

Table A-1- Dataset description

Summary statistics of the selected continuous predictors (N=)					
	Variable	Range	Mean (SD)	SE	95% Conf.
Lung recipients	Age	18-58	54.27 (17.30)	0.095	39.2977
	BMI	14.997- 44.77	25.3 (3.83)	0.021	25.2586
	FEV1 value	5-120	39.484 (17.30)	0.095	39.2977
	Initial creatinine	0.1-24	0.841 (0.407)	0.002	0.8369
	Total Albumin serum	0.5-24	3.8787 (0.406)	0.002	3.8743
Summary statistics of selected categorical predictors (N=)					
	Variable		n	Percentage (%)	
Lung recipients	Gender	Male	18085	54.86	
		Female	14881	45.14	
	ABO	A	1513	38.31	
		B	4529	11.32	
		AB	1513	3.78	
		O	18648	46.59	
	History of Malignancy	Positive	363	1.10	
		Negative	30061	91.19	
		Unknown	2542	7.71	
	History of previous transplantation	Having	808	2.45	
		Not Having	32158	97.55	
Donor	GENDER	Male	14154	42.94	
		Female	14154	42.94	
		Unknown	9704	29.44	
	ABO	A	279	0.85	
		B	2544	7.72	
		AB	11832	35.89	
		O	13038	39.55	
		Unknown	279	0.85	
	History of Malignancy	Positive	9756	29.59	
		Negative	21300	64.61	
		Unknown	1910	5.79	

Table A-2- Baseline Dataset description from UNOS database

Variables	count	mean	std	min	25%	50%	75%	max
GROUPING	32966	1.9387 25	1.3160 87	0	0	3	3	3
GENDER	32966	0.5485 96	0.4976 4	0	0	1	1	1
ABO	32966	1.6676 58	1.3853 79	0	0	2	3	3
WGT_KG_TCR	32966	72.416 14	17.805 07	3.1	59.422	72.575	84.822	212
HGT_CM_TCR	32966	168.29 24	12.245 25	5	160.02	168.61 97	175.5	210.82
FUNC_STAT_TCR	32966	2063.0 03	278.18 43	1	2040	2060	2070	4100
DIAB	32966	6.7644 54	72.834 96	0	1	1	1	998
MALIG_TCR	32966	0.1652 31	0.5405 16	0	0	0	0	2
TOT_SERUM_ALBUM	32966	3.8786 76	0.4068 92	0.5	3.8723 02	3.8723 02	3.8723 02	9.8
RESIST_INF	32966	0.1060 49	0.3936 11	0	0	0	0	2
HEMO_SYS_TCR	32966	42.636 04	16.843 37	0	32	39	47	180
HEMO_PA_DIA_TCR	32966	17.793 79	8.9353 08	0	12	17	21	110
HEMO_PA_MN_TCR	32966	27.511 46	10.971 3	0	21	26	31	110
HEMO_PCW_TCR	32966	10.695 36	5.3746 86	0	7	10	14	50
HEMO_CO_TCR	32966	5.2616 08	1.4071 82	0.2	4.4	5	5.96	15
CIG_USE	32966	0.5656 13	0.4956 84	0	0	1	1	1
TCR_DUR_ABSTAIN	32966	57.322 61	166.72 62	1	7	7	56	998
LAST_INACT_REASON	32966	5.2636 35	1.5007 13	1	5	5	5	16
INIT_STAT	32966	7043.2 71	178.32 2	7010	7010	7010	7010	7999
INIT_O2	32966	4.0979 41	4.1383 58	0	2	3	4.1564 1	35
END_O2	32966	5.4139 94	5.2037 36	0	2.5	4	6	26.3
INIT_CREAT	32966	0.8412 88	0.4078 41	0.1	0.68	0.8	0.98	24
END_CREAT	32966	0.8471 1	0.4216 2	0.08	0.66	0.8	0.99	25
CALC_LAS_LISTDATE	32966	43.041 33	16.167 66	0	33.676 89	37.545 7	45.019 99	96.224 91
DAYSWAIT_CHRON	32966	213.51 44	367.05 53	0	20	73	236	5120
INIT_AGE	32966	54.273	14.244	0	48	58	64	81

