## **SUPPLEMENTAL TABLES**

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Supplemental Table 1. Symptom Questions					
Symptom	CHOICE	LUCID			
Anorexia	Loss of appetite	Lack of appetite			
Nausea	Nausea or vomiting	Nausea or upset stomach			
Pruritus	Dry or itchy skin	Itchy Skin			
Excessive Daytime Sleep	Enough sleep during night Did you have difficulty doing	Sleepiness during the day Difficulty doing activities			
Difficulty Concentrating	activities involving thinking and concentration	involving concentrating and thinking			
Fatigue	Did you feel worn out	Being washed out or drained			
Pain	Bodily pain	Bodily pain			

Non-responders in CHOICE		Non-	Р
Characteristic	Responders	responders	-
Sample size	926	115	
Demographics			
Age, y	58 ± 15	57 ± 16	0.58
Male sex	491 (53%)	73 (64%)	0.03
Black race	257 (28%)	38 (33%)	0.24
Clinical Characteristics			
Diabetes	498 (54%)	63 (55%)	0.86
ICED score	$1.9 \pm 0.8$	$1.9 \pm 0.9$	0.93
Residual kidney function	749 (81%)	45 (39%)	0.43
BMI, kg/m <sup>2</sup>	$27.1 \pm 6.7$	$26.9 \pm 7.1$	0.69
Dialysis Characteristics			
Dialysis modality, hemodialysis	697 (75%)	70 (61%)	< 0.001
Cause of ESKD, diabetes	423 (46%)	58 (50%)	0.43
Predialysis Laboratory Tests			
Blood urea nitrogen, mg/dL	$56.9 \pm 16.3$	55.5 ± 16.2	0.47
Kt/V <sub>UREA</sub>	$1.3 \pm 0.4$	$1.4 \pm 0.5$	0.16
Albumin, g/dL	$3.6 \pm 0.4$	$3.6 \pm 0.4$	0.48
Creatinine, mg/dL	$7.3 \pm 2.5$	$7.2 \pm 2.6$	0.70
Calcium, mg/dL	$9.1 \pm 0.7$	$8.8 \pm 0.7$	0.001
Phosphate, mg/dL	$5.2 \pm 1.3$	$5.2 \pm 1.3$	0.87
Potassium, mEq/L	$4.5 \pm 0.6$	$4.4 \pm 0.6$	0.08
Glucose, mg/dL	$167 \pm 86$	$175 \pm 99$	0.37
Cholesterol, mg/dL	190 ± 48	189 ± 49	0.76

Values for categorical variables are given as count (percentage); values for continuous variables as mean

Abbreviations: ICED, Index of Coexistent Disease; BMI, Body Mass Index; ESKD, End Stage Kidney Disease.

Chi-square tests for categorical variables and t-tests for continuous variables were used

Characteristic	Responders	Non- responders	P	
Sample size	428	390		
Demographics				
Age, y	$60 \pm 15$	62 ± 15	0.55	
Male sex	258 (60%)	241 (62%)	0.65	
Black race	137 (32%)	72 (19%)	< 0.001	
Clinical Characteristics				
Diabetes	231 (54%)	227 (58%)	0.22	
Residual kidney function	379 (89%)	334 (86%)	0.21	
BMI, kg/m <sup>2</sup>	28.9 ± 7.7	29.7 ± 9.6	0.19	
<b>Dialysis Characteristics</b>				
Dialysis modality, hemodialysis	413 (97%)	379 (97%)	0.58	
Cause of ESKD, diabetes	155 (36%)	139 (36%)	0.86	

Values for categorical variables are given as count (percentage); values for continuous variables as mean

Abbreviations: BMI, Body Mass Index; ESKD, End Stage Kidney Disease. Chi-square tests for categorical variables and t-tests for continuous variables were used

Supplemental Table 4. Prevalence of Uremic Symptoms across HD/PD in CHOICE						
	HD (N = 697)	PD (N = 229)				
Symptom	N (%)	N (%)	P			
Fatigue	90%	88%	0.24			
Anorexia	42%	51%	0.04			
Pruritus	72%	72%	0.99			
Sleepiness	85%	89%	0.36			
Nausea/Vomiting	38%	31%	0.047			
Difficulty Concentrating	54%	57%	0.59			
Pain	81%	84%	0.47			

