

RESULTS

In this study, the results of urine and stool of all mothers were irrelevant, Also all had no abnormal haemoglobins. Those with urinary tract infection of parasitic infestation were excluded by routine urine and stool examination. Haemoglobinopathies were excluded by doing haemoglobin electrophoresis.

Table 1 : Shows mean values $\pm$ SEM of including HB%, RBC, PCV, MCV , MCHC and MCH haematological indices in maternal blood of control and anaemic groups.

Table 2 : Shows mean values $\pm$ SEM of Biochemical tests including iron, UIBC, TIBC transferrin, transferrin saturation and ferritin in maternal blood in both control and anaemic groups.

Table 3 : Shows. mean values $\pm$ SEM of haematological indices in cord blood of control and anaemic groups.

Table 4 : Shows. mean values $\pm$ SEM of biochemical tests in cord blood of both control and anaemic groups.

Table 1 :

Haematological indices in maternal blood of control and anaemic groups (Mean values $\pm$ SEM)

	Control	Anaemic
Hb. gm%	13.5 $\pm$ 0.2	10.7 $\pm$ 0.2
RBCs X 10 ¹² /L	4.14 $\pm$ 0.15	3.18 $\pm$ 0.09
PCV %	40.4 $\pm$ 0.9	31.6 $\pm$ 0.76
MCV FL	98.8 $\pm$ 3.2	99.6 $\pm$ 2.50
MCHC g%	33.5 $\pm$ 0.4	34.1 $\pm$ 0.5
MCH Pg	32.9 $\pm$ 1.1	34.3 $\pm$ 0.8

Table 2 :

Biochemical tests in maternal blood of control and anaemic groups (Mean values $\pm$ SEM)

	Control	Anaemic
Iron (ug/dL)	111.5 $\pm$ 7.8	71.7 $\pm$ 7.9
UIBC (ug/dL)	359.5 $\pm$ 28	304.4 $\pm$ 22.4
TIBC (ug/dL)	471.0 $\pm$ 26.7	374.7 $\pm$ 25.0
Transferrin (mg/dL)	429.3 $\pm$ 21.3	395.6 $\pm$ 16.8
Transferrin Saturation %	24.8 $\pm$ 2.4	20.9 $\pm$ 2.1
Ferritin ug/L	29.2 $\pm$ 3.8	24.2 $\pm$ 1.4

Table 3 :

Haematological tests in cord blood of control and anemic groups
(Mean values $\pm$ SEM)

	control	Anaemic
Hb. gm%	16.3 $\pm$ 0.57	14.96 $\pm$ 0.25
RBCs X 10 ¹² /L	5.36 $\pm$ 0.2	4.90 $\pm$ 0.09
PCV %	47.7 $\pm$ 1.3	43.3 $\pm$ 0.84
MCV FL	90.1 $\pm$ 2.7	88.81 $\pm$ 1.4
MCHC g%	34.1 $\pm$ 0.9	34.4 $\pm$ 0.4
MCH Pg	30.7 $\pm$ 1.3	30.8 $\pm$ 0.5

Table 4 :

Biochemical tests in cord blood of both control and anaemic groups (Mean values $\pm$ SEM)

	Control	Anaemic
Iron (ug/dL)	200.0 $\pm$ 12.4	182.8 $\pm$ 11.1
UIBC (ug/dL)	226.9 $\pm$ 20.9	135.0 $\pm$ 18.1
TIBC (ug/dL)	426.8 $\pm$ 36.1	312.0 $\pm$ 19.8
Transferrin (mg/dL)	287.3 $\pm$ 8.9	247.6 $\pm$ 12.7
Transferrin Saturation %	49.9 $\pm$ 3.5	62.2 $\pm$ 3.0
Ferritin (ug/L)	116.9 $\pm$ 11.4	142.1 $\pm$ 13.3

Table 5 :

Shows mean value $\pm$ SEM of haemoglobin concentration in gm%, Red cell count ($\times 10^{12}/L$), Packed cell volume, mean cell volume (MCV fl) mean cell haemoglobin concentration (MCHC gm%) and mean cell haemoglobin (MCH Pg) in cord blood of both control and anaemic pregnant females. Statistical analysis of Hb%, RBC_s and PCV showed a significant increase in cord blood Hb% - RBC_s of control group than anaemic group ($p < .05$) and showed a highly significant increase in PCV ($p < 0.01$) while for MCV MCHC - MCH the difference was statistically non significant.

