

Chapter 5

Adults on in-centre haemodialysis (ICHHD) in the UK at the end of 2024

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Introduction

This chapter describes the population of adult patients with end-stage kidney disease (ESKD) who were receiving regular in-centre haemodialysis (ICHD) in the UK at the end of 2024 (figure 5.1). This population comprises patients who were on ICHD at the end of 2023 and remained on ICHD throughout 2024, as well as patients who commenced/re-commenced ICHD in 2024. This latter group includes both incident kidney replacement therapy (KRT) patients who ended 2024 on ICHD and prevalent KRT patients who switched to ICHD from home haemodialysis (HHD), peritoneal dialysis (PD), or a transplant (Tx) in 2024. Consequently, the cohort of patients receiving ICHD in a centre not only reflects differences in underlying population case-mix, but also differences in the rates of acceptance onto KRT, survival on ICHD, transplantation and home therapies (HHD and PD), and the care of patients on those other modalities, as described in other chapters of this report.

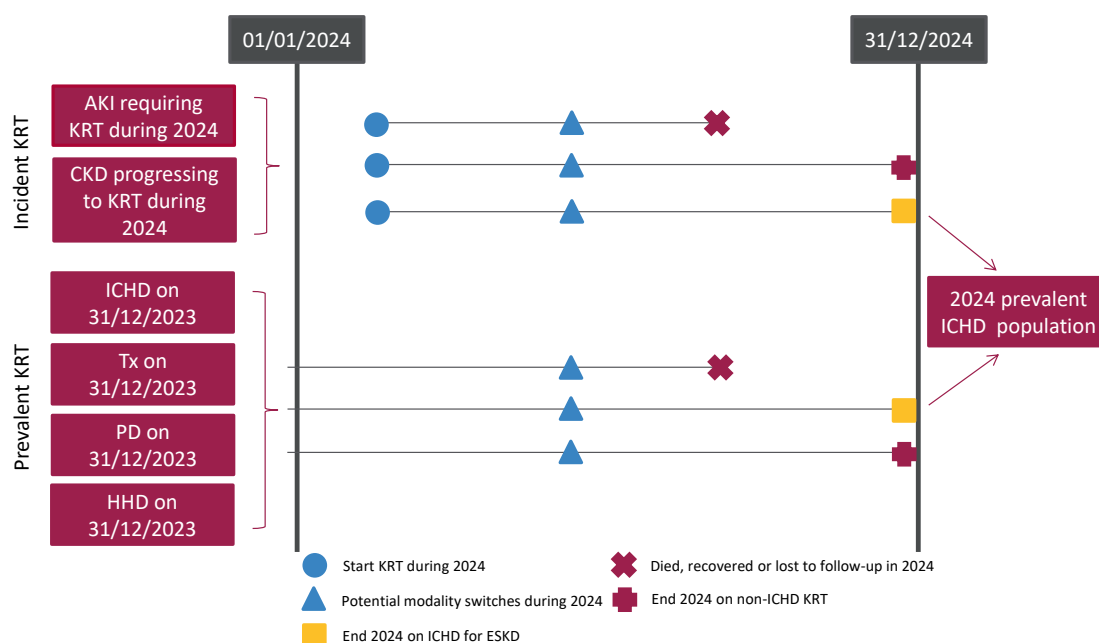


Figure 5.1 Pathways adult patients could follow to be included in the UK 2024 prevalent ICHD population

Note that patients receiving dialysis for acute kidney injury (AKI) are only included in this chapter if they had a timeline or KRT modality code for chronic ICHD at the end of 2024 or if they had been on KRT for ≥ 90 days and were on ICHD at the end of 2024
CKD – chronic kidney disease

The cause of death analyses were undertaken on historic prevalent cohorts to allow sufficient follow-up time.

This chapter addresses the following key aspects of the care of patients on ICHD for which there are UK Kidney Association guidelines (table 5.1):

- **Complications associated with ESKD and ICHD:** these include anaemia and mineral bone disorders.
- **Adequacy of ICHD:** measures of dialysis care include urea clearance and frequency and length of dialysis sessions. Currently, the urea reduction ratio (URR) is the only urea clearance measure routinely reported to the UK Renal Registry (UKRR).
- **Type of ICHD access:** definitive access – either a surgically created arteriovenous fistula (AVF) or arteriovenous graft (AVG). Alternatively, more temporary access can be provided through a central venous catheter – either a tunnelled line (TL) or a non-tunnelled line (NTL).
- **Infections associated with haemodialysis (ICHD and HHD):** analysis of infections is presented for ICHD and HHD combined because kidney centres are not required to submit changes in dialysis modality that last <30 days. It is therefore not possible to attribute accurately an infection to HHD or ICHD. Rates of the four infections subject to mandatory reporting to the UK Health Security Agency (UKHSA) – methicillin-resistant *Staphylococcus aureus* (MRSA), methicillin-sensitive *Staphylococcus aureus* (MSSA), *Escherichia coli* bacteraemia and *Clostridium difficile* - will be added to the UKRR data portal (ukkidney.org/audit-research/data-portals) as new data become available.

Rationale for analyses

The analyses begin with a description of the 2024 prevalent adult ICHD population, including the number on ICHD per million population (pmp), dialysis duration and frequency.

The UK Kidney Association guidelines (ukkidney.org/health-professionals/guidelines/guidelines-commentaries) provide audit measures relevant to the care of patients on ICHD, and the guidelines available during 2024 were used for this audit. Where data permit, attainment of these measures by UK kidney centres in 2024 is reported in this chapter (table 5.1). Audit measures in guidelines that have been archived are not included.

Some audit measures – for example, the target for glycated haemoglobin (HbA1c) in those on hypoglycaemia-inducing treatment – cannot be reported because the completeness of the required data items is too low. Further detail about the completeness of data returned to the UKRR is available through the UKRR data portal (ukkidney.org/audit-research/data-portals). Audit measures that cannot be reported because the required data items were not collected by the UKRR are omitted.

For definitions and methods relating to this chapter see appendix A. Centres were excluded from caterpillar plots and cells were blanked in tables where data completeness for a biochemical variable was <70% and/or the number of patients reported was <10. The number preceding the centre name in each caterpillar plot indicates the percentage of missing data for that centre.

Table 5.1 The UK Kidney Association audit measures relevant to ICHD that are reported in this chapter

The UK Kidney Association guideline	Audit criteria	Related analysis/analyses
CKD mineral bone disorder (2018)	Percentage of patients with serum calcium above the normal reference range of 2.2–2.5 mmol/L	Table 5.6, figure 5.6
HD (2019)	Proportion of patients with pre-dialysis bicarbonate 18–26 mmol/L	Table 5.7, figure 5.8
	Proportion of patients with pre-dialysis potassium 4.0–6.0 mmol/L	Table 5.7, figure 5.9
Anaemia (2020)	Proportion of patients who are not iron replete with a serum ferritin <200 µg/L	Table 5.8, figure 5.13
	Proportion of patients with haemoglobin 100–120 g/L	Table 5.8, figure 5.14
Vascular access (2023)	Amongst all patients receiving haemodialysis for at least 3 months, the proportion dialysing with each access type	Figure 5.16 (partly addressed)
Commentary on the NICE Guideline on Renal Replacement Therapy and Conservative Management (2020)	Number of patients withdrawing from ICHD as a proportion of all deaths on ICHD	Table 5.9, figure 5.17

AVF – arteriovenous fistula; AVG – arteriovenous graft

Key findings

- 27,266 adult patients were receiving ICHD for ESKD in the UK on 31/12/2024, which represented 36.8% of the KRT population. The number of people on ICHD has increased by 2.5% since 2023.
- The number and crude prevalence rate of ICHD patients are increasing in England, but remain stable in other UK countries compared with 2023.
- The median age of ICHD patients was 65.5 years, and 62.7% were male.
- 80.0% of ICHD patients achieved a dialysis adequacy of URR >65%. This has been declining since 2020.
- 89.1% of ICHD patients had dialysis 3 times a week and a further 1.1% had dialysis more frequently than this.
- 63.0% of ICHD patients had dialysis for 4-5 hours per session, same as last year and lower than previously, 63.5% in 2023, 66.6% in 2021, 66.4% in 2020 and 70.9% in 2019.
- The median adjusted calcium for ICHD patients was 2.3 mmol/L and 8.4% were above the target range 2.2-2.5 mmol/L.
- The median pre-dialysis bicarbonate for ICHD patients was 23 mmol/L and 83.0% were within the target range 18-26 mmol/L.
- The median pre-dialysis potassium for ICHD patients was 4.8 mmol/L and 5.3% had a pre-dialysis potassium of >6 mmol/L.
- The median haemoglobin and ferritin for ICHD patients was 111 g/L and 539 µg/L, respectively.
- 21.5% of ICHD patients had a haemoglobin <100 g/L and 21.5% had a haemoglobin >120 g/L.
- The leading cause of death in patients under 65 years was cardiac disease at 25.8%, with infection accounting for 15.9% of deaths. In those older than 65 years, the leading cause of death was cardiac disease (18.7%) and infection (16.8%).

For information on data quality issues relating to the following centres see Appendix A section 2.2: Antrim, Belfast, Cambridge, Ipswich, Manchester Royal Infirmary, and Ulster.

Analyses

Changes to the prevalent adult ICHD population

For the 67 adult kidney centres, the number of prevalent patients on ICHD was calculated as both a proportion of the prevalent patients on KRT and as a proportion of the estimated centre catchment population (calculated as detailed in appendix A).

