

COVID-19 surveillance report for renal centres in the UK

**A summary of the first wave of the pandemic –
March to August 2020**

ABOUT THIS REPORT

This report is a summary of the data collected by the UK Renal Registry (UKRR) from renal centres during the first wave of the COVID-19 pandemic, between 1 March and 31 August 2020.

Since 27 March 2020, the UKRR has produced weekly or fortnightly [COVID-19 surveillance reports](#).

The reports are primarily about adults aged ≥ 18 years, as well as young adults aged 16–18 years, if they are under the care of an adult renal centre. However, also reported are aggregate data submitted by paediatric renal centres.

DEFINITIONS

A renal patient with COVID-19 is:

- an individual who has a positive laboratory result for SARS-COV-2.

This definition was updated for the report on 28 October 2020 to reflect changes and variability in COVID-19 testing strategies across renal centres.

A renal patient whose death is attributed to COVID-19 is:

- an individual who died within 28 days of a positive laboratory result for SARS-COV-2.

This definition was updated for the report on 26 August 2020 following the introduction of the new UK-wide methodology to record COVID-19 deaths.

SUGGESTED CITATION & DISCLAIMER

UK Renal Registry (2020) COVID-19 surveillance report for renal centres in the UK: A summary of the first wave of the pandemic – March to August 2020. The Renal Association, Bristol, UK.

Publications based on the data presented in this report must include the citation detailed above and the following disclaimer:

The data reported here have been supplied by the UK Renal Registry (UKRR) of the Renal Association. The interpretation and reporting of these data are the responsibility of the authors and in no way should be seen as an official policy or interpretation of the UKRR or the Renal Association.

CONTACT US

For more information about this report or the UKRR, please email us at ukrr.data@nhs.net

KEY POINTS

COVID-19 data are submitted directly to the UK Renal Registry (UKRR) from the 51 renal centres in England, the 5 centres in Northern Ireland and the 5 centres in Wales. Renal centres in Scotland send their data to the Scottish Renal Registry, which then shares the data with the UKRR every month.

Between 1 March 2020 and 31 August 2020:

- In **adult renal centres** in the **UK** – 4,666 laboratory-confirmed cases of COVID-19 and 1,373 deaths attributed to COVID-19 were reported to the UKRR.
- In **adult renal centres** in **England** – 4,370 laboratory-confirmed cases of COVID-19 and 1,291 deaths attributed to COVID-19 were reported to the UKRR.
- In **adult renal centres** in **Northern Ireland** – 33 laboratory-confirmed cases of COVID-19 and 6 deaths attributed to COVID-19 were reported to the UKRR.
- In **adult renal centres** in **Scotland** (up to 18 August 2020) – 114 laboratory-confirmed cases of COVID-19 and 30 deaths attributed to COVID-19 were reported to the UKRR.
- In **adult renal centres** in **Wales** – 149 laboratory-confirmed cases of COVID-19 and 46 deaths attributed to COVID-19 were reported to the UKRR.
- In **paediatric renal centres** in the **UK** – 10 laboratory-confirmed cases of COVID-19 and 1 death was reported to the UKRR, but this occurred almost 4 months after the test result and the child had a serious underlying health condition.

The course of the first wave of the COVID-19 pandemic in adult renal centres

Figure 1 shows the log cumulative number of laboratory-confirmed COVID-19 cases over the course of the first wave of the pandemic in adult renal centres in England, Northern Ireland and Wales. At the start of the pandemic, the number of cases climbed steeply in all three countries, reaching a particularly high level in England. Following the national lockdown on 23 March, new cases slowed and then plateaued between the start of May and the end of August.

