

**Table 1.** Characteristics of the sNIPPV and nsNIPPV groups

	<b>sNIPPV N=45</b>	<b>nsNIPPV N=45</b>	<b>p</b>
<b>Gestational age (w)*</b>	28.7 ± 2	28.6 ± 1.9	0.962
<b>Birth weight (g)*</b>	1056 ± 310	1081 ± 307	0.697
<b>Gender (female), n (%)</b>	24 (53)	25 (58)	0.671
<b>Multiple pregnancy, n (%)</b>	11 (24)	22 (49)	<b>0.016</b>
<b>Type of delivery (CS), n (%)</b>	38 (84)	37 (82)	0.777
<b>APGAR 1st min<sup>β</sup></b>	6 (2-8)	5 (1-9)	0.232
<b>APGAR 5th min<sup>β</sup></b>	8 (4-9)	8 (2-10)	0.960
<b>Chorioamnionitis, n (%)</b>	14 (31)	13 (31)	1.000
<b>PPROM, n (%)</b>	15 (33)	11 (24)	0.352
<b>Antenatal corticosteroid, n (%)</b>	40 (89)	41 (91)	0.054
<b>Surfactant, n (%)</b>	14 (31)	23 (51)	0.264
<b>DR resuscitation, n (%)</b>	16 (36)	16 (36)	1.000
<b>First blood gas pH*</b>			
<b>pH*</b>	7.29 ± 0.08	7.29 ± 0.07	0.985
<b>pCO<sub>2</sub>*</b>	43.9 ± 11.1	42.9 ± 8.9	0.633
<b>HCO<sub>3</sub>*</b>	20.0 ± 3.6	19.6 ± 2.9	0.500
<b>Lactate<sup>β</sup></b>	2.8 (0.9-25.0)	2.55 (1.2-12.9)	0.688
<b>Settings of NIPPV*</b>			
<b>Rate</b>	36.3 ± 6.2	36.9 ± 6.5	0.681
<b>PIP</b>	18.8 ± 2.7	18.1 ± 2.9	0.968
<b>PEEP</b>	5.8 ± 0.7	5.9 ± 0.7	<b>0.019</b>
<b>FiO<sub>2</sub></b>	29.6 ± 7.1	30.2 ± 7.1	<b>0.005</b>
<b>MAP</b>	8.9±1.3 9 (5.93-11.0)	8.9±1.3 9 (6-11.8)	0.248
<b>Blood gas analysis after stabilisation</b>			
<b>pH*</b>	7.36 ± 0.07	7.33 ± 0.07	0.066
<b>pCO<sub>2</sub>*</b>	34.6 ± 8.1	36.1 ± 7.8	0.433
<b>HCO<sub>3</sub>*</b>	19.2 ± 2.4	20.6 ± 10.6	0.449
<b>Lactate<sup>β</sup></b>	2.9 (1.6-22)	2.95 (1.1-8.0)	0.677
<b>Pneumothorax, n (%)</b>	2 (4)	1 (2)	1.000
<b>Apnea under NIPPV, n (%)</b>	0 (0-0)	0 (0-9)	0.217
<b>Intubation at first 3 DOL,n (%)</b>	9 (20)	13 (29)	0.327
<b>Intubation at first 7 DOL,n (%)</b>	12 (26.7)	19 (42.2)	0.120
<b>NIPPV duration before intubation (h)</b>	24 (4-168)	29 (6-72)	0.936
<b>PDA, n (%)</b>	24 (53)	25 (56)	0.832
<b>IVH (Gr ≥3), n (%)</b>	3 (7)	7 (16)	0.180
<b>NEC (Stage ≥2), n (%)</b>	7 (16)	6 (13)	0.764
<b>LOS, n (%)</b>	31 (69)	26 (58)	0.274
<b>ROP (treatment required), n (%)</b>	2 (4)	2 (4)	1.000
<b>BPD (moderate or severe), n (%)</b>	7 (16)	7 (16)	1.000
<b>BPD or death, n (%)</b>	15 (33)	18 (40)	0.512
<b>Mortality, n (%)</b>	9 (20)	11 (24)	0.612
<b>Duration of hospital stay (d)*</b>	43.2 ± 24.3	42.1 ± 30.1	0.844

\*mean ± SD, <sup>β</sup> median (min-max)