

**Table 1A: Clinical and demographic data of cases and controls**

<b>Item</b>		<b>Control</b>	<b>Case</b>	<b>p-value</b>
<b>Gestational age in weeks</b>	Mean± SD	31.15±1.14	30.77±1.41	0.211
	Median (IQR)	32(30:32)	31(30:32)	
<b>Birth weight in grams</b>	Mean± SD	1374.84±168.78	1262.56±216.7	0.004**
	Median (IQR)	1370(1260:1480)	1300(1100:1450)	
<b>Multiple Gestation</b>	Mean± SD	0.31±0.53	0.45±0.7	0.294
	Median (IQR)	0(0:1)	0(0:1)	
<b>Duration of Oxygen in days</b>	Mean± SD	11.06±7.99	44.68±20.3	<0.001**
	Median (IQR)	12(4:18)	38(32:47)	
<b>CPAP Duration</b>	Mean± SD	4.05±3.99	15.11±9.22	<0.001**
	Median (IQR)	4(0:7)	14.5(11:18)	
<b>Blender Duration</b>	Mean± SD	3.11±2.57	8.18±4.43	<0.001**
	Median (IQR)	3(1:5)	8.5(6:12)	
<b>Mechanical Ventilation Duration</b>	Mean± SD	4.73±2.57	24.18±22.67	<0.001**
	Median (IQR)	4(3:7)	13(7:35)	
<b>Head box Duration</b>	Mean± SD	1.47±1.51	3.09±2.24	<0.001**
	Median (IQR)	1(0:2)	3(1:5)	
<b>Incubator Oxygen Duration</b>	Mean± SD	1.63±1.66	2.91±2.15	<0.001**
	Median (IQR)	1(1:2)	3(1.5:4)	
<b>Total Parenteral Nutrition duration in days</b>	Mean± SD	8.69±6.01	24.73±15.17	<0.001**
	Median (IQR)	9.5(5:13)	22.5(12:40)	
<b>Intake of Plasma</b>	Mean± SD	0.84±1.36	4.07±4.24	<0.001**
	Median (IQR)	0(0:1)	2.5(1:7)	
<b>Maternal age</b>	Mean± SD	27.16±4.87	25.5±4.87	0.087
	Median(IQR)	27(23:31)	24(22:30)	
<b>Infectious episodes</b>	Mean± SD	1.5±1.02	3.55±1.66	<0.001**
	Median (IQR)	2(1:2)	3(2:5)	
<b>Duration of caffeine citrate</b>	Mean± SD	27±11.86	42.68±22.84	<0.001**
	Median (IQR)	24(19:30)	37.5(23.5:54)	
<b>Inotropes Duration in days</b>	Mean± SD	6.69±4.27	17.25±8.23	<0.001**
	Median (IQR)	5(4:9)	16(11:24)	
<b>Intake of PRBCS</b>	Mean± SD	1.6±1.17	2.67±1.8	<0.004**
	Median (IQR)	1(1:2)	2(1:4)	
<b>Inhaled Steroids Duration</b>	Mean± SD	10.75±4.44	28.52±17.28	<0.001**
	Median (IQR)	12(7:14)	23(14:38)	

\*significant \*\*highly significant

**Table 1B: Continued Clinical and Demographic Data between cases and controls**

<b>Item</b>	<b>Controls=62 N(%)</b>	<b>Cases=44 N(%)</b>	<b>P value</b>
<b>Sex</b>			
Female	30(48.3%)	23(52.3%)	0.691
Male	32(51.7%)	21(47.7%)	
<b>CPAP</b>	40(64.5%)	42(95.5%)	<0.001**
<b>Blender</b>	49(79%)	39(88.6%)	0.149
<b>MV</b>	11(17.7)	28(63.6)	<0.001**
<b>Head Box</b>	41(66.1)	35(79.5)	0.131
<b>Incubator Oxygen</b>	49(79)	37(84.1)	0.512
<b>Early Onset Neonatal Sepsis</b>	25(40.3)	25(56.8)	0.094
<b>Late onset Neonatal Sepsis</b>	43(69.4)	43(97.7)	<0.001**
<b>Patent Ductus Arteriosus</b>	8(12.9)	28(63.6)	<0.001**
<b>Development of pneumothorax</b>	0(0)	11(25)	<0.001**
<b>Necrotizing Enterocolitis</b>	4(6.5)	23(52.3)	<0.001**
<b>Intake of Inhaled steroids</b>	40(64.5)	42(95.5)	<0.001**
<b>Intake of Surfactant</b>	5(8.1)	20(45.5)	<0.001**
<b>Total Parenteral Nutrition</b>	48(77.4)	41(93.2)	0.029
<b>Severity of ROP</b>			
Absent ROP	33(53.2)	5(11.4)	<0.001**
Low grade ROP	24(38.7)	32(72.7)	
Severe ROP	5(8.1)	7(15.9)	
<b>Intraventricular hemorrhage</b>	8(12.9)	18(40.9)	<0.001**
<b>Intake of Inotropes</b>	15(24.2)	36(81.8)	<0.001**
<b>Intake of Inhaled steroids</b>	40(64.5)	42(95.5)	<0.001**

