

Peritoneal Equilibration Test and Patient Outcomes

SUPPLEMENTARY MATERIALS

Supplementary Table 1. Comparison of baseline characteristics of patients included in the analyses from the ones excluded

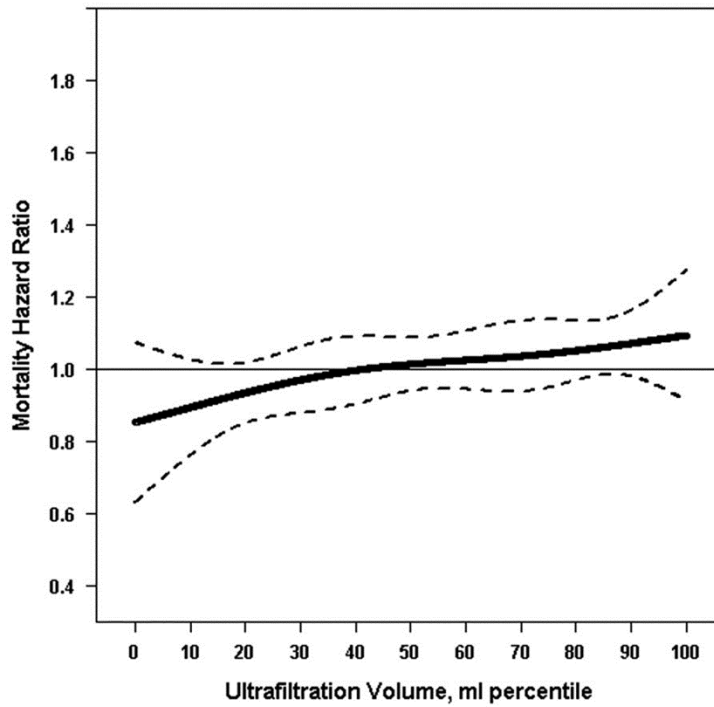
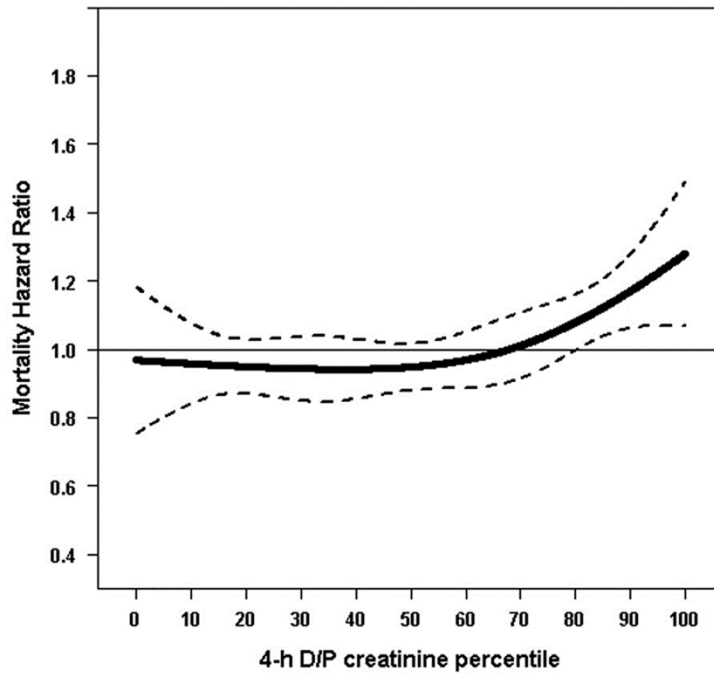
	Included N = 10,142	Excluded N = 8,135	P
Age, years	56 ± 15	56 ± 16	0.01
Gender, % males	57	55	0.004
Race			
White	58	57	0.17
Black	23	23	0.32
Hispanic	12	13	0.35
Others	7	7	0.83
Cause of ESRD			
Diabetes	40	40	0.97
Hypertension	27	27	0.98
Others	33	33	0.99
h/o previous transplant, %	3	2	0.13
h/o prior treatment with HD, %	39	34	0.01
Comorbidities			
Diabetes	63	61	0.005
Hypertension	53	54	0.20
Congestive heart failure	20	20	0.50
Atherosclerotic heart disease	17	16	0.05
Other cardiovascular	15	15	0.90
Dyslipidemia	47	45	0.0005
Weekly Kt/Vurea			
Peritoneal	1.50 ± 0.42	1.49 ± 0.46	0.34
Residual renal	0.99 ± 0.78	1.01 ± 0.83	0.17
Total	2.50 ± 0.77	2.52 ± 0.83	0.12
Median weekly ESA dose, units	4864 (1430, 11190)	4868 (1500, 11440)	0.0163
Laboratory parameters			
Hemoglobin, g/dl	11.6 ± 1.3	11.4 ± 1.40	<0.0001
Albumin, g/dl	3.6 ± 0.5	3.6 ± 0.49	0.10
Calcium, mg/dl	9.1 ± 0.6	9.1 ± 0.67	0.05
Phosphorus, mg/dl	5.0 ± 1.3	5.1 ± 1.33	0.0009
Parathyroid hormone, pg/ml	292 (183, 469)	294 (181, 485)	0.0004
Creatinine, mg/dl	7.2 ± 3.6	7.1 ± 3.55	0.34
Potassium, meq/L	4.2 ± 0.5	4.3 ± 0.57	<0.0001
Use of APD, %			
Initial	52	68	<0.0001
Ever through follow-up	88	83	<0.0001
Geographic location, %			
Northeast	8	10	<0.0001
Midwest	20	20	0.30
West	47	46	0.02

