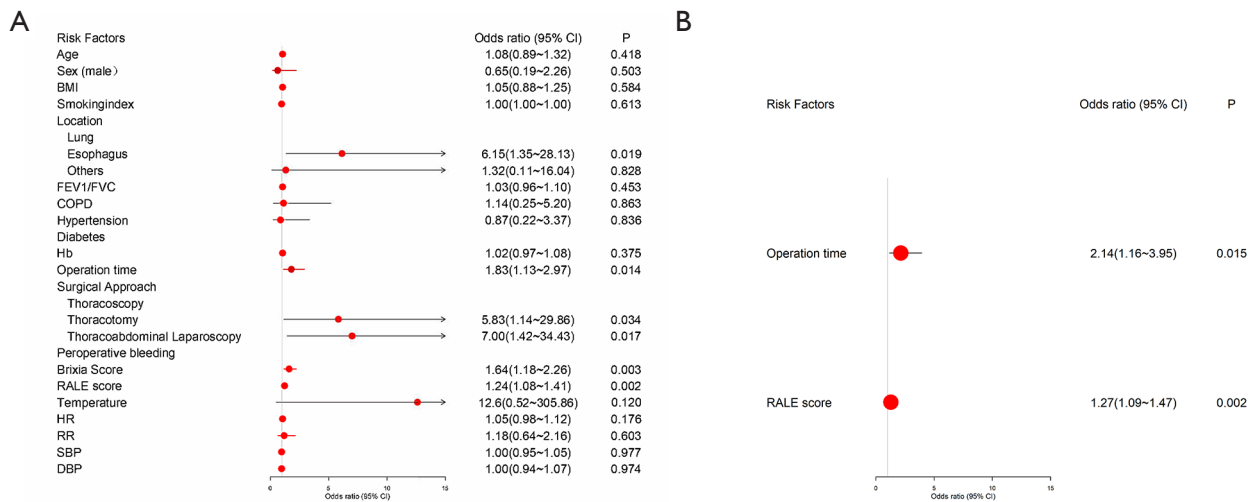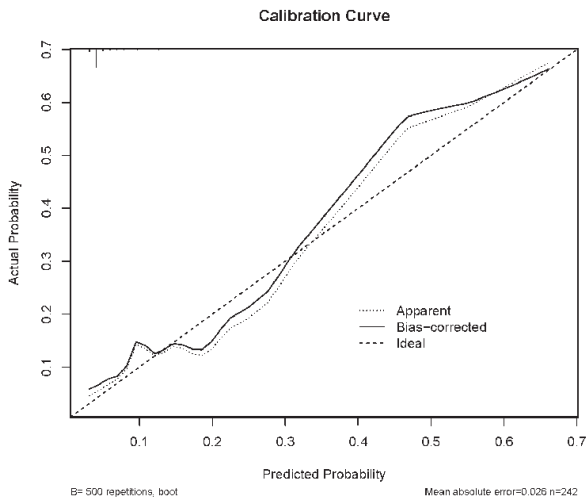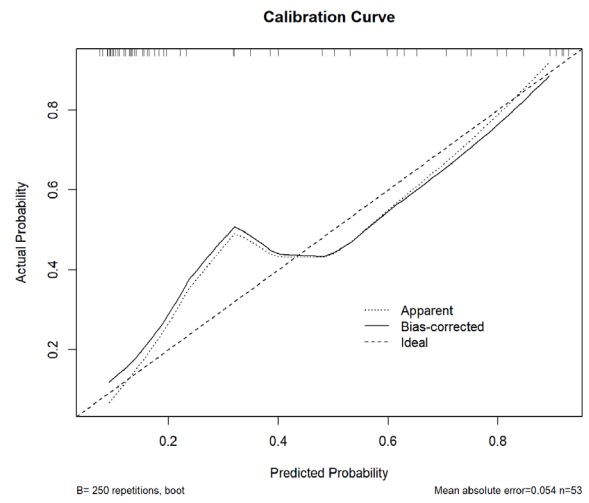**Figure S1** The forest plots for visualizing univariate and multivariate logistic regression analyses before matching, showcasing point estimates and 95% confidence intervals for each predictor. (A) Univariate logistic regression forest plot; (B) multivariate logistic regression forest plot. BMI, body mass index; FEV_1, forced expiratory volume in 1 second; FVC, forced vital capacity; COPD, chronic obstructive pulmonary disease; Hb, hemoglobin; RALE, radiographic assessment of lung edema; HR, heart rate; RR, respiratory rate; SBP, systolic blood pressure; DBP, diastolic blood pressure.
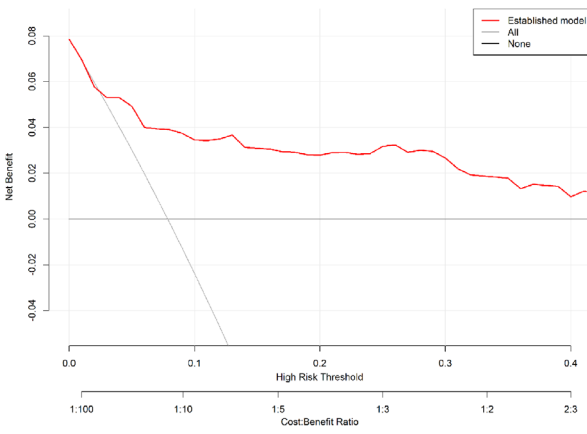