- Mean values $\pm$ SEM of Hb, RBC_s, PCV, MCV, MCHC and MCH in cord blood of both control and anaemic pregnant females .

	Control	anaemic	unpaired "t" value	P
Hb. gm%	16.8 ± 0.57	14.96 ± 0.25	2.153	<.05
RBC _s $\times 10^{12}/L$	5.36 ± 0.2	4.90 ± 0.09	2.097	<.05
PCV %	47.7 ± 1.3	34.3 ± 0.84	2.846	<.01
MCV (FL)	90.1 ± 2.7	88.8 ± 1.4	0.427	N.S.
MCHC g%	34.1 ± 0.9	34.4 ± 0.4	0.3.5	N.S.
MCH pg	30.7 ± 1.3	30.8 ± 0.5	0.072	N.S.

Table 6 :

Shows mean values $\pm$ SEM of serum iron (ug/dL) UIBC (ug/dL) and TIBC (ug/dl) in cord blood of both control and anaemis pregnant females. The mean value of serum iron of control group was 200.0 ± 12.4 and of anaemic group was 182.8 ± 11.1 with no statistical difference. The mean value of UIBC of control group was 226.9 ± 20.9 and that of anaemic group was 135.0 ± 18.1 with a highly significant difference ($p < 0.01$) .

For TIBC the mean value of the control group and the anaemic group were 426.8 ± 36.1 and 312.0 ± 19.8 respectively with highly significant difference ($p < 0.01$) .

- Mean values $\pm$ SEM of serum IRON, UIBC and TIBC in cord blood of both control and anaemic pregnant females.

	Control	anaemic	unpaired "t" value	P
Iron ug/dl	200.0 ± 12.4	182.8 ± 11.1	1.034	N.S.
UTBC	226.9 ± 20.9	135.0 ± 18.1	3.324	<.01
TIBC	426.8 ± 36.1	312.0 ± 19.8	2.788	<.01

Table 7 :

Shows the mean values $\pm$ SEM of serum transferrin, saturation and ferritin in cord blood of both control and anaemic pregnant females

The mean value of serum transferrin i cord blood control group was 287.3 ± 8.9 and it was 247.6 ± 12.7 in anaemic group with a significant difference between the two groups ($p < 0.05$) the mean values of transferrin saturation were 49.9 ± 3.5 and 62.2 ± 3.0 respectively with a significant difference between the two groups ($p < 0.05$) .

The mean value of Ferritin in control group was 116.9 ± 14.4 and it was 142.1 ± 13.3 in anaemic group with no significant difference.

- Mean values $\pm$ SEM of serum transferrin transferrin saturation and ferritin incord blood of both control and anaemic pregnant females.

	Control	anaemic	unpaired "t" value	P
Transferrin mg/dL	287.3 ± 8.9	247.6 ± 12.7	2.560	<.05
Transferrin Saturation%	49.9 ± 3.5	62.2 ± 3.0	2.668	<.05
Ferriting ug/dl	116.9 ± 14.4	142.1 ± 13.3	1.286	N.S

Table 8 :

Shows mean values $\pm$ SEM of haemoglobin concentration (g%) red blood cells ($\times 10^{12}/L$), packed cell volum (%), mean cell volume (FL), mean cell haemoglobin concentration (g%) and mean cell haemoglobin (pg). in maternal and cord blood of control group. Statistical analysis of these parameters showed a highly significant increase in cord blood data of haemoglobin, RBC_s and PCV ($P < 0.01$). and showed a significant difference in MCV ($p < .05$), while there was no significant difference in MCHC and MCH.

Table 8. Mean values $\pm$ SEM of Hb, RBCS, PCV , MCV MCHC and MCH of maternal and cord blood in control group.

	Maternal	Cord blood	unpaired "t" value	P
Hb. g%	13.5 $\pm$ 0.2	16.3 $\pm$ 0.57	4.635	<.01
RBCs $\times 10^{12}/L$	4.14 $\pm$ 0.15	5.36 $\pm$ 0.2	4.880	<.01
PCV %	40.4 $\pm$ 0.9	47.7 $\pm$ 1.3	4.617	<.01
MCV (FL)	98.8 $\pm$ 3.2	90.1 $\pm$ 2.7	2.078	<.05
MCHC g%	33.5 $\pm$ 0.4	34.1 $\pm$ 0.9	0.609	N.S
MCH Pg	32.9 $\pm$ 1.1	30.7 $\pm$ 1.3	1.292	N.S.

