Table (1): Demographic data of the studied groups

Demographic Data		Studied groups		
		Group I INSURE-CPAP (N=34)	Group II Surfactant - CMV(N=34)	P-value
Gestational age (hours)		31.8 ± 1.7	32.2 ± 1.4	0.4
Birth Weight (g)	800-1400	4(11.76%).	13(38.24%)	
	1401-1900	13(38.24%)	5(14.70%)	
	1901-2400	17(50%)	16(47.26%)	
Birth Weight (g)	Mean (±SD)	1841.2 ± 420.7	1730.2±496.7	0.3
APGAR score at one min		5.02 ± 1.4	5.5 ± 1.4	0.1
APGAR score at 5 min		8.2 ± 0.9	8.5 ± 0.8	0.1
Male (N/%)		19(55.9%)	25(73.5%)	0.1
Female (N/%)		15(44.1%)	9(26.5%)	
Vaginal delivery (N/%)		6(17.5%)	5(14.7%)	0.7
Caesarian section (N/%)		28(82.4%)	29(85.3%)	
Down score		6.2±1.4	8.1±1.1	0.04*

*= Significant (p < 0.05

Table (2): Arterial blood gas parameters in studied groups

Demographic Data		Studied groups		
		Group I INSURE-CPAP (N=34)	Group II Surfactant -CMV(N=34)	P-value
PH	On admission	7.27±9.06	7.23±0.07	0.03*
	At 6 hours	7.33±0.06	7.30±o0.06	0.04*
	At 24 hours	7.35±0.07	7.36 ± 0.06	0.61
Pco2 PaCO2	On admission	48.77±7.60	55.68±8.18	0.014*
	At 6 hours	45.68± 13.81	50.81±8.18	0.61
	At 24 hours	36.26±5.18	39.45 ±6.2	0.02*
Po2 PaO2	On admission	57.24 ±13.33	52.65± 22.22	0.04*
	At 6 hours	74.06±32.40	67.62±12.11	0.15
	At 24 hours	80.88±20.34	70.47±7.42	0.006*
O2 Saturation	On admission	85.82 ±4.84	82.47±47	0.019*
	At 6 hours	91.38 ±4.29	90.50 ±3	0.32
	At 24 hours	94.06±2.68	92.76 2.41	0.04*

*= Significant (p < 0.05

Table (3): Patient parameters in the studied groups.

Variable		Group II Surfactant - CMV(N=34)	Group I INSURE- CPAP (N=34)	P-value
Response to treatment	**Yes**	29(85.29%)	27(79.42%)	0.36
	No (failure)	5 (14.71%)	7(20.58%)	
Duration of ventilation (hours) (Mean ±SD)		46.85±20.15	61.21±33.34	0.04*
Duration of hospital stay (day)		16.22± 1.5	21.11±12.33	0.036*
Surfactant (Mean ±SD)	**Time to 1st dose (minutes)**	66.32±28.66	48.97 ± 22.42	0.007*
	Number of dosages	1.25 ± 0.44	3.31 ± 0.7	0.04*

*= Significant ($p < 0.05$)