South	25	24	0.14
Year of incidence			
2007	17	24	<0.0001
2008	22	17	<0.0001
2009	24	17	<0.0001
2010	24	22	<0.0001
2011	13	20	<0.0001
Outcomes			
Expired, %	12	12	0.65
Transfer to in-center hemodialysis, %	22	23	0.23
Number of hospitalizations /patient-year	1.20	1.36	0.08
Transplant, %	9	7	<0.0001

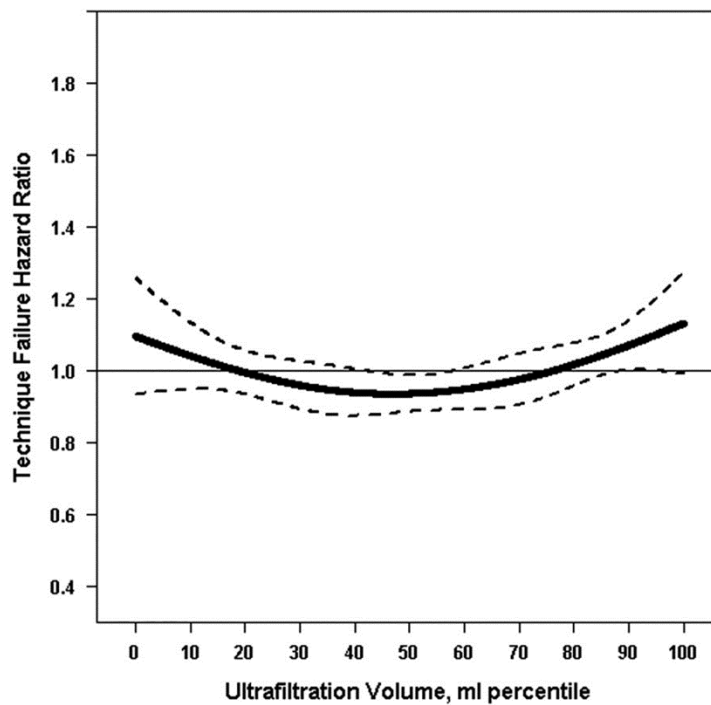
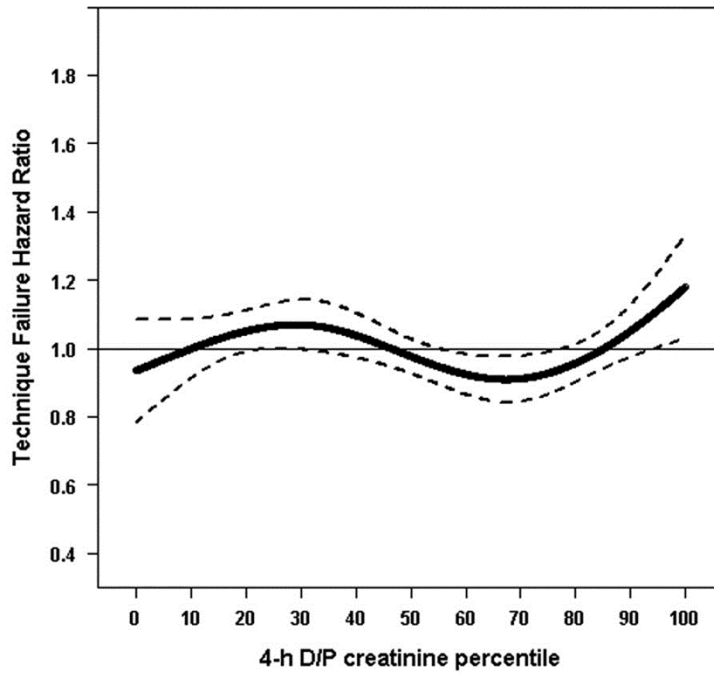
Supplementary Table 2 Summary of parameters from PET

Parameter	Results (n=10,142)
Interval from date of start of PD to PET, days*	39 (28, 61)
Interval from date of start of dialysis to PET, days*	96 (56, 188)
Preceding overnight exchange:	
Dwell time, minutes	600 ± 104
Drain volume, ml	2088 ± 510
Dialysate creatinine (corrected), mg/dl	7.35 ± 3.16
Dialysate urea, mg/dl	60.0 ± 18.9
Dialysate glucose, mg/dl*	396 (282, 538)
Dialysate Volume, ml:	
Infused	2003 ± 171
Drained	2284 ± 309
Ultrafiltration volume	281 ± 254
Serum levels:	
Urea nitrogen, mg/dl	52 ± 16
Creatinine, mg/dl	7.2 ± 3.6
Glucose, mg/dl	160 ± 70
Albumin, g/dl	3.6 ± 0.5
Ratios:	
4-hour D/P creatinine (corrected)	0.65 ± 0.12
4-hour D/D0 glucose	0.40 ± 0.09
4-hour D/P urea	0.92 ± 0.07