Variables	count	mean	std	min	25%	50%	75%	max
		98	29					
LIFE_SUP_TCR	32966	0.0705 27	0.2560 37	0	0	0	0	1
VENTILATOR_TCR	32966	0.0393 44	0.1944 14	0	0	0	0	1
INIT_LLU_FLG	32966	0.3566 71	0.4790 24	0	0	0	1	1
INIT_RLU_FLG	32966	0.3546 38	0.4784 11	0	0	0	1	1
INIT_BLU_FLG	32966	0.8302 49	0.3754 19	0	1	1	1	1
END_LLU_FLG	32966	0.3630 71	0.4808 92	0	0	0	1	1
END_RLU_FLG	32966	0.3613 42	0.4803 97	0	0	0	1	1
END_BLU_FLG	32966	0.8421 1	0.3646 43	0	1	1	1	1
DR51	32966	19.820 75	38.825 21	0	0	0	0	99
DR51_2	32966	2.9355 09	16.525 55	0	0	0	0	99
DR52	32966	20.401 29	39.140 27	0	0	0	0	99
DR52_2	32966	2.8566 1	16.278 53	0	0	0	0	99
DR53	32966	20.145 18	39.013 53	0	0	0	0	99
DR53_2	32966	2.9363 59	16.518 35	0	0	0	0	99
DQ1	32966	2.2774 98	20.304 64	0	0	0	1	609
DQ2	32966	3.0090 7	29.151 05	0	0	0	0	609
MED_COND_TRR	32966	1.8775 71	1.3539 62	0	0	3	3	3
CREAT_TRR	32966	0.8561 59	0.3541 49	0.1	0.71	0.8643 11	0.9	25
DIAL_AFTER_LIST	32966	0.3119 58	0.4688 32	0	0	0	1	2
FEV1_TRR	32966	39.484 49	17.302 73	5	26	39.941 8	45	120
HEMO_CO_TRR	32966	5.3365 05	1.1499 13	1	4.86	5.3473 03	5.53	15
HEMO_PA_DIA_TRR	32966	17.906 18	7.3117 2	0	14	17.951 62	19	110
HEMO_PA_MN_TRR	32966	27.369 64	8.6623 76	0	23	27.433 37	28	110
HEMO_PCW_TRR	32966	10.680 73	4.3508 63	0	9	10.687 58	12	50
HEMO_SYS_TRR	32966	42.506 21	13.378 96	0	35	42.667 5	42.667 5	180
INFECT_IV_DRUG_TRR	32966	0.4634 47	0.6279 66	0	0	0	1	2

Variables	count	mean	std	min	25%	50%	75%	max
INOTROP_VASO_CO_TRR	32966	0.6707 52	0.5336 64	0	0	1	1	2
INOTROP_VASO_DIA_TRR	32966	0.6995 39	0.5285 4	0	0	1	1	2
INOTROP_VASO_MN_TRR	32966	0.6828 55	0.5329 5	0	0	1	1	2
INOTROP_VASO_PCW_TRR	32966	0.6769 4	0.5297 01	0	0	1	1	2
INOTROP_VASO_SYS_TRR	32966	0.7045 44	0.5271 42	0	0	1	1	2
OTH_LIFE_SUP_TRR	32966	0.0138 02	0.1166 71	0	0	0	0	1
PCO2_TRR	32966	47.768 1	10.660 06	10	42.1	47.648 14	48	120
PRIOR_LUNG_SURG_TRR	32966	0.3923 74	0.5680 63	0	0	0	1	2
STEROID	32966	0.9488 56	0.8256 43	0	0	1	2	2
TBILI	32966	0.5944 13	0.6892 98	0.1	0.4	0.6	0.6113 84	36
TRANSFUSIONS	32966	0.3857	0.5528 85	0	0	0	1	2
VENT_SUPPORT_TRR	32966	0.4269 85	0.6005 65	0	0	0	1	2
VENTILATOR_TRR	32966	0.0396 17	0.1950 6	0	0	0	0	1
INHALED_NO_TRR	32966	0.0054 6	0.0736 92	0	0	0	0	1
PRIOR_CARD_SURG_TYPE_OS TXT_TRR	32966	94.764 45	3.8366 07	0	95	95	95	95
PROSTACYCLIN_TRR	32966	0.0041 56	0.0643 32	0	0	0	0	1
TRACHEOSTOMY_TRR	32966	0.3548 5	0.5263 56	0	0	0	1	2
ECMO_72HOURS	32966	0.7065 76	0.4923 41	0	0	1	1	2
INHALEDNO_72HOURS	32966	0.7239 28	0.5000 37	0	0	1	1	2
INTUBATED_72HOURS	32966	0.8559 42	0.5551 87	0	1	1	1	2
HBV_CORE	32966	1.0421 04	1.3775 25	0	0	0	3	3
HBV_SUR_ANTIGEN	32966	0.9615 06	1.3870 78	0	0	0	3	3
HBV_SURF_TOTAL	32966	2.2479 52	1.2260 29	0	2	3	3	3
CMV_STATUS	32966	1.7322 7	1.1952 81	0	0	2	3	3
HIV_SEROSTATUS	32966	0.9831 34	1.3915 81	0	0	0	3	3
HCV_SEROSTATUS	32966	0.9818 6	1.3788 63	0	0	0	3	3
EBV_SEROSTATUS	32966	2.1486	0.7635	0	2	2	3	3