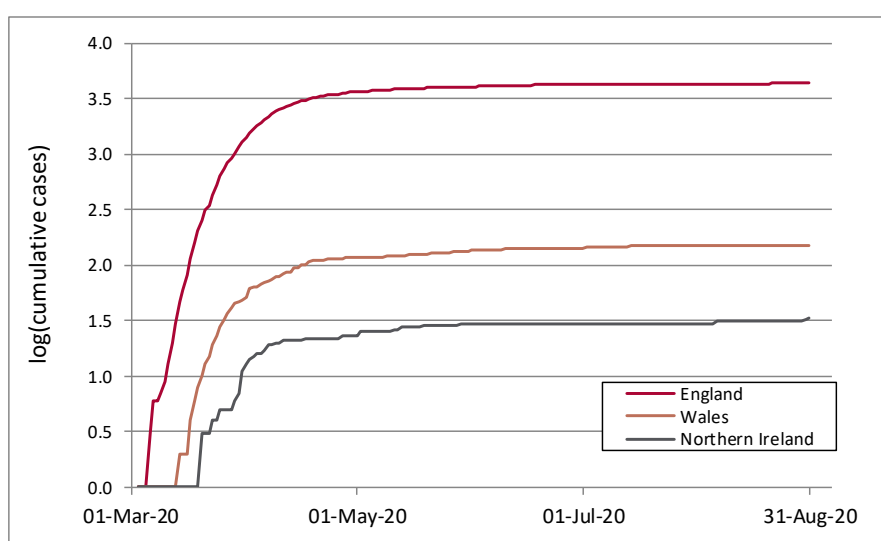


Figure 1 Log cumulative counts of laboratory-confirmed COVID-19 cases in CKD and RRT patients between 1 March and 31 August 2020 in adult renal centres in England, Northern Ireland and Wales

SURVEILLANCE

ALL REGIONS AND ADULT CENTRES IN ENGLAND, NORTHERN IRELAND, SCOTLAND AND WALES

Table 1 Number of cumulative reported laboratory-confirmed COVID-19 cases in CKD and RRT patients up to 31 August 2020, in adult renal centres in England, Northern Ireland, Scotland and Wales by region, renal centre and country

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative COVID-19 cases								Missing	TOTAL
		CKD	HT (HHD+PD)		ICHD		TPLT				
			N	% of HT	N	% of ICHD	N	% of TPLT			
EAST OF ENGLAND	4,553	6	13	4.2	127	7.1	33	1.3	0	179	
Basildon	314	0	1	2.6	19	11.1	4	3.8	0	24	
Cambridge	1,417	3	3	6.8	16	5.0	21	2.0	0	43	
Chelmsford	270	0	0	0.0	6	5.4	0	0.0	0	6	
Colchester	121	0	0	0.0	10	8.3	0	0.0	0	10	
Ipswich	428	1	1	2.2	19	12.6	0	0.0	0	21	
Norwich	786	1	1	2.0	11	3.7	5	1.1	0	18	
Southend	260	0	3	9.7	4	3.1	3	3.0	0	10	
Stevenage	957	1	4	5.6	42	8.5	0	0.0	0	47	
KENT, SURREY & SUSSEX	2,169	71	0	0.0	33	3.8	13	1.1	0	117	
Brighton	1,055	57	0	0.0	18	4.0	2	0.4	0	77	
Kent	1,114	14	0	0.0	15	3.6	11	1.7	0	40	
LONDON	14,394	146	44	4.6	1,057	18.8	193	2.5	0	1,440	
Carshalton	1,736	26	5	3.9	88	10.4	13	1.7	0	132	
London Barts	2,610	0	9	3.3	198	18.5	26	2.0	0	233	
London Guy's	2,225	40	2	2.5	98	14.2	40	2.8	0	180	
London King's	1,186	26	2	1.9	133	22.3	26	5.4	0	187	
London Royal Free	2,234	35	5	2.8	168	24.6	18	1.3	0	226	
London St George's	837	3	5	10.9	37	12.6	8	1.6	0	53	
London West	3,566	16	16	10.4	335	23.4	62	3.1	0	429	
MIDLANDS EAST	4,253	238	13	3.1	119	8.1	22	0.9	0	392	
Derby	589	73	5	3.7	25	12.7	3	1.2	0	106	
Leicester	2,468	125	5	2.9	67	7.3	13	0.9	0	210	
Nottingham	1,196	40	3	2.8	27	7.7	6	0.8	0	76	

