**Figure S1:** Heat map of the top 20 predictors of hospital readmission for Model 1 (0-30days), Model 2(31-90days) and Model 3 (91-365 days)

Length of Stay				- 0.30
Need Dialysis in First Week -	0.15	0.42	0.34	
Total Days in Dialysis -	0.062	0.041	0.0031	
	0.041	0.031	0.038	
Donor Age -	0.036	0.066	0.092	
Time Since ESRD -	0.035	0.033	0.047	- 0.24
Primary Disease Causing ESRD	0.029	0.028	0.06	
Patient Age at Tx -	0.026	0.018	0.02	
Cold Ischemic Time -				
Primary Diagnosis -	0.023	0.025	0.025	- 0.18
Diabetes at Listing -	0.021	0.012	0.0078	- 0.16
-	0.019	0.042	0.052	
Residence State at Listing -	0.019	0.0039	0.0057	
Waitlist Time -	0.017	0.005	0.0055	
SGOT/AST -	0.017	0.0067	0.01	- 0.12
Donor Home State -				
BMI Change at Tx -	0.016	0.0085	0.0053	
State of Residence -	0.015	0.011	0.0066	
Working for Income at Tx -	0.015	0.007	0.00046	
	0.015	0.0069	0.0054	- 0.06
Total Serum Albumin at Listing -	0.014	0.013	0.0077	
Creatinine Decline > 25% in First Day	0.014	0.0029	0	
ESRD Network	0.013	0.0017	0.0061	
	30 Days	I	91-365 Days	
	SO Days	31-90 Days Readmission Within	91-202 Days	