Variables	count	mean	std	min	25%	50%	75%	max
		08	92					
CRSMATCH_DONE	32966	1.5881 51	0.5852 56	0	1	2	2	2
CPRA	32966	747.29 97	431.05 68	0	86	999	999	999
PREV_TX	32966	0.0245 1	0.1546 29	0	0	0	0	1
PREV_TX_ANY	32966	0.0257 84	0.1584 93	0	0	0	0	1
DA1	32966	9.9479 16	71.844 42	1	2	3	10	6802
DA2	32966	45.965 09	187.60 4	0	24	33	48	6802
DB1	32966	43.607 44	179.94 94	7	13	44	46	5501
DB2	32966	71.462 45	234.55 61	0	44	60	76	8201
DDR1	32966	10.588 12	29.918 02	1	4	11	11	1501
DDR2	32966	23.310 59	55.512 5	0	13	15	24	1602
RA1	32966	20.054 06	130.37 15	0	2	3	23	6801
RA2	32966	80.445 43	330.79 92	0	24	68	92	6802
RB1	32966	80.574 83	311.74 06	0	8	44	92	5703
RB2	32966	142.11 97	480.61 77	0	44	61	162	8201
RDR1	32966	21.514 23	82.279 82	0	4	13	24	1601
RDR2	32966	46.769 25	139.00 17	0	13	17	53	1602
AMIS	32966	35.698 6	46.580 73	0	1	2	99	99
DRMIS	32966	35.776 83	46.563 09	0	1	2	99	99
HLAMIS	32966	37.797 79	45.080 84	0	4	5	99	99
MALIG_TRR	32966	0.6257 05	0.4866 36	0	0	1	1	2
CMV_IGG	32966	2.3041 62	1.0777 62	0	2	3	3	3
CMV_IGM	32966	2.0563 31	1.2855 16	0	1	3	3	3
HIST_COCAINE_DON	32966	0.5201 42	0.6779 7	0	0	0	1	2
AGE_DON	32966	34.465 05	11.732 68	6	26	34	40	76
HBV_CORE_DON	32966	1.9179 15	1.3698 88	0	1	1	4	4
HBV_SUR_ANTIGEN_DON	32966	1.8853 06	1.3676 88	0	1	1	4	4

Variables	count	mean	std	min	25%	50%	75%	max
ABO_DON	32966	2.8215 43	1.3835 85	0	3	3	4	4
ALCOHOL_HEAVY_DON	32966	0.5142 27	0.6755 2	0	0	0	1	2
GENDER_DON	32966	1.0180 79	0.7552 08	0	0	1	2	2
HEP_C_ANTI_DON	32966	1.9044 47	1.3691 03	0	1	1	4	4
ANTIHYPER_DON	32966	0.7437 66	0.7968 65	0	0	1	1	2
BUN_DON	32966	19.683 7	13.757 26	0.4	12	20.214 87	20.214 87	245
CREAT_DON	32966	1.4041 16	1.2691 58	0.07	0.82	1.3	1.4200 9	37
PT_DIURETICS_DON	32966	1.2838 68	0.7875 79	0	1	1	2	2
PT_STEROIDS_DON	32966	1.3480 25	0.7613 86	0	1	2	2	2
PT_T3_DON	32966	0.3065 28	0.4690 17	0	0	0	1	2
PT_T4_DON	32966	1.2296 61	0.8051 9	0	1	1	2	2
PT_OTH2_OSTXT_DON	32966	5972.5 15	2591.6 37	0	4203.2 5	7694	7694	9269
PULM_INF_DON	32966	1.2977 92	1.1749 39	0	0	1	3	3
SGOT_DON	32966	96.904 49	306.02 49	0.3	31	68	97.527 13	20000
SGPT_DON	32966	97.767 02	365.39 33	0.4	25	56	97	44117
TBILI_DON	32966	0.9881 08	1.0570 65	0	0.6	0.9877 6	0.9877 6	59
URINE_INF_DON	32966	0.9634 78	1.3424 44	0	0	0	3	3
VASODIL_DON	32966	0.5357 64	0.6966 22	0	0	0	1	2
VDRL_DON	32966	2.1988 11	1.8183 14	0	1	1	5	5
CLIN_INFECT_DON	32966	1.2380 03	0.7994 13	0	1	1	2	2
HIST_CIG_DON	32966	0.4278 04	0.6079 43	0	0	0	1	2
HIST_HYPERTENS_DON	32966	0.6235 82	0.7483 24	0	0	0	1	2
HIST_CANCER_DON	32966	0.3236 97	0.4948 65	0	0	0	1	2
DIABETES_DON	32966	0.3953 47	0.5802 36	0	0	0	1	2
HIST_OTH_DRUG_DON	32966	0.8759 02	0.8238 69	0	0	1	2	2
CMV_DON	32966	2.7614 21	1.1451 94	0	1	3	4	4
DDAVP_DON	32966	0.5305	0.6931	0	0	0	1	2