Table 5.2 Number of adult patients prevalent to ICHD and proportion of adult KRT patients on ICHD by year and by centre; number of ICHD patients as a proportion of the catchment population

Centre	N on ICHD					% on ICHD					Estimated catchment population (millions)	2024 crude rate (pmp)
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024		
ENGLAND												
Bham	1,314	1,349	1,417	1,409	1,433	40.3	40.8	41.8	41.3	41.3	2.13	673
Bradfd	276	275	309	346	356	38.1	37.4	39.6	41.9	42.3	0.52	690
Brightn	426	425	423	456	483	39.5	39.0	38.6	39.7	40.9	1.10	440
Bristol	463	477	491	473	460	31.4	31.9	32.3	31.2	30.2	1.29	357
Camb	276	358	363	329	383	18.3	22.1	21.9	20.2	22.4	1.00	381
Carlisle	110	114	106	108	128	37.2	37.3	35.1	35.4	38.6	0.26	487
Carsh	858	883	886	923	990	46.4	46.4	45.8	46.2	47.4	1.71	580
Colchr	150	146	155	165	181	100.0	100.0	100.0	100.0	100.0	0.30	599
Covnt	365	371	372	393	389	32.9	32.9	32.9	34.1	33.5	0.82	475
Derby	244	262	291	285	323	36.1	37.9	40.5	38.8	41.7	0.59	552
Donc	177	175	200	199	196	51.9	51.3	52.6	51.3	51.3	0.39	508
Dorset	298	304	327	332	323	37.4	38.6	41.3	40.6	38.8	0.76	424
Dudley	209	223	212	202	185	55.9	55.3	55.4	54.4	51.5	0.36	519
EssexMS	423	427	433	474	497	47.8	47.7	48.6	48.7	49.4	1.03	484
Exeter	462	450	453	482	508	42.3	41.6	41.4	42.5	42.9	1.00	507
Glouc	222	223	231	222	221	42.5	40.9	41.5	39.6	38.3	0.53	413
Hull	351	361	358	381	384	38.4	39.4	38.3	39.8	39.5	0.82	466
Ipswi	135	138	131	144	154	31.7	32.7	33.1	36.0	38.5	0.32	477
Kent	425	458	474	477	492	37.2	38.4	38.9	38.3	38.5	1.10	446
L Barts	1,041	1,087	1,150	1,213	1,292	39.0	39.9	40.5	40.9	41.2	1.64	787
L Guys	692	733	714	693	691	29.9	31.5	30.9	30.1	30.0	1.02	675
L Kings	618	672	701	685	680	49.3	50.4	50.3	47.8	46.2	0.96	709
L Rfree	722	747	773	821	827	30.9	31.2	31.9	33.0	32.6	1.29	639
L St.G	320	325	305	313	312	37.4	37.1	35.5	35.6	34.1	0.68	459
L West	1,272	1,292	1,321	1,368	1,364	36.0	36.4	36.6	37.0	37.0	2.06	661
Leeds	549	580	611	648	685	31.3	32.5	33.2	33.9	34.5	1.43	480
Leic	957	1,001	1,038	1,061	1,087	36.5	38.0	38.1	37.7	37.2	2.21	491
Liv UH	523	549	558	539	565	36.2	37.6	37.8	35.9	36.9	1.29	439
M RI	504	510	542	588	624	25.4	24.7	25.7	26.0	29.3	1.39	450
Middlbr	327	350	344	368	371	34.6	36.5	36.0	37.9	37.0	0.83	446
Newc	355	350	376	401	382	29.7	28.6	30.2	31.2	29.9	0.97	393
Norwch	290	292	304	314	310	35.8	36.5	37.9	38.9	38.9	0.72	432
Nottm	349	363	362	358	375	28.9	29.8	30.0	29.9	30.2	0.95	396
Oxford	475	460	478	509	505	23.5	23.0	23.0	24.0	23.3	1.56	323
Plymth	145	160	157	152	153	26.9	29.6	29.1	28.4	28.3	0.42	364
Ports	608	651	674	696	710	32.0	33.5	33.7	34.3	34.3	1.81	391
Prestn	499	499	512	528	552	36.5	36.3	36.6	36.9	36.5	1.29	428
Redng	300	307	338	374	395	34.5	34.9	36.6	37.8	37.9	0.75	524
Salford	432	414	450	501	512	34.1	34.0	35.4	36.4	36.4	1.21	424
Sheff	552	561	577	584	606	36.9	37.4	38.8	39.5	40.3	1.14	531
Shrew	174	183	171	172	158	40.7	41.4	38.3	37.1	34.9	0.43	367
Stevng	543	535	572	607	617	55.4	52.3	53.6	54.3	53.9	1.17	526

Table 5.2 Continued

Centre	N on ICHD					% on ICHD					Estimated catchment population (millions)	2024 crude rate (pmp)
	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024		
Stoke	252	266	320	335	336	30.9	31.5	35.3	36.4	36.8	0.76	442
Sund	219	215	228	230	254	39.4	39.4	40.4	39.0	40.5	0.55	459
Truro	158	185	198	189	178	35.6	40.0	42.0	40.5	39.1	0.37	480
Wirral	194	191	192	165	179	46.4	45.8	47.5	42.7	42.5	0.49	366
Wolve	326	347	376	416	454	49.8	49.9	51.9	52.6	54.6	0.56	807
York	192	189	196	206	218	33.6	32.5	32.2	33.8	35.6	0.50	436
N IRELAND												
Antrim	110	115	115	120	112	38.3	38.9	37.6	38.7	37.1	0.25	448
Belfast	144	131	139	138	146	16.2	14.4	15.0	14.7	15.8	0.54	270
Newry	78	86	77	77	86	29.5	30.6	28.6	27.9	29.0	0.24	359
Ulster	96	98	99	96	81	47.8	48.3	47.6	45.7	42.0	0.21	392
West NI	118	105	107	109	114	33.6	31.0	30.1	30.6	31.1	0.25	448
SCOTLAND												
Abrdn	192	190	190	209	220	34.0	32.8	32.2	34.2	35.0	0.50	436
Airdrie	190	189	198	215	195	37.0	37.6	38.5	39.1	35.6	0.47	413
D&Gall	56	53	48	45	63	35.7	34.4	32.7	30.6	39.6	0.12	516
Dundee	155	144	134	141	140	36.6	35.8	34.6	36.8	38.7	0.37	376
Edinb	287	279	287	297	307	32.4	30.3	29.8	30.0	29.5	0.86	358
Glasgw	548	563	607	584	591	29.7	30.4	32.1	30.6	30.7	1.40	423
Inverns	92	92	84	100	89	33.8	33.6	30.3	34.1	31.7	0.23	390
Klmarnk	145	135	142	157	155	39.4	36.9	38.0	40.7	40.2	0.29	526
Krkldy	145	163	160	171	175	50.2	56.0	56.1	59.8	62.1	0.28	629
WALES												
Bangor	78	76	76	68	81	36.1	35.0	34.5	31.2	35.7	0.16	505
Cardff	512	531	571	589	574	30.5	31.2	32.5	32.2	31.2	1.18	488
Clwyd	78	84	85	97	98	38.2	41.6	41.7	43.5	44.1	0.18	531
Swansea	394	404	392	434	443	46.4	47.4	46.2	48.3	46.3	0.76	580
Wrexms	114	103	106	118	118	35.4	34.0	34.5	36.2	35.1	0.21	556
TOTALS												
England	20,772	21,433	22,170	22,834	23,478	35.9	36.4	36.9	37.1	37.3	46.50	505
N Ireland	546	535	537	540	539	27.4	26.4	26.0	25.8	25.9	1.49	361
Scotland	1,810	1,808	1,850	1,919	1,935	34.0	33.8	34.1	34.6	34.5	4.53	427
Wales	1,176	1,198	1,230	1,306	1,314	35.9	36.6	36.8	37.4	36.7	2.50	526
UK	24,304	24,974	25,787	26,599	27,266	35.5	35.9	36.4	36.6	36.8	55.02	496

Country ICHD populations were calculated by summing the ICHD patients from centres in each country. Estimated country populations were derived from publicly available sources (see appendix A for details on estimated catchment population by kidney centre)

pmp – per million population

Demographics of prevalent adult ICHD patients

The proportion of ICHD patients from each ethnic group is shown for patients with ethnicity data – the proportion of patients in each centre with no ethnicity data is shown separately.

Table 5.3 Demographics of adult patients prevalent to ICHD on 31/12/2024 by centre

Centre	N on KRT	N on ICHD	% on ICHD	Median age (yrs)	% male	Ethnicity				
						% White	% Asian	% Black	% Other	% missing
ENGLAND										
Bham	3,469	1,433	41.3	65.6	61.8	49.1	31.6	16.5	2.8	2.0
Bradfd	841	356	42.3	61.8	61.0	42.1	52.0	3.4	2.5	0.6
Brightn	1,180	483	40.9	67.6	62.1	84.7	6.4	4.2	4.6	6.4
Bristol	1,524	460	30.2	62.0	67.0	78.8	5.9	12.9	2.4	0.7
Camb	1,711	383	22.4	71.1	65.3	93.7	1.9	2.8	1.7	5.2
Carlisle	332	128	38.6	65.2	60.2	96.7	0.8	1.7	0.8	5.5
Carsh	2,088	990	47.4	65.7	60.8	55.8	21.2	16.3	6.7	7.9
Colchr	181	181	100.0	70.5	68.0	88.9	1.5	3.7	5.9	25.4
Covnt	1,160	389	33.5	67.2	63.8	72.8	18.0	7.3	1.8	1.5
Derby	775	323	41.7	67.0	64.4	74.7	18.4	4.3	2.5	14.2
Donc	382	196	51.3	68.8	63.8	88.7	3.6	3.6	4.2	14.3
Dorset	832	323	38.8	70.9	62.5	94.4	2.2	0.9	2.5	0.3
Dudley	359	185	51.5	71.6	63.8	76.8	15.1	7.6	0.5	0.0
EssexMS	1,006	497	49.4	66.5	66.2	81.1	5.4	8.2	5.2	7.2
Exeter	1,183	508	42.9	71.7	68.5	97.0	1.6	0.6	0.8	3.1
Glouc	577	221	38.3	69.7	61.5	87.3	4.1	4.1	4.5	0.0
Hull	971	384	39.5	64.1	60.9	93.9	1.6	2.1	2.4	2.6
Ipswi	400	154	38.5	69.8	64.9	86.5	2.0	3.4	8.1	3.9
Kent	1,277	492	38.5	64.6	61.0	88.7	3.1	3.3	4.8	2.6
L Barts	3,138	1,292	41.2	63.1	57.6	22.8	39.2	32.5	5.5	1.5
L Guys	2,300	691	30.0	63.5	60.8	37.2	9.5	45.3	8.0	5.5
L Kings	1,472	680	46.2	63.0	61.2	34.9	11.7	48.0	5.5	3.1
L Rfree	2,533	827	32.6	64.0	61.4	34.6	19.5	27.3	18.6	5.7
L St.G	916	312	34.1	65.3	60.3	26.6	28.3	35.5	9.6	6.1
L West	3,688	1,364	37.0	64.9	64.4	27.0	42.2	24.3	6.6	0.0
Leeds	1,987	685	34.5	63.0	63.1	67.5	23.0	7.8	1.8	0.3
Leic	2,920	1,087	37.2	64.6	64.9	70.2	20.5	7.3	2.0	9.4
Liv UH	1,531	565	36.9	63.7	64.6	86.5	4.6	3.8	5.0	11.9
M RI	2,128	624	29.3	63.8	62.7	55.7	21.4	17.2	5.6	3.4
Middlbr	1,002	371	37.0	65.2	63.1	89.9	6.4	2.2	1.4	3.5
Newc	1,276	382	29.9	64.0	62.3	90.6	4.7	2.6	2.1	0.0
Norwch	797	310	38.9	70.8	65.5	93.9	2.4	2.0	1.6	20.6
Nottm	1,240	375	30.2	63.8	62.7	72.6	7.7	13.4	6.3	2.7
Oxford	2,170	505	23.3	65.5	64.0	69.7	14.4	10.3	5.6	7.9
Plymth	540	153	28.3	68.0	60.8	98.0	1.3	0.0	0.7	0.7
Ports	2,070	710	34.3	66.0	66.2	90.2	5.0	1.8	3.0	21.0
Prestn	1,512	552	36.5	65.0	64.5	81.1	16.2	2.1	0.6	13.9
Redng	1,043	395	37.9	66.6	64.8	60.2	20.4	8.4	11.1	15.4
Salford	1,408	512	36.4	59.5	64.6	64.8	23.8	7.7	3.7	4.1
Sheff	1,503	606	40.3	64.5	64.0	80.5	10.8	5.8	2.9	2.6
Shrew	453	158	34.9	70.0	66.5	87.7	6.5	3.9	1.9	1.9
Stevng	1,144	617	53.9	66.2	63.2	62.5	19.0	11.7	6.8	4.5
Stoke	913	336	36.8	68.8	60.7	87.6	5.7	2.9	3.8	6.3
Sund	627	254	40.5	67.4	63.4	94.9	3.1	0.8	1.2	0.0
Truro	455	178	39.1	69.5	66.9	98.9	0.6	0.6	0.0	0.0
Wirral	421	179	42.5	64.0	59.2	92.2	3.9	3.9	0.0	0.0
Wolve	831	454	54.6	65.0	61.9	62.2	19.1	4.9	13.8	0.9

