

Table S1. Clinical and immunologic factors associated with primary graft failure (PGD) grade 3 onset after lung transplantation (univariate and multivariate analysis).

Variable Univariate analysis	No PGD		PGD		P value
	N=186	%	N=33	%	
pf-DSA status and desensitization (Groups of patients)					0.003
High pf-DSA desensitized	27	14,52%	12	36,36%	
No pf-DSA	121	65,05%	12	36,36%	
Low pf-DSA	38	20,43%	9	27,27%	
Initial disease					0.007
Emphysema/COPD	45	24,46%	1	3,13%	
Fibrosis	22	11,96%	9	28,13%	0.029
Cystic fibrosis	94	51,09%	16	50,00%	
Other	17	9,24%	6	18,75%	
reTX	6	3,26%	0	0,00%	
Recipient sex					0.527
female	96	51,61%	19	57,58%	
male	90	48,39%	14	42,42%	
CMV mismatch					0.068
No	143	76,88%	30	90,91%	
Yes	43	23,12%	3	9,09%	
Induction therapy					0.743
No induction	42	22,58%	6	18,75%	
Thymoglobuline	53	28,49%	8	25,00%	
IL-2 antagoniste	91	48,92%	18	56,25%	
Donor sex					0.401
female	88	47,31%	13	39,39%	
male	98	52,69%	20	60,61%	
Donor smoking status					0.448
No	109	58,60%	17	51,52%	
Yes	77	41,40%	16	48,48%	
Ex-vivo procedure					0.007
No	151	81,18%	33	100,00%	
Yes	35	18,82%	0	0,00%	
Peri-operative ECMO					<0.001
No	115	61,83%	8	24,24%	
Yes	71	38,17%	25	75,76%	
Recipient age	40.7	[29.0 – 55.5]	42.4	[30.3 – 57.3]	0.944
Donor age	50	[38 – 61]	53	[43 – 59]	0.568
P/F donor	357	[309 – 429]	366	[292 – 424]	0.742
Ischemic time	410	[349 – 486]	445	[350 – 508]	0.730
No of HLA-A, B, DR, DQ mismatches	6	[5 – 7]	6	[5 – 7]	0.587

Variable Multivariate Analysis	Odds Ratio (95% CI) for PGD grade 3	P value
ECMO	3.05 [1.17 – 7.98]	0.023
pf-DSA status		
No pf-DSA	1.00	
High pf-DSA (desensitized)	3.20 [2.51 – 10.42]	0.001
Low pf-DSA	1.87 [0.64 – 5.42]	0.252

PGD, primary graft dysfunction; COPD, chronic obstructive pulmonary disease; ReTX, retransplantation; CMV, cytomegalovirus; ECMO, extra-corporeal membrane oxygenation; HLA MM; Human leukocyte antigen mismatch.; DSA, donor-specific antibody; pf-DSA, preformed DSA; High pf-DSA, Patients with high pf-DSA who underwent perioperative desensitization protocol. Low pf-DSA, patients with low pf-DSA who did not undergo perioperative desensitization protocol.