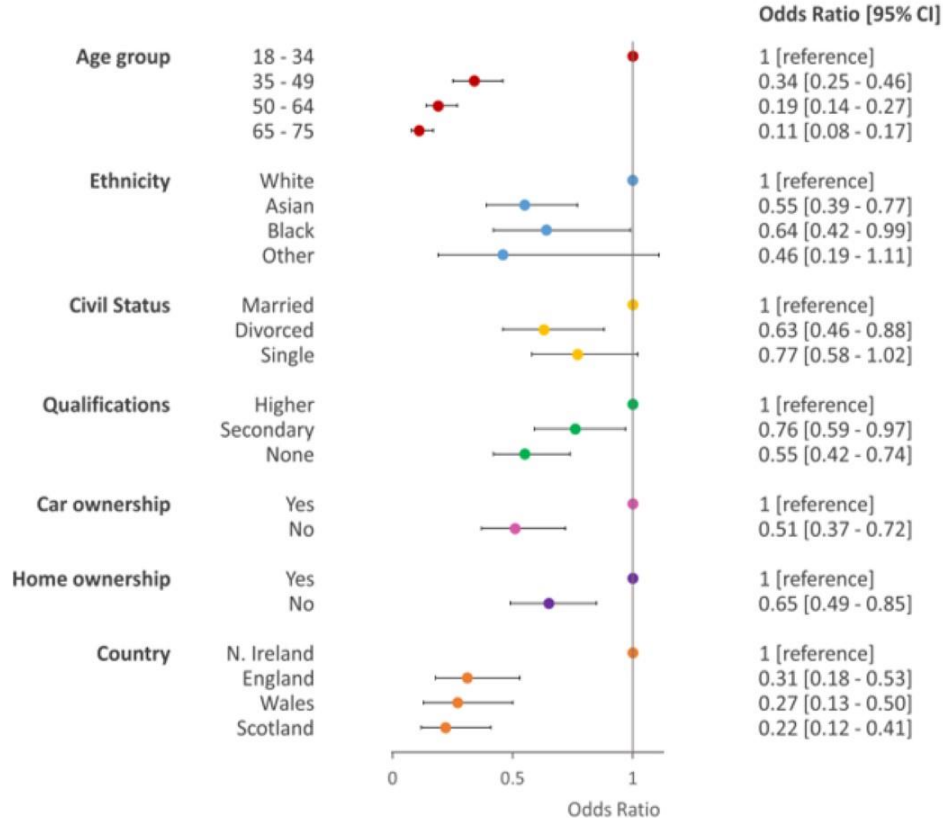


Table 6.1 One and five year first adult kidney-only graft and patient survival using kidneys from deceased donors

Centre	Code	Kidney graft survival				Patient survival			
		One-year*		Five-year**		One-year*		Five-year**	
		%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Belfast	A	94	(87 - 98)	85	(74 - 92)	97	(92 - 99)	81	(68 - 90)
Birmingham	B	94	(91 - 96)	82	(76 - 87)	97	(95 - 99)	92	(86 - 95)
Bristol	C	96	(93 - 98)	87	(80 - 92)	95	(91 - 98)	89	(82 - 93)
Cambridge	D	96	(94 - 98)	89	(85 - 92)	97	(94 - 99)	88	(84 - 92)
Cardiff	E	96	(93 - 98)	91	(87 - 95)	95	(92 - 98)	88	(83 - 91)
Coventry	F	94	(86 - 98)	77	(64 - 87)	94	(85 - 98)	85	(74 - 93)
Edinburgh	G	96	(91 - 98)	86	(79 - 91)	98	(93 - 100)	89	(83 - 93)
Glasgow	H	92	(89 - 95)	91	(86 - 95)	96	(92 - 98)	91	(86 - 95)
Guys	I	93	(90 - 96)	90	(85 - 94)	97	(95 - 99)	90	(84 - 94)
Leeds	K	94	(91 - 96)	84	(79 - 88)	97	(95 - 99)	86	(81 - 90)
Leicester	L	93	(91 - 97)	88	(81 - 93)	98	(96 - 100)	96	(93 - 99)
Liverpool	M	95	(91 - 98)	87	(81 - 91)	95	(91 - 98)	81	(74 - 87)
Manchester	N	97	(95 - 99)	88	(84 - 92)	96	(93 - 97)	90	(86 - 93)
Newcastle	O	95	(92 - 98)	83	(76 - 88)	95	(92 - 98)	83	(77 - 89)
Nottingham	P	95	(91 - 98)	86	(79 - 91)	98	(95 - 100)	85	(78 - 91)
Oxford	Q	95	(91 - 97)	89	(83 - 93)	98	(95 - 99)	87	(81 - 91)
Plymouth	R	91	(83 - 96)	81	(73 - 87)	94	(88 - 98)	91	(86 - 95)
Portsmouth	S	91	(85 - 95)	88	(78 - 92)	95	(91 - 98)	88	(81 - 93)
Sheffield	T	95	(90 - 98)	86	(78 - 92)	97	(93 - 99)	89	(82 - 94)
St George's	U	93	(89 - 95)	89	(82 - 94)	98	(95 - 99)	94	(87 - 97)
The Royal Free	V	94	(91 - 97)	89	(84 - 93)	98	(95 - 99)	91	(86 - 95)
The Royal London	W	90	(85 - 94)	83	(77 - 88)	94	(90 - 97)	83	(76 - 88)
WLRTC	X	96	(93 - 98)	85	(79 - 89)	97	(95 - 99)	91	(86 - 94)
UK		95	(94 - 95)	87	(86 - 88)	97	(96 - 97)	88	(87 - 89)