Table 5.3 Continued

Centre	N on KRT	N on ICHD	% on ICHD	Median age (yrs)	% male	Ethnicity				
						% White	% Asian	% Black	% Other	% missing
York	613	218	35.6	73.0	59.6	96.2	1.9	0.0	1.9	2.8
N IRELAND										
Antrim	302	112	37.1	72.3	60.7	98.9	0.0	0.0	1.1	16.1
Belfast	922	146	15.8	67.7	58.9	95.4	3.1	0.8	0.8	10.3
Newry	297	86	29.0	71.8	59.3	96.9	0.0	3.1	0.0	25.6
Ulster	193	81	42.0	75.1	65.4	98.7	1.3	0.0	0.0	4.9
West NI	367	114	31.1	69.8	62.3	100.0	0.0	0.0	0.0	25.4
SCOTLAND										
Abrdn	628	220	35.0	66.0	58.6					
Airdrie	547	195	35.6	64.5	54.4					
D&Gall	159	63	39.6	66.5	63.5					
Dundee	362	140	38.7	66.0	63.6					
Edinb	1,042	307	29.5	63.7	68.1					
Glasgw	1,928	591	30.7	66.0	59.7					
Inverns	281	89	31.7	68.8	61.8					
Klmarnk	386	155	40.2	64.9	65.8					
Krkldy	282	175	62.1	68.0	60.0					
WALES										
Bangor	227	81	35.7	71.1	66.7					33.3
Cardff	1,841	574	31.2	65.8	61.7	88.2	7.0	2.9	1.9	15.7
Clwyd	222	98	44.1	67.8	62.2	97.6	1.2	1.2	0.0	16.3
Swanse	956	443	46.3	68.0	59.1	95.5	2.1	1.0	1.4	5.0
Wrexm	336	118	35.1	65.7	62.7	99.1	0.0	0.0	0.9	5.9
TOTALS										
England	62,879	23,478	37.3	65.4	63.0	65.0	17.2	13.1	4.8	5.2
N Ireland	2,081	539	25.9	71.5	61.0	97.8	1.1	0.7	0.4	16.3
Scotland	5,615	1,935	34.5	65.5	61.4					
Wales	3,582	1,314	36.7	66.7	61.3	93.0	3.8	1.6	1.6	12.3
UK	74,157	27,266	36.8	65.5	62.7	67.0	16.2	12.3	4.5	5.8

Blank cells – no data returned by the centre or data completeness <70%

Breakdown by ethnicity is not shown for centres with <70% data completeness, but these centres were included in national averages

UK ethnicity distribution and completeness does not include Scotland

Primary renal diseases (PRDs) were grouped into categories as shown in table 5.4, with the mapping of disease codes into groups explained in more detail in appendix A. The proportion of ICHD patients with each PRD is shown for patients with PRD data and these total 100% of patients with data. The proportion of patients with no PRD data is shown on a separate line.

Table 5.4 Primary renal diseases (PRDs) of adult patients prevalent to ICHD on 31/12/2024

PRD	N on ICHD	% ICHD population	Age <65 yrs		Age ≥65 yrs		M/F ratio
			N	%	N	%	
Diabetes	7,513	29.4	3,639	29.1	3,874	29.6	1.7
Glomerulonephritis	3,432	13.4	2,029	16.2	1,403	10.7	2.1
Hypertension	2,146	8.4	1,079	8.6	1,067	8.2	2.5
Polycystic kidney disease	1,506	5.9	826	6.6	680	5.2	1.0
Pyelonephritis	1,575	6.2	698	5.6	877	6.7	1.7
Renal vascular disease	990	3.9	180	1.4	810	6.2	1.7
Other	4,495	17.6	2,407	19.2	2,088	16.0	1.3
Uncertain aetiology	3,929	15.4	1,646	13.2	2,283	17.5	1.7
Total (with data)	25,586	100.0	12,504	100.0	13,082	100.0	
Missing	1,680	6.2	791	5.9	889	6.4	1.9

Adequacy of dialysis in prevalent adult ICHD patients

URR and session duration were calculated only for patients who were undertaking ICHD three times per week. Patients who had missing data for the number of dialysis sessions per week were assumed to be dialysing three times per week for the purposes of calculating the median URR.

Table 5.5 Median urea reduction ratio (URR) and distribution of session frequency and time for adult patients prevalent to ICHD on 31/12/2024 using end of third quarter data (30/09/2024)

Centre	Median	%	% session frequency/week			% session time			% data completeness		
	URR (%)	URR >65%	<3 sessions	3 sessions	>3 sessions	<4 hours	4–5 hours	>5 hours	URR	Session frequency	Session time
ENGLAND											
Bham	77	91.3	15.3	83.4	1.2	24.3	75.0	0.7	99.0	98.9	99.0
Bradfd	73	79.2	23.1	74.5	2.4				99.4	99.4	0.0
Brightn	74	88.9	8.6	90.9	0.4	13.1	86.9	0.0	98.8	99.6	99.8
Bristol	72	77.6	8.0	91.3	0.7	26.1	73.9	0.0	100.0	99.1	100.0
Camb			4.2	94.9	0.8	43.3	56.7	0.0	0.0	95.4	95.2
Carlisle	68	59.8	18.3	81.7	0.0	26.3	73.7	0.0	98.0	99.2	100.0
Carsh			9.3	89.5	1.2	6.1	93.8	0.1	60.8	99.6	99.9
Colchr	73	86.6	3.0	97.0	0.0	19.5	80.5	0.0	100.0	100.0	100.0
Covnt			15.1	82.4	2.6	48.1	51.9	0.0	66.6	97.5	98.0
Derby	76	89.9	0.7	99.0	0.3				87.0	99.7	6.0
Donc	74	84.3	7.7	91.7	0.6	38.9	61.1	0.0	95.2	99.5	100.0
Dorset	74	93.2	5.9	94.1	0.0	11.8	87.8	0.3	82.2	100.0	100.0
Dudley	75	85.1	4.4	95.1	0.5	12.6	86.3	1.1	97.3	97.8	97.9
EssexMS	71	75.9	24.9	73.8	1.4	54.9	45.1	0.0	90.6	99.1	98.8
Exeter			5.3	94.3	0.4	77.9	22.1	0.0	0.0	98.3	92.4
Glouc	72	79.9	11.0	87.0	2.0				100.0	100.0	0.0
Hull	77	92.0	6.0	92.3	1.7	20.9	79.1	0.0	100.0	99.7	99.7
Ipswi	68	67.1	25.4	73.9	0.7	19.0	81.0	0.0	78.1	95.7	95.2
Kent	69	68.7	5.7	93.9	0.5	78.9	21.1	0.0	89.0	99.6	100.0
L Barts			4.7	95.0	0.3	74.9	25.1	0.0	0.0	99.1	99.1
L Guys									0.0	0.0	0.0
L Kings									0.0	0.0	0.0
L Rfree			18.0	81.7	0.3	69.2	30.8	0.0	0.0	99.1	98.9
L St.G			5.9	93.7	0.4	24.0	76.0	0.0	9.4	89.4	98.1
L West									68.0	0.0	34.7

