

TEST REPORT

Lab. Id :		Reg. Date :	11-Jan-2024 / 11:38 AM
Name :		Collection :	11-Jan-2024 / 11:39 AM
Age/Gender :	42Y-1D / Female	Received :	11-Jan-2024 / 14:43 PM
Collected At :		Report :	11-Jan-2024 / 15:16 PM
Referral Dr :	-	Print :	11-Jan-2024 / 16:09 PM
Bed :			
		Report Status :	Final

Haematology

Investigation	Observed Value	Unit	Biological Ref. Interval	Specimen
COMPLETE BLOOD COUNT				
RBC Parameters				
Haemoglobin <small>Method:Photometry</small>	13.1	gm/dl	12.0-15.0 g/dL	K2EDTA WB
RBC Count <small>Method:Electrical Impedance/Flowcytometry</small>	4.5	mill/ul	3.7-4.8 mil/cmm	K2EDTA WB
PCV <small>Method:Calculated</small>	41.6	%	36-46	K2EDTA WB
MCV <small>Method:Calculated</small>	91.0	fl	80-99	K2EDTA WB
MCH <small>Method:Calculated</small>	28.6	pg	27.0-33.5	K2EDTA WB
MCHC <small>Method:Calculated</small>	31.5	g/dL	31.5-36.0	K2EDTA WB
RDW-CV <small>Method:Calculated</small>	12.5	%	11.6-14.0	K2EDTA WB
WBC Parameters				
Total WBC Count <small>Method:Electrical Impedance/Flowcytometry</small>	<u>13340</u>	/cmm	4000-11000	K2EDTA WB
WBC Differential				
Neutrophils <small>Method:Calculated</small>	60.0	%	40-80	K2EDTA WB
Lymphocytes <small>Method:Calculated</small>	30.7	%	20-45	K2EDTA WB
Monocytes <small>Method:Calculated</small>	4.8	%	2-10	K2EDTA WB
Eosinophils <small>Method:Calculated</small>	4.1	%	1-6	K2EDTA WB
Basophils <small>Method:Calculated</small>	0.4	%	0-2	K2EDTA WB
Absolute Counts				
Absolute Neutrophils <small>Method:Measured</small>	8000	/cmm	1700-8800	K2EDTA WB
Absolute Lymphocytes <small>Method:Measured</small>	3840	/cmm	1100-4500	K2EDTA WB

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Absolute Monocytes Method:Calculated	640	/cmm	100-1000	K2EDTA WB
Absolute Eosinophils Method:Measured	<u>550</u>	/cmm	20-500	K2EDTA WB
Absolute Basophils Method:Measured	50	/cmm	0-200	K2EDTA WB
Platelet Parameters				
Platelet Count Method:Electrical Impedance/Flowcytometry	<u>528000</u>	/cmm	150000-400000	K2EDTA WB
MPV Method:Calculated	8.5	fl	6-10	K2EDTA WB

Comments:

- A complete blood count (CBC) is a blood test which measures several cellular components of blood and is used to evaluate overall health and detect a wide range of disorders.
- It is used to determine one's general health status; to screen for, diagnose, or monitor a variety of diseases and conditions that affect blood cells, such as anemia, infection, inflammation, bleeding disorder or cancer.
- A decrease in hemoglobin levels/ RBC count lower than the normal reference range for the given age can signify anemia. Further investigation with iron studies, vitamin B12 and folic acid levels will help in determining the cause and assist in further treatment. Red cell indices help in classification of anaemia and give a clue to their etiology. An increase in haemoglobin level may signify polycythemia, dehydration and is often seen in smokers.
- White blood cell (WBC) counts and their differential counts (DC) are used to diagnose infections(bacterial/viral), allergies, inflammatory conditions and leukemias.
- Platelets help in clotting of blood, any substantial decrease may increase the risk of bleeding

Note

The differential leucocyte counts are additionally being reported as absolute numbers of each cell in per unit volume of blood as per the recommendation of International council for Standardization in Hematology.



Verified By: 171886

MBBS MD (Pathology)
Specialist

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Haematology

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ERYTHROCYTE SEDIMENTATION RATE

ESR 31 mm/hr 0-12 Whole Blood

Method: Photometric capillary stopped flow kinetic analysis

Comments:

Erythrocyte sedimentation rate (ESR), is a blood test that detects non-specific inflammatory activity in the body. It is not a stand-alone diagnostic tool but can be used to help diagnose or monitor the progress of an inflammatory disease.

- It helps to detect the presence of inflammation caused by one or more conditions such as infections, tumors or autoimmune diseases.
- It is useful for diagnosing and monitoring of specific conditions such as temporal arteritis, systemic vasculitis, polymyalgia rheumatica, or rheumatoid arthritis where the levels are significantly increased.
- Values are low in polycythaemia, hyperleukocytosis, hypofibrinogenaemia and congestive cardiac failure and when there are abnormalities of the red cells such as poikilocytosis, spherocytosis, or sickle cells is present.
- It is influenced by age, sex, stage of the menstrual cycle, pregnancy and medications taken (corticosteroids, contraceptive pills).

Note- ESR is best interpreted when test is carried out on a fasting blood and needs to be clinically correlated.

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Biochemistry

Investigation	Observed Value	Unit	Biological Ref. Interval	Specimen
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CA-125 OVARIAN CANCER MARKER

CA-125	27.0	U/ml	< 30.2	Serum
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Method:CLIA

Comments:

Cancer Antigen 125(MUC16) is a glycoprotein antigen used as a biomarker to detect some types of cancers. It is a component of ocular surface (cornea & conjunctiva), respiratory and female reproductive tract epithelium. It is used to monitor therapeutic efficacy post cancer treatment and detecting familial cancer incidences in some cancers.

High levels are seen in:

1. Cancers such as Mesothelioma, Ovarian surface epithelial cancers, Peritoneal cancer, Squamous cell carcinoma
2. Non-cancerous condition such as Dry eye, cystic fibrosis, menstruation, fibroids

Limitations:

Not used as a screening method for cancer detection generally but in some cases with family history and genetic risk factors.

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Verified By: 221344

PhD (Medical Biochemistry)
Consultant

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Biochemistry

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C- REACTIVE PROTEIN(CRP) <small>Method:Latex enhanced Immunoturbidimetric</small>	<u>1.02</u>	mg/dl	<0.5	Serum

Remarks: Kindly correlate clinically.

Comments:

c-Reactive Protein, an acute phase reactant, is a pentameric protein found in blood and whose circulating concentrations increase following an inflammatory reaction. It binds to lysophosphatidylcholine expressed on the surface of dead or dying cells and some strains of bacteria. This binding then activates the complement system and promotes phagocytosis by macrophages to clear the dead cells/bacteria.

CRP plays a role in innate immunity as an early defense system against infections.

CRP level (hsCRP or high sensitivity CRP) is an independent risk factor for atherosclerotic disease, hence used as a risk factor for cardiovascular disease (stroke, myocardial infarction and peripheral vascular disease).

Elevated levels are also seen in IBD, colon cancer, obstructive sleep apnoea, avian influenza etc.

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Verified By: 221344

PhD (Medical Biochemistry)
Consultant

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