Table 6.2 One and five year first adult kidney-only graft and patient survival using kidneys from living donors

Centre	Code	Kidney graft survival				Patient survival			
		One-year ^a		Five-year ^{a*}		One-year ^a		Five-year ^{a*}	
		%	(95% CI)	%	(95% CI)	%	(95% CI)	%	(95% CI)
Belfast	A	97	(92 - 99)	95	(87 - 98)	100	N/A	94	(85 - 98)
Birmingham	B	97	(94 - 99)	93	(89 - 96)	98	(95 - 99)	95	(90 - 98)
Bristol	C	97	(93 - 99)	95	(90 - 98)	100	N/A	95	(89 - 98)
Cambridge	D	99	(95 - 100)	94	(88 - 97)	99	(93 - 100)	93	(86 - 97)
Cardiff	E	96	(91 - 99)	92	(84 - 96)	96	(90 - 99)	98	(93 - 100)
Coventry	F	100	N/A	92	(84 - 97)	100	N/A	94	(85 - 98)
Edinburgh	G	100	N/A	89	(80 - 95)	100	N/A	93	(85 - 98)
Glasgow	H	96	(92 - 99)	92	(84 - 96)	100	N/A	91	(80 - 97)
Leeds	I	98	(93 - 100)	89	(81 - 94)	99	(95 - 100)	95	(90 - 98)
Leicester	J	99	(95 - 100)	90	(84 - 94)	99	(93 - 100)	93	(88 - 98)
Liverpool	M	97	(91 - 99)	88	(79 - 94)	98	(94 - 100)	96	(89 - 99)
Manchester	N	97	(94 - 99)	95	(91 - 98)	99	(98 - 100)	93	(88 - 96)
Newcastle	O	99	(95 - 100)	94	(88 - 97)	100	N/A	95	(90 - 98)
Nottingham	P	96	(84 - 99)	89	(77 - 96)	98	(86 - 100)	94	(82 - 99)
Oxford	Q	96	(91 - 99)	94	(90 - 97)	99	(96 - 100)	94	(89 - 98)
Plymouth	R	98	(91 - 100)	90	(76 - 97)	100	N/A	94	(83 - 99)
Sheffield	S	100	N/A	94	(84 - 99)	99	(94 - 100)	94	(79 - 97)
Sheffield	T	98	(93 - 100)	97	(90 - 100)	98	(90 - 100)	98	(89 - 100)
St George's	U	99	(94 - 100)	94	(89 - 97)	99	(98 - 100)	95	(90 - 98)
The Royal Free	V	99	(95 - 100)	95	(89 - 98)	100	N/A	95	(89 - 98)
The Royal London	W	98	(94 - 99)	89	(82 - 94)	99	(94 - 100)	94	(85 - 98)
WLRTC	X	97	(94 - 99)	90	(84 - 94)	99	(96 - 100)	94	(90 - 97)
UK		98	(97 - 98)	93	(92 - 94)	99	(99 - 99)	94	(93 - 95)

Questions?

KQuIP/UKRR Regional Day Yorkshire & Humber

6th July 2017 – 11.30-11.45

Refreshments



KQuIP