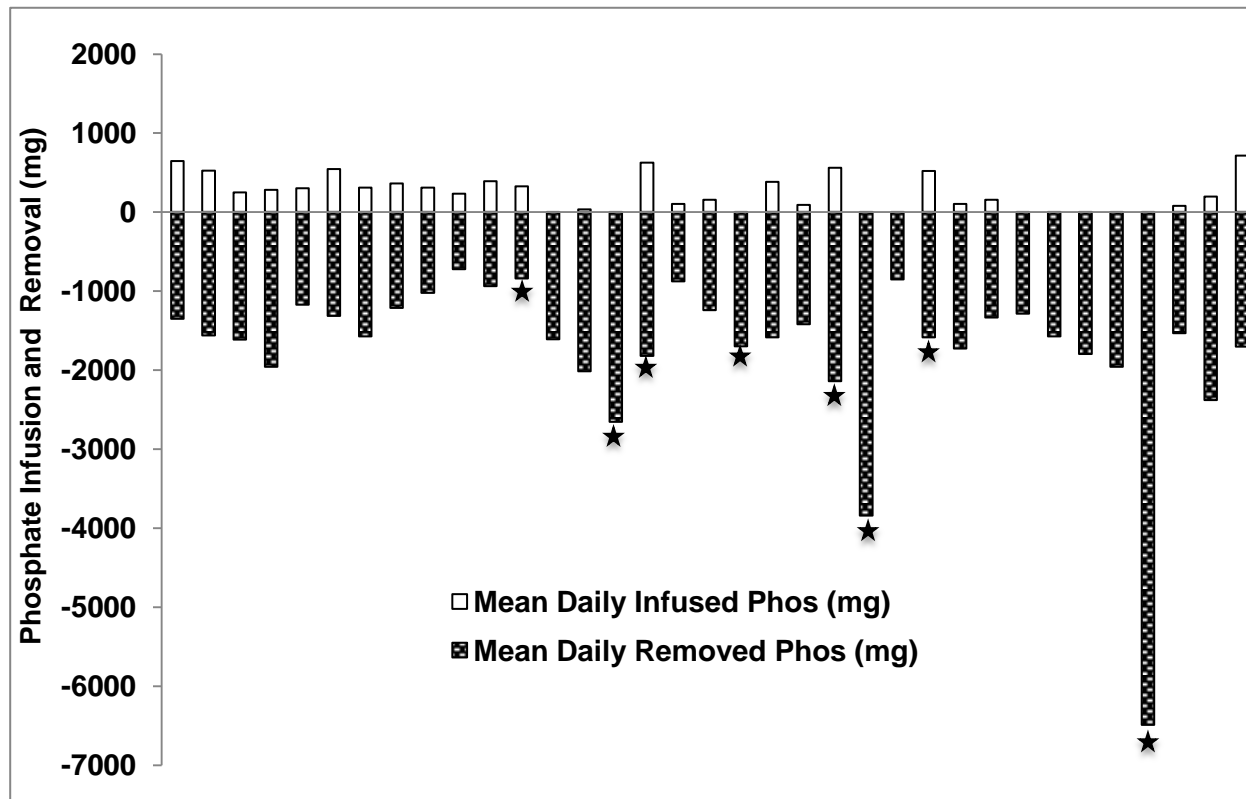


### Figure S1. Infused and removed phosphate during CVVH.

The white bars depict the mean amount of phosphate infused in each patient during the course of the study, while the patterned bars depict the mean phosphate measured in the effluent. Asterisks identify those patients with only one day of CVVH. In those patients, the bars represent a single day’s phosphate infusion and removal on CVVH. In the others, the bars represent the mean over the duration of CVVH collection.



**Table S1.** Demographics and clinical characteristics at CVVH initiation.

Age/Sex/Race	Reason for ICU admission	Cause of AKI	Nutrition	Day of CVVH initiation after ICU admission	Outcome at end of hospital stay
57/F/H	Septic Shock	ATN	E	2	D
66/M/C	Septic Shock	ATN	E	14	HD
48/F/C	Septic Shock	M	P	2	D
70/M/C	Surgery	ATN	P	2	HD
61/F/AA	Respiratory Failure	M	E	8	D
71/F/C	Surgery	M	P	0	D
44/M/C	Other	O	E	10	HD
59/M/C	Septic Shock	O	E	9	D
45/M/C	Surgery	ATN	P	10	D
65/F/C	Surgery	M	None	11	HD
53/M/C	Septic Shock	M	P	20	D
73/F/C	Surgery	M	E	5	D
25/M/C	Respiratory Failure	ATN	None	12	HD
63/M/C	Other	ATN	E	1	D
47/M/AA	Other	O	None	0	D
62/M/C	Surgery	ATN	E	7	HD
73/F/C	Surgery	ATN	None	1	R
74/M/C	Surgery	ATN	P	1	HD
68/M/C	Septic Shock	ATN	None	2	D
41/M/C	Surgery	M	None	1	D
71/M/C	Septic Shock	ATN	None	1	D
51/F/C	Septic Shock	M	E	4	R
64/M/C	Other	ATN	P	1	D
62/M/C	Septic Shock	M	P	3	D
78/M/AA	Respiratory Failure	ATN	E	14	D
64/F/AA	Respiratory Failure	ATN	None	12	D
60/M/C	Other	ATN	E	1	D
80/M/C	Surgery	ATN	P	4	D
57/M/C	Other	M	None	3	D
72/M/C	Surgery	ATN	None	15	D
48/F/C	Respiratory Failure	M	P	14	D
52/M/C	Septic Shock	ATN	None	4	D
54/M/H	Septic Shock	ATN	P	7	D
50/M/C	Septic Shock	M	E	2	D
66/M/C	Other	ATN	E	33	HD