Table 9. Shows mean values $\pm$ SEM of serum iron (ug/dl) UTBC(ug/dl) and TIBC of both maternal and cord blood in control group. As regards iron the mean value in maternal blood was 111.5 ± 7.8 and in cord blood was 200.0 ± 12.4 with highly significant increase in cord blood iron ($p < 0.0$)

The mean value of UIBC in maternal blood was 359.5 ± 28.0 and in cord blood was 226.9 ± 22.9 with highly significant difference between the two groups ($P < 0.01$) TIBC showed a mean value of 471.0 ± 26.7 in the maternal blood and a mean value of 426.8 ± 36.1 in cord blood with no significant difference.

Table 9. Mean values $\pm$ SEM of serum Iron, UTBC and TIBC of both maternal and cord blood in control group.

	Maternal	Cord blood	unpaired "t" test	P
Iron (ug/dL)	111.5 ± 7.8	200.0 ± 12.4	6.041	<.01
UIBC (ug/dL)	$359.5 \pm 28 .0$	226.9 ± 22.9	3.795	< .01
TIBC (ug/dL)	471.0 ± 26.7	426.8 ± 36.1	0.984	N.S

Table 10.

Shows mean values $\pm$ SEM of haemoglobin concentration (g%) red cell count ($\times 10^{12}/L$) packed cell volume % mean cell volume (FL), mean cell haemoglobin concentration (g%) and mean cell haemoglobin (Pg) of maternal and cord blood in anaemic pregnant females. statistical analysis of the data showed highly significant difference between maternal and cord blood values in haemoglobin concentration, RBCs, PCV, MCV and MCH ($P < 0.01$).

while there was no significant difference in MCHC.

Table 10: Mean values $\pm$ SEM of Hb, RBCs PCV, MCV, MCHC and MCH of maternal and cord blood in anaemic pregnant females

	maternal	cord	unpaired "t" value	P
Hb. g %	10.7 ± 0.2	14.96 ± 0.25	13.306	<.01
RBCs: $\times 10^{12}/L$	3.18 ± 0.09	4.90 ± 0.09	13.514	<.01
PCV %	31.6 ± 0.75	43.3 ± 0.84	19.390	<.01
MCV FL	99.6 ± 2.5	88.8 ± 1.4	3.769	<.01
MCHC g%	34.1 ± 0.5	34.4 ± 0.4	0.469	N.S.
MCH Pg	34.3 ± 0.8	30.8 ± 0.5	3.710	<.01

Table 11.

Shows mean values $\pm$ SEM of serum iron, UIBC and TIBC. of both maternal and cord blood in anaemic pregnant females Iron had a mean values of 71.7 ± 7.9 and of 182.8 ± 11.1 in both maternal and cord blood respectively with a highly significant difference between the two groups. ($P < 0.01$)

As regards UIBC the mean value in maternal blood was 304.4 ± 22.4 and it was 135.0 ± 18.1 in cord blood with highly significant difference ($P < 0.01$).

While TIBC had a mean value of 374.7 ± 25.0 in maternal blood and mean value of 312.0 ± 19.8 in cord blood with no significant difference between the two groups.

Table 11.

Mean values $\pm$ SEM of serum iron, UIBC and TIBC of both maternal and cord blood in anaemic pregnant females

	Maternal	cord blood	unpaired "t" value	P
Iron (ug/dL)	71.7 ± 7.9	182.8 ± 11.1	8.455	<.01
UIBC (ug/dL)	304.4 ± 22.4	135.0 ± 18.1	5.882	<.01
TIBC (ug/dL)	374.7 ± 25.0	312.0 ± 19.8	1.966	N.S.

Table 12 Show mean values $\pm$ SEM of serum Transferrin ,
transferrin saturation and ferritin of both maternal
and cord blood in anaemic pregnant females.

The mean value of transferrin in maternal blood was 395.6 ± 16.8 and it was 247.6 ± 12.7 in cord blood there was highly significant difference between the two means.

