

**Table 1: Characteristics of the study population**

	Pneumothorax n=3665 (%)	NO Pneumothorax n=10621371 (%)	P-value
Male sex	62.2	51.4	<0.001
Race			<0.001
White	60.5	54	
Black	9.9	13.2	
Hispanic	17.7	20.4	
Other	12	12.4	
Mechanical ventilation			<0.001
None	35.3	96.1	
None-invasive	5.9	1.3	
Invasive	58.8	2.7	
Respiratory distress syndrome	34	2.4	<0.001
Sepsis	28.3	2.4	<0.001
Persistent pulmonary hypertension	9.7	0.3	<0.001
Intraventricular hemorrhage	8.3	0.4	<0.001
Meconium aspiration	4.5	0.4	<0.001
Necrotizing enterocolitis	2.4	0.1	<0.001
Birth asphyxia	1	0.1	<0.001
Chorioamnionitis	0.6	0.2	<0.001

**Table 2: The prevalence and association of pneumothorax with mortality at different gestational ages**

	Prevalence of PTX (%)	PTX Mortality (%)	No PTX Mortality (%)	P-value	Adjusted OR (95% CI)	P-value
≤24 weeks	0.67	31.3	61.2	<0.001	0.644 (0.447–0.927)	0.018
25–28 weeks	0.5	21.3	8.3	<0.001	1.224 (1.153–1.299)	<0.001
29–32 weeks	0.15	10	1.5	<0.001	8.546 (6.56–11.128)	<0.001
33–36 weeks	0.09	2.5	0.3	<0.001	5.129 (4.093–6.427)	<0.001
≥37 weeks	0.02	7	0.1	<0.001	2.74 (2.244–3.345)	<0.001
Total	0.034	8.8	0.4	<0.001	2.323 (2.023–2.669)	<0.001

Adjustments were made for race, gender, birth asphyxia, meconium aspiration, RDS, chorioamnionitis, necrotizing enterocolitis, sepsis, persistent pulmonary hypertension, intracranial hemorrhage, and mechanical ventilation.

**Table 3: Risk of all-cause mortality in infants diagnosed with pneumothorax**

	Adjusted OR for Mortality (95% CI)	P-value
Race		
White	Reference	
Black	1.879 (1.280–2.757)	0.001
Hispanic	0.965 (0.652–1.429)	0.859
Other	1.573 (1.070–2.313)	0.021
Male sex	0.520 (0.398–0.679)	<0.001
Birth asphyxia	3.976 (1.469–10.763)	0.007
Meconium aspiration syndrome	0.317 (0.137–0.736)	0.008
Respiratory distress syndrome	1.044 (0.778–1.402)	0.773
Chorioamnionitis	3.175 (0.964–10.458)	0.058
Necrotizing enterocolitis	1.282 (0.666–2.468)	0.457
Sepsis	1.689 (1.280–2.229)	<0.001
PPHN	2.799 (1.987–3.943)	<0.001
Intraventricular hemorrhage	1.445 (0.982–2.125)	0.061
Mechanical Ventilation		
None	Reference	
Non-invasive	0.175 (0.029–1.046)	0.056
Invasive	2.652 (1.816–3.872)	<0.001

**Table 4: Length of stay according to gestational age**

	Pneumothorax	No Pneumothorax	P-value
≤24 weeks	106 (39–136)	77 (1–111)	<0.001
25–28 weeks	80 (53–103)	62 (28–82)	<0.001
29–32 weeks	38 (22–53)	28 (17–40)	<0.001
33–36 weeks	11 (6–20)	4 (2–11)	<0.001
≥37 weeks	9 (3–22)	2 (2–3)	<0.001
Total	12 (4–36)	2 (2–3)	<0.001

Analysis included only infants who survived through hospital discharge. Data are presented in median (interquartile range) days.