Legend: AA, African American; C, Caucasian; H, Hispanic; P, Parenteral Nutrition; E, Enteral Nutrition; N, None; D, Death; HD, Hemodialysis; R, Renal Recovery; ATN, acute tubular necrosis; M, Multifactorial; O, other (AKI secondary to acute interstitial nephritis, atheroembolic disease, or contrast induced nephropathy)

**Table S2.** Serial Effluent Collections in patients on CVVH.

Age/Sex/Wt (Kg)	Duration of collection, (days)	Pre-CVVH Phos, (mg/dl)	Post-CVVH Phos, (mg/dl)	Net I/v Phos intake A, (mg)	Net Nutritional Phos intake B, (mg)	Net Phos intake A+B (mg)	Net Phosphate removed, (mg)	Net Phosphate Balance, (mg)
57/F/62	4	9.4	3.4	625	1950	2575	5401	-2826
66/M/128	6	4.6	2.7	1550	1598	3148	9368	- 6220
48/F/90	7	7.9	2.9	775	971	1747	11301	- 9554
70/M/77	2	4.6	3.3	0	558	558	3922	- 3364
61/F/125	7	8.5	2.6	1240	876	2116	8217	- 6101
71/F/60	2	5.4	2.2	620	468	1088	2631	- 1543
44/M/108	2	7.7	3	620	0	620	3149	- 2529
59/M/111	2	4.2	3.5	0	720	720	2427	- 1707
45/M/93	4	7.3	3.2	310	927	1237	4091	- 2854
65/F/112	2	3.7	2.5	465	0	465	1447	- 982
53/M/100	6	6.1	2.3	1240	1094	2334	5637	- 3303
73/F/95	1	7.2	4.4	0	324	324	842	- 518
25/M/67	2	5.1	4.7	0	0	0	3224	- 3224
63/M/100	4	10.4	3	0	143	143	8062	- 7919
47/M/76	1	4.8	3.7	0	0	0	2656	- 2656
62/M/72	1	2.6	2	465	159	624	1822	- 1198
73/F/64	3	3	2.5	310	0	310	2638	- 2328
74/M/99	2	6.1	3.9	310	0	310	2483	- 2173
68/M/84	1	5.8	3.2	0	0	0	1699	- 1699
41/M/101	7	6.2	3.1	310	2355	2665	11101	- 8436
71/M/92	7	8.9	3.1	620	0	620	9933	- 9313
51/F/86	1	4.7	2.6	0	561	561	2142	- 1581
64/M/100	2	8	5.1	0	0	0	3843	- 3843
62/M/72	2	4.9	2.6	0	0	0	1704	- 1704
78/M/95	1	4.6	2.9	0	518	518	1588	- 1070
64/F/112	3	7.6	3.4	310	0	310	5184	- 4874
60/M/70	7	6.1	2.9	620	480	1100	9343	-8243
80/M/91	2	7.5	3.2	0	0	0	2574	-2574
57/M/83	2	4.8	3.1	0	0	0	3147	-3147
72/M/105	2	6.4	3.4	0	0	0	3591	-3591
48/F/99	7	8.2	3.1	0	0	0	13723	-13723
52/M/136	1	8.6	6.8	0	0	0	6490	-6490
54/M/82	4	6	2.7	310	0	310	6135	-5825
50/M/116	2	8	4	0	389	389	4758	- 4369
66/M/80	4	5.9	2.9	620	2231	2851	6823	- 3972

**Table S3.** Daily Phosphate Balances in patients on CVVH.

Patient	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	-1576	-622	-373	-256			
2	-2077	-1539	-544	-769	-520	-772	
3	-2021	-1980	-1343	-1404	-575	-963	-1268
4	-1595	-1768					
5	-1863	-1319	-870	-449	-573	-576	-449
6	-826.7	-716					
7	-1120.8	-1408					
8	-816	-891					
9	-308	-974	-518	-1065			
10	-350	-632					
11	-665	-573	-276	-473	-696	-305	
12	-517						
13	-1269	-1955					
14	-2879	-1961	-1876	-1204			
15	-2656						
16	-1198						
17	-1085	-814	-429				
18	-1613	-559					
19	-1699						
20	-2221	-2381	-1569	-665	-393	-451	-749
21	-2250	-1797	-1511	-1460	-961	-626	-697
22	-1579						
23	-2262	-1578					
24	-1034	-668					
25	-1070						
26	-1982	-1824	-1069				
27	-1108	-906	-1517	-1312	-1313	-823	-1259
28	-1531	-1159					
29	-1552	-1592					
30	-1642	-1949					
31	-2727	-2718	-2043	-1535	-1949	-1669	-1082
32	-6490						
33	-1934	-2019	-1076	-796			
34	-2435	-1933					
35	-1407	-784	-735	-1046			

(All balances are in negative)