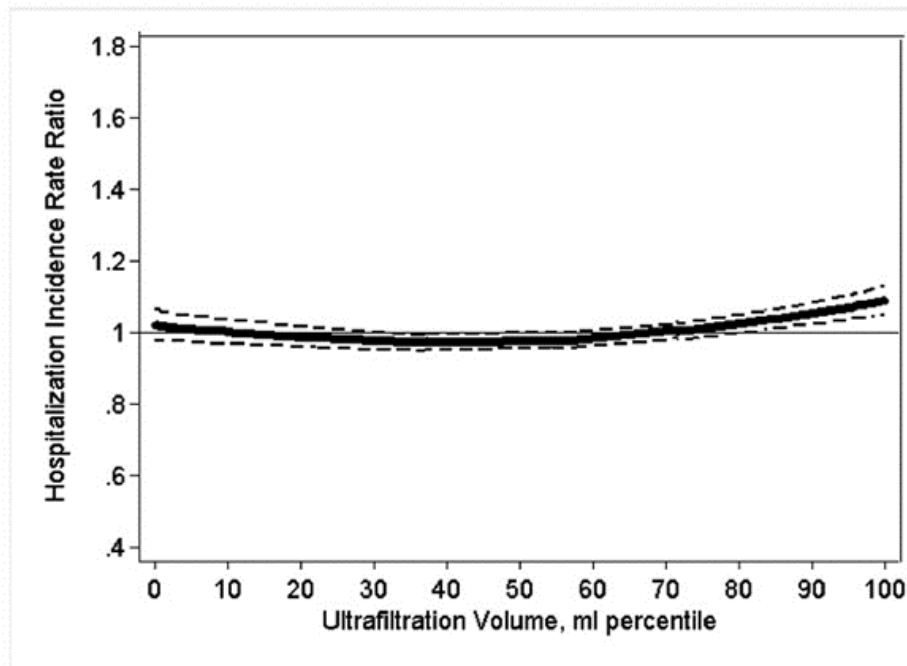
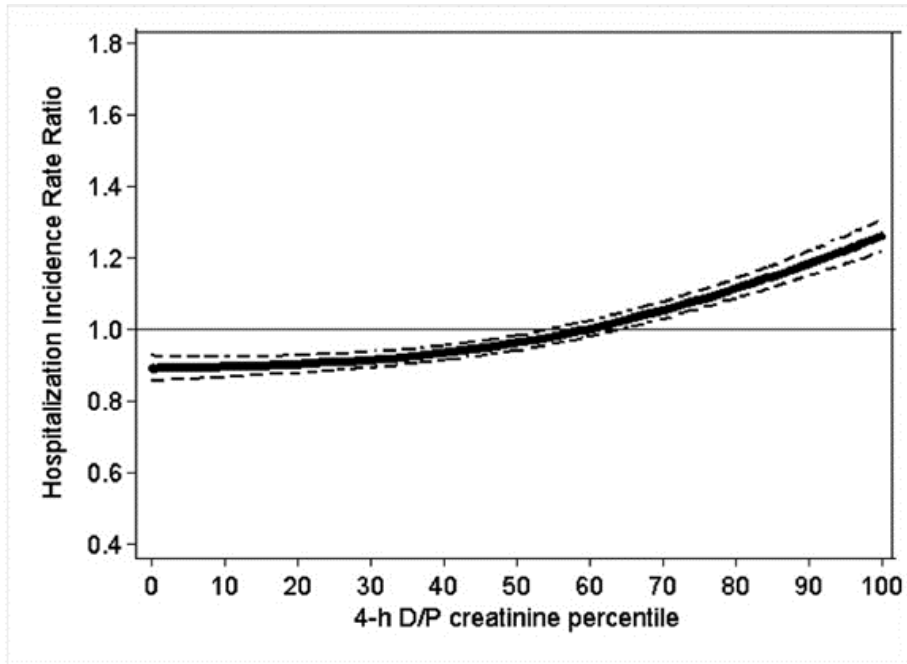
Data are presented as mean ± standard deviation, except when indicated by * where they are presented as median with interquartile range.



Supplementary Figure 1: Cubic splines demonstrating the association of percentile rank of 4-h D/P creatinine, and ultrafiltration volume from the Peritoneal Equilibration Test with all-cause mortality



Supplementary Figure 2: Cubic splines demonstrating the association of percentile rank of 4-h D/P creatinine, and ultrafiltration volume from the Peritoneal Equilibration Test with technique failure



Supplementary Figure 3: Cubic splines demonstrating the association of percentile rank of 4-h D/P creatinine, and ultrafiltration volume from the Peritoneal Equilibration Test with hospitalization rate