

Table 1: Association of meconium aspiration syndrome (MAS) and clinical variables among term neonates with meconium-stained amniotic fluid.

	No MAS (N = 2078)	MAS (N = 118)	P-value
Maternal Characteristics			
Maternal Age (years)	27 (22, 32)	27 (22, 34)	0.42
Obstetric gestational age (weeks)	39 (38, 40)	40 (39, 41)	<0.01
Gravidity	2 (1, 3)	2 (1, 4)	0.51
Parity	1 (0, 2)	1 (0, 2)	0.57
Race/Ethnicity			0.51
- White non-Hispanic	123 (6)	6 (5)	
- Black	422 (20)	30 (25)	
- White Hispanic	1471 (71)	80 (68)	
- Other	62 (3)	2 (2)	
Pregnancy Complications			
- Pre-eclampsia	8 (<1)	0 (0)	1.00
- Pregnancy induced hypertension	204 (10)	10 (9)	0.63
- Diabetes Mellitus	231 (11)	8 (7)	0.14
- Infection (other than chorioamnionitis)	423 (20)	25 (21)	0.83
Amniotic Fluid Status			
- Oligohydramnios	270 (13)	16 (14)	0.86
- Polyhydramnios	35 (2)	1 (1)	0.72
Substance Abuse	103 (5)	7 (6)	0.64
Meconium in Amniotic Fluid			
- Thin	773 (37)	10 (9)	<0.01
- Thick	117 (6)	20 (17)	<0.01
- Terminal	15 (1)	1 (1)	0.59
Clinical Chorioamnionitis	498 (24)	21 (18)	0.13
Non-reassuring fetal heart pattern (NRFHP)	825 (40)	66 (56)	<0.01
Clinical Chorioamnionitis + NRFHP	311 (15)	13 (11)	0.24
Delivery			<0.01
- Cesarean delivery	1010 (49)	79 (67)	
- Spontaneous Vaginal delivery	973 (47)	38 (32)	
- Forceps assisted delivery	95 (5)	1 (1)	
Infant Characteristics			
Birth Weight (g)	3410 (3020, 3805)	3428 (3108, 3711)	0.62

APGAR Score			
- 1-min APGAR score	8 (4, 8)	4 (2, 7)	<0.01
- 5- min APGAR score	9 (8, 9)	6 (4, 8)	<0.01
- 10-min APGAR score	8 (7, 9)	7 (6, 8)	<0.01
Umbilical Arterial Gases			
- Cord blood pH	7.20 (7.13, 7.25)	7.13 (6.99, 7.25)	0.17
- Cord blood BE	-8.0 (-12.0, -6.0)	-9.0 (-19.3, -6.0)	0.20
Delivery room resuscitation			
- CPAP	664 (32)	67 (57)	<0.01
- PPV	583 (28)	71 (60)	<0.01
- Intubation	0	46 (39)	<0.01
- CPR	0	4 (3)	<0.01

Data are presented as Median (25th, 75th centile). Numbers in parenthesis are percentages. Categorical data is analyzed using Chi-square or Fischer's exact test. Continuous data is analyzed using a rank-sum test. MAS-meconium aspiration syndrome; BE - base excess; CPAP - continuous positive airway pressure; PPV - positive pressure ventilation; CPR - cardiopulmonary resuscitation