The mean values of transferrin saturation were 20.9 ± 2.1 and 62.2 ± 3.0 respectively with highly significant difference ($P < 0.01$)

The mean value of serum ferritin in maternal blood was 24.2 ± 1.4 and it was 142.1 ± 13.3 in cord blood with highly significant difference ($P < 0.01$)

Table 12. Mean values $\pm$ SEM of serum Transferrin, Transferrin Saturation and ferritin of both maternal & cord blood anaemic pregnant females.

	Maternal	cord blood	unpaired "t" value	P
Transferrin (mg/dL)	395.6 ± 16.8	247.6 ± 12.7	7.027	<.01
Transferrin saturation (%)	20.9 ± 2.1	62.2 ± 3.0	11.278	<.01
Ferritin (ug/L)	24.2 ± 1.4	142.1 ± 13.3	8.816	<.01

Table 13. :

shows correlation coefficient "r" between maternal and cord blood levels of all studied parameters. There were no significant correlation in both groups for iron, UIBC, TIBC, Transferrin and transferrin saturation. As regards ferritin there was a significant correlation between maternal and cord blood in anaemic pregnant females ($P < 0.05$) while there was no significant in control group.

Table 13.

Correlation coefficient "r" between maternal & cord blood levels of the studied parameters

		Anamic	Control
Iron	r	0.1991	0.3247
	p	N.S.	N.S.
UIBC	r	-0.1666	-0.1904
	p	N.S.	N.S.
TIBC	r	-0.0587	0.0171
	p	N.S.	N.S.
Transferrin	r	0.2214	-0.2284
	p	N.S.	N.S.
Transferrin saturation	r	-0.0551	-0.1996
	p	N.S.	N.S.
Ferritin	r	0.3676	-0.0822
	p	< 0.05	N.S.

Table 14 shows correlation coefficient "r" between cord iron values and each of maternal Hb, and TIBC in control and anaemic groups.

There was significant correlation between iron and Hb in control group $P < 0.05$ while there was no significance for anaemic group. Rest of data showed no significance.

Table 14: Correlation coefficient "r" between cord Iron values and each of Maternal Hb, & T.I.B.C. in control and anaemic groups .

Cord Iron		Maternal	
		Hb	TIBC
Control	r	0.5804	0.4798
	p	<0.05	N.S
Anaemic	r	0.0156	0.0647
	p	N.S.	N.S

N.S. Not significant

Table 15 : shows correlation coefficient "r" between maternal ferritin (up to 20 ug/l and each of cord iron, Hb, Transferrin saturation and ferritin in control and anaemic groups.

no significant correlation was seen between ferritin and any of these parameters in both groups.

Table 15 Correlation coefficient "r" between Maternal Ferritin (up to 20 ug/l and each of cord iron, Hb, transferrin saturation ferritin in control and anaemic groups.

Maternal Ferritin		Cord			
		Iron	Hb	Trans Sat.	Ferritin
Control	r	-0.1584	-0.1121	0.1060	-0.3356
	p	N.S	N.S	N.S	N.S
Anaemic	r	-0.2181	-0.2398	0.2013	-0.2637
	p	N.S.	N.S	N.S	N.S

Table 16: Shows correlation coefficient " r " between maternal ferritin (more than 20)ug/L and each of cord iron,Hb, transferrin saturation and ferritin in control and anaemic groups. There was no significant correlation between ferritin and any of the other parameters in both groups.

Table : 16) Correlation coefficient " r " between Maternal ferritin (more than 20)ug/L and each of cord iron, Hb, Transferrin saturation and ferritin in control and anaemic groups.

Maternal Ferritin		Cord			
		Iron	Hb	Transferrin saturation	Ferritin
Control	r	0.1063	-0.4194	0.3351	-0.0609
	p	N.S.	N-S.	N.s.	N.s.
Anaemic	r	0 .0415	0.0147	-0.2578	0.2934
	p	N.S.	N.S	N.S	N.S

Table 17 : Shows correlation coefficient between maternal HB (all cases. & up to 10 mg/dl) with cord HB in control and anaemic groups.

There was an significant correlation between maternal & cordhaemoglobins for all cases in anaemic group .

while there was no significace in rest of data .

