

Table S1 Postoperative complications classified as Clavien-Dindo grades III to V (N=28)

Complication severity [†]	Daytime (n=16)	Nighttime (n=12)
Grade IIIa	4	0
Grade IIIb	5	8
Grade IVa	4	1
Grade IVb	1	2
Grade IV	2	1

[†], Clavien-Dindo Classification was used for complication severity.

Table S2 Postoperative complication events for the daytime and nighttime group

Complication events	Daytime	Nighttime
Exploration for postoperative bleeding	4	5
Tracheostomy for prolong intubation	3	5
Veno-venous ECMO for PGD	1	2
Debridement for wound infection	1	2
Amputation for ischemic limb	2	0
Debridement for inguinal seroma	1	2
Endovascular stenting for pulmonary artery kinking	1	0
Botox injection for delayed gastric emptying	1	0
Hyaluronic acid injection for vocal palsy	1	0
Repair for inguinal hernia	1	0
TURBT for recurrent bladder cancer	1	0
Reaccumulation of pleural effusion	4	1
Pneumothorax after chest tube removal	1	0
Empyema	1	1
Ischemic colon perforation	0	1
Right ventricular failure	0	1
Renal failure	0	1
Brain stem failure	0	1

ECMO, extracorporeal membrane oxygenation; PGD, primary graft dysfunction; TURBT, transurethral resection of bladder tumor.

Table S3 Standardized mean differences of surgical metrics between daytime and nighttime lung transplantation groups

Variable	Daytime (n=43)	Nighttime (n=27)	P value	Cohen's d/phi
Total operation time (min)	520 [439–599]	520 [450–588]	0.61	0.17
First lung ischemic time (min)	330 [276–430]	390 [304–422]	0.36	0.09
Second lung ischemic time (min)	452 [383–535]	505 [412–546]	0.27	0.02
Total anastomotic time (min)	109 [103–121]	119 [105–132]	0.04	0.21
Extracorporeal life support	25 [58]	12 [44]	0.31	0.87
ECLS duration (min)	243 [199–357]	307 [230–536]	0.15	0.06
Blood loss (mL)	850 [500–2,100]	850 [500–2,200]	0.62	0.08
Blood transfusion, LPR (U)	4 [2–10]	6 [4–10]	0.75	0.06

Categorical variables are presented as counts [percentages], whereas continuous variables are summarized using medians accompanied by interquartile ranges enclosed in square brackets. Cohen's d is interpreted as: 0.2 = small effect, 0.5 = medium effect, and ≥ 0.8 = large effect. ECLS, extracorporeal life support; LPR, leukocyte-poor packed red blood cells.

Table S4 Standardized mean differences of early outcomes between daytime and nighttime lung transplantation groups

Variable	Daytime (n=43)	Nighttime (n=27)	P value	Cohen's d/phi
Ventilation time (hours)	60 [40–122]	56 [34–102]	0.98	0.16
Grade 3 PGD				
Within 6 h	22 [51]	11 [41]	0.27	0.18
At 24 h	9 [21]	8 [30]	0.29	0.80
At 48 h	5 [12]	5 [19]	0.32	0.42
At 72 h	6 [14]	3 [11]	0.52	0.70
Clavien-Dindo grade > III	16 [37]	12 [44]	0.31	0.92
ICU stay (days)	9 [7–12]	8 [7–13]	0.61	0.18
Hospital stay (days)	41 [32–84]	39 [31–71]	0.76	0.29
Overall survival				
1-year	39 [91]	24 [89]	0.81	0.19
3-year	31 [79]	24 [89]	0.12	0.04
FEV ₁ >80% within 1 year	20 [47]	11 [41]	0.64	0.98

Categorical variables are presented as counts [percentages], whereas continuous variables are summarized using medians accompanied by interquartile ranges enclosed in square brackets. Cohen's d is interpreted as: 0.2 = small effect, 0.5 = medium effect, and ≥ 0.8 = large effect. FEV₁, forced expiratory volume in the first second; ICU, intensive care unit; PGD, primary graft dysfunction.