

Sample Collection Date 09-03-2021 13:22 DDL Center Dr.Dangs Lab
Lab Ref. No. 210049581
Name MS. DEEPIKA JINDAL Age / Sex 56 Years / FEMALE

Test (Methodology) Result Biological Reference Interval

HAEMATOLOGY**ERYTHROCYTE SEDIMENTATION RATE**

E.S.R.WESTERGREN [Automated]

5 mm 1st Hr

0 - 30

**** End of HAEMATOLOGY Report ****

DR. MANIK AGARWAL
M.D. (PATHOLOGY)
(Authorised Signatory)

Authentication : 09-03-2021 15:04
Printed on : 09-03-2021 16:40



DR. SONAL JAIN
D.M. (Hematology, A.I.I.M.S.)
(Head Hematology)

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HAEMATOLOGY

COMPLETE BLOOD COUNT

HAEMOGLOBIN	12.7 g/dL	11 - 15
TOTAL LEUCOCYTE COUNT	4720 Cells/cu.mm	4000 - 11000
RED BLOOD CELL COUNT	4.27 mill/cu.mm	4.2 - 5.5
PACKED CELL VOLUME	39.70 %	36 - 46
MCV (MEAN CORPUSCULAR VOLUME)	92.97 fL	79 - 98
MCH (MEAN CORPUSCULAR HB)	29.74 pg	26 - 32
MCHC (MEAN CORPUSCULAR HB CONC)	31.99 g/dL	30 - 36
RED CELL DISTRIBUTION WIDTH	12.70 %	11.5 - 15.5
PLATELET COUNT	254000 /cu.mm	150000 - 450000

DIFFERENTIAL LEUCOCYTE COUNT

SEGMENTED NEUTROPHILS	52 %	40 - 80
LYMPHOCYTES	38 %	20 - 40
MONOCYTES	7 %	2 - 10
EOSINOPHILS	2 %	1 - 6
BASOPHILS	1 %	0 - 2

ABSOLUTE LEUCOCYTE COUNT

NEUTROPHIL	2454 cells/mm3	1800-7700
LYMPHOCYTE	1794 cells/mm3	1000-4800
MONOCYTE	330 cells/mm3	0-800
EOSINOPHIL	94 cells/mm3	0-450
BASOPHIL	47 cells/mm3	0-200

BLOOD PICTURE

RBCs are predominantly normocytic normochromic. WBC series is essentially unremarkable. Platelets appear adequate on smear.

Sample Type: K2 EDTA Whole blood

Methodology: Automated cell counter, Sysmex XN-1000 based on Optical / Fluorescence / Flow Cytometry / SLS .

**** End of HAEMATOLOGY Report ****

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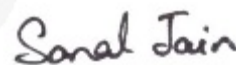


DR. SHIVANGI CHAUHAN
M.D. (PATHOLOGY)
(Authorised Signatory)

Authentication : 09-03-2021 15:47
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Result

Biological Reference Interval



DR. SONAL JAIN
D.M. (Hematology, A.I.I.M.S.)
(Head Hematology)

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BIOCHEMISTRY & IMMUNOTURBIDIMETRY

GLUCOSE Fasting ,Plasma [Hexokinase]	90.00 mg/dL	60 - 100
C.P.K. ,Serum [U.V.Assay]	78.00 U/L	26 - 192
MAGNESIUM,Serum [Chlorophosphonazo III]	2.00 mg/dL	1.6-2.6

LIPID PROFILE

CHOLESTEROL,Serum [Enzymatic Assay]	201.00 mg/dL	130 - 220
TRIGLYCERIDES,Serum [Enzymatic Colorimetric]	79.00 mg/dL	50 - 150
H.D.L. CHOLESTEROL,Serum [Homogeneous Enzymatic]	74.00 mg/dL	30 - 75
L.D.L. CHOLESTEROL,Serum [Homogeneous Enzymatic Assay]	120.00 mg/dL	30 - 100
VLDL CHOLESTEROL,Serum [Calculated]	15.80 mg/dL	10 - 30
NON H.D.L. CHOLESTEROL,Serum [Calculated]	127.00 mg/ dL	
CHOLESTEROL-HDL RATIO,Serum [Calculated]	2.72 : 1	
CHOLESTEROL-TRIGLYCERIDE RATIO,Serum [Calculated]	2.54 : 1	