Supplemental Table 5. The Spearman correlation between individual symptoms in LUCID								
	Fatigue	Anorexia	Pruritus	Sleepiness	Nausea/Vomiting	Difficulty concentrating	Pain	
Fatigue	1							
Anorexia	0.30 <0.001	1						
Pruritus	0.28 <0.001	0.11 0.02	1					
Sleepiness	0.31 <0.001	0.07 0.13	0.20 <0.001	1				
Nausea/Vomiting	0.35 <0.001	0.45 <0.001	0.24 <0.001	0.12 0.02	1			
Difficulty concentrating	0.31 <0.001	0.22 <0.001	0.25 <0.001	0.22 <0.001	0.23 <0.001	1		
Pain	0.35 <0.001	0.23 <0.001	0.24 <0.001	0.19 <0.001	0.29 <0.001	0.27 <0.001	1	

Supplemental Table 6. Baseline Chara	cteristics of Individ	uals Alive or Not A	live at 1-
Year Follow-up in CHOICE			
Characteristic	Alive	Not Alive	P
Sample size	585	341	
Demographics			
Age, y	$58.3 \pm 14.0$	57.4 ± 16.2	0.40
Male sex	301 (52%5)	190 (56%)	0.21
Black race	171 (29%)	86 (25%)	0.19
Clinical Characteristics		, ,	
Diabetes	315 (54%)	183 (54%)	0.97
ICED score	$1.9 \pm 0.8$	$2.0 \pm 0.8$	0.10
Residual kidney function	481 (82%)	268 (79%)	0.16
BMI, kg/m <sup>2</sup>	$27.5 \pm 6.5$	$26.5 \pm 6.9$	0.04
Dialysis Characteristics			
Dialysis modality, hemodialysis	452 (77%)	245 (72%)	0.07
Cause of ESKD, diabetes	275 (47%)	148 (43%)	0.38
Predialysis Laboratory Tests			
Blood urea nitrogen, mg/dL	56.7 ± 15.3	57.2 ± 18.0	0.75
Kt/V <sub>UREA</sub>	$1.3 \pm 0.4$	$1.4 \pm 0.4$	0.63
Albumin, g/dL	$3.6 \pm 0.4$	$3.6 \pm 0.4$	0.08
Creatinine, mg/dL	$7.3 \pm 2.3$	$7.3 \pm 2.8$	0.83
Calcium, mg/dL	$9.1 \pm 0.7$	$9.1 \pm 0.7$	0.50
Phosphate, mg/dL	$5.2 \pm 1.2$	5.3 ± 1.5	0.12
Potassium, mEq/L	$4.5 \pm 0.6$	$4.5 \pm 0.7$	0.78
Glucose, mg/dL	166 ± 83	168 ± 91	0.74
Cholesterol, mg/dL	192 ± 48	188 ± 49	0.37

Values for categorical variables are given as count (percentage); values for continuous variables, as mean

Abbreviations: ICED, Index of Coexistent Disease; BMI, Body Mass Index; ESKD, End Stage Kidney Disease.

Chi-square tests for categorical variables and t-tests for continuous variables were used

			ID Dos	Model 1		Model 2		Model 3	
	N	Events	IR Per ents 1000 PY	Unadjusted HR (95% CI)	1 P	Age, sex, rad HR (95% CI)	се - <i>Р</i>	AII HR (95% CI)	P
Any-Cause Death	926	580	173	1.00 (0.95-1.04)	0.95	1.05 (1.01-1.10)	0.02	1.05 (1.01-1.10)	0.01
Cardiac Death	924	282	84	0.99 (0.94-1.05)	0.82	1.06 (1.00-1.11)	0.04	1.06 (0.99-1.12)	0.08
First Cardiovascular Event	926	516	204	0.99 (0.95-1.04)	0.73	1.06 (1.00-1.11)	0.03	1.05 (1.00-1.10)	0.04

Abbreviation: HR, Hazard Ratio; CI, Confidence Interval; IR, Incidence Rate; PY, Person Years.

HR represents increase in risk per 10-score decrease (worsening symptoms) in baseline uremic symptom score.

Model 1 was unadjusted.

Model 2 was adjusted for age, sex, and race.

Model 3 was adjusted for variables in Model 2 + Index of Coexisting Disease (ICED) severity score, cause of end-stage renal disease, body mass index (categorized as <18, 18 to 25 and >25 kg/m2), residual kidney function (self-reported urine volume > 250 ml), diabetes, dialysis modality, and predialysis labs (albumin, urea, Kt/Vurea, creatinine, calcium, phosphate, potassium, glucose, and cholesterol).