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Supplemental Table 1. Multivariable analysis of patient characteristics associated with withdrawal from hemodialysis prior to death, among patients (n=536) who died between 2001 and 2015.

<i>Characteristics at baseline and death</i>	Withdrawal OR (95% CI)	P-value
<i>Baseline Characteristics</i>		
Age at HD initiation, mean (SD)	1.41 (1.18, 1.68)	<0.001
HD duration (months), median [IQR]	1.01 (0.93, 1.10)	0.83
Male, No. (%)	0.87 (0.59, 1.30)	0.50
Caucasian, No. (%)	1.88 (0.85, 4.15)	0.11
Cause of CKD, No. (%)		0.13
Polycystic kidney disease		
Diabetic kidney disease	5.08 (1.09, 23.78)	
Hypertension	3.40 (0.74, 15.62)	
Glomerular/Tubulointerstitial Disease	4.14 (0.87, 19.70)	
Acute tubular necrosis	1.79 (0.30, 10.66)	
Failing kidney transplant	3.21 (0.56, 18.30)	
Other/Unknown	2.50 (0.55, 11.44)	
<i>Comorbidities and characteristics at death</i>		
Congestive heart failure, No. (%)	0.74 (0.47, 1.17)	0.20
Coronary artery disease, No. (%)	0.52 (0.33, 0.80)	0.003
Valvular heart disease, No. (%)	1.23 (0.82, 1.83)	0.32
Diabetes mellitus, No. (%)	0.67 (0.41, 1.11)	0.12
Malignancy, No. (%)	1.10 (0.74, 1.65)	0.63
Cerebrovascular disease, No. (%)	1.61 (1.08, 2.41)	0.02
Liver disease, No. (%)	1.10 (0.61, 1.98)	0.75
COPD, No. (%)	1.13 (0.76, 1.70)	0.55
Peripheral vascular disease, No. (%)	0.83 (0.55, 1.26)	0.37
Depression, No. (%)	0.70 (0.47, 1.03)	0.07
Hospitalization prior to death‡, No. (%)	1.62 (1.06, 2.46)	0.02
Palliative care consultation prior to death‡, No. (%)	2.16 (1.38, 3.39)	<0.001

Abbreviations: HD: hemodialysis; SD: standard deviation; IQR: interquartile range; CKD: chronic kidney disease; COPD: chronic obstructive pulmonary disease

OR: Odds Ratio; 95% CI: 95% confidence interval.

P-values <0.05 were considered statistically significant and are denoted in bold. P-values were derived using logistic regression models.

‡Hospitalizations were included if they occurred less than or equal to 30 days prior to death.

Supplemental Table 2. Multivariate analysis of patient characteristics associated with palliative care consultation within 6 months of death, among patients (n=262) who withdrew from hemodialysis prior to death between 2001 and 2015.

<i>Characteristics at baseline and death</i>	Palliative care OR (95% CI)	P-value
<u>Baseline Characteristics</u>		
Age at HD initiation, mean (SD)	0.93 (0.71, 1.22)	0.58
HD duration (months), median [IQR]	1.25 (1.11 1.41)	<0.001
Male, No. (%)	0.59 (0.31, 1.12)	0.11
Caucasian, No. (%)	2.71 (0.39, 18.75)	0.31
Cause of CKD, No. (%)		0.67
Polycystic kidney disease	Ref	
Diabetic kidney disease	0.16 (0.01, 3.85)	
Hypertension	0.08 (0.003, 1.91)	
Glomerular/Tubulointerstitial Disease	0.12 (0.01, 2.94)	
Acute tubular necrosis	0.13 (0.04, 4.41)	
Failing kidney transplant	0.13 (0.004, 4.12)	
Other/Unknown	0.16 (0.01, 3.64)	
<u>Comorbidities and characteristics at death</u>		
Congestive heart failure, No. (%)	2.03 (0.95, 4.34)	0.07
Coronary artery disease, No. (%)	0.82 (0.41, 1.61)	0.56
Valvular heart disease, No. (%)	0.52 (0.27, 1.004)	0.05
Diabetes mellitus, No. (%)	0.53 (0.22, 1.30)	0.17
Malignancy, No. (%)	1.21 (0.63, 2.31)	0.57
Cerebrovascular disease, No. (%)	1.73 (0.91, 3.29)	0.10
Liver disease, No. (%)	1.59 (0.66, 3.78)	0.30
COPD, No. (%)	0.98 (0.51, 1.90)	0.95
Peripheral vascular disease, No. (%)	1.02 (0.52, 2.01)	0.96
Depression, No. (%)	1.12 (0.60, 2.10)	0.72
Hospitalization prior to death‡, No. (%)	7.21 (2.81, 18.51)	<0.001
Hospital location of death (vs non-hospital),	1.06 (0.55, 2.05)	0.87

Abbreviations: HD: hemodialysis; SD: standard deviation; IQR: interquartile range; CKD: chronic kidney disease; COPD: chronic obstructive pulmonary disease

OR: Odds Ratio; 95% CI: 95% confidence interval.

P-values <0.05 were considered statistically significant and are denoted in bold. P-values were derived using logistic regression models.

‡Hospitalizations were included if they occurred less than or equal to 30 days prior to death.

†Palliative care consultations were included if they occurred less than or equal to 6 months prior to death.

*Per 10 years

**Per year