Figure S2 Forest plots for visualizing univariate and multivariate logistic regression analyses after matching, showcasing point estimates and 95% confidence intervals for each predictor. (A) Univariate logistic regression forest plot; (B) multivariate logistic regression forest plot. BMI, body mass index; FEV_1, forced expiratory volume in 1 second; FVC, forced vital capacity; COPD, chronic obstructive pulmonary disease; Hb, hemoglobin; RALE, radiographic assessment of lung edema; HR, heart rate; RR, respiratory rate; SBP, systolic blood pressure; DBP, diastolic blood pressure.
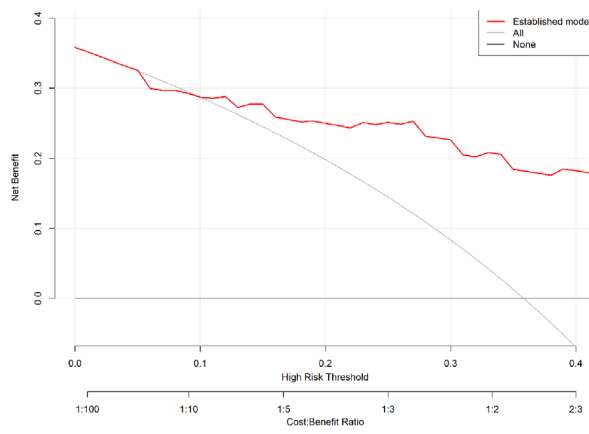
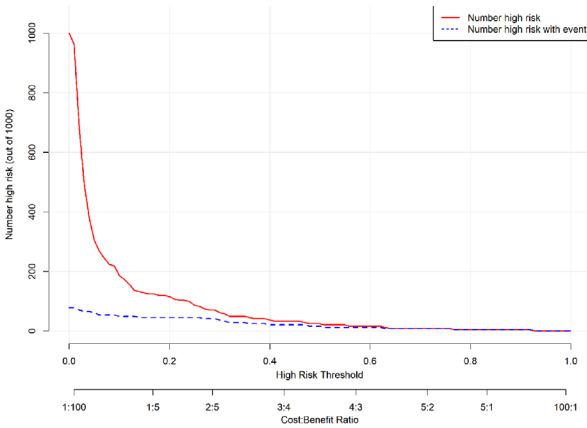**Figure S3** Model calibration and discrimination before matching.

Figure S6 Model calibration and discrimination after matching.
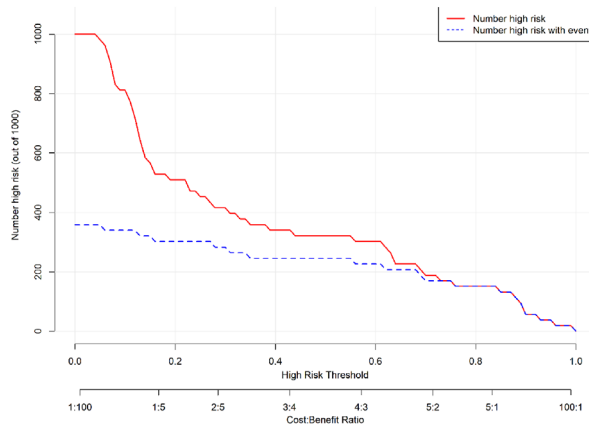

Figure S4 Decision curve analysis curve before matching.

Figure S7 Decision curve analysis curve after matching.

Figure S5 Clinical impact curve before matching.

Figure S8 Clinical impact curve after matching.