Table 5.5 Continued

Centre	Median URR (%)	% URR >65%	% session frequency/week			% session time			% data completeness		
			<3 sessions	3 sessions	>3 sessions	<4 hours	4–5 hours	>5 hours	URR	Session frequency	Session time
Leeds	72	81.8	11.7	87.4	0.9	33.5	66.5	0.0	100.0	98.9	98.6
Leic	73	82.0	3.9	95.2	0.8	15.2	82.0	2.8	99.5	99.5	99.5
Liv UH			0.6	97.2	2.2	10.5	89.5	0.0	0.0	98.3	97.9
M RI			13.2	86.8	0.0	8.1	88.1	3.8	67.0	70.0	72.5
Middlbr	71	75.2	3.8	95.3	0.9	28.3	68.4	3.3	98.2	99.4	74.4
Newc	71	84.1	23.6	76.1	0.3	50.4	49.6	0.0	100.0	98.3	100.0
Norwch	72	79.7	12.1	87.1	0.7	56.6	43.4	0.0	96.0	98.2	98.2
Nottm			5.4	91.2	3.3	46.7	53.3	0.0	0.0	99.7	99.7
Oxford			17.5	82.1	0.4				69.8	99.8	0.0
Plymth	71	72.2	2.9	97.1	0.0				99.3	99.3	0.0
Ports			10.5	88.9	0.6	52.3	47.7	0.0	0.0	99.3	99.2
Prestn			17.1	81.5	1.4				0.0	99.8	31.4
Redng			5.2	94.3	0.5	33.9	66.1	0.0	64.5	99.7	99.7
Salford	68	62.5	3.9	95.4	0.7	25.8	74.2	0.0	70.4	99.8	97.3
Sheff	70	71.3	8.4	89.5	2.1	83.7	16.3	0.0	99.0	99.1	99.0
Shrew	73	88.2	2.6	92.9	4.5	12.5	87.5	0.0	100.0	100.0	100.0
Stevng	70	73.3	12.7	84.0	3.2	45.3	54.7	0.0	78.1	98.1	97.7
Stoke	76	94.9	15.2	82.9	1.9	25.3	74.7	0.0	92.4	99.7	100.0
Sund	74	88.0	7.3	89.3	3.4	31.6	68.4	0.0	100.0	100.0	100.0
Truro	71	82.9	8.6	90.8	0.6				100.0	100.0	0.0
Wirral			9.2	88.2	2.6	28.9	71.1	0.0	0.0	100.0	100.0
Wolve			6.5	93.5	0.0	7.2	92.5	0.3	0.0	98.4	98.2
York	77	95.6	8.5	90.0	1.5	19.9	80.1	0.0	100.0	99.5	99.5
N IRELAND											
Antrim	71	73.3	1.0	98.1	1.0	13.6	86.4	0.0	96.2	98.1	98.1
Belfast	75	85.0	6.2	89.2	4.6	11.7	86.7	1.7	98.4	95.6	98.4
Newry	75	90.2	20.0	80.0	0.0	59.0	41.0	0.0	82.3	97.4	98.4
Ulster	68	61.6	4.0	94.7	1.3	26.7	73.3	0.0	91.3	93.8	93.8
West NI	70	73.5	8.0	87.5	4.5	41.8	58.2	0.0	100.0	100.0	100.0
SCOTLAND											
Abrdn	69	68.9							99.5		
Airdrie	68	65.4							98.9		
D&Gall	71	71.4							100.0		
Dundee	69	70.9							99.2		
Edinb	71	78.5							98.6		
Glasgw	68	63.3							97.5		
Inverns	69	73.6							100.0		
Klmarnk	72	71.9							97.9		
Krkldy	71	75.0							98.8		
WALES											
Bangor	74	91.2	1.5	87.9	10.6	44.8	53.4	1.7	98.3	100.0	100.0
Cardff	73	83.6							99.8	0.0	0.4
Clwyd	73	88.0							100.0	0.0	14.5
Swanse	74	81.2	4.9	94.6	0.5	37.1	62.7	0.3	99.5	99.5	99.5
Wrexm	73	72.7	0.0	100.0	0.0	24.8	75.2	0.0	99.2	99.2	99.2
TOTALS											
England	73	81.4	10.0	88.9	1.1	36.9	62.7	0.4	58.8	86.8	78.5
N Ireland	72	76.5	7.2	90.0	2.8	27.4	72.2	0.4	94.9	98.0	97.9
Scotland	69	69.6							98.5		
Wales	73	82.4	3.5	94.9	1.6	34.9	64.7	0.4	99.6	47.1	47.0
UK	73	80.0	9.8	89.1	1.1	36.6	63.0	0.4	64.6	85.1	77.2

Blank cells – no data returned by the centre or data completeness <70%

UK National averages for session frequency and time do not include Scotland

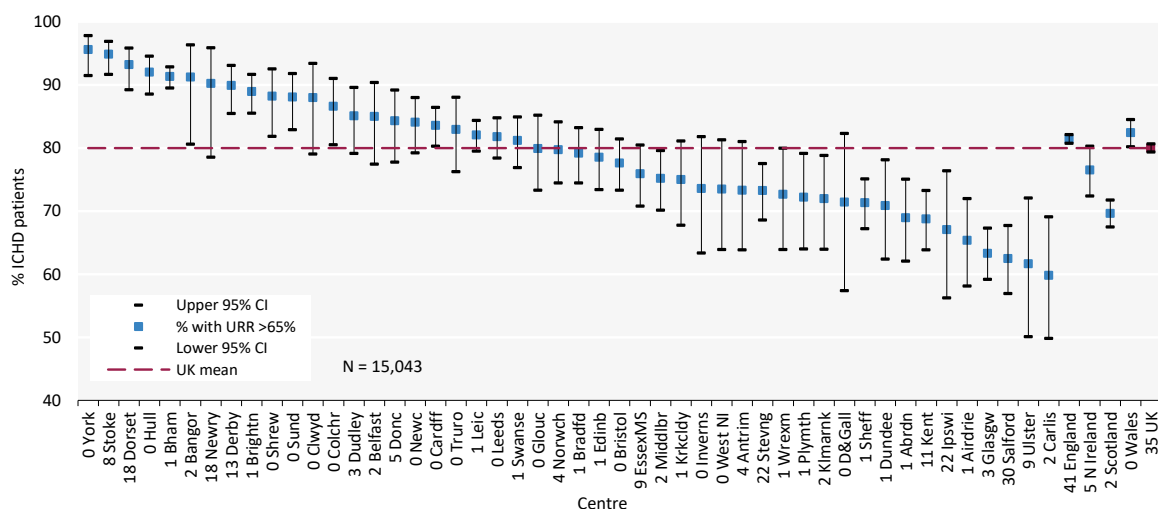


Figure 5.2 Percentage of adult patients prevalent to ICHD on 31/12/2024 with urea reduction ratio (URR) >65% by centre
CI – confidence interval

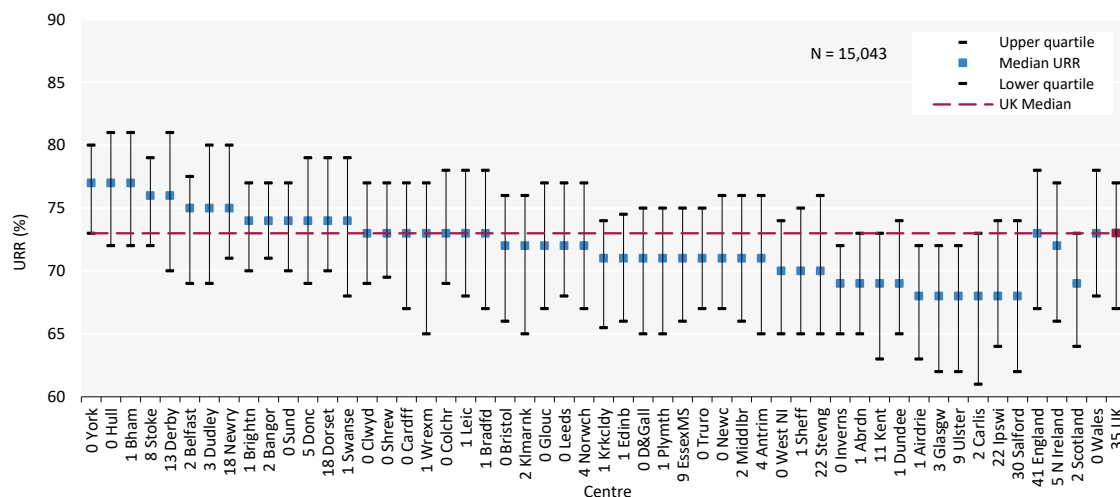


Figure 5.3 Median urea reduction ratio (URR) achieved in adult patients prevalent to ICHD on 31/12/2024 by centre

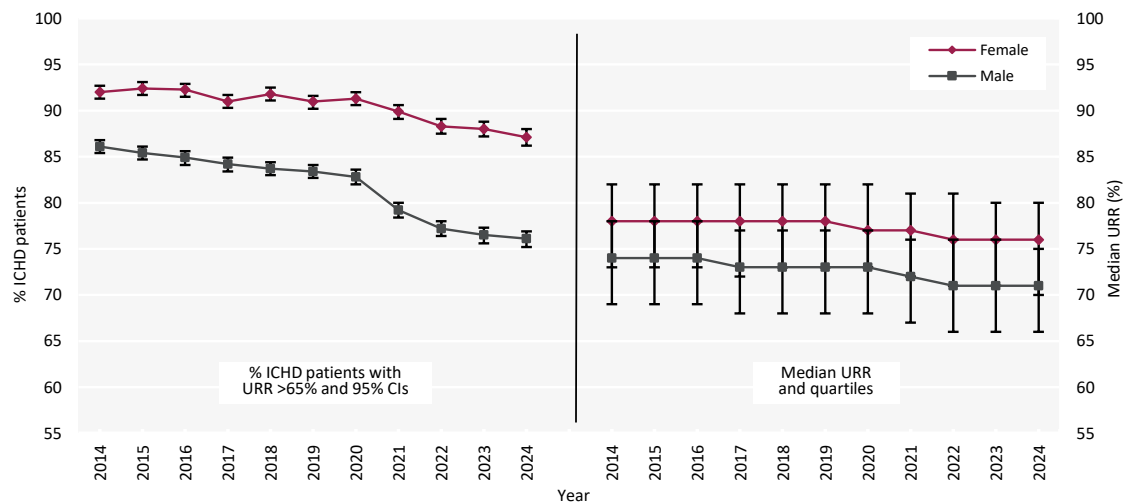


Figure 5.4 Change in the percentage of adult patients prevalent to ICHD with urea reduction ratio (URR) >65% and the median URR by sex between 2014 and 2024
CI – confidence interval

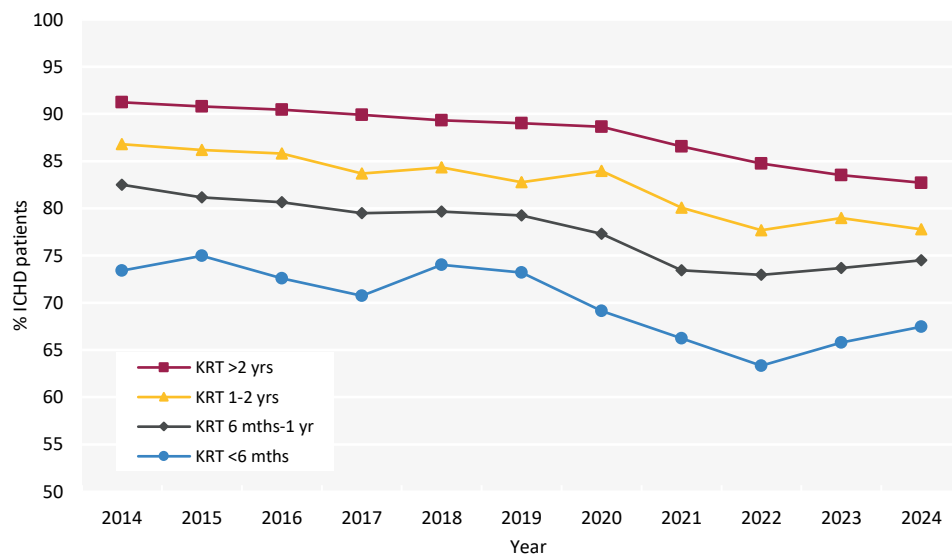


Figure 5.5 Percentage of adult patients prevalent to ICHD achieving urea reduction ratio (URR) >65% by time on KRT between 2014 and 2024

Biochemistry parameters in prevalent adult ICHD patients

The UK Kidney Association guideline on CKD mineral bone disease contains only one audit measure, which is the percentage of patients with adjusted calcium above the target range.

