Table 1: Clinico-demographic data with the prenatal history as regard the final diagnosis

Item		Diagnosis				Total		P-value
		F.I		NEC				
		N=92		N=39		N=131		
Age		16 (7-43)		17 (9-44)		16 (7-44)		0.501
Birth weight Kg		1.36 (0.86-1.90)		1.32 (0.79-1.80)		1.34 (0.79-1.90)		0.093
Gestational age,wks		31 (27-32)		31 (25-32)		31 (25-32)		0.183
Sex	Female	40	43.5%	23	59.0%	63	48.1%	0.105
	Male	52	56.5%	16	41.0%	68	51.9%	
Mode of delivery	CS	81	88.0%	32	82.1%	113	86.3%	0.362
	NVD	11	12.0%	7	17.9%	18	13.7%	
Maternal history of DM	No	79	85.9%	34	87.2%	113	86.3%	0.842
	Yes	13	14.1%	5	12.8%	18	13.7%	
Maternal history of HTN	No	71	77.2%	28	71.8%	99	75.6%	0.512
	Yes	21	22.8%	11	28.2%	32	24.4%	
Maternal history of PROM	No	57	62.0%	18	46.2%	75	57.3%	0.095
	Yes	35	38.0%	21	53.8%	56	42.7%	
Nutritional history	NPO	1	1.1%	14	35.9%	15	11.5%	<0.001
	TPN	13	14.1%	19	48.7%	32	24.4%	
	Trophic	48	52.2%	4	10.3%	52	39.7%	
	Breast	30	32.6%	2	5.1%	32	24.4%	

While qualitative data were represented as numbers and percentages and compared using the Chi-square X2 test, quantitative data were reported as Median (range) and compared using the Mann Whitney test.
DM: diabetes mellitus, PROM: premature rupture of membranes

Table 2: Comparison between serial measurements of AMC as regard the final diagnosis

Item	Diagnosis		Total	P-value
	F.I	NEC		
	N=92	N=39	N=131	
AMC 1st one on admission	8 (0-20)	10 (4-32)	9 (0-32)	0.090
AMC 2nd one at start of FI	10 (1-20)	10 (4-30)	10 (1-30)	0.242
AMC 3rd one from 3-5 days after development of FI	10 (3-22)	4 (2-21)	10 (2-22)	0.000

All variables were presented as Median (range) and compared utilizing Mann Whitney test.
AMC: absolute monocytic count

Table 3: serial measures of the WCC, ANC, ALC, and AMC in the premature neonates

All Neonate	1st one on admission	2nd one at start of FI	3rd one from 3-5 days after FI	P-value
WCC	12.6 (2.4-66.5)	13.6 (2.3-55.2)	13.4 (3.3-52.5)	0.117
ANC	5.81 (0.92-40.50)	6.61 (0.69-44.00)	6.6 (0.429-28.1)	0.316
ALC	36.0 (4.0-91.0)	35.0 (6.0-86.0)	38 (8-85)	0.725
AMC	9 (0-32)	10 (1-30)	10 (2-22)	0.723

WCC: white cell count, ANC: absolute neutrophil count, ALC: absolute leucocytic count
AMC: absolute monocytic count

Table 4: Correlation between the AMC level on admission and other studied parameters in the premature neonates diagnosed with FI and NEC

Item	AMC 1st one on admission			
	Diagnosis			
	F.I		**NEC**	
	r	P-value	r	P-value
Age	0.033	0.757	-0.230	0.158
Birth weight	0.139	0.186	0.110	0.506
Gestational age,wks	0.033	0.757	0.098	0.552
Apgar scores at 1 minute	0.096	0.363	-0.099	0.547
Apgar scores at and 5 minutes	0.136	0.196	0.031	0.852
Apgar Scores at 10 minutes	0.060	0.572	0.130	0.43
Ballard score, wks	0.176	0.094	0.119	0.47
weight	0.099	0.347	0.037	0.821
length	0.213	0.42	-0.037	0.823
skull circumference	0.195	0.063	-0.064	0.699
abdominal circumference	0.154	0.143	0.221	0.176
chest circumference	0.240	0.021	0.405	0.011
SBP	0.130	0.218	-0.376	0.018
DBP	0.226	0.03	-0.055	0.739
MAP	0.223	0.033	-0.055	0.738
respiratory rate	-0.111	0.291	-0.073	0.659
heart rate	0.067	0.528	0.082	0.618
WCC 1st one on admission	-0.177	0.092	-0.125	0.448
WCC 2nd one at start of FI	-0.053	0.615	-0.149	0.366
WCC 3rd one from 3-5 days after FI	-0.043	0.684	-0.285	0.079
ANC 1st one on admission	-0.214	0.041	-0.191	0.245
ANC 2nd one at start of FI	-0.069	0.511	-0.127	0.44
ANC 3rd one from 3-5 days after FI	-0.167	0.112	-0.200	0.222
ALC 1st one on admission	-0.140	0.182	-0.141	0.39
ALC 2nd one at start of FI	0.050	0.636	-0.080	0.63
ALC 3rd one from 3-5 days after FI	0.140	0.184	0.153	0.354
AMC 2nd one at start of FI	0.091	0.386	0.144	0.383
AMC 3rd one from 3-5 days after f FI	0.094	0.373	0.247	0.13
CRP	-0.052	0.624	0.183	0.264

r = Correlation Coefficient

WCC: white cell count, ANC: absolute neutrophil count, ALC: absolute leucocytic count AMC: absolute monocytic count