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative COVID-19 cases								Missing	TOTAL
		CKD	HT (HHD+PD)		ICHD		TPLT				
			N	% of HT	N	% of ICHD	N	% of TPLT			
MIDLANDS WEST	6,485	529	26	3.6	327	12.0	44	1.5	61	987	
Birmingham ¹	3,248	137	15	4.6	180	13.4	27	1.7	0	359	
Coventry	1,042	78	4	4.9	46	12.1	5	0.9	0	133	
Dudley	361	0	1	2.1	20	9.8	0	0.0	0	21	
Shrewsbury ²	424	212	2	2.5	17	8.3	4	2.9	27	262	
Stoke	808	20	2	1.9	22	7.7	7	1.7	0	51	
Wolverhampton	602	82	2	2.3	42	13.3	1	0.5	34	161	
NORTH EAST	2,930	34	2	1.0	85	8.3	15	0.9	0	136	
Carlisle	293	4	0	0.0	11	10.9	1	0.6	0	16	
Middlesbrough	925	0	0	0.0	19	5.5	7	1.3	0	26	
Newcastle	1,155	26	0	0.0	19	5.6	3	0.4	0	48	
Sunderland	557	4	2	5.1	36	14.8	4	1.5	0	46	
NORTH WEST	6,458	129	12	2.2	199	9.3	46	1.2	0	386	
Liverpool Aintree	218	0	0	0.0	15	9.7	0	0.0	0	15	
Liverpool Royal	1,277	0	0	0.0	38	10.6	5	0.6	0	43	
Manchester Royal	2,073	13	3	2.1	40	7.9	18	1.3	0	74	
Preston	1,322	66	2	2.5	46	8.8	12	1.7	0	126	
Salford	1,173	16	7	4.7	41	10.3	10	1.6	0	74	
Wirral	395	34	0	0.0	19	9.4	1	0.6	0	54	
SOUTH EAST	4,514	121	7	2.3	148	11.6	36	1.2	0	312	
Oxford	1,940	9	3	3.4	41	9.1	14	1.0	0	67	
Portsmouth	1,764	17	2	1.2	35	6.6	13	1.2	0	67	
Reading	810	95	2	4.1	72	24.6	9	1.9	0	178	
SOUTH WEST	4,808	43	0	0.0	67	3.8	15	0.5	0	125	
Bristol	1,469	40	0	0.0	22	4.6	6	0.7	0	68	
Dorset	765	1	0	0.0	5	1.7	3	0.7	0	9	
Exeter	1,088	0	0	0.0	10	2.2	0	0.0	0	10	
Gloucester	510	1	0	0.0	22	9.4	3	1.3	0	26	
Plymouth	539	1	0	0.0	4	3.1	2	0.6	0	7	
Truro	437	0	0	0.0	4	2.4	1	0.4	0	5	
YORKSHIRE & HUMBER	5,637	85	7	1.9	177	8.6	27	0.8	0	296	
Bradford	686	14	2	5.7	41	15.8	4	1.0	0	61	
Doncaster	332	4	0	0.0	9	5.0	0	0.0	0	13	

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative COVID-19 cases								Missing	TOTAL
		CKD	HT (HHD+PD)		ICHD		TPLT				
			N	% of HT	N	% of ICHD	N	% of TPLT			
Hull	883	3	1	1.9	11	3.1	2	0.4	0	17	
Leeds	1,687	20	2	2.3	49	9.0	10	0.9	0	81	
Sheffield	1,481	35	2	1.8	50	9.1	11	1.3	0	98	
York	568	9	0	0.0	17	9.2	0	0.0	0	26	
NORTHERN IRELAND	1,914	5	0	0.0	19	3.2	9	0.7	0	33	
Antrim	274	0	0	0.0	3	2.5	3	2.3	0	6	
Belfast	877	1	0	0.0	9	5.2	3	0.4	0	13	
Newry	249	1	0	0.0	3	3.7	3	2.0	0	7	
Ulster	190	1	0	0.0	1	0.9	0	0.0	0	2	
West NI	324	2	0	0.0	3	2.7	0	0.0	0	5	
SCOTLAND³	5,245	4	1.5	85	4.5	25	0.8	0	114		
WALES	3,252	17	6	2.2	106	8.9	20	1.1	0	149	
Bangor	202	8	0	0.0	6	8.6	3	3.0	0	17	
Cardiff	1,721	4	2	2.1	43	7.7	8	0.7	0	57	
Clwyd	190	0	0	0.0	25	33.3	1	1.0	0	26	
Swansea	824	5	3	2.9	21	5.6	6	1.7	0	35	
Wrexham	315	0	1	3.4	11	9.6	2	1.2	0	14	
ENGLAND	56,201	1,402	124	2.9	2,339	11.3	444	1.4	61	4,370	
NORTHERN IRELAND	1,914	5	0	0.0	19	3.2	9	0.7	0	33	
SCOTLAND³	5,245	4	1.5	85	4.5	25	0.8	0	114		
WALES	3,252	17	6	2.2	106	8.9	20	1.1	0	149	

¹Data from University Hospitals Birmingham NHS Foundation Trust (Heartlands Hospital & Queen Elizabeth Hospital).

