

Supplemental Table 2. Multivariable Logistic Regression Analysis Including All Covariates In 10-17 Year Old Age Cohort.

	Hypoxemia OR (95% CI), P-value	Severe Hypoxemia OR (95% CI), P-value	Hypercarbia OR (95% CI), P-value
Age (years)	0.90 (0.81, 0.99), p=0.052	0.92 (0.81, 1.04), p=0.175	0.78 (0.68, 0.89), p<0.001
Male	0.79 (0.48, 1.29), p=0.339	0.57 (0.288, 1.06), p=0.075	1.23 (0.63, 2.42), p=0.546
ASA 3 or 4	1.20 (0.68, 2.13), p=0.534	1.49 (0.71, 3.14), p=0.297	0.71 (0.34, 1.49), p=0.366
Extremes of weight*	1.93 (1.14, 3.27), p=0.014	2.70 (1.44, 5.1), p=0.002	1.07 (0.48, 2.37), p=0.871
Type of Surgery			
1 Intrapulmonary	**	**	**
2 Mediastinal	2.49 (1.02, 6.1), p=0.045	2.92 (0.84, 10.1), p=0.090	1.28 (0.40, 4.1), p=0.675
3 Pleurodesis and/or Decortication	2.57(0.95, 6.9), p=0.062	2.96 (0.76, 11.5), p=0.116	1.92 (0.54, 6.8) , p=0.311
4 Other	2.05(0.61, 6.9), p=0.243	1.48 (0.24, 9.0), p=0.670	1.67 (0.31, 9.0), p=0.548
5 Surgery for Pneumothorax	2.26 (0.87, 5.9), p=0.096	3.79(1.06, 13.6), p=0.041	2.45 (0.76,7.9), p=0.133
Right-sided surgery	2.31 (1.38, 3.87), p=0.001	3.14 (1.55, 6.3), p=0.001	1.15 (0.60, 2.21), p=0.666
Bronchial blocker	0.63 (0.144, 2.74), p=0.536	0.87 (0.091, 8.8), p=0.902	0.99 (0.098, 9.7), p=0.995
Video-assisted thoroscopic surgery	1.55 (0.88,2.73), p=0.131	1.35 (0.67, 2.74), p=0.397	1.34 (0.62, 2.91), p=0.455
Room air SpO₂ <98%,	2.86 (1.74, 4.7), p<0.001	2.93 (1.56, 5.48), p=0.001	0.98 (0.46, 2.09), p=0.967
Low tidal volume ventilation (TV ≤ 6 mL/kg + ≥ 4 cm H ₂ O PEEP)	1.16 (0.70, 1.92), p=0.561	1.47 (0.78, 2.74), p=0.232	1.28 (0.66, 2.49), p=0.466

One-lung ventilation duration (hr)	1.04 (0.88, 1.21), p=0.664	0.89 (0.71, 1.13), p=0.334	1.13 (0.93, 1.37), p=0.218
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*Extremes of weight = patient weight >95% or <5% for age according to the Centers for Disease Control and Prevention (Atlanta, Georgia) growth chart.

**Reference Category.

ASA, American Society of Anesthesiologists Physical Status; SpO₂, oxygen saturation measured by pulse oximetry; TV, Tidal Volume; PEEP, Positive End Expiratory Pressure.