Supplementary Appendix 1 Evaluation of logistic regression model performa nce.

To assess the usefulness and goodness-of-fit of the multivariate logistic regressi on model, Hosmer–Lemeshow chi-squared statistics and Nagelkerke R^2 were ca lculated. The probability for each case was then computed, and the area under the receiver operating characteristic curve (AUROC) was used to evaluate the discriminative power of the multivariate logistic regression models.

For the whole group, the final model demonstrated a Hosmer-Lemeshow chi-s quared statistic of 2.851 (P = 0.943), Nagelkerke R^2 of 0.340, and an AUROC o f 0.805 (95% confidence interval: 0.737-0.873; P < 0.001). In the subgroup analy sis, the final model showed a Hosmer-Lemeshow chi-squared statistic of 5.804 (P = 0.669), Nagelkerke R^2 of 0.404, and an AUROC of 0.839 (95% confidence interval: 0.731-0.947; P < 0.001).

Variables	Delayed extubation (<i>n</i> = 66)	Early extubation (<i>n</i> = 94)	P value
Ventilator support time (HR)	20.8 (16.0, 73.5)	-	-
Reopration, n (%)	0 (0.0)	2 (2.2)	0.511 ^b
Reintubation, n (%)	4 (6.1)	6 (6.5)	> 0.999 ^b
ICU stay (days)	7.5 (6.0, 13.3)	6.0 (4.0, 6.0)	< 0.001 ^a
Hospital stay (days)	26.0 (22.0, 42.3)	23.0 (21.0, 29.0)	0.026 ^a

Supplementary Table 1 Comparison of postoperative between the nonextubat ed and early extubation groups

^a*P*: Mann–Whitney U test; ^b*P*: Fisher's exact test.

HR: Hazard ratio; ICU: Intensive care unit.