Variables	count	mean	std	min	25%	50%	75%	max
		47	6					
HEPARIN_DON	32966	1.6638 66	0.5103	0	1	2	2	2
ARGININE_DON	32966	1.2218 65	0.8072 42	0	1	1	2	2
WGT_KG_DON_CALC	32966	77.364 88	14.876 9	23.5	70	77.353 48	81.6	189
BMI_DON_CALC	32966	26.190 33	4.5802 42	10.588 66	23.667 83	26.221 13	27.173 1	66.035 64
HBV_NAT_DON	32966	2.0281 81	1.4016 18	0	0	3	3	3
ABO_MAT	32966	1.6387 79	0.9052 58	1	1	1	3	3
DIAL_PRIOR_TX	32966	0.6500 64	0.4834 63	0	0	1	1	2
ISCHTIME	32966	5.2922 57	1.5282 11	0.042	4.5664 06	5.3519 05	5.6328 13	25
O2_REQ_CALC	32966	5.3750 88	4.2890 68	0	3	5.4579 95	5.4579 95	26.3
PRIOR_CARD_SURG_TRR	32966	0.3284 29	0.4908 72	0	0	0	1	2
MALIG	32966	0.4118 18	0.5984 24	0	0	0	1	2
HGT_CM_CALC	32966	169.99 18	8.2559 88	122	165.1	170.03 08	175	210.82
BMI_CALC	32966	25.299 95	3.8325 76	14.997 85	23.382 51	25.392 36	27.331 17	44.777 87
DISTANCE	32966	211.25 96	210.94 01	0	67	215	221	4137
VENT_SUPPORT_AFTER_LIST	32966	0.4269 85	0.6005 65	0	0	0	1	2
PROTEIN_URINE	32966	0.8621 31	0.8219 72	0	0	1	2	2
CARDARREST_NEURO	32966	0.3973 79	0.5680 28	0	0	0	1	2
PO2	32966	380.25 4	121.57 52	3.2	368	382.31 52	457	754
HIST_MI	32966	0.3272 46	0.4933 55	0	0	0	1	2
LV_EJECT	32966	58.086 24	9.4403 97	1	58	58.118 68	61	99
CORONARY_ANGIO	32966	2.0919 74	1.3279 38	1	1	1	4	4
BIOPSY_DGN	32966	3.0819 33	1.9978 58	1	1	5	5	5
HBSAB_DON	32966	3.8937 39	1.4628 7	0	3	3	6	6
EBV_IGG_CAD_DON	32966	4.8062 85	1.5472 43	0	4	4	7	7
EBV_IGM_CAD_DON	32966	2.7079 72	2.2522 66	0	1	1	6	6
CDC_RISK_HIV_DON	32966	0.5345 81	0.6988 12	0	0	0	1	2

Variables	count	mean	std	min	25%	50%	75%	max
INOTROP_SUPPORT_DON	32966	0.982254	0.83639	0	0	1	2	2
TRANSFUS_TERM_DON	32966	294.9172	454.811	0	0	1	998	998
PO2_FIO2_DON	32966	86.1261	21.28058	1	86	100	100	100
PCO2_DON	32966	37.02991	5.584925	10	34.7	37	39	110
BRONCHO_LT_DON	32966	321.9415	464.8433	1	2	2	998	998
BRONCHO_RT_DON	32966	331.7915	468.465	1	2	2	998	998
CHEST_XRAY_DON	32966	300.3643	455.5274	1	2	5	999	999
PH_DON	32966	7.415315	0.083511	5	7.4	7.415555	7.44	8
HEMATOCRIT_DON	32966	29.21583	4.461127	2.5	27	29.14996	30.6	71