Table 17: Correlation coefficient " r " between maternal Hb%
(All cases & up to 10 gm/dl) with cord Hb in studied groups.

Maternal Hb %	Cord Hb	
	Control	Anaemic
All Cases r	0.2754	0.4932
p	N.S.	<.01
Up To r		0.3241
10 g/dl p		N.S.

Table (18)

. Shows correlation coefficient (r)

between maternal Hb% and difference between individual values of maternal and cord iron, transferrin and ferritin and between each other. There was a significant correlation only between maternal Hb% and the difference between maternal and cord blood ferritin $P < 0.05$. No significant correlations were found in the study of the other data.

Table 18 : Correlation coefficient "r" between Maternal difference between individual values of maternal and cord iron, transferrin and ferritin and between each other.

		Iron	Transf	Ferritin
Maternal Hb.	r	- 0.1276	0.0805	-0.3974
	p	N.S.	N.S	<.05
Iron	r		0.1362	-0.2460
	p		N.S	N.S
Transferrin	r			0.0330
	p			N.S.

N.S. Not significant

<.05 significant

SER	IRON	UIBC	TIBC	TRANSF	TRANSAT	FERRIT	HB	RBCS	PCV	MCV	MCH	MCHC
1	84	223	307	483	27	12	13.6	3.95	40	101	34	34
2	84	441	525	344	16	35	13	4.59	39	85	33	28
3	101	435	536	214	18	29	14.9	4.2	42	100	35	35
4	96	184	280	483	34	19	12.8	3.1	36	116	36	41
5	98	446	535	441	17	32	12.4	3.2	38	118	33	39
6	168	177	345	521	48	13	13.2	4.52	40	88	33	29
7	156	340	496	441	31	25	14.3	5.01	42	84	34	29
8	150	502	652	344	23	30	13.8	4.55	40	88	35	30
9	111	268	379	370	29	15	13.2	4.58	40	87	33	29
10	103	402	505	433	21	55	13	3.9	40	103	33	33
11	156	284	440	483	35	38	12.8	3.56	38	107	34	36
12	95	486	581	441	16	45	15	4.2	50	119	30	36
13	78	446	524	483	15	58	12.8	3.45	37	107	35	37
14	95	402	497	521	19	17	14.1	4.52	40	98	31	
15	106	357	463	441	23	15	13.1	2.6	44	91	30	27
16	84	374	374	414	21	24	13.3	4.27	40	93	33	31
17	92	531	531	277	17	30	13.9	4.4	40	93	34	31.5
18	90	408	408	347	26	24	13.9	3.7	39	105	35	37.5
19	93	408	408	462	462	26	26	12.6	3.2	37	115	39.3
20	129	440	440	489	32	33	12.8	3.7	39	105	33	34.5
21	160	421	401	489	40	19	13.7	4.8	41.	85	33	28.5
22	153	574	574	393	27	28	14	4.78	41	86	34	29
23	130	510	516	327	31	23	13.5	4.56	40	88	34	29
24	107	442	442	407	25	30	13.1	4.2	40	95	33	31
25	130	473	473	458	28	40	12.9	3.7	39	105	33	34
26	126	501	501	462	25	42	13.9	3.88	44	113	32	36
27	86	553	553	462	16	52	13.9	3.88	43.	112	33	36
28	86	511	511	502	17	38	13.5	3.98	39	91	35	34
29	90	480	480	484	21	16	13.6	56	42	82	33	30
$\bar{x}$	111.5	359.5	471.0	429.3	24.8	29.2	13.5	4.14	4.04			
SD	30.2	108.4	103.5	82.4	9.3	14.9	0.8	0.59				
SE	7.8	28.0	26.7	21.3	2.4	3.8	0.2	0.15				

