Table 1: Demographic and baseline characteristics of randomized participants

Demographic Variables	High CPAP [N = 48]	NIPPV [N = 52]
Gestational age (weeks) *Mean (SD)*	25.6 (1.3)	25.7 (1.6)
Birthweight (g) *Mean (SD)*	808 (215)	814 (205)
Female sex *N (%)*	22/48 (46%)	30/52 (58%)
SGA <10th %ile *N (%)*	5/48 (10%)	5/52 (10%)
Antenatal Steroids (2 doses) *N (%)*	22/48 (46%)	24/52 (46%)
Chorioamnionitis *N (%)*	19/46 (42%)	20/51 (39%)
Pregnancy induced hypertension *N (%)*	5/47 (11%)	7/52 (13%)
Delivery Mode (C/S) *N (%)*	33/48 (69%)	35/52 (67%)
Outborn *N (%)*	8/48 (17%)	7/52 (13%)
Number of Surfactant doses *Mean (SD)*	1.5 (0.7)	1.8 (0.9)
***Early* onset sepsis/meningitis** *N (%)*	3/46 (7%)	3/50 (6%)
Chronological age at randomization (days) *Mean (SD)*	22 (16)	20 (17)
Postmenstrual age at randomization (weeks) *Mean (SD)*	28.8 (2.6)	28.8 (2.8)
Weight at randomization (g) *Mean (SD)*	1070 (385)	1021 (326)
Randomization indication		
• **CPAP escalation due to Apnea** *N (%)*	7/48 (15%)	5/52 (10%)
• **CPAP escalation (all other causes)** *N (%)*	12/48 (25%)	15/52 (29%)
• **Post-extubation** *N (%)*	29/48 (60%)	32/52 (62%)
FiO$_2$ at randomization *Mean (SD)*	0.38 (0.15)	0.34 (0.14)
Initial mean airway pressure at randomization (cmH$_2$O) *Mean (SD)*	11.5 (2.5)	12.1 (2.2)
Maximum mean airway pressure over 1st 7 days (cmH$_2$O) *Mean (SD)*	12.8 (2.5)	13.1 (2.2)
Pre-failure mean airway pressure among those who met failure criteria within 1st 7 days (cmH$_2$O) *Mean (SD)*	12.4 (2.4)	13.4 (2.1)