²The cumulative number of CKD patients with a positive test is high in Shrewsbury because of active testing in the community.

³Scotland reported cumulative cases up to 18 August 2020.

CKD – chronic kidney disease (i.e. patients with CKD not on RRT); HHD – home haemodialysis; HT – home therapies; ICHD – in-centre haemodialysis; PD – peritoneal dialysis; RRT – renal replacement therapy; TPLT – transplant; Missing – treatment modality data missing

Table 2 Number of cumulative reported deaths within 28 days of laboratory-confirmed COVID-19 in CKD and RRT patients up to 31 August 2020, in adult renal centres in England, Northern Ireland, Scotland and Wales by region, renal centre and country

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative deaths attributed to Covid-19								TOTAL
		CKD	HT (HHD+PD)		ICHD		TPLT		Missing	
			N	% of HT	N	% of ICHD	N	% of TPLT		
EAST OF ENGLAND	4,553	4	5	1.6	28	1.6	7	0.3	0	44
Basildon	314	0	1	2.6	6	3.5	0	0.0	0	7
Cambridge	1,417	1	0	0.0	4	1.3	4	0.4	0	9
Chelmsford	270	0	0	0.0	1	0.9	0	0.0	0	1
Colchester	121	0	0	0.0	2	1.7	0	0.0	0	2
Ipswich	428	1	0	0.0	5	3.3	0	0.0	0	6
Norwich	786	1	1	2.0	1	0.3	3	0.7	0	6
Southend	260	0	2	6.5	0	0.0	0	0.0	0	2
Stevenage	957	1	1	1.4	9	1.8	0	0.0	0	11
KENT, SURREY & SUSSEX	2,169	34	0	0.0	14	1.6	4	0.3	0	52
Brighton	1,055	23	0	0.0	9	2.0	0	0.0	0	32
Kent	1,114	11	0	0.0	5	1.2	4	0.6	0	20
LONDON	14,394	47	18	1.9	221	3.9	48	0.6	0	334
Carshalton	1,736	9	3	2.4	18	2.1	3	0.4	0	33
London Barts	2,610	0	3	1.1	37	3.5	7	0.6	0	47
London Guy's	2,225	12	0	0.0	10	1.4	9	0.6	0	31
London King's	1,186	7	0	0.0	26	4.4	4	0.8	0	37
London Royal Free	2,234	14	3	1.7	34	5.0	4	0.3	0	55
London St George's	837	0	4	8.7	13	4.4	2	0.4	0	19
London West	3,566	5	5	3.2	83	5.8	19	1.0	0	112
MIDLANDS EAST	4,253	99	4	1.0	25	1.7	5	0.2	0	133
Derby	589	28	2	1.5	5	2.5	2	0.8	0	37
Leicester	2,468	49	1	0.6	13	1.4	3	0.2	0	66
Nottingham	1,196	22	1	0.9	7	2.0	0	0.0	0	30
MIDLANDS WEST	6,485	209	12	1.7	83	3.0	10	0.3	36	350
Birmingham ¹	3,248	55	8	2.5	43	3.2	8	0.5	0	114
Coventry	1,042	31	1	1.2	10	2.6	0	0.0	0	42
Dudley	361	0	1	2.1	11	5.4	0	0.0	0	12
Shrewsbury	424	87	2	2.5	4	1.9	1	0.7	10	104
Stoke	808	7	0	0.0	6	2.1	1	0.2	0	14

