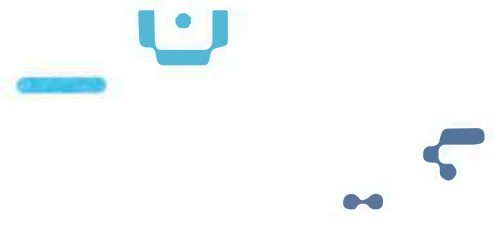




Test Type	Reference Interval				
1 Full Blood Count					
HAEMOGLOBIN					
Age	Gender	Lower limit	Upper limit	Unit	
>11 years old	Male	13.5	18.0	g/dL	
	Female	11.5	16.5	g/dL	
>5-11 years old	Male/ Female	10.8	15.6	g/dL	
>3-5 years old	Male/ Female	10.7	14.7	g/dL	
>14 months-3years	Male/ Female	10.8	12.8	g/dL	
>10 months - 14 months	Male/ Female	10.7	13.1	g/dL	
>7 months - 10 months	Male/ Female	10.5	12.9	g/dL	
>4 months - 7 months	Male/ Female	10.1	12.9	g/dL	
>3 months - 4 months	Male/ Female	9.6	12.8	g/dL	
51 days - 3 months	Male/ Female	9.2	13.6	g/dL	
38 days - 50 days	Male/ Female	9.0	16.6	g/dL	
24 days - 37 days	Male/ Female	10.3	17.9	g/dL	
7 days - 23 days	Male/ Female	12.7	18.7	g/dL	
2 days - 6 days	Male/ Female	15.0	24.6	g/dL	
<= 1 day	Male/ Female	15.2	23.6	g/dL	
HAEMATOCRIT(%)					
>11 years old	Male	40	54	%	0.40-0.50
	Female	36	47	%	0.36-0.50
>5-11 years old	Male/Female	33	45	%	0.33-0.45
>3-5 years old	Male/Female	31	43	%	0.31-0.43
>7 months-3years	Male/Female	35	43	%	0.35-0.43
>4 months - 7 months	Male/Female	32	44	%	0.32-0.44
>3 months - 4 months	Male/Female	31	43	%	0.31-0.43
>2 months - 3 months	Male/Female	30	46	%	0.30-0.46
>1 months - 2 months	Male/Female	30	54	%	0.30-0.54
24 days - 1 month	Male/Female	31	59	%	0.31-0.59
15 days - 23 days	Male/Female	42	62	%	0.42-0.62
7 days - 14 days	Male/Female	41	65	%	0.41-0.65
2 days - 6 days	Male/Female	50	82	%	0.50-0.82
<= 1 day	Male/Female	44	72	%	0.44-0.72
HAEMATOCRIT(PCV)					
RBC					
>11 years old	Male	4.5	6.5	x 10 ¹² /L	
	Female	3.9	5.6	x 10 ¹² /L	
>5-11 years old	Male/Female	3.8	5.8	x 10 ¹² /L	
>3-5 years old	Male/Female	3.7	5.7	x 10 ¹² /L	



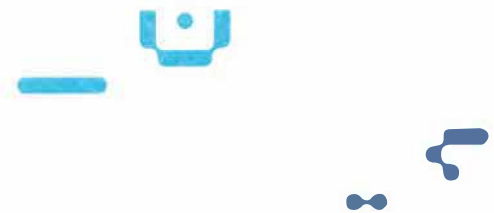
>7 months-3years	Male/Female	3.6	5.2	$\times 10^{12}/L$
>4 months - 7 months	Male/Female	3.2	5.2	$\times 10^{12}/L$
>3 months - 4 months	Male/Female	3.1	4.7	$\times 10^{12}/L$
>2 months - 3 months	Male/Female	2.8	4.8	$\times 10^{12}/L$
>1 month - 2 months	Male/Female	3.1	5.1	$\times 10^{12}/L$
24 days - 1 month	Male/Female	3.2	5.6	$\times 10^{12}/L$
15 days - 23 days	Male/Female	3.7	6.1	$\times 10^{12}/L$
7 days - 14 days	Male/Female	3.9	5.9	$\times 10^{12}/L$
2 days - 6 days	Male/Female	4.0	6.8	$\times 10^{12}/L$
≤ 1 day	Male/Female	4.3	6.3	$\times 10^{12}/L$

MCV

>10years	Male/Female	78	98	fL
>5years -10 years	Male/Female	69	93	fL
>3 years- 5 years	Male/Female	72	88	fL
>18 months -3 years	Male/Female	73	101	fL
>10 months -18 months	Male/Female	74	102	fL
>7 months - 10 months	Male/Female	74	106	fL
106 days - 7 months	Male/Female	73	109	fL
76 days - 105 days	Male/Female	77	113	fL
51 days - 75 days	Male/Female	81	121	fL
38 days - 50 days	Male/Female	81	125	fL
24 days - 37 days	Male/Female	82	126	fL
15 days - 23 days	Male/Female	84	128	fL
7 days - 14 days	Male/Female	88	140	fL
2 days - 6 days	Male/Female	94	150	fL
≤ 1 day	Male/Female	98	122	fL