Table 5.6 Median adjusted calcium (Ca) and percentage with adjusted Ca within and above the target range (2.2–2.5 mmol/L) in adult patients prevalent to ICHD on 31/12/2024 by centre

Centre	Median adj Ca (mmol/L)	% adj Ca 2.2-2.5 mmol/L	% adj Ca >2.5 mmol/L	% data completeness
ENGLAND				
Bham	2.3	79.7	7.5	99.4
Bradfd	2.4	81.3	11.8	99.4
Brightn	2.3	81.0	7.8	100.0
Bristol	2.4	88.8	9.3	100.0
Camb	2.3	87.7	8.0	94.3
Carlis	2.3	75.4	2.5	100.0
Carsh	2.3	74.7	7.0	99.6
Colchr	2.3	80.8	5.6	99.4
Covnt	2.3	76.6	10.6	98.6
Derby	2.3	90.1	2.0	99.7
Donc	2.3	84.4	8.4	100.0
Dorset	2.3	78.1	8.6	100.0
Dudley	2.3	81.0	10.3	100.0
EssexMS	2.3	79.1	8.5	99.6
Exeter	2.3	78.9	6.7	99.8
Glouc	2.4	88.9	6.1	100.0
Hull	2.4	77.3	13.9	99.7
Ipswi	2.2	70.2	7.8	97.2
Kent	2.4	81.4	11.3	100.0
L Barts	2.3	78.5	5.6	99.9
L Guys				
L Kings				
L Rfree	2.3	82.0	8.4	99.7
L St.G	2.4	74.0	12.1	98.9
L West	2.3	75.8	11.4	72.8
Leeds	2.3	83.8	6.5	100.0
Leic	2.3	79.8	8.8	99.8
Liv UH	2.4	80.3	12.8	97.9
M RI	2.3	81.1	9.8	86.5
Middlbr	2.3	82.3	6.4	99.4
Newc	2.3	73.8	10.8	100.0
Norwch	2.3	82.6	10.7	100.0
Nottm	2.3	83.6	9.1	100.0
Oxford	2.2	67.5	3.8	95.1
Plymth	2.3	81.0	3.7	100.0
Ports	2.3	78.9	5.7	99.9
Prestn	2.4	84.6	7.5	100.0
Redng	2.3	83.2	3.8	99.7
Salford	2.4	82.6	10.2	100.0
Sheff	2.3	76.7	6.7	99.8
Shrew	2.4	75.2	18.6	99.3
Stevng	2.4	84.1	8.5	98.8
Stoke	2.4	83.2	11.7	88.1
Sund	2.3	78.5	11.0	100.0
Truro	2.4	84.6	12.4	100.0
Wirral	2.3	79.8	6.7	75.3
Wolve	2.3	83.1	5.2	98.6
York	2.3	83.3	7.1	100.0
N IRELAND				
Antrim	2.4	84.8	11.4	100.0
Belfast	2.4	79.4	15.4	100.0
Newry	2.3	67.1	5.1	98.8
Ulster	2.4	86.3	11.3	100.0

Table 5.6 Continued

Centre	Median adj Ca (mmol/L)	% adj Ca 2.2-2.5 mmol/L	% adj Ca >2.5 mmol/L	% data completeness
West NI	2.4	86.5	10.6	100.0
WALES				
Bangor	2.4	82.9	10.0	100.0
Cardff	2.4	83.3	11.2	100.0
Clwyd	2.3	93.2	2.3	100.0
Swanse	2.3	86.7	5.5	100.0
Wrexm	2.3	90.9	2.7	99.1
TOTALS				
England	2.3	80.0	8.4	94.0
N Ireland	2.4	81.2	11.3	99.8
Wales	2.4	85.9	7.8	99.9
E, W & NI	2.3	80.3	8.4	94.5

Blank cells = No data returned by the centre or data completeness <70%

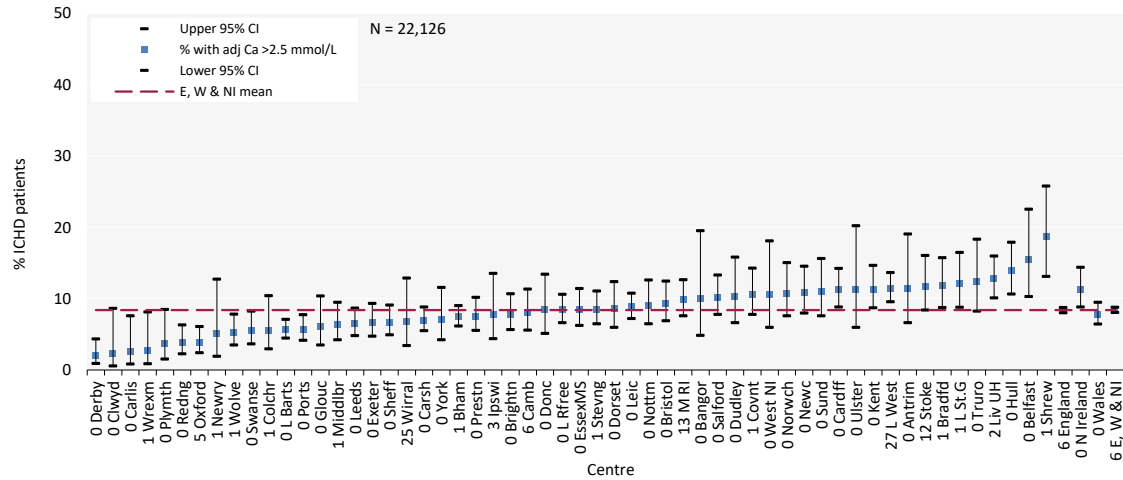


Figure 5.6 Percentage of adult patients prevalent to ICHD on 31/12/2024 with adjusted calcium (Ca) above the target range (>2.5 mmol/L) by centre
CI – confidence interval

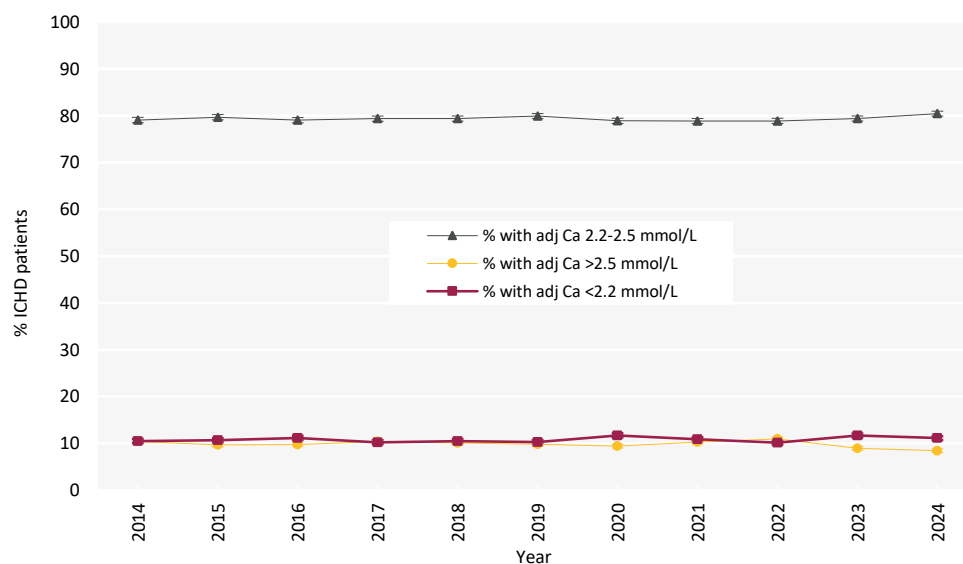


Figure 5.7 Change in percentage of adult patients prevalent to ICHD within, above and below the target range for adjusted calcium (Ca 2.2–2.5 mmol/L) between 2014 and 2024

Table 5.7 Median pre-dialysis potassium and bicarbonate and percentage attaining target ranges in adult patients prevalent to ICHD on 31/12/2024 by centre

Centre	Pre-dialysis potassium					Pre-dialysis bicarbonate				
	Median (mmol/L)	% <4.0 mmol/L	% 4.0–6.0 mmol/L	% >6.0 mmol/L	% data completeness	Median (mmol/L)	% <18 mmol/L	% 18–26 mmol/L	% >26 mmol/L	% data completeness
ENGLAND										
Bham					50.6	22	5.9	87.3	6.9	99.2
Bradfd	4.9	7.2	87.1	5.7	100.0	24	4.3	82.2	13.5	91.0
Brightn					0.0	23.1	5.1	79.2	15.6	100.0
Bristol	4.5	29.8	67.7	2.6	100.0	24	0.2	84.7	15.1	100.0
Camb	4.9	7.9	88.1	4.0	95.2					21.8
Carlis					0.0	21	5.9	91.5	2.5	100.0
Carsh					0.0					24.1
Colchr	4.8	11.8	84.5	3.7	99.4	21	4.4	91.9	3.7	99.4
Covnt					0.0	26	0.6	60.6	38.9	98.6
Derby	4.7	13.9	83.1	3.0	99.7	21	2.3	95.7	2.0	99.7
Donc	4.8	5.0	88.8	6.2	100.0	21	17.9	76.5	5.6	100.0
Dorset	4.8	8.6	85.4	6.0	100.0	23	2.7	92.7	4.7	100.0
Dudley	4.8	9.8	87.9	2.3	100.0					51.2
EssexMS	4.9	11.6	82.9	5.6	99.6	23	2.2	86.6	11.1	99.6
Exeter	4.6	17.6	80.2	2.2	99.8	24	2.2	80.9	17.0	99.8
Glouc					0.0	24	2.0	87.9	10.1	100.0
Hull	4.8	6.2	88.7	5.1	99.7	23	2.3	87.0	10.8	99.7
Ipswi					0.0	22	7.8	85.8	6.4	97.2
Kent	4.7	22.9	73.7	3.4	100.0	23	3.0	90.3	6.8	100.0
L Barts	4.8	20.6	73.9	5.5	100.0	23	3.7	85.8	10.5	99.9
L Guys	4.8	9.3	86.1	4.7	93.9					27.0
L Kings					59.9					42.8
L Rfree	4.9	19.0	76.3	4.7	99.7	21	7.9	91.4	0.7	97.1
L St.G					0.0	23	8.7	85.5	5.8	96.8
L West					0.0					57.6
Leeds	5.1	3.3	87.2	9.5	100.0	22	2.2	94.0	3.8	100.0

