

Table S1 Patient characteristics and intra- and post-operative outcomes of lung transplant recipients by age and type of lung transplantation

Variables	Single lung transplant			Bilateral lung transplant		
	Elderly group (n=40)	Young group (n=84)	P value	Elderly group (n=14)	Young group (n=199)	P value
Recipient factors						
Age (years)	72.0±1.7	61.9±7.2	<0.001	71.2±1.2	54.0±12.5	<0.001
Female	15 (37.5)	32 (38.1)	>0.99	4 (28.6)	88 (44.2)	0.28
Smoking history	24 (60.0)	47 (56.0)	0.70	8 (57.1)	82 (41.2)	0.27
Hypertension	27 (67.5)	57 (67.9)	>0.99	10 (68.5)	84 (49.8)	0.05
Pre-transplant ECMO use	0	1 (1.2)	>0.99	1 (7.1)	35 (17.6)	0.47
Lung Allocation Score	46.3±12.0	48.6±14.1	0.43	46.7±9.3	61.1±21.0	0.07
Days on the waiting list	7 [5–14]	19 [7–43]	<0.001	9 [5–22]	15 [6–44]	0.35
Etiology of lung failure						
Interstitial lung disease	28 (70.0)	43 (51.2)	0.05	5 (35.7)	53 (26.6)	0.54
COVID-19	2 (5.0)	1 (1.2)	0.24	1 (7.1)	44 (22.1)	0.31
Laboratory values						
Hemoglobin (g/dL)	12.5±2.6	11.9±2.1	0.20	12.3±2.1	11.2±2.8	0.15
Creatinine (mg/dL)	0.84±0.23	0.80±0.20	0.34	0.90±0.22	0.77±0.27	0.07
Intra-operative outcomes						
Operative time (hours)	4.3 [3.3–5.3]	4.6 [3.3–5.4]	0.80	6.2 [5.3–7.2]	7.4 [5.8–8.3]	0.06
Intra-op blood transfusion; pRBC (units)	0 [0–0]	0 [0–1]	0.39	1 [0–2]	2 [0–4]	0.10
Intra-op blood transfusion; FFP (units)	0 [0–0]	0 [0–0]	0.94	0 [0–0]	0 [0–2]	0.35
Intra-op blood transfusion; Plt (units)	0 [0–0]	0 [0–0]	0.81	0 [0–0]	0 [0–1]	0.41
Ischemic time (hours)	4.1 [3.2–4.8]	3.9 [3.3–4.3]	0.28	5.6 [4.9–6.0]	5.5 [5.0–6.1]	0.96
Veno-arterial ECMO use	12 (30.0)	22 (26.2)	0.67	12 (44.4)	166 (66.4)	>0.99
Veno-arterial ECMO time (hours)	0 [0–0.2]	0 [0–1.0]	0.89	2.8 [2.3–3.3]	2.9 [2.3–3.4]	0.72
Post-operative outcomes						
CLAD	3 (11.5)	18 (27.7)	0.17	0	34 (22.5)	0.12
ICU stay (days)	5 [4–9]	6 [4–10]	0.60	9 [5–19]	9 [6–20]	0.51
Post-transplant ventilator (days)	1 [1–2]	2 [1–2]	0.31	2 [1–4]	2 [1–5]	0.35
Hospital stay (days)	12 [10–30]	13 [11–24]	0.68	25 [18–33]	18 [13–34]	0.21

Continuous data are shown as means ± standard deviation for age and laboratory data, and as medians and interquartile ranges [Q1–Q3] for hours and days. Categorical data are presented as counts (percentages). ALT, Alanine aminotransferase; AST, aspartate aminotransferase; BUN, blood urea nitrogen; CLAD, chronic lung allograft dysfunction; COPD, chronic obstructive pulmonary disease; COVID-19, coronavirus disease 2019; DSA, donor specific antigen; ECMO, extracorporeal membrane oxygenation; ICU, intensive care unit; INR, international normalized ratio; PRA, panel reactive antibodies; WBC, white blood cell.

Table S2 Youden Index and sensitivity/specificity of serum creatinine levels at the elderly group

Creatinine (mg/dL)	Youden Index	Sensitivity	Specificity
0.45	0.000	1.000	0.000
0.52	0.026	1.000	0.026
0.53	0.077	1.000	0.077
0.56	0.103	1.000	0.103
0.61	0.036	0.933	0.103
0.62	−0.005	0.867	0.128
0.64	−0.072	0.800	0.128
0.66	−0.046	0.800	0.154
0.67	−0.021	0.800	0.179
0.69	−0.088	0.733	0.179
0.70	−0.036	0.733	0.231
0.71	−0.011	0.733	0.256
0.72	0.015	0.733	0.282
0.75	0.041	0.733	0.308
0.78	0.066	0.733	0.333
0.79	0.092	0.733	0.359
0.80	0.195	0.733	0.462
0.83	0.220	0.733	0.487
0.84	0.246	0.733	0.513
0.85	0.271	0.733	0.538
0.86	0.205	0.667	0.538
0.87	0.164	0.600	0.564
0.88	0.190	0.600	0.590
0.89	0.148	0.533	0.615
0.90	0.200	0.533	0.667
0.92	0.159	0.467	0.692
0.93	0.118	0.400	0.718
0.94	0.195	0.400	0.795
0.95	0.221	0.400	0.821
0.96	0.246	0.400	0.846
1.03	0.205	0.333	0.872
1.05	0.139	0.267	0.872
1.07	0.097	0.200	0.897
1.08	0.030	0.133	0.897
1.12	0.056	0.133	0.923
1.14	0.082	0.133	0.949
1.17	0.107	0.133	0.974
1.29	0.133	0.133	1.000
1.82	0.067	0.067	1.000