



Figure 1. Hemoglobin status of the mothers of new born baby

Table 1. Relation of maternal Hb level and anthropometric measurements of new born

Parameter	Normal (Hb≥11.0)		Anemic (Hb<11.0)		P value
	Mean ± SD	Range	Mean ± SD	Range	
Hemoglobin (g/dl)	11.86 ± 0.92	11.00 - 15.80	10.08 ± 0.57	8.20 - 10.80	0.0001
Weight (Kg)	3.47 ± 0.48	2.75 - 5.00	3.29 ± 0.63	2.25 - 4.50	0.031
Length (cm)	49.52 ± 1.81	45.00 - 55.00	48.72 ± 2.31	42.00 - 54.00	0.009
OFC (cm)	34.46 ± 1.19	31.00 - 38.00	34.08 ± 1.45	30.00 - 37.50	0.054
Chest circumference (cm)	33.13 ± 1.50	30.00 - 38.00	32.43 ± 1.63	28.00 - 35.00	0.004

\*Significant difference using t-test for two independent means at 0.05 level of significance

The percentile of (weight for age and length for age) was statistically significantly affected ( $P = 0.001$ ,  $P = 0.02$ ), while weight for length and head circumference for age was not significantly affected ( $P = 0.215$ ,  $P = 0.063$ ) as show in tables 2 through 5.

Table 2. Relation of weight for age percentile of new born with Hemoglobin of the mother

Weight for age percentile	Normal (Hb≥11.0)		Anemic (Hb<11.0)		P value
	No	%	No	%	
<3rd	1	0.7	4	6.7	0.001*
3rd-50th	74	52.9	40	66.7	
50th-97th	60	42.9	11	18.3	
>97th	5	3.6	5	8.3	

\*Significant difference using chi square test for two independent means at 0.05 level of significance

Table 3. Relation of length for age percentile of new born with Hemoglobin of the mother

Length for age percentile	Normal (Hb≥11.0)		Anemic (Hb<11.0)		P value
	No	%	No	%	
<3 <sup>rd</sup>	2	1.4	6	10.0	0.02*
3 <sup>rd</sup> -50 <sup>th</sup>	77	55.0	35	58.3	
50 <sup>th</sup> -97 <sup>th</sup>	59	42.1	19	31.7	
>97 <sup>th</sup>	2	1.4	0	0	

\*Significant difference using chi square test for two independent means at 0.05 level of significance.