Table 5.7 Continued

Centre	Pre-dialysis potassium					Pre-dialysis bicarbonate				
	Median (mmol/L)	% <4.0 mmol/L	% 4.0–6.0 mmol/L	% >6.0 mmol/L	% data completeness	Median (mmol/L)	% <18 mmol/L	% 18–26 mmol/L	% >26 mmol/L	% data completeness
Leic	4.9	9.5	83.2	7.3	99.8	24	2.4	79.5	18.1	99.8
Liv UH					0.0	25	1.0	65.1	33.9	97.9
M RI	4.8	11.3	82.9	5.8	88.1	22	5.1	88.4	6.6	85.6
Middlbr	4.7	13.9	83.8	2.3	99.4	29	0.0	18.3	81.7	99.4
Newc					0.0	23	3.1	90.0	6.8	100.0
Norwch	5.2	3.0	86.7	10.4	100.0	22	4.5	88.5	7.1	99.6
Nottm	4.5	31.6	64.9	3.5	100.0	24	2.9	83.9	13.2	99.7
Oxford	4.9	10.2	85.1	4.8	94.9	23	3.7	81.2	15.1	93.8
Plymth	4.8	13.1	81.0	5.8	100.0	20	13.4	86.6	0.0	92.7
Ports	5.0	5.5	87.4	7.1	99.7	22.8	4.5	82.5	13.0	99.7
Prestn	4.9	5.9	88.9	5.2	100.0	23	5.9	86.9	7.1	100.0
Redng	4.8	10.6	85.9	3.5	99.7	22	5.7	91.9	2.4	99.7
Salford	4.7	16.4	80.4	3.2	100.0	24	2.6	80.2	17.2	100.0
Sheff	4.9	7.4	87.1	5.5	99.8	22	5.5	87.5	7.1	99.8
Shrew					0.0	21	9.7	89.0	1.4	99.3
Stevng	5.0	7.3	87.0	5.7	98.8	24	1.7	84.6	13.7	98.8
Stoke					0.0					1.3
Sund					0.0	21	10.1	89.5	0.4	100.0
Truro	4.8	5.3	88.2	6.5	100.0	26	0.0	55.0	45.0	100.0
Wirral					0.0	24	1.3	84.8	13.9	95.6
Wolve					0.0	24.2	7.1	69.8	23.1	98.6
York	5.0	5.1	86.9	8.1	100.0	24	3.5	80.3	16.2	100.0
N IRELAND										
Antrim	4.7	10.5	85.7	3.8	100.0	24	1.0	85.7	13.3	100.0
Belfast	4.8	5.9	91.2	2.9	100.0	22	2.9	96.3	0.7	100.0
Newry	4.7	12.7	83.5	3.8	98.8	23	5.1	79.8	15.2	98.8
Ulster	4.9	7.5	87.5	5.0	100.0	21.5	0.0	100.0	0.0	100.0
West NI	4.7	8.7	86.5	4.8	100.0	22	2.9	95.2	1.9	100.0
WALES										
Bangor	4.8	10.0	90.0	0.0	100.0	24	1.4	90.0	8.6	100.0
Cardff	4.9	8.4	85.8	5.8	100.0	23	1.9	86.3	11.8	98.7
Clwyd	4.9	9.1	85.2	5.7	100.0	23	3.4	90.9	5.7	100.0
Swanse	4.9	11.3	82.5	6.3	100.0	23	3.0	90.2	6.8	100.0
Wrexms	4.7	16.4	80.0	3.6	99.1	24	1.8	81.8	16.4	99.1
TOTALS										
England	4.8	12.6	82.1	5.3	67.9	23	4.6	82.5	13.0	86.1
N Ireland	4.8	8.7	87.3	4.0	99.8	22	2.4	91.9	5.8	99.8
Wales	4.9	10.2	84.4	5.4	99.9	23	2.4	87.8	9.9	99.3
E, W & NI	4.8	12.3	82.4	5.3	70.3	23	4.4	83.0	12.6	87.1

Blank cells – no data returned by the centre or data completeness <70%

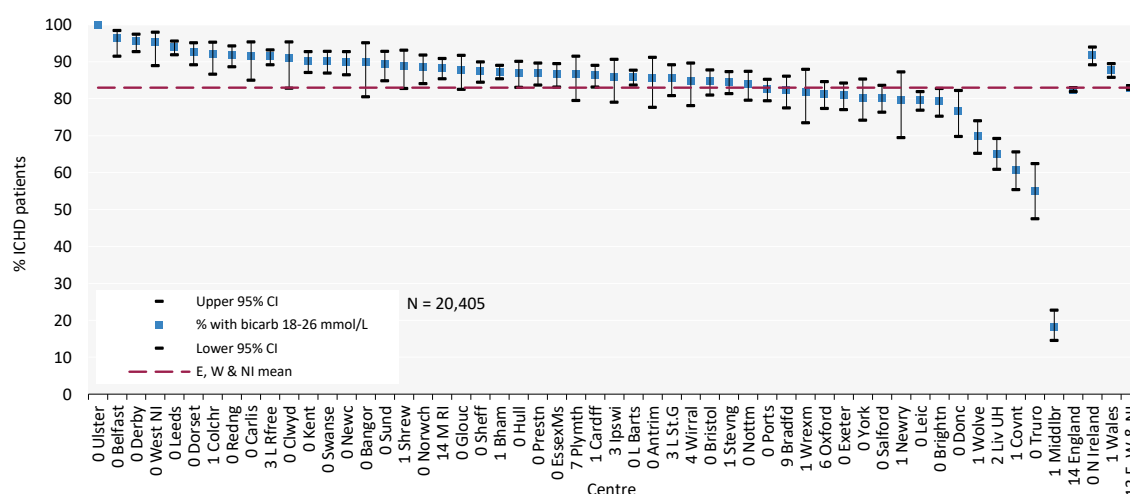


Figure 5.8 Percentage of adult patients prevalent to ICHD on 31/12/2024 with pre-dialysis bicarbonate (bicarb) within the target range (18-26 mmol/L) by centre
CI – confidence interval
Bicarb - bicarbonate

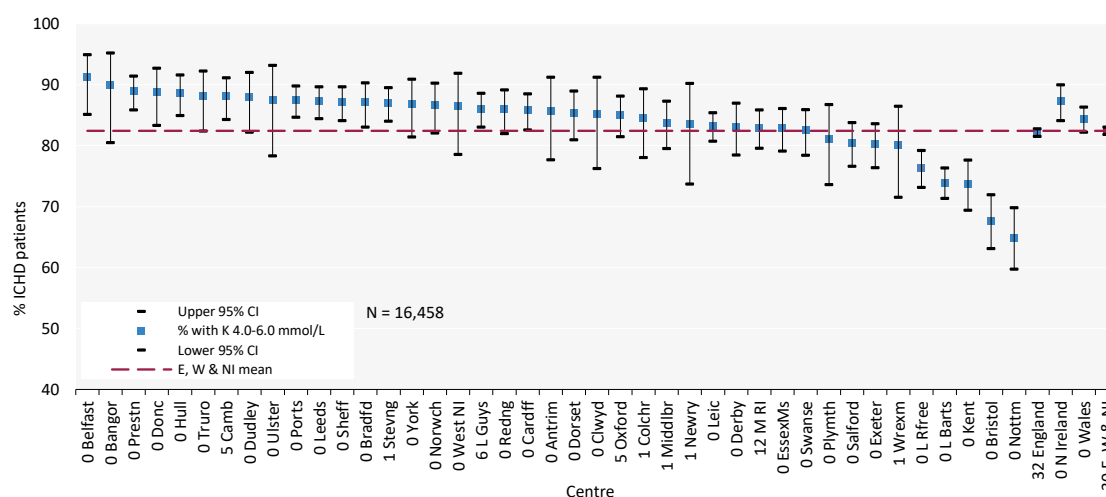


Figure 5.9 Percentage of adult patients prevalent to ICHD on 31/12/2024 with pre-dialysis potassium (K) within the target range (4.0-6.0 mmol/L) by centre
CI – confidence interval
K - Potassium

Pre-dialysis potassium has only been included in the UKRR report in the last few years and therefore longitudinal analyses are not shown.

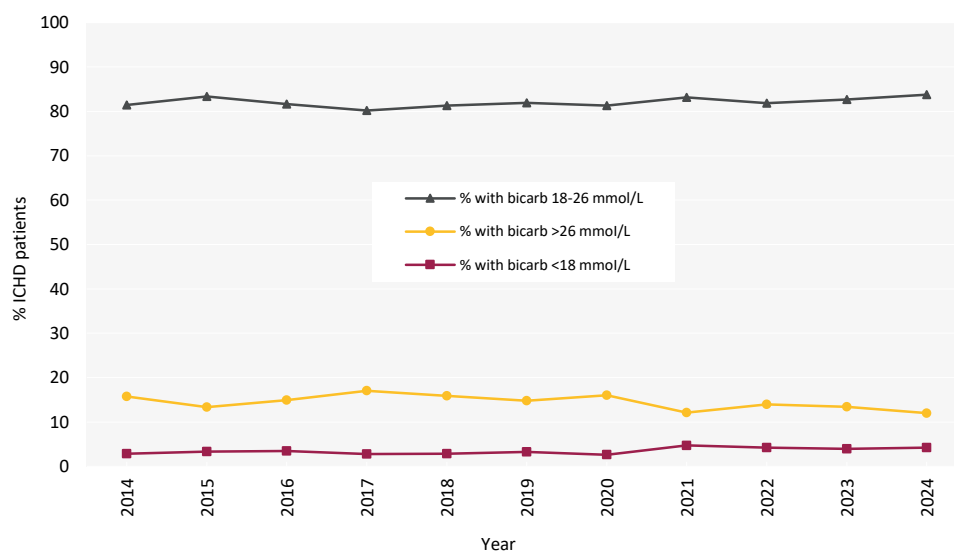


Figure 5.10 Change in percentage of adult patients prevalent to ICHD within, above and below the target range for pre-dialysis bicarbonate (bicarb 18-26 mmol/L) between 2014 and 2024

Anaemia in prevalent adult ICHD patients

UK Kidney Association anaemia guidelines recommend a target haemoglobin of 100-120 g/L. Data regarding target and median haemoglobin and ferritin levels attained are presented in table 5.8.