MATERNAL BLOOD DATA CONTROL GROUP

SER	IRON	UIBC	TIBC	TRANSF	TRANSAT	FERRIT	HB	RBCS	PCV	MCV	MCH	MCHC
1	189	340	619	273	31	18	10	2.88	27	94	34	37
2	131	120	251	239	52	25	10.5	3.88	34	88	27	31
3	153	344	497	521	521	31	5	11.9	3.2	36	113	33
4	55	117	172	181	32	43	9	2.87	22	77	31	41
5	56	393	449	554	12	16	10.7	2.8	30	107	38	36
6	45	82	127	521	35	30	8.3	2.5	20	80	33	42
7	72	474	496	370	14	30	11	3.2	35	109	34	31
8	35	455	490	273	7	26	11.8	3.24	32	99	36	37
9	181	445	626	441	29	26	11.4	2.88	36	125	40	32
10	117	134	251	408	47	14	10.6	3.85	34	88	28	31
11	40	321	361	370	11	35	11.7	3.2	36	113	37	33
12	52	450	502	521	10	28	11	3.88	31	80	28	35
13	42	62	104	521	40	12	11.2	3.69	33	89	30	34
14	48	458	506	273	9	19	11.5	3.6	36	100	32	32
15	47	370	417	344	11	26	11	3.82	34	89	29	32
16	45	367	412	441	11	18	9.2	2.5	26	104	37	35
17	168	450	618	521	27	27	11.5	2.6	34	131	44	34
18	25	83	108	483	23	20	11	2.81	30	107	39	37
19	33	309	342	441	10	31	7	2	20	100	35	35
20	31	136	167	302	18	18	10.5	3.88	34	88	27	31
21	30	432	462	370	6	23	8.7	2.86	24	84	30	36
22	70	80	150	302	46	20	10.7	2.52	30	119	42	36
23	79	350	429	210	18	27	11.9	3.4	34	100	35	35
24	30	301	331	441	9	18	11.7	2.8	33	69	41	35
25	42	441	483	344	9	17	10	2.5	32	128	40	31
26	74	189	263	483	28	20	11	3.8	33	100	33	33
27	37	200	237	441	16	17	11.9	3.35	36	107	36	33
28	100	285	385	344	26	22	11	2.75	31	113	40	35
29	50	130	180	483	27	28	11.9	3.32	36	108	36	33
30	83	340	513	521	16	20	9.6	2.9	30	103	33	32
31	60	345	405	441	14	42	11.8	3.5	34	97	34	35
32	27	391	418	344	6	17	9.5	2.9	30	103	33	32
33	45	323	368	298	12	28	11.4	3.85	30	78	30	38
34	139	347	486	483	29	37	11.5	4.08	34	88	28	34
35	128	391	519	370	25	38	11.9	3.33	36	108	33	30
36	22	324	346	370	6	31	11.1	3.48	36	103	32	31
X	71.7	304.4	374.7	395.6	20.9	29.2	10.7	3.18	31.6	99.6	34.3	34.1
SD	47.6	134.4	150.2	100.5	12.7	8.3	1.2	0.52	4.52	14.6	4.5	2.6
SE	7.9	22.4	25.0	16.8	2.1	1.4	0.2	0.09	0.75	2.5	0.8	0.5

MATERNEL BLOOD DATA ANAEMIC GROUP

SER	IRON	TIBC	UIBC	TRANSF	TRANSAT	FERRIT	HB	RBCS	PCV	MCV	MCH	MCHC
1	143	611	468	298	23	113	14.9	4.8	47	98	32	31
2	159	325	166	235	49	36	16.7	5.9	52	88	32	28
3	246	457	211	323	54	125	15.9	5.6	45	80	35	28
4	137	500	363	239	27	65	14	3.8	42	111	33	37
5	128	226	98	256	57	135	14.6	5.8	46	79	32	25
6	195	418	223	344	47	185	15.3	3.8	42	111	36	40
7	268	681	413	323	39	180	15.8	5.5	46	83	34	29
8	207	557	350	298	37	175	22.9	5.5	54	99	42	42
9	156	234	78	323	66	70	18.5	5.9	50	84	37	31
10	237	443	206	298	53	116	14.3	5.2	42	81	34	28
11	212	312	100	256	67	38	16.2	5.9	52	88	31	27
12	268	582	314	298	46	45	16.8	6.4	60	94	28	26
13	212	385	173	277	55	186	14.4	5	44	88	33	29
14	181	275	94	244	65	175	16.5	5.2	44	85	38	32
15	251	396	145	298	63	110	17	6.1	50	82	34	28
16	151	493	266	266	36	74	15.8	5.4	49	91	32	29
17	202	391	279	279	51.5	81	16.2	5.7	48	84	34	28
18	192	479	281	281	40.5	95	16.3	4.7	44	94	37	34
19	133	363	247	247	42	100	14.9	4.8	44	92	34	31
20	161	322	300	300	52	182	14.3	4.8	44	92	33	30
21	231	549	334	334	43	178	14.9	4.6	44	96	34	32
22	238	619	311	311	38	122	15.5	5.5	50	91	31	28
23	181	396	309	309	51.5	93	19.3	5.7	52	91	37	33
24	197	338	312	312	59.5	42	20.7	6.1	56	92	37	34
25	225	388	276	276	60	180	16.4	5.5	47	85	35	30
26	240	447	278	278	56.5	142	15.2	5.5	46	85	33	28
27	240	487	287	287	50.5	160	16.5	5.7	52	84	32	29
28	196	330	260	266	60	77	15.6	5.1	44	91	33	30
29	216	335	271	271	64	116	15.4	5.6	47	86	33	27
$\bar{x}$	200	426.8	226.9	287.3	49.9	116.9	16.3	5.36				
SD	47.9	139.6	125.5	34.5	13.7	55.7	2.5	0.76				
SE	12.4	36.1	20.9	8.9	3.5	14.4	0.57	0.2				

