

Blood Test Report

	Fasting	Normal values		Observation
Complete Blood Count (CBC)	Fasting not essential			
RBC (Erythrocytes)	No	M-4.5-6.4 F-4.0-5.4	Mil. / c. mm	If less: anemia
Haemoglobin	No	M-14-18 F-12-16.4	Gm / 100 ml	
PCV (RBC)	No	M-42-52 F-37-47	%	
MCV (Mean corpuscles volume)	No	78-94	Fl. Cu	Type of anemia
MCH	No	27-32		
MCHC	No	32-38	Gms/dl %	
WBV (Leucocytes)	No	4000- 11000	Per c. mm	If less-susceptibility to infection
				If very high in Lacs- Leukemia
Differential WBC count	No		%	
Neutrophils		60-75		If more-acute infection
Lymphocytes		20-30		If more-chronic infection
Monocytes		2-8		If more-T.B. Typhoid, urinary infection
Eosinophils		1-6		If more-allergy, cough, cold, asthma, and worms.
Basophils		0-1		Led poisoning, Leukemia
Abnormal cells				
Platelets	No	150000- 450000	Cu. Mm	If less-bleeding disorder, dengue,
Peripheral smear	No			
Morphology of:				
RBC	No	Normochromic /Hypochromic / Anisocytosis		
Observation		Normal / Anaemia /size of RBC differs		
WBC	No			
Blood Parasites	No			MP, Filaria
Reticulocytes	No	0.5-1.5 / 0.2-2.2		If more-anemia
Color Index	No	0.85-1.15		
In bacterial infection with fever, WBC count goes up. E.g. Tonsillitis, sinusitis, bronchitis, Pneumonia, appendicitis, urinary infection ---12000-25000 WBC, In Typhoid & viral infection – WBC may be normal.				

Erythrocyte Sedimentation Rate (ESR)	Minimum 8 hrs	M-0-15 F-0-20	Mm at end of 1 hour	>80-90:Chronic disease, TB
If ESR of a patient under treatment shows decline trend, it indicates success of treatment. In Pregnancy –ESR exceeds 40-50, ESR >40 needs close scrutiny.				
Do not drink water during 10-12 hours before blood test.				
Fasting Blood Sugar	10-12 hours			
Normal		<120	Mg/dl	
Border line diabetes		120-140	Mg/dl	Diabetes
Established diabetes		>140	Mg/dl	Thyroid
Post Prandial (PP) Blood Sugar	2 hours after lunch			
Normal		<120	Mg/dl	
Border line diabetes		120-140	Mg/dl	Diabetes
Established diabetes		>140	Mg/dl	Thyroid
Blood-Glucose Level Maximum Value	Glucose level is maximum 1 hour after meals.			
Normal		<160		
Border line diabetes		160-180		
Established diabetes		>200		
Blood sugar method: Glucose Oxidase				
Glycosylated Haemoglobin	Glucose level in last 3 months i.e. life cycle of RBC			
	10-12 hours			
		6.1 ---8.6	%	
		4.2 – 6.2		Best control
		5.5---- 6.8		Good Control
		6.8 ----7.6		O K Control
		>7.6		Poor control
Kidney Tests	8 hours			
Blood Urea		0-40	Mg/dl	Acute & chronic Renal failure
BUN-Blood Urea Nitrogen		0-18	Mg/dl	
Serum Uric acid		3-5.7		If more—Gout
Serum Creatinine		0.5 – 1.4	Mg/dl	RF > 18 Renal failure
Routine urine for albumin		Nil to trace		Proteins in urine
24 hours albumin in the urine		150	Mg/24 hours	

Lipid Profile	14-16 Hours		Mgs/dl 100 ml	
S. Cholesterol		150-250		
S. HDL		M-30-60 F- 40-70		
S. LDL		60-160		
S.VLDL		3-35		
S. Triglycerides		60-150		
Total Cholesterol / HDL		< 4.5		
Liver Function Tests	12 hrs			
Serum Bilirubin		0.2 –1	Mg/ 100 ml	If more-Jaundice
SGOT		8-40	Units/ ml	
Increases 6-8 hrs after heart attack.		Becomes normal in 4 days after heart attack.		
SGPT		5-35	-do-	
Alkaline Phosphatase		60-170	-do-	If more-liver, cancer Jaundice, Bone problems.
Gamma GT		8-37	-do-	
Serum Mayo globlin		6-90 nano grm	Increases 2 hrs after HA. >500	
Troponin (card test done in 5 min)			Increases 2 hrs after HA	
CPK-MB			Increases 4 hrs after HA. Remains high for 48 hrs. Normal after 3-4 days.	
LDH (enzyme)			Remains high for 7 days.	
Homosystain	12 hrs		If more, arteries have become rigid / lost elasticity.	
PH Test		+ /- 6.5	Acidic condition of blood	
R A Factor Test	10			If + Rheumatoid Arthritis
Serum Electrolytes				
S. Sodium		135-145	M Eq / L	If less: nausea, disorder of muscles / If more-water is retained in body
S. Potassium		3.5 –5.5	M Eq / L	Weakness of muscles If more-heart disease If less-blood circulation problem
S. Chlorides		96-106	M Eq / L	If more-RF, If less- Diarrhea
S. Magnesium				If less-heart ailments, bones, teeth &

