

Table (1): Demographic data and diagnosis of the studied patients

Total no. = 170	No. (%)	Range	Mean ± SD	Median (IQR)
*GA (weeks)		28 – 36	34.20 ± 1.87	
Weight (kg)		0.8 3.6	- 2.17 ± 0.46	
Age on admission (days)		1 – 22		1 (1 – 4)
Total Hospital stay (days)		3 – 20		10 (7-13)
Sex	Male	93 (54.7%)		
	Female	77 (45.3%)		
Mode of Delivery	Vaginal	74 (43.5%)		
	*C. S	96 (56.5%)		
Diagnosis	*R. D	102 (60.0%)		
	Sepsis	90 (52.9%)		
	*N. J	69 (40.6%)		
	Preterm growers	50 (29.4%)		
	*HDN	3 (1.8%)		
	*N. Seizures	1 (0.6%)		
Feeding	Breast feeding	114 (69.5%)		
	Artificial feeding	50 (30.5%)		
Inotrope	*1 st line	11 (26.2%)		
	*2 nd line	31 (73.8%)		
Antibiotics	*1 st line	135 (79.4%)		
	*2 nd line	20 (11.8%)		
	*3 rd line	5 (2.9%)		
Ventilation	No	70 (41.2%)		
	Yes	100 (58.2%)		
Complications	No	77 (45.3%)		
	Yes	93 (54.7%)		
Outcome	Survived	162 (95.3%)		
	Died	8 (4.7%)		

*Number & percent for sex, mode of delivery, type of feeding, type of inotrope, type of antibiotics, ventilation, diagnosis, complications, total hospital stay and outcome.

*Median (IQR) for non-parametric data.

*Mean (SD) for parametric data.

*Abbreviations: *GA: Gestational age. *CS: Cesarean section *RD: Respiratory Distress. *N. J: Neonatal jaundice. *HDN: Hemorrhagic disease of newborn. *N. seizures: Neonatal seizures. 1st line of inotrope: Dopamine. *2nd line of inotrope: Dopamine + Dobutamine. *1st line of antibiotics: Ampicillin+ Gentamicin. *2nd line of antibiotics: Meropenem + Vancomycin. *3rd line of antibiotics: Amikacin, Cefotaxime, clindamycin, cefoperazone, fluconazole, Amoxicillin/clavulanic acid, Azithromycin, Ciproflaxacin, Teicoplanin.

Table (2): Comparison of HeRO score in patients with initial sepsis than non-septic patients

Item		Non-septic patients n= 101	Initial septic patients n= 69	Test value \neq	P-value
HeRO score D1	Median (IQR) Range	1 (0 – 1) 0 – 4	2 (2 – 3) 1 – 5	-10.755	<0.001
HeRO score D4	Median (IQR) Range	0 (0 – 1) 0 – 5	2 (1 – 2) 0 – 5	-6.687	<0.001

HeRO: Heart Rate Observation, P-value > 0.05: Non -significant; P-value < 0.05: Significant; P-value < 0.01: Highly significant \neq : Mann-Whitney test

Table (3): Cut off point, AUC, sensitivity, and specificity for HeRO score for D1 and D4

Variables	Cut off point	AUC	Sensitivity	Specificity	+PV	-PV
HeRO Score D1	>1	0.969	92.75	98.02	97.0	95.2
HeRO Score D4	>1	0.789	65.22	85.15	75.0	78.2

HeRO: Heart Rate Observation, AUC: area under curve, PV: predictive value

Table (4): Comparison of HeRO score for development of sepsis

Item		Groups		Test value \neq	P-value
		Did not develop sepsis n = 149	Developed sepsis n = 21		
HeRO scoreD4	Median (IQR)	1 (0 – 2)	2 (1 – 2)	-3.577 \neq	<0.001
	Range	0 – 5	1 – 5		
HeRO scoreD7	Median (IQR)	0 (0 – 1)	2 (1 – 3.5)	-4.079 \neq	<0.001
	Range	0 – 5	0 – 4		
HeRO scoreD13	Median (IQR)	0 (0 – 1)	1.5 (0 – 3)	-2.618 \neq	0.009
	Range	0 – 5	0 – 5		

HeRO: Heart Rate Observation, P-value > 0.05: Non-significant; P-value < 0.05: Significant; P-value < 0.01: Highly significant \neq : Mann-Whitney test,

Table (5): cut off point, AUC, sensitivity, and specificity for HeRO score for D4, D7 and D13 for the development of sepsis

Variables	Cut off point	AUC	Sensitivity	Specificity	+PV	-PV
HeRO Score D4	>0	0.731	100.00	41.61	19.4	100.0
HeRO Score D7	>0	0.768	90.00	55.56	27.3	96.8
HeRO Score D13	>0	0.704	72.22	61.11	48.1	81.5