

Table (1): Shows the clinical and laboratory studied parameters between Breast Fed (BF) and Formula-Fed (FF) (mean \pm SD).

*Significant (P<0.05)

NS: Non Significant

Parameters	BF (n=27)	FF (n=20)	P. Value
Age(Month)	9.62 \pm 5.86	9.85 \pm 5.14	N.S
Sex			
Male	18(66.7%)	10(50%)	N.S
Female	9(33.3%)	10(50%)	
HB (g/dl)	9.003 \pm 1.07	7.63 \pm 1.10	0.000*
WBC ($\times 10^9/L$)	11.70 \pm 3.07	9.56 \pm 1.54	0.000*
RBC ($\times 10^{12}/L$)	4.07 \pm 0.69	3.28 \pm 0.79	0.001*
MCV (fL)	54.71 \pm 24.51	75.61 \pm 9.55	0.001*
MCH (Pg)	22.90 \pm 4.20	23.39 \pm 3.02	N.S
MCHC (g/dl)	31.72 \pm 3.89	31.14 \pm 3.89	N.S
Platelet count (cell/mm ³)	350.72 \pm 126.64	400.70 \pm 168.71	N.S
Total cholesterol (mg/dl)	119.70 \pm 26.13	107.25 \pm 32.58	N.S
S. triglycerides (mg/dl)	131 \pm 11 \pm 52.15	238.15 \pm 112.15	0.000*
HDL C (mg/dl)	23.44 \pm 8.67	26.70 \pm 1.78	N.S
LDL C (mg/dl)	70.29 \pm 8.67	26.70 \pm 1.78	N.S
Leptin (ng/ml)	2.96 \pm 2.80	1.45 \pm 1.29	0.030*
TNF- α (pg/ml)	15.80 \pm 1.80	17.18 \pm 1.75	0.012*

Table(2): Shows the anthropometrics measurement between Breast Fed (BF) and Formula-Fed (FF) (mean \pm SD).

Parameters	BF (n=27)	FF (n=20)	P. Value
Weight/ Age (kg/M)	1154.18 \pm 1071.26	1596.63 \pm 2330.9	N.S
Length/ Age (cm/M)	8.41 \pm 4.24	5.38 \pm 1.25	0.003*
Skin fold/ Age (mm/M)	0.811 \pm 0.68	1.13 \pm 1.25	N.S
Body surface area /Age (m ² /M)	0.059 \pm 0.042	0.05 \pm 0.05	N.S
Body mass index/Age (Kg/ m ² /M)	3.019 \pm 2.76	3.95 \pm 4.64	N.S
Head circumference/ Age (cm/M)	6.51 \pm 4.58	7.57 \pm 7.45	N.S
Leptin /wt (kg/M)	0.358 \pm 0.05	0.118 \pm 0.05	0.003
Leptin/BMI	0.156 \pm 0.025	0.071 \pm 0.029	0.003

Table(3): Correlation coefficients between selected variables and serum TNF- α concentration in (BF) and (FF) infants

	BF		FF	
	r-Coefficient	P-Value	r-coefficient	P-Value
HB (g/dl)	-0.238	0.23	-0.042	N.S
Wt (kg)	0.154	0.44	0.070	N.S
BMI (Kg/ m ²)	-0.059	0.76	-0.279	N.S
B.S.A (m m ²)	0.16	0.400	0.137	N.S
Skin fold thickness (mm)	-0.398	0.04	-0.491	0.028*
Leptin (ng/ml)	0.023	0.91	-0.437	N.S
Length (cm)	-0.103	0.61	0.248	N.S
HC (cm)	-0.37	0.05	0.202	N.S
Age (Month)	0.299	0.130	-0.002	N.S
TC (mg/dl)	0.20	0.31	0.223	N.S
Triglycerides (mg/dl)	0.25	0.19	0.132	N.S
HDL-C (mg/dl)	-0.10	0.60	-0.295	N.S
LDL-C (mg/dl)	0.176	0.38	-0.059	N.S

Table(4): Correlation coefficients between selected variables and serum leptin concentration in (BF) and (FF) infants

	BF		FF	
	r-Coefficient	P-Value	r-coefficient	P-Value
HB (g/dl)	-0.19	0.32	0.45	0.046*
Wt (kg)	-0.10	0.060	-0.14	N.S
BMI (Kg/ m²)	-0.12	0.52	0.88	0.000*
B.S.A (m m²)	0.257	0.19	-0.322	N.S
Skin fold thickness (mm)	0.17	0.38	0.39	N.S
TNF-α (pg/ml)	0.023	0.91	-0.437	0.05
Length (cm)	-0.14	0.47	-0.62	0.003*
HC (cm)	-0.297	0.13	-0.43	0.05
Age (Month)	-0.13	0.94	-0.482	0.032*
TC (mg/dl)	0.09	0.637	-0.18	N.S
Triglycerides (mg/dl)	0.299	0.13	-0.22	N.S
HDL-C (mg/dl)	-0.33	0.08	-0.144	N.S
LDL-C (mg/dl)	0.119	0.55	-0.02	N.S