CORD BLOOD DATA CONTROL GROUP

SER	IRON	UIBC	TIBC	TRANSF	TRANSAT	FERRIT	HB	RBCS	PCV	MCV	MCH	MCHC
1	202	162	364	214	55	160	14.4	4.9	38	78	38	29
2	177	214	214	235	83	65	14.3	4.86	41	84	36	31
3	155	500	500	172	31	190	16.6	4.02	43	107	39	41
4	116	136	136	172	85	410	16	5.5	44	80	36	29
5	329	372	372	302	88	110	15.7	5.2	48	92	33	30
6	276	388	388	235	71	240	15.3	5	44	88	35	31
7	221	349	349	181	63	100	15	5.3	48	91	31	28
8	152	198	198	214	76	45	15.6	5.2	42	80	37	30
9	210	272	272	302	77	145	18.8	5.2	50	96	38	36
10	234	368	368	298	63	95	15	5	45	90	33	30
11	97	118	118	193	82	165	14.3	4.3	43	100	33	33
12	192	407	407	256	47	265	15.6	5.4	42	78	37	29
13	195	569	569	370	34	34	15.9	4.84	42	87	38	33
14	137	245	245	277	56	145	15.8	5.76	48	88	33	27
15	129	180	180	251	71	245	13	4.06	38	94	34	32
16	162	187	187	193	86	90	16.1	4.8	43	90	33	34
17	218	267	267	273	82	97	16	5.9	48	81	31	27
18	100	334	334	273	30	65	18.4	5.2	60	115	35	35
19	150	190	190	193	79	300	12.7	4.22	36	85	33	30
20	143	291	291	239	49	105	13	4.8	40	83	33	27
21	108	157	157	520	69	160	14	4.5	42	93	31	33
22	170	416	416	210	41	80	14	4	37	93	34	31
23	79	128	128	126	62	230	13	4	38	95	32	34
24	100	222	222	126	45	118	13	4.4	36	82	36	30
25	258	368	368	277	70	100	13.6	4.4	40	91	34	31
26	173	242	242	277	71	105	15	4.8	42	88	36	31
27	170	420	420	256	40	170	15	4.5	44	98	34	33
28	145	172	172	277	83	185	14.6	5.4	45	88	32	27
29	329	369	369	193	89	125	14.6	5	42	84	35	29
30	180	410	410	344	44	120	14.4	5.8	50	86	33	28
31	125	265	265	323	47	135	13.7	4	40	100	34	34
32	162	322	322	325	50	152	16.5	5.6	50	89	33	29
33	145	385	385	295	38	65	18.4	4.83	37	77	36	27
34	273	486	486	172	56	78	16	5.01	42	84	38	32
35	240	519	519	210	46	187	14.8	4.81	41	86	36	31
36	329	402	402	239	81	36	14.6	5.9	50	85	29	25

$\bar{x}$	182.8	135.0	312.0	247.6	62.2	142.1	14.96
SD	66.6	108.7	118.7	76.3	18.2	79.1	1.5
SE	11.1	18.8	19.8	12.7	3.0	13.3	0.25

CORD BLOOD DATA ANAEMIC GROUP