Supplemental table 1. Associations between serum potassium levels, ESRD and mortality using the baseline serum potassium value (obtained with second EGFR <60 ml/min/1.73 m^2)

	Overall Mortality HR (95%CI)	ESRD HR (95%CI)
<3.5 mmol/l (N=1106)	1.08 (0.94, 1.22)	0.69 (0.48, 0.999)
3.5-3.9 mmol/l (N=5392)	1.00 (0.94, 1.08)	0.97 (0.77, 1.21)
4-4.9 mmol/l (N=24717)	Reference	Reference
5-5.4 mmol/l (N=3931)	1.08 (0.997, 1.17)	0.85 (0.69, 1.05)
≥5.5 mmol/l (N=1213)	1.21 (1.08, 1.36)	0.91 (0.70, 1.18)

*Models adjusted for age, gender, race, diabetes, hypertension, malignancy, Congestive heart failure, coronary artery disease, COPD/asthma, BMI group, history of ACE/ARB, potassium sparing diuretics, not potassium sparing diuretics, beta blockers, eGFR, potassium supplementation, cerebrovascular disease, peripheral vascular disease, serum bicarbonate, log glucose and albumin. Mean value imputation was used for serum bicarbonate, glucose and albumin

Supplemental Table 2. Interaction between Age and baseline Potassium levels on overall mortality

	Age 50 HR (95%CI)	Age 60 HR (95%CI)	Age 70 HR (95%CI)	Age 80 HR (95%CI)
Adjusted model*				
<3.5 mmol/l	1.20 (0.94, 1.54)	1.14 (0.96, 1.36)	1.09 (0.95, 1.24)	1.04 (0.89, 1.20)
3.5-3.9 mmol/l	1.19 (1.01, 1.40)	1.11 (0.99, 1.25)	1.04 (0.96, 1.13)	0.97 (0.90, 1.05)
4-4.9 mmol/l	Ref	Ref	Ref	Ref
5-5.4 mmol/l	0.90 (0.74, 1.09)	0.97 (0.84, 1.10)	1.04 (0.95, 1.13)	1.11 (1.02, 1.20)
≥5.5 mmol/l	1.24 (0.97, 1.57)	1.23 (1.04, 1.45)	1.22 (1.08, 1.37)	1.21 (1.06, 1.37)

*Models adjusted for age, gender, race, diabetes, hypertension, malignancy, Congestive heart failure, coronary artery disease, COPD/asthma, BMI group, history of ACE/ARB, potassium sparing diuretics, not potassium sparing diuretics, beta blockers, eGFR, potassium supplementation, cerebrovascular disease, peripheral vascular disease, serum bicarbonate, log glucose and albumin. Mean value imputation was used for serum bicarbonate, glucose and albumin

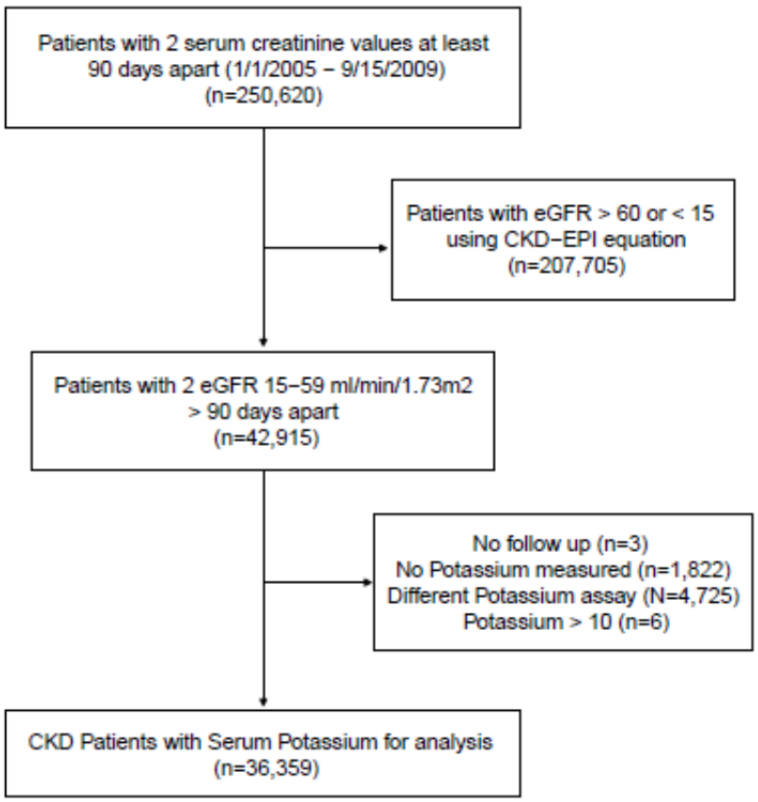

Figure 1. Flow chart showing how patients were selected for this analysis.