

Supplemental Table 1. Multivariable Logistic Regression Analysis Including All Covariates In 4-9 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)	0.72 (0.52,0.99), p=0.056	0.58 (0.354, 0.98), p=0.043	0.91 (0.69, 1.19), p=0.487
Male	2.04(0.75, 5.58), p=0.163	2.61(0.63, 10.9), p=0.188	2.27 (0.87, 5.94), p=0.094
ASA 3 or 4	0.69 (0.245, 2.05), p=0.508	0.76 (0.16, 3.55), p=0.730	0.63 (0.212, 1.89), p=0.415
Extremes of weight*	1.55 (0.51, 4.75), p=0.443	2.81 (0.65, 12.1), p=0.165	0.66 (0.186, 2.29), p=0.510
Type of Surgery			
1 Intrapulmonary	**	**	**
2 Mediastinal	0.43 (0.14,1.36), p=0.15	0.66 (0.14,3.1), p=0.593	1.76 (0.45,6.95), p=0.421
3 Pleurodesis and/or Decortication	0.47 (0.112, 2.02), p=0.311	0.302 (0.021, 3.61), p=0.34	0.84 (0.169, 4.17), p=0.829
4 Other	0.226 (0.017, 2.42), p=0.206	0.208 (0.019, 2.331), p=0.204	0.71 (0.443, 3.862), p=0.829
Right-sided surgery	2.53 (0.91,7.1), p=0.076	3.26 (0.74, 14.30), p=0.117	0.54(0.226,1.36), p=0.191
Bronchial blocker	0.49 (0.162, 1.52), p=0.215	0.246 (0.058, 1.19), p=0.080	1.53 (0.44, 5.3), p=0.500
Video-assisted thoroscopic surgery	0.48 (0.164,1.48), p=0.24	1.61 (0.372, 7.01), p=0.524	1.26 (0.45, 3.47), p=0.659
Room air SpO₂ <98%,	3.87 (1.42, 10.59) , p=0.008	10.68 (2.40,47.6) , p=0.002	1.08 (0.381, 3.09), p=0.890

Low tidal volume ventilation (TV ≤ 6 mL/kg + ≥ 4 cm H ₂ O PEEP)	0.488 (0.121, 2.02), p=0.329	0.84 (0.136, 5.36) , p=0.857	2.98 (1.02, 8.73), p=0.047
One-lung ventilation duration (hr)	1.10 (0.87,1.41), p=0.422	1.16 (0.83, 1.63), p=0.382	1.11 (0.88, 1.4), p=0.365

*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.