\*significant \*\*highly significant

**Table 2A: Clinical and demographic data associating ROP cases**

Item	ROP N(%)		P value
	Absent N=38	Present N=68	
<b>Sex</b>			
Female	19(50)	34(50)	0.316
Male	19(50)	34(50)	
<b>Premature Rupture Of Membranes</b>	8(21.1)	13(19.1)	0.694
<b>Antenatal Steroid Use</b>	8(21.1)	22(32.3)	0.257
<b>Patent Ductus Arteriosus</b>	8(21.1)	28(41.2)	0.036*
<b>Necrotizing Enterocolitis</b>	6(15.8)	21(30.9)	0.087
<b>Intraventricular hemorrhage</b>	5(13.2)	21(30.9)	0.042*
<b>Development of pneumothorax</b>	1(2.6)	10(14.7)	0.93
<b>Early Onset Neonatal Sepsis</b>	15(39.5)	35(51.5)	0.235
<b>Late Onset Neonatal Sepsis</b>	27(71.1)	59(86.8)	0.047*
<b>CPAP</b>	22(57.9)	60(88.2)	<0.001**
<b>Oxygen blender</b>	26(68.4)	62(91.2)	0.003**
<b>Mechanical Ventilation</b>	5(13.2)	34(50)	<0.001**
<b>Head box</b>	21(55.3)	55(80.9)	0.005**
<b>Incubator Oxygen</b>	26(68.4)	60(88.2)	0.012*
<b>Total Parenteral Nutrition intake</b>	30(78.9)	59(86.8)	0.293
<b>Intake of BPD regimen</b>	3(7.9)	31(45.6)	<0.001**
<b>Intake of Inotropes</b>	12(31.6)	39(57.4)	0.011*
<b>Intake of RBC</b>	20(52.6)	57(83.8)	<0.001**
<b>Intake of plasma</b>	16(42.1)	48(70.6)	0.004**
<b>Intake of Inhaled steroids</b>	22(57.9)	60(88.2)	<0.001**
<b>Intake of Surfactant</b>	3(7.9)	22(32.4)	0.004**

\*significant \*\*highly significant

**Table 2B: Clinical and demographic data associating ROP cases**

Item	ROP Absent	ROP Pesent	P value
	Median(IQR)	Median(IQR)	
Gestational age in weeks	32(31:32)	31(30:32)	0.108
Duration of admission in days	28.5(24:40)	43.5(32.5:59)	0.001**
Birth weight in grams	1355(1300:1500)	1300(1155:1450)	0.025*
Duration of oxygen in days	10(0:20)	30(17:43)	0.001**
CPAP duration	4(0:7)	11(4:16)	0.001**
Blender duration	3(0:6)	6(3:9)	0.001**
Mechanical ventilation duration	8(5:8)	19(9:37)	0.004**
Head box duration	1(0:2)	2(1:4)	0.002**
Incubator oxygen duration	1(0:2)	2(1:4)	0.019*
Infectious episodes	2(1:3)	2(2:4)	0.003**
Total parenteral nutrition duration	11(5:13)	14(8:28)	0.008**
BPD regimen duration	10(10:10)	10(6:27)	0.604
Duration of caffeine citrate	23(19:31)	28(23:44)	0.005**

\*significant \*\*highly significant

**Table 3: Severity of BPD in relation to ROP**

Item	Severity of ROP						P value
	Absent ROP		Low grade ROP		Severe ROP		
Severity of BPD	N	%	N	%	N	%	
<b>Absent BPD</b>	33	86.8	24	42.9	5	41.7	0.002**
<b>p-value</b>	<0.001		0.0005		0.194		
<b>Mild</b>	1	2.6	1	1.8	1	8.3	
<b>p-value</b>	0.689		0.920		0.617		
<b>Moderate</b>	4	10.5	16	28.6	4	33.3	
<b>p-value</b>	0.036		0.072		0.764		
<b>Severe</b>	0	0	15	26.8	2	16.7	
<b>p-value</b>	<0.001		0.012		0.134		

\*\* Highly Significant;  
Bonferroni adjusted p value= 0.000417

**Table 4: Multiple regression analysis to detect the predictors of BPD**

Item	B	p-value	OR	95% C.I. for OR	
				Lower	Upper
<b>PDA</b>	1.599	0.02*	4.949	1.289	19.001
<b>Intake of Inotropes</b>	1.785	0.008**	5.959	1.597	22.232
<b>ROP</b>	1.644	0.021*	5.177	1.279	20.949
<b>Duration of admission in days</b>	0.095	0.003**	1.1	1.034	1.17
<b>Constant</b>	-6.953	0	0.001		

\*significant \*\*highly significant

Variable(s) entered on step 1: Birth weight in grams, MV, Incubator oxygen, Late onset neonatal Sepsis, TPN, PDA, Intake of Inotropes, Intake of Surfactant, ROP, Duration of admission in days.

**Table 5: Multiple regression analysis to detect the predictors of ROP**

Item	B	p-value	OR	95% C.I. for OR	
				Lower	Upper
<b>Mechanical Ventilation duration</b>	1.672	0.004**	5.323	1.689	16.777
<b>Duration of Oxygenation</b>	1.555	0.012*	4.736	1.405	15.957
<b>Duration of admission in days</b>	0.043	0.009**	1.044	1.011	1.078
<b>Constant</b>	-2.857	0.001**	0.057		

\*significant \*\*highly significant

Variable(s) entered on step 1: Birth weight in grams, Mechanical Ventilation duration, Incubator Oxygen, Late onset neonatal Sepsis, TPN, PDA, Intake of Inotropes, Intake of Surfactant, Duration of admission in days.