Table 5.8 Median haemoglobin and ferritin and percentage attaining target ranges in adult patients prevalent to ICHD on 31/12/2024 by centre

Centre	Haemoglobin				Ferritin		
	Median (g/L)	% <100 g/L	% >120 g/L	% data completeness	Median (µg/L)	% <200 µg/L	% data completeness
ENGLAND							
Bham	110	24.0	18.9	99.2	575	13.8	99.4
Bradfd	112	22.5	23.7	100.0	516	11.7	100.0
Brightn	110	18.3	21.3	99.8	464	10.5	99.8
Bristol	114	4.0	30.2	100.0	578	4.0	100.0
Camb	112	21.1	29.3	94.6	419	20.9	90.3
Carlis	114	19.5	25.4	100.0	667	5.1	100.0
Carsh	111	19.3	21.4	99.9	473	9.2	99.9
Colchr	111	15.5	16.8	99.4	576	6.2	99.4
Covnt	107	27.9	12.5	98.9	508	18.2	98.9
Derby	114	13.2	27.5	99.7	579	4.4	98.0
Donc	112	24.0	25.7	100.0	497	9.5	100.0
Dorset	113	14.6	24.9	100.0	720	3.7	100.0
Dudley	115	16.7	21.8	100.0	236	42.5	100.0
EssexMS	111	16.7	17.6	99.6	490	15.6	99.3
Exeter	112	21.1	24.7	99.8	330	17.5	99.1
Glouc	109	26.3	14.6	100.0	377	21.0	98.5
Hull	112	20.6	24.9	100.0	765	3.4	99.7
Ipswi	111	22.0	19.1	97.2	435	16.3	97.2
Kent	107	26.5	17.0	100.0	738	7.5	99.8
L Barts	109	25.7	20.2	99.9	669	5.1	99.8
L Guys	107	28.9	15.2	97.7	553	12.3	96.6
L Kings	111	19.2	23.4	96.7	537	13.4	96.2
L Rfree	110	20.7	20.7	99.7	553	14.3	99.6
L St.G	110	22.8	16.7	98.9	623	5.7	98.9
L West	112	18.5	20.3	76.6	398	15.7	74.2
Leeds	109	23.1	16.9	100.0	405	18.3	100.0
Leic	114	18.5	31.2	99.8	490	8.1	99.8
Liv UH	109	22.7	19.1	98.1	498	13.1	96.9
M RI	111	23.8	27.6	88.3	550	9.0	79.8
Middlbr	111	18.3	24.6	99.4	829	4.4	98.6
Newc	109	24.2	23.6	100.0	720	9.4	100.0
Norwch	110	21.5	17.8	100.0	550	13.8	99.6
Nottm	110	20.8	16.7	100.0	529	12.3	100.0
Oxford	111	21.5	24.4	94.9	645	3.4	94.6
Plymth	113	12.4	20.4	100.0	517	14.6	100.0
Ports	110	21.1	21.9	99.9	369	21.2	99.7
Prestn	113	19.4	27.1	100.0	797	7.9	100.0
Redng	111	23.0	18.4	99.7	578	8.7	99.7
Salford	109	28.7	20.2	100.0	478	16.9	99.4
Sheff	106	32.3	20.0	99.8	472	6.2	99.8
Shrew	113	13.7	21.9	100.0	485	2.8	99.3
Stevng	109	24.6	15.8	98.8	605	2.4	98.8
Stoke	112	16.6	29.2	89.1	527	7.6	92.6
Sund	112	19.4	23.2	100.0	570	9.3	100.0
Truro	110	25.4	20.1	100.0	413	10.1	99.4
Wirral	109	24.0	18.7	94.9	584	6.8	93.7

Table 5.8 Continued

Centre	Haemoglobin				Ferritin		
	Median (g/L)	% <100 g/L	% >120 g/L	% data completeness	Median (µg/L)	% <200 µg/L	% data completeness
Wolve	109	24.0	17.1	98.6	733	6.7	98.6
York	107	29.8	11.1	100.0	468	6.1	100.0
N IRELAND							
Antrim	107	21.0	15.2	100.0	657	4.8	100.0
Belfast	115	14.0	36.0	100.0	555	13.2	100.0
Newry	109	20.3	17.7	98.8	396	17.7	98.8
Ulster	112	25.0	26.3	100.0	612	6.3	100.0
West NI	113	21.2	25.0	100.0	696	2.9	100.0
SCOTLAND							
Abrdn	110	21.4	21.9	99.0			
Airdrie	109	21.7	15.4	98.9			
D&Gall	113	18.5	29.6	98.2			
Dundee	111	20.6	16.8	99.2			
Edinb	113	15.4	22.9	98.9			
Glasgw	111	21.8	20.7	98.0			
Inverns	106	34.1	11.0	100.0			
Klmarnk	111	20.1	29.9	97.1			
Krkldy	114	17.2	32.5	99.4			
WALES							
Bangor	112	15.7	17.1	100.0	708	0.0	100.0
Cardff	112	17.8	25.5	100.0	535	10.7	100.0
Clwyd	109	26.1	23.9	100.0	783	10.2	100.0
Swanse	109	20.3	15.5	100.0	589	10.8	100.0
Wrexm	107	29.1	16.4	99.1	555	8.2	99.1
TOTALS							
England	110	21.7	21.4	97.5	535	11.0	96.8
N Ireland	112	19.6	25.0	99.8	604	8.9	99.8
Scotland	111	20.6	22.0	98.6			
Wales	111	20.1	20.7	99.9	578	9.8	99.9
UK	111	21.5	21.5	97.7	539	10.9	97.1

Blank cells – no data returned by the centre or data completeness <70%

UK National average for ferritin does not include Scotland

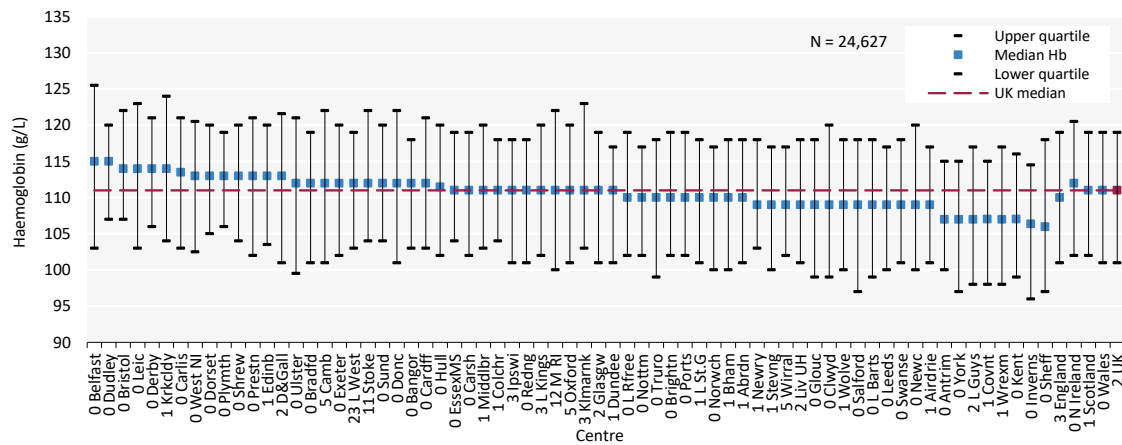


Figure 5.11 Median haemoglobin (Hb) in adult patients prevalent to ICHD on 31/12/2024 by centre

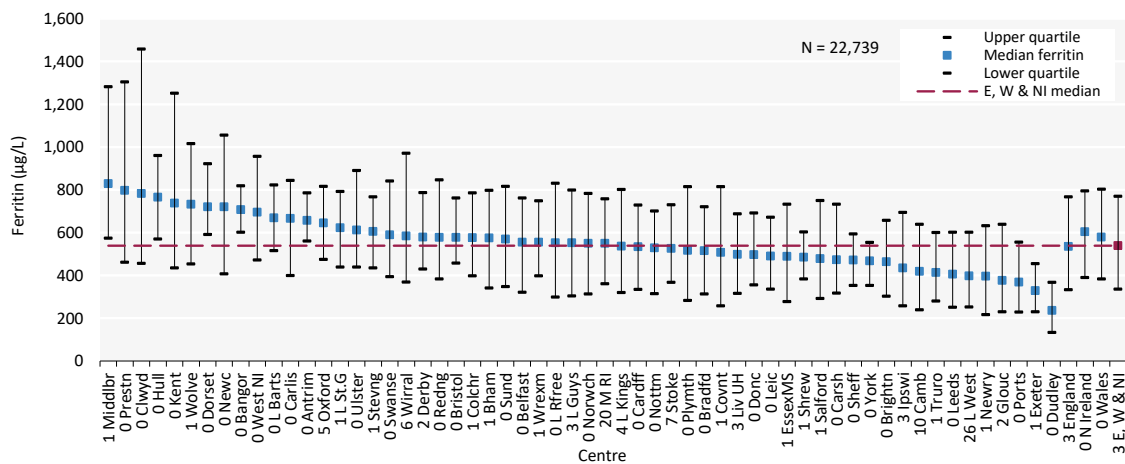


Figure 5.12 Median ferritin in adult patients prevalent to ICHD on 31/12/2024 by centre

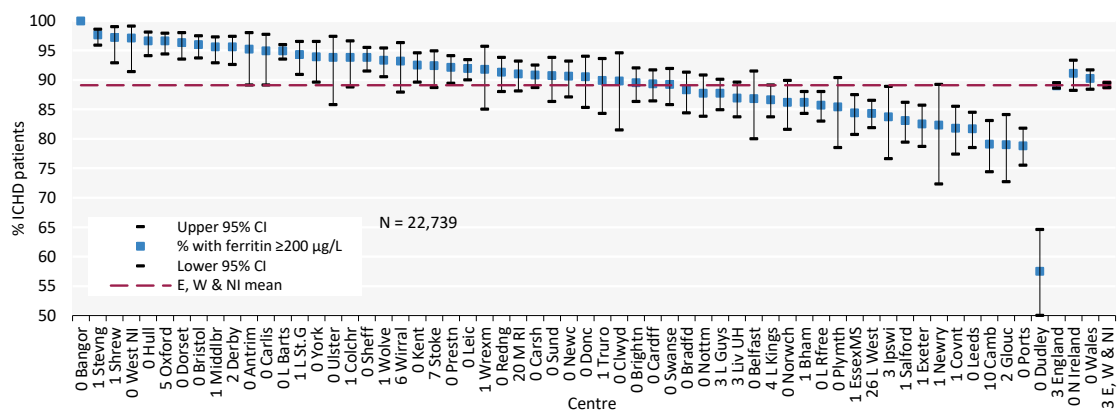


Figure 5.13 Percentage of adult patients prevalent to ICHD on 31/12/2024 with ferritin ≥ 200 $\mu\text{g/L}$ by centre

