

# UK Renal Registry 17th Annual Report: Appendix H Coding: Ethnicity, EDTA Primary Renal Diagnoses, EDTA Causes of Death

## H1: Ethnicity coding

Ethnicity data is recorded in the clinical information systems in the individual renal centres in the format of 9S... read codes. If extracted from local PAS systems in a different format, it is recoded to the 9S... format by the centre, before being sent to the UK Renal Registry (UKRR). For report analyses, ethnic categories are condensed into five groups (White, South Asian, Black, Chinese and Other). For some analyses Chinese are grouped into Other.

Read code	Ethnic category	Assigned group	Old PAS	New PAS
9S1.	White	White	0	A1
9SA9.	Irish (NMO)	White		B1
9SAA.	Greek Cypriot (NMO)	White		CG
9SAB.	Turkish Cypriot (NMO)	White		CJ
9SAC.	Other European (NMO)	White		C1
9S6.	Indian	S Asian	4	H1
9S7.	Pakistani	S Asian	5	J1
9S8.	Bangladeshi	S Asian	6	K1
9SA6.	East African Asian	S Asian		
9SA7.	Indian Subcontinent	S Asian		
9SA8.	Other Asian	S Asian		L1
9S2.	Black Caribbean	Black	1	M1
9S3.	Black African	Black	2	N1
9S4.	Black/Other/non-mixed origin	Black	3	P1
9S41.	Black British	Black		PD
9S42.	Black Caribbean	Black		
9S43.	Black North African	Black		
9S44.	Black other African country	Black		
9S45.	Black East African Asian	Black		
9S46.	Black Indian subcontinent	Black		
9S47.	Black Other Asian	Black		
9S48.	Black Black Other	Black		PE
9S5.	Black other/mixed	Black		
9S51.	Other Black – Black/White origin	Black		GC
9S52.	Other Black – Black/Asian origin	Black		GA
9S9.	Chinese	Chinese	7	R1
9T1C.	Chinese	Chinese		
9SA.	Other ethnic non-mixed (NMO)	Other		
9SA1.	British ethnic minority specified (NMO)	Other		
9SA2.	British ethnic minority unspecified (NMO)	Other		
9SA3.	Caribbean Island (NMO)	Other		

Read code	Ethnic category	Assigned group	Old PAS	New PAS
9SA4.	North African Arab (NMO)	Other		
9SA5.	Other African countries (NMO)	Other		
9SAD.	Other ethnic NEC (NMO)	Other		S1
9SB.	Other ethnic/mixed origin	Other	8	
9SB1.	Other ethnic/Black/White origin	Other		E1
9SB2.	Other ethnic/Asian/White origin	Other		F1
9SB3.	Other ethnic/mixed White origin	Other		
9SB4.	Other ethnic/Other mixed origin	Other		G1

NMO denotes non-mixed origin

## H2: EDTA primary renal diagnoses

New primary renal diagnosis codes were produced in 2012 [1] but the data used for this report uses the old codes as detailed in the table below.

Code	Title	Group
0	Chronic renal failure; aetiology uncertain unknown/unavailable	Uncertain
10	Glomerulonephritis; histologically NOT examined	Glomerulonephritis*
11	Focal segmental glomerulosclerosis with nephrotic syndrome in children	Glomerulonephritis
12	IgA nephropathy (proven by immunofluorescence, not code 76 and not 85)	Glomerulonephritis
13	Dense deposit disease; membrano-proliferative GN; type II (proven by immunofluorescence and/or electron microscopy)	Glomerulonephritis
14	Membranous nephropathy	Glomerulonephritis
15	Membrano-proliferative GN; type I (proven by immunofluorescence and/or electron microscopy – not code 84 or 89)	Glomerulonephritis
16	Crescentic (extracapillary) glomerulonephritis (type I, II, III)	Glomerulonephritis
17	Focal segmental glomerulosclerosis with nephrotic syndrome in adults	Glomerulonephritis
19	Glomerulonephritis; histologically examined, not given above	Glomerulonephritis
20	Pyelonephritis – cause not specified	Pyelonephritis
21	Pyelonephritis associated with neurogenic bladder	Pyelonephritis
22	Pyelonephritis due to congenital obstructive uropathy with/without vesico-ureteric reflux	Pyelonephritis
23	Pyelonephritis due to acquired obstructive uropathy	Pyelonephritis
24	Pyelonephritis due to vesico-ureteric reflux without obstruction	Pyelonephritis
25	Pyelonephritis due to urolithiasis	Pyelonephritis
29	Pyelonephritis due to other cause	Pyelonephritis
30	Interstitial nephritis (not pyelonephritis) due to other cause, or unspecified (not mentioned above)	Other
31	Nephropathy (interstitial) due to analgesic drugs	Other
32	Nephropathy (interstitial) due to cis-platinum	Other
33	Nephropathy (interstitial) due to cyclosporin A	Other
34	Lead induced nephropathy (interstitial)	Other
39	Drug induced nephropathy (interstitial) not mentioned above	Other
40	Cystic kidney disease – type unspecified	Polycystic
41	Polycystic kidneys; adult type (dominant)	Polycystic
42	Polycystic kidneys; infantile (recessive)	Polycystic
43	Medullary cystic disease; including nephronoptosis	Other
49	Cystic kidney disease – other specified type	Other
50	Hereditary/Familial nephropathy – type unspecified	Other
51	Hereditary nephritis with nerve deafness (Alport's Syndrome)	Other
52	Cystinosis	Other
53	Primary oxalosis	Other
54	Fabry's disease	Other
59	Hereditary nephropathy – other specified type	Other
60	Renal hypoplasia (congenital) – type unspecified	Other