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative deaths attributed to Covid-19								Missing	TOTAL
		CKD	HT (HHD+PD)		ICHD		TPLT				
			N	% of HT	N	% of ICHD	N	% of TPLT			
Wolverhampton	602	29	0	0.0	9	2.9	0	0.0	26	64	
NORTH EAST	2,930	10	0	0.0	21	2.0	2	0.1	0	33	
Carlisle	293	1	0	0.0	5	5.0	0	0.0	0	6	
Middlesbrough	925	0	0	0.0	3	0.9	1	0.2	0	4	
Newcastle	1,155	7	0	0.0	3	0.9	0	0.0	0	10	
Sunderland	557	2	0	0.0	10	4.1	1	0.4	0	13	
NORTH WEST	6,458	59	4	0.7	48	2.2	15	0.4	0	126	
Liverpool Aintree	218	0	0	0.0	6	3.9	0	0.0	0	6	
Liverpool Royal	1,277	0	0	0.0	12	3.3	2	0.2	0	14	
Manchester Royal	2,073	6	3	2.1	7	1.4	8	0.6	0	24	
Preston	1,322	27	0	0.0	12	2.3	3	0.4	0	42	
Salford	1,173	10	1	0.7	6	1.5	1	0.2	0	18	
Wirral	395	16	0	0.0	5	2.5	1	0.6	0	22	
SOUTH EAST	4,514	45	3	1.0	38	3.0	6	0.2	0	92	
Oxford	1,940	3	1	1.1	9	2.0	2	0.1	0	15	
Portsmouth	1,764	1	0	0.0	8	1.5	3	0.3	0	12	
Reading	810	41	2	4.1	21	7.2	1	0.2	0	65	
SOUTH WEST	4,808	16	0	0.0	16	0.9	4	0.1	0	36	
Bristol	1,469	15	0	0.0	6	1.3	2	0.2	0	23	
Dorset	765	0	0	0.0	0	0.0	0	0.0	0	0	
Exeter	1,088	0	0	0.0	1	0.2	0	0.0	0	1	
Gloucester	510	0	0	0.0	8	3.4	1	0.4	0	9	
Plymouth	539	1	0	0.0	1	0.8	0	0.0	0	2	
Truro	437	0	0	0.0	0	0.0	1	0.4	0	1	
YORKSHIRE & HUMBER	5,637	39	2	0.5	44	2.1	6	0.2	0	91	
Bradford	686	8	0	0.0	13	5.0	0	0.0	0	21	
Doncaster	332	2	0	0.0	3	1.7	0	0.0	0	5	
Hull	883	1	1	1.9	7	2.0	2	0.4	0	11	
Leeds	1,687	11	0	0.0	8	1.5	3	0.3	0	22	
Sheffield	1,481	11	1	0.9	11	2.0	1	0.1	0	24	
York	568	6	0	0.0	2	1.1	0	0.0	0	8	
NORTHERN IRELAND	1,914	0	0	0.0	4	0.7	2	0.2	0	6	
Antrim	274	0	0	0.0	0	0.0	0	0.0	0	0	

Region/renal centre	N RRT patients alive end of 2018	Number of cumulative deaths attributed to Covid-19								Missing	TOTAL
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Belfast	877	0	0	0.0	3	1.7	2	0.3	0	5	
Newry	249	0	0	0.0	1	1.2	0	0.0	0	1	
Ulster	190	0	0	0.0	0	0.0	0	0.0	0	0	
West NI	324	0	0	0.0	0	0.0	0	0.0	0	0	
SCOTLAND²	5,245		1	0.4	22	1.2	7	0.2	0	30	
WALES	3,252	8	2	0.7	30	2.5	6	0.3	0	46	
Bangor	202	4	0	0.0	2	2.9	0	0.0	0	6	
Cardiff	1,721	3	0	0.0	15	2.7	4	0.4	0	22	
Clwyd	190	0	0	0.0	5	6.7	1	1.0	0	6	
Swansea	824	1	1	1.0	6	1.6	1	0.3	0	9	
Wrexham	315	0	1	3.4	2	1.8	0	0.0	0	3	
ENGLAND	56,201	562	48	1.1	538	2.6	107	0.3	36	1,291	
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SCOTLAND²	5,245		1	0.4	22	1.2	7	0.2	0	30	
WALES	3,252	8	2	0.7	30	2.5	6	0.3	0	46	

¹Data from University Hospitals Birmingham NHS Foundation Trust (Heartlands Hospital & Queen Elizabeth Hospital).

²Scotland reported cumulative cases up to 22 November 2020.

The delay between the NHS tracing process and producing this report may result in a possible underestimation of the number of deaths.

CKD – chronic kidney disease (i.e. patients with CKD not on RRT); HHD – home haemodialysis; HT – home therapies; ICHD – in-centre haemodialysis; PD – peritoneal dialysis; RRT – renal replacement therapy; TPLT – transplant; Missing – treatment modality data missing

RENAL ASSOCIATION COVID-19 GUIDELINES

You can access the most recent Renal Association guidelines on the care of patients with kidney disease during the COVID-19 pandemic by clicking on the link below:

<https://renal.org/health-professionals/covid-19>