CI – confidence interval

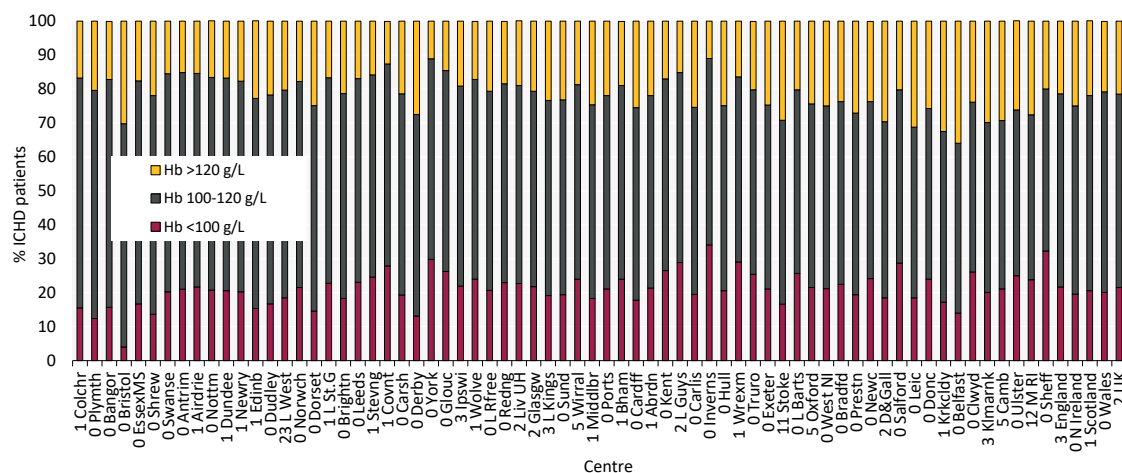


Figure 5.14 Distribution of haemoglobin (Hb) in adult patients prevalent to ICHD on 31/12/2024 by centre

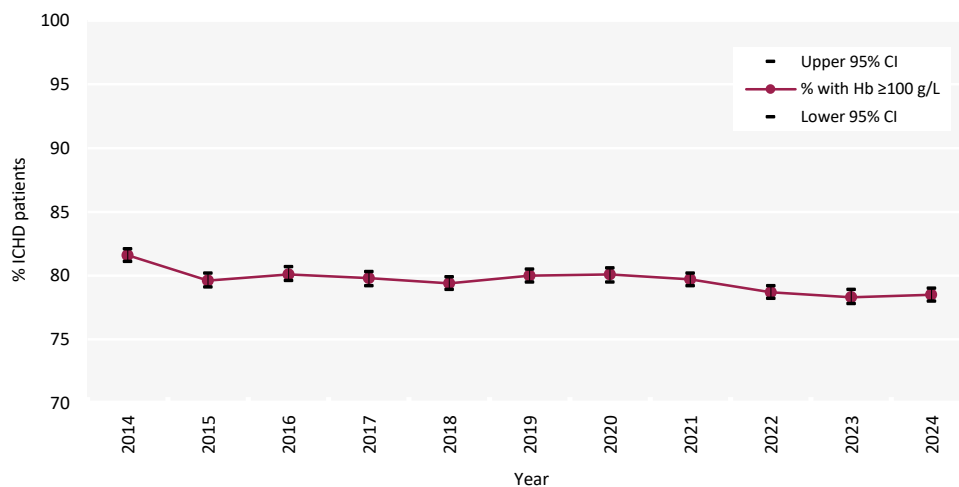


Figure 5.15 Percentage of adult patients prevalent to ICHD with haemoglobin (Hb) ≥ 100 g/L between 2014 and 2024
CI – confidence interval

Dialysis access in prevalent adult dialysis patients

The type of prevalent dialysis access is presented in figure 5.16 for the 64 centres where vascular access data were available on $\geq 70\%$ of their prevalent dialysis patients. Rates of PD may impact the types of vascular access used for ICHD and this is reflected in the combined audit measures for dialysis access.

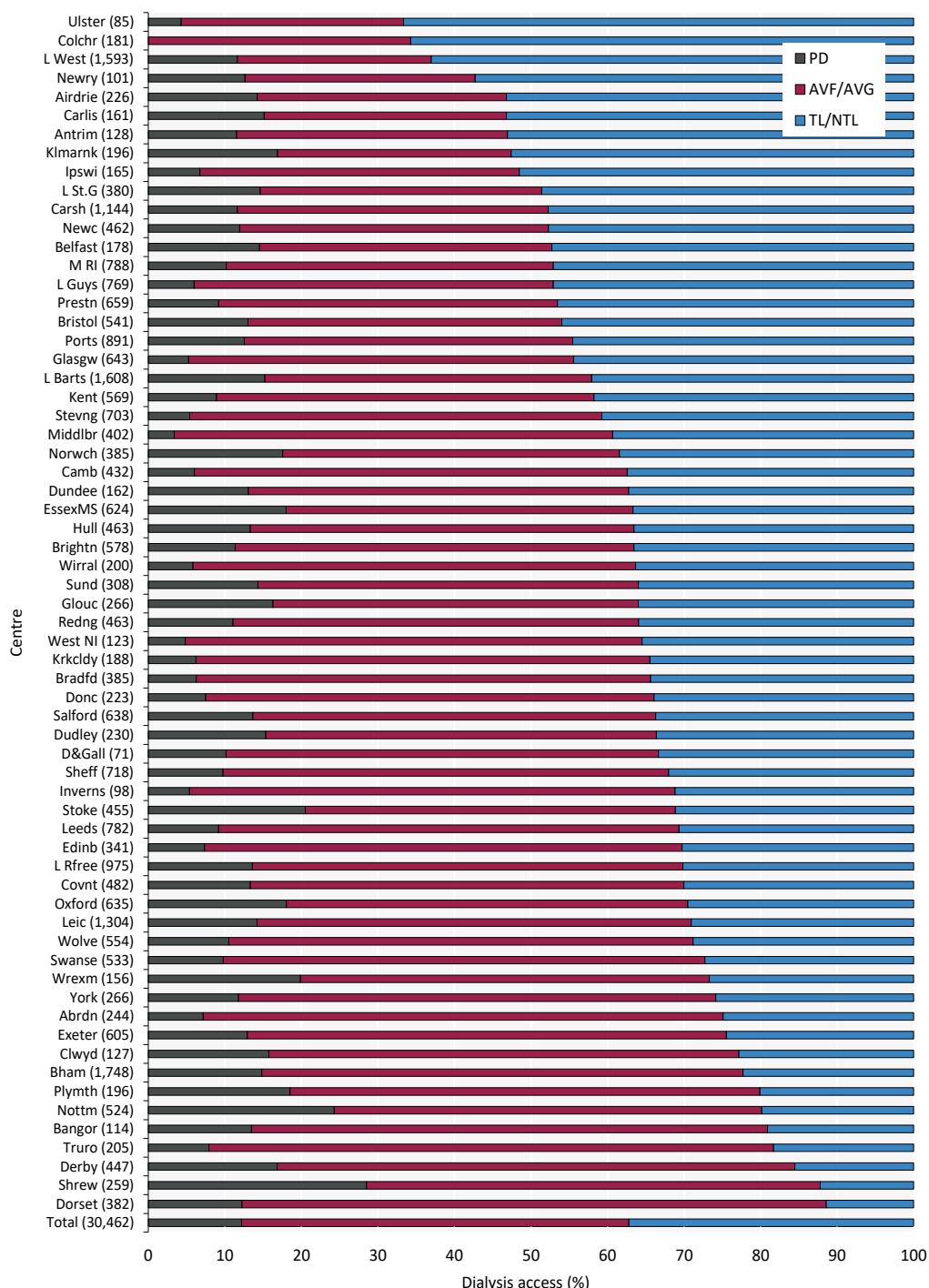


Figure 5.16 Dialysis access in adult patients prevalent to dialysis on 31/12/2024 by centre

Number of patients on dialysis in a centre in brackets (centres with $<70\%$ access data for the prevalent dialysis population were excluded)

AVF – arteriovenous fistula; AVG – arteriovenous graft; NTL – non-tunnelled line; TL – tunnelled line

Cause of death in adult ICHD patients

Cause of death was analysed in prevalent patients receiving ICHD on 31/12/2023 and followed-up for one year in 2024. The proportion of ICHD patients with each cause of death is shown for patients with cause of death data and these total 100% of patients with data. The proportion of patients with no cause of death data is shown on a separate line. Where the cause of death was missing in UKRR data, cause of death from Civil Registration records was used. Further detail on the survival of prevalent KRT patients is in chapter 3.

Table 5.9 Cause of death in adult patients prevalent to ICHD on 31/12/2023 followed-up in 2024 by age group

Cause of death	ICHD all ages		ICHD < 65 years		ICHD ≥ 65 years	
	N	%	N	%	N	%
Cardiac disease	766	20.8	275	25.8	491	18.7
Cerebrovascular disease	132	3.6	42	3.9	90	3.4
Infection	609	16.5	170	15.9	439	16.8
Malignancy	239	6.5	42	3.9	197	7.5
Treatment withdrawal	359	9.7	67	6.3	292	11.1
Other	1,303	35.3	392	36.7	911	34.8
Uncertain aetiology	280	7.6	79	7.4	201	7.7
Total (with data)	3,688	100.0	1,067	100.0	2,621	100.0
Missing	465	11.2	144	11.9	321	10.9

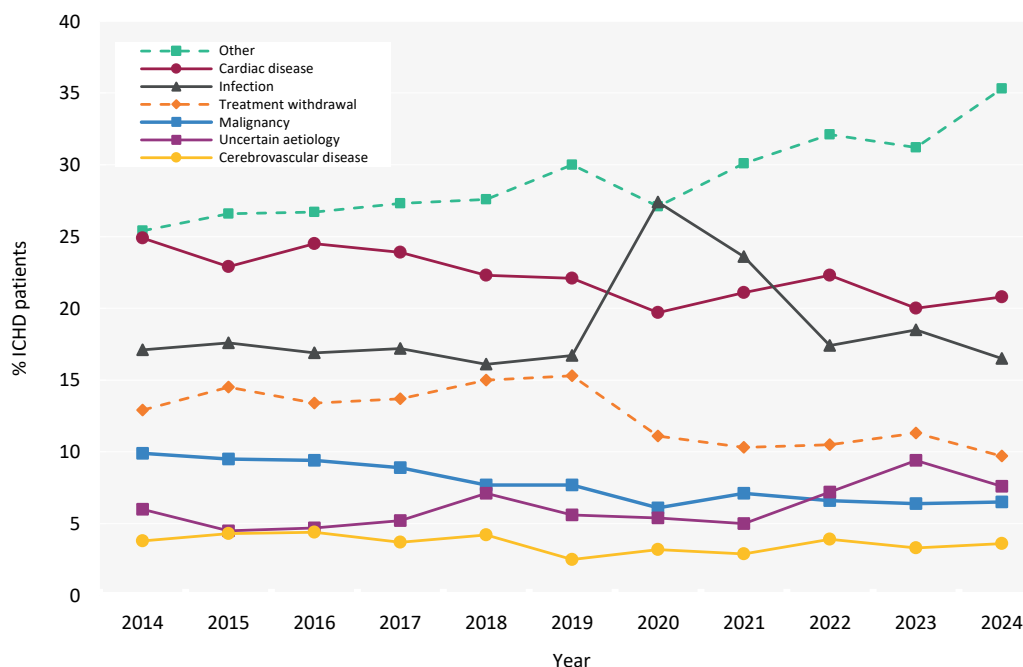


Figure 5.17 Cause of death between 2014 and 2024 for adult patients prevalent to ICHD at the beginning of the year