Code	Title	Group
61	Oligomeganephronic hypoplasia	Other
63	Congenital renal dysplasia with or without urinary tract malformation	Other
66	Syndrome of agenesis of abdominal muscles (Prune Belly)	Other
70	Renal vascular disease – type unspecified	Renal vascular disease
71	Renal vascular disease due to malignant hypertension	Hypertension
72	Renal vascular disease due to hypertension	Hypertension
73	Renal vascular disease due to polyarteritis	Renal vascular disease
74	Wegener's granulomatosis	Other
75	Ischaemic renal disease/cholesterol embolism	Renal vascular disease
76	Glomerulonephritis related to liver cirrhosis	Other
78	Cryoglobulinemic glomerulonephritis	Other
79	Renal vascular disease – due to other cause (not given above and not code 84–88)	Renal vascular disease
80	Type 1 diabetes with diabetic nephropathy	Diabetes
81	Type 2 diabetes with diabetic nephropathy	Diabetes
82	Myelomatosis/light chain deposit disease	Other
83	Amyloid	Other
84	Lupus erythematosus	Other
85	Henoch-Schoenlein purpura	Other
86	Goodpasture's syndrome	Other
87	Systemic sclerosis (scleroderma)	Other
88	Haemolytic Uraemic Syndrome (including Moschcowitz syndrome)	Other
89	Multi-system disease – other (not mentioned above)	Other
90	Tubular necrosis (irreversible) or cortical necrosis (different from 88)	Other
91	Tuberculosis	Other
92	Gout nephropathy (urate)	Other
93	Nephrocalcinosis and hypercalcaemic nephropathy	Other
94	Balkan nephropathy	Other
95	Kidney tumour	Other
96	Traumatic or surgical loss of kidney	Other
98	Not known	Missing
99	Other identified renal disorders	Other
199	Code not sent	Missing

\*Prior to the 15th Annual Report categorised as 'uncertain'

### H3: EDTA cause of death

EDTA code	Cause	UKRR category
0	Cause of death uncertain/not determined	Uncert
11	Myocardial ischaemia and infarction	Heart
12	Hyperkalaemia	Other
13	Haemorrhagic pericarditis	Other
14	Other causes of cardiac failure	Heart
15	Cardiac arrest/sudden death; other cause or unknown	Heart
16	Hypertensive cardiac failure	Heart
17	Hypokalaemia	Other
18	Fluid overload/pulmonary oedema	Heart
21	Pulmonary embolus	Other
22	Cerebro-vascular accident, other cause or unspecified	CVA
23	Gastro-intestinal haemorrhage (digestive)	Other
24	Haemorrhage from graft site	Other
25	Haemorrhage from vascular access or dialysis circuit	Other
26	Haemorrhage from ruptured vascular aneurysm (not code 22 or 23)	Other
27	Haemorrhage from surgery (not codes 23, 24, 26)	Other
28	Other haemorrhage, (not codes 23–27)	Other

EDTA code	Cause	UKRR category
29	Mesenteric infarction	Other
31	Pulmonary infection bacterial (not code 73)	Infect
32	Pulmonary infection (viral)	Infect
33	Pulmonary infection (fungal or protozoal; parasitic)	Infect
34	Infections elsewhere except viral hepatitis	Infect
35	Septicaemia	Infect
36	Tuberculosis (lung)	Infect
37	Tuberculosis (elsewhere)	Infect
38	Generalized viral infection	Infect
39	Peritonitis (all causes except for peritoneal dialysis)	Infect
41	Liver disease due to hepatitis B virus	Other
42	Liver disease due to other viral hepatitis	Other
43	Liver disease due to drug toxicity	Other
44	Cirrhosis – not viral (alcoholic or other cause)	Other
45	Cystic liver disease	Other
46	Liver failure – cause unknown	Other
47	Patient refused further treatment for end stage renal failure (ESRF)	Trt_stop
51	Patient refused further treatment for end stage renal failure (ESRF)	Trt_stop
52	Suicide	Other
53	ESRF treatment ceased for any other reason	Trt_stop
54	ESRF treatment withdrawn for medical reasons	Trt_stop
61	Uraemia caused by graft failure	Trt_stop
62	Pancreatitis	Other
63	Bone marrow depression (Aplasia)	Other
64	Cachexia	Other
66	Malignant disease in patient treated by immunosuppressive therapy	Malignant
67	Malignant disease: solid tumours except those of 66	Malignant
68	Malignant disease: lymphoproliferative disorders (Except 66)	Malignant
69	Dementia	Other
70	Peritonitis (sclerosing, with peritoneal dialysis)	Other
71	Perforation of peptic ulcer	Other
72	Perforation of colon	Other
73	Chronic obstructive pulmonary disease	Other
81	Accident related to ESRF treatment (not 25)	Other
82	Accident unrelated to ESRF treatment	Other
90	Uraemia caused by graft failure	Trt_stop
99	Other identified cause of death	Other*
100	Peritonitis (bacterial, with peritoneal dialysis)	Infect
101	Peritonitis (fungal, with peritoneal dialysis)	Infect
102	Peritonitis (due to other cause, with peritoneal dialysis)	Infect

\*Prior to the 15th Annual Report categorised as 'uncertain'

## References

- 1 Venkat-Raman G et al.: New Primary diagnosis codes for the ERA-EDTA. *Nephrol Dial Transplant* 2012;27(12):4414–9