Table (1): Socio-demographic data of patients in control and Ambroxol   group

	Group I (control) (n = 20)		Group II (treatment group), (n = 20)		Test of significance	P value
	No.	%	No.	%		
Sex						
Male	9	45	10	50	χ^2= 0.100	0.752
Female	11	55	10	50		
Residence						
Urban	12	60	11	55	χ^2= 0.1023	0.749
Rural	8	40	9	45		
Birth weight(kg) Mean ± SD.	2.53 ± 0.56		2.51 ± 0.46		t = 0.222	0.825

*Statistically Significant difference at p < 0.05

Table (2): Obstetric data of patients in control and Ambroxol   group

Obstetrics data	Group I (n= 20)		Group II (n= 20)		Test of sig.	P value
	No.	%	No.	%		
Mode of delivery						
C.S	9	45.0	8	40.0	χ^2= 0.102	0.749
NVD	11	55.0	12	60.0		
Gestational age (Weeks)						
Mean ± SD	33.60 ± 2.27		33.55 ± 2.23		t = 0.126	0.900

*Statistically Significant difference at p < 0.05

Table (3): Apgar score of neonates in control and Ambroxol   group

APGAR score	Group I (n= 20)	Group II (n= 20)	Test of significance	P value
At 1st min				
Mean ± SD	5.23 ± 1.15	5.29 ± 1.12	0.153	0.879
At 5 min				
Mean ± SD	8.42 ± 1.04	8.47 ± 1.08	0.164	0.871

*Statistically Significant difference at p< 0.05

Table (4): Arterial blood gases "ABGs" before treatment

Arterial blood gases "ABGs"	Group I (n= 20)	Group II (n= 20)	Test of significance	P value
PH				
Mean ± SD	7.34 ± 0.12	7.31± 0.14	0.135	0.821
PCO$_2$(mmHg)				
Mean ± SD	41.04 ± 2.48	39.04 ± 2.37	0.147	0.723
PaO$_2$ mmHg				
Mean ± SD	74.55 ± 6.14	76.35 ± 5.34	0.158	0.634
SaO$_2$%				
Mean ± SD	85.65 ± 5.22	83.65 ± 6.78	0.162	0.542

*Statistically Significant difference at p< 0.05

Table (5): Arterial blood gases "ABGs" after 48 hours of treatment

Arterial blood gases "ABGs"	Group I (n= 20)	Group II (n= 20)	Test of significance	P value
PH				
Mean ± SD	7.40 ± 0.32	7.44 ± 0.34	0.3831	0.7038
PCO$_2$(mmHg)				
Mean ± SD	43.04 ± 4.48	34.41 ± 1.64	8.094	< 0.001[*]
PaO$_2$ mmHg				
Mean ± SD	80.55 ± 9.14	93.45 ± 3.41	5.914	< 0.001[*]
SaO$_2$%				
Mean ± SD	83.65 ± 4.55	95.58 ± 1.89	10.834	< 0.001[*]

*Statistically Significant difference at p< 0.05

Table (6): The need for mechanical ventilation and CPAP and death rate among cases versus control

	Group I (n= 20)		Group II (n= 20)		Test of significance	P value
	No.	%	No.	%		
Need for M.V						
No	8	40.0	15	75.0	χ^2=5.013*	0.025*
Yes	12	60.0	5	25.0		
Duration of M.V. (hours)	**Mean ± SD** **170±31.2**		**Mean ± SD** 83±11.7		t = 5.966	0.001*
Need for CPAP						
No	10	50.0	14	70.0	χ^2=3.956*	0.047*
Yes	10	50.0	6	30.0		
Duration of CPAP (hours)	**Mean ± SD** **145±26.85**		**Mean ± SD** 95±14.51		t = 4.172	< 0.001*
Death rate						
No	14	70.0	20	100.0	χ^2=7.059*	0.020*
Yes	6	30.0	0	0.0		

*Statistically Significant difference at p< 0.05

Table (7): Oxygen therapy and duration of hospital stay

	Group I (n= 20)	Group II (n= 20)	Test of significance	P value
Duration of oxygen therapy (hours)				
Mean ± SD.	98.80 ±13.86	86.15 ± 6.30	3.716*	0.001*
FiO2 needed to keep SpO2 between 92-95%				
At 3hours	0.87 ± 0.28	0.63 ± 0.23	2.962*	0.005*
At 6hours	0.88 ± 0.32	0.63 ± 0.28	2.753*	0.009*
At 12hours	0.63 ± 0.25	0.48 ± 0.21	2.055*	0.047*
At 24hours	0.73 ± 0.27	0.54 ± 0.30	2.105*	0.042*
At 48hours	0.52 ± 0.23	0.38 ± 0.19	2.099*	0.043*
Duration of hospital stay (days)				
Mean ± SD.	19.30 ± 5.68	15.50 ± 4.07	2.433*	0.020*

*Statistically Significant difference at p < 0.05