MCH

>10years	Male/Female	27	32	pg
>5years -10 years	Male/Female	22	34	pg
>10 months -5years	Male/Female	23	31	pg
106 days - 10 months	Male/Female	21	33	pg
76 days - 105 days	Male/Female	23	36	pg
51 days - 75 days	Male/Female	24	36	pg
38 days - 50 days	Male/Female	25	37	pg
7 days - 37 days	Male/Female	26	38	pg
2 days - 6 days	Male/Female	29	45	pg
≤ 1 day	Male/Female	33	41	pg



MCHC

>11years	Male/Female	31	36	g/dL
>3 years- 11 years	Male/Female	32	36	g/dL
>18 months -3years	Male/Female	26	34	g/dL
>7 months - 18 months	Male/Female	28	32	g/dL
38 days - 7 months	Male/Female	26	34	g/dL
24 days - 37 days	Male/Female	25	37	g/dL
7 days - 23 days	Male/Female	26	34	g/dL
2 days - 6 days	Male/Female	24	36	g/dL
<= 1 day	Male/Female	31	35	g/dL

RDW

>24 weeks	Male/Female	11.0	15.5	%
<=24 week	Male/Female	14.9	18.7	%

PLATELETS	Male/Female	140	440	$\times 10^9/L$
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TOTAL WHITE BLOOD CELL

>12years	Male/Female	4.0	11.0	$\times 10^9/L$
>8years- 12 years	Male/Female	4.0	12.0	$\times 10^9/L$
>1 year - 8 years	Male/Female	6.0	13.5	$\times 10^9/L$
32 days- 1 year	Male/Female	6.0	15.0	$\times 10^9/L$
7 days - 31 days	Male/Female	5.0	19.5	$\times 10^9/L$
<= 6 days	Male/Female	9.0	30.0	$\times 10^9/L$

Neutrophils (Absolute Count)

>12years	Male/Female	1.6	6.9	$\times 10^9/L$
>7years- 12 years	Male/Female	1.8	7.0	$\times 10^9/L$
>1 year- 7 years	Male/Female	1.5	7.0	$\times 10^9/L$
>3 months - 1 year	Male/Female	1.0	5.5	$\times 10^9/L$
<= 3 months	Male/Female	1.0	6.1	$\times 10^9/L$

Lymphocytes (Absolute Count)

>12years	Male/Female	1.2	3.9	$\times 10^9/L$
>11 years - 12 years	Male/Female	1.5	6.5	$\times 10^9/L$
>6 years- 11 years	Male/Female	2.0	7.8	$\times 10^9/L$
>3 years - 6 years	Male/Female	2.1	8.3	$\times 10^9/L$
>3 months - 3 years	Male/Female	2.1	7.7	$\times 10^9/L$

<= 3 months	Male/Female	2.1	8.3	$\times 10^9/L$
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Monocytes (Absolute Count)

> 6 years	Male/Female	0.1	0.8	$\times 10^9/L$
up to 6 years	Male/Female	0.1	1.0	$\times 10^9/L$

Eosinophils (Absolute Count)

> 9 years	Male/Female	-	<0.61	$\times 10^9/L$
up to 9 years	Male/Female	0.05	0.7	$\times 10^9/L$

<u>Basophils (Absolute Count)</u>	Male/Female	-	<0.20	$\times 10^9/L$
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2 Reticulocytes Count

		Percent
<31 DAYS	Male/Female	2.5-6.5%
>31DAYS-< 999 YEARS	Male/Female	0.2-2.0%

Absolute Count

<3 MONTHS	Male/Female	7.2-104.0 $\times 10^9/L$
>3 MONTHS-< 7 YEARS	Male/Female	8.0-102.0 $\times 10^9/L$
>7 YEARS-< 12 YEARS	Male/Female	8.2-104.0 $\times 10^9/L$
>12YEARS-< 999 YEARS	Male	9.0-126.0 $\times 10^9/L$
	Female	7.2-108.0 $\times 10^9/L$

3 ESR

			Unit
</=50 years old	Male	-	< 16 mm/hr
	Female	-	<21 mm/hr
>50 years old	Male	-	<21 mm/hr
	Female	-	<31 mm/hr

4 HbA1c

		%
Screening Ranges		Therapeutic Ranges
Low risk of diabetes:	≤ 6.0	Ideal : 4.5 to 6.4
Proceed to FPG or OGTT:	6.1 to 6.9	Optimal: 6.5 to 7.0
High risk of diabetes:	≥ 7.0	Sub-optimal: 7.1 to 8.0
		Unacceptable: > 8.0



5 Coagulation

APTT 22-39 seconds

PT (screening) 8-12 seconds

INR recommended Therapeutic Ranges:

Therapeutic ranges for INR may vary depending on the indication of oral anticoagulant therapy.

<u>INR Range</u>	<u>Indication</u>
2.0 – 3.0	Treatment of venous thrombosis Treatment of pulmonary embolus Prophylaxis against venous thrombosis or systemic embolization.
2.5 – 3.5	High-risk patient with mechanical heart values.

Fibrinogen 150 - 400 mg/dL

Thrombin Clotting Time TCT (TT) 15 - 22 Sec

Lupus Anticoagulant (LUPAC) Not Detected

6 Hb Electrophoresis

HbA2 2.1 – 3.3%

HbF <1.4%

7 Malaria Parasites No Malarial Parasite Seen

8 Microfilaria No Microfilaria seen