

**Table (1): Sociodemographic and clinical characteristics of neonates admitted to Al-Azhar Assuit NICU.**

<b>Variables</b>	<b>No.=232</b>	<b>%</b>
<b>Gestational age (weeks)</b>		
Range (Min-Max)	19 (22-41)	
Mean $\pm$ SD	32 $\pm$ 4.3	
Preterm (<37 weeks)	147	63.4%
Term ( $\geq$ 37weeks)	85	36.6%
<b>Neonatal age at admission (days)</b>		
Range (Min- Max)	(0-26)	
Mean $\pm$ SD	4.08 $\pm$ 9.7	
<1 day< 24 hrs	184	79.3%
1-3 days> 24 hrs	27	11.7%
4-7 days < 7 days	13	5.6%
8-28 days> 7day	8	3.4%
<b>Sex</b>		
Male	126	54.3%
Female	106	45.7%
<b>Birth weight (gm)</b>		
Range (Min- Max)	(600-4100)	
Mean $\pm$ SD	2800 $\pm$ 1100	
ELBW (<1000gm)	9	3.8%
VLBW (1000-<1500gm)	40	17.3%
LBW (1500-<2500 gm)	87	37.5%
Birth weight $\geq$ 2500 gm	96	41.4%

→Data presented as Frequency and (%). No.=Number, %=Percentage

LBW=low birth weight. ELBW=extremely low birth weight. VLBW=very low birth weight.

**Table (2): Pattern of neonatal emergencies of neonates who admitted to Al-Azhar Assuit NICU.**

<b>Diagnosis</b>	<b>No.=(232)</b>	<b>%</b>
<b>Respiratory distress syndrome (RDS)</b>	53	22.8
<b>Sepsis (Pneumonia, Meningitis, UTI&amp; DIC)</b>	47	20.3
<b>Transient tachypnea of newborn</b>	32	13.8%
<b>Prematurity( low birth wt &amp; NEC)</b>	22	9.5%
<b>Hypoxic ischemic encephalopathy</b>	17	7.3%
<b>Meconium aspiration syndrome</b>	13	5.6%
<b>Surgical</b>	12	5.2%
• Choanal atresia	1	0.43%
• Duodenal atresia	3	1.3%
• Pyloric stenosis	2	0.85%
• Congenital diaphragmatic hernia	3	1.3%
• Tracheoesophageal Fistula	2	0.85%
• Hirschsprunge disease	1	0.43%
<b>Infant of diabetic mother (hypoglycaemia, macrosomia)</b>	11	4.7%
<b>Congenital heart disease</b>	8	3.5%
<b>Neonatal seizure</b>	6	2.6%
<b>Haemorrhagic disease of newborn</b>	4	1.7%
<b>Aspiration pneumonia</b>	4	1.7%
<b>Dysmorphic features (Edwards syndrome ??)</b>	3	1.3%

→Data presented as Frequency and (%). No.=Number, %=Percentage

NEC: necrotizing enterocolitis, DIC: disseminated intravascular coagulation, UTI: urinary tract infection.

**Table (3): Intervention performed in studied group of neonatal emergencies.**

<b>Intervention</b>	<b>No.</b>	<b>%</b>
<b>Bubble CPAP</b>	63	(27.2)
<b>Mechanical ventilation with blood transfusion</b>	56	(24)
<b>Procedure not required</b>	34	(14.7)
<b>Mechanical nentilation</b>	31	(13.4)
<b>Bubble CPAP with blood transfusion</b>	23	(10)
<b>Blood transfusion</b>	12	(5.2)
<b>Chest tube with mechanical ventilation</b>	11	(4.7)
<b>Lumbar puncture</b>	2	(0.9)

→Data presented as Frequency and (%). No.=Number %=Percentage  
 CPAP: continuous positive airway pressure

**Table (4): Outcome according to the gender**

<b>Items</b>	<b>Discharged</b>		<b>Died</b>		<b>P-Value</b>
	<b>No.=154</b>		<b>No.=78</b>		
<b>Gender(232)</b>	No.	%	No.	%	
<b>Male</b>	126(54.3)	80	51.9	46	0.41
<b>Female</b>	106(45.7)	74	48.1	32	

→Data presented as Frequency and (%). No.=Number %=Percentage

**Table (5): Outcome according to the type of neonatal emergencies**

Items	Discharged No.=154		Died No.=78		P-Value	
	No.	%	No.	%		
<b>Neonatal emergencies(232)</b>	No.	%	No.	%		
<b>Prematurity with RD\$</b>	53 (22.8)	34	22.1	19	24.4	0.26
<b>Sepsis</b>	47 (20.3)	12	7.8	35	44.9	<0.001*
<b>Transient tachypnea of newborn</b>	32(13.8)	29	18.8	3	3.8	0.045*
<b>Prematurity</b>	22 (9.5)	13	8.4	9	11.5	0.04*
<b>Hypoxic ischemic encephalopathy</b>	17 (7.3)	14	9.9	3	3.8	0.48
<b>Meconium aspiration syndrome</b>	13 (5.6)	9	5.8	4	5.1	0.038*
<b>Surgical</b>	12(5.2)	12	7.8	-	-	-
<b>Infant of diabetic mother</b>	11 (4.7)	8	5.1	3	3.8	0.048*
<b>Congenital heart disease</b>	8 (3.5)	6	3.9	2	2.6	0.22
<b>Neonatal seizure</b>	6(2.6)	6	3.9	-	-	-
<b>Hemorrhagic disease of newborn</b>	4(1.7)	4	2.6	-	-	-
<b>Aspiration pneumonia</b>	4(1.7)	4	2.6	-	-	-
<b>Dysmorphic features (Edward syndrome?)</b>	3(1.3)	3	1.9	-	-	-

→Data presented as Frequency and (%). No.=Number %=Percentage

\*Significant; \*\* highly significant.

RDS: Respiratory distress syndrome

**Table (6): Outcome according to the intervention performed on studied groups of neonatal emergencies**

Items	Discharged No.=154		Died No.=78		P-Value	
	No.	%	No.	%		
<b>Neonatal emergencies (232)</b>	No.	%	No.	%		
<b>Bubble CPAP</b>	63(27.2)	63	40.9	-	-	
<b>Mech. vent. with blood transfusion</b>	56(24)	13	8.4	43	55.1	0.001**
<b>Procedure not required</b>	34(14.7)	34	22	-	-	-
<b>Mechanical ventilation</b>	31(13.4)	12	7.8	19	24.4	0.047*
<b>Bubble CPAP with blood transfusion</b>	23(10)	18	11.7	5	6.4	0.068
<b>Blood transfusion</b>	12(5.2)	8	5.2	4	5.1	0.2
<b>Chest tube with mech. ventilation</b>	11(4.7)	4	2.5	7	9	0.054
<b>Lumbar puncture</b>	2(0.9)	2	1.3	-	-	-

→Data presented as Frequency and (%). No.=Number %=Percentage

\*Significant; \*\* highly significant.

CPAP: continuous positive airway pressure