KIDNEY FUNCTION TEST

UREA,Serum [Kinetic Method]	14.50 mg/dL	10 - 50
BUN (BLOOD UREA NITROGEN),Serum	6.77 mg/dL	4.7 - 23.4
CREATININE,Serum [Kinetic Jaffe's method]	0.89 mg/dL	0.5-1.3
URIC ACID,Serum [Enzymatic Assay]	5.00 mg/dL	2 - 7
IONIZED CALCIUM,Serum [BAPTA Method]	1.19 mmol/L	1.1-1.25
TOTAL CALCIUM,Serum [BAPTA Method]	9.52 mg/dL	8.6-10
PHOSPHORUS,Serum [Molybdate UV]	4.00 mg/dL	2.5-4.5
SODIUM,Serum [Ion selective electrode]	139.00 mmol/L	132 - 150
POTASSIUM,Serum [Ion selective electrode]	4.40 mmol/L	3.5 - 5
CHLORIDE,Serum [Ion selective electrode]	101.00 mmol/L	98 - 107

LIVER FUNCTION TEST

BILIRUBIN (Total),Serum [Diazo Method]	0.50 mg/dL	0.2 - 1.00
BILIRUBIN (DIRECT),Serum [Diazo Method]	0.20 mg/dL	0-0.30
BILIRUBIN (INDIRECT),Serum [Calculated]	0.30 mg/dL	0.1 - 0.8
S.G.O.T. Serum [Kinetic Method]	27.00 U/L	5 - 32
S.G.P.T. Serum [Kinetic Method]	21.00 U/L	5 - 33
ALKALINE PHOSPHATASE,Serum [Kinetic (PNP)]	67.00 U/L	35 - 104
G.G.T.P. Serum [Enzymatic Assay]	10.00 U/L	6 - 42
TOTAL PROTEINS,Serum [Biuret method]	7.20 g/dL	6 - 8.5

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ALBUMIN,Serum [Colorimetric BCG]	4.60 g/dL	3.5 - 5
GLOBULIN,Serum [Calculated]	2.60 g/dL	
ALBUMIN/GLOBULIN RATIO,Serum [Calculated]	1.77	1.1 - 2.2

**** End of BIOCHEMISTRY & IMMUNOTURBIDIMETRY Report ****



DR. MANAVI DANG
M.D. (PATHOLOGY)
(Associate Director)

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Test (Methodology) **Result** **Biological Reference Interval**

IMMUNO ASSAYS

THYROID PROFILE

FREE TRIIODOTHYRONINE [FT3], Serum[ECLIA]	2.66 pg/mL	2.00-4.40
FREE THYROXINE [FT4], Serum[ECLIA]	1.11 ng/dL	0.93-1.70
T.S.H.[ULTRASENSITIVE], Serum[ECLIA]	4.20 μ IU/mL	0.27-4.20

• Thyroid profile is done to evaluate thyroid gland function and help diagnose thyroid disorders causing hypothyroidism (decreased thyroid activity) and hyperthyroidism (increased thyroid activity).

• The most common causes of thyroid dysfunction are autoimmune diseases. Graves-disease causes hyperthyroidism and Hashimoto thyroiditis causes hypothyroidism. Both hyperthyroidism and hypothyroidism can also be caused by thyroiditis, thyroid cancer.

• Assays detecting unbound or free form of thyroid hormones are highly sensitive to detect thyroid dysfunction. They reflect the active form of the hormone, unaffected by non-thyroidal factors.

• The FT3 and FT4 levels fluctuate significantly during birth and can remain much higher than adult values during the first month after birth. Proper clinical interpretation and correlation of the reports in neonates is mandatory and preterm thyroid profiles should be interpreted with caution.

Biological reference Interval:

Age Group	FT3 in pg/mL	FT4 in ng/dL	TSH in uIU/ml
<12 months	2.9 - 6.8	1.1 - 2.0	1.36 - 8.8
1 - 6 Years	2.5 - 5.3	0.9 - 1.7	0.85 - 6.5
7 - 12 Years	2.5 - 5.6	1.1 - 1.7	0.28 - 4.3
13 - 17 Years	2.4 - 5.0	1.1 - 1.8	0.28 - 4.3
Adults	2.0 - 4.4	0.93 - 1.7	0.27 - 4.2
Cord Blood>37 Weeks	Not available	1.1 - 2.0	2.3 - 13.2

Pregnancy	FT3 in pg/mL	FT4 in ng/dL	TSH in uIU/mL (As per American Thyroid Association)
1st Trimester	2.5 - 3.9	0.9 - 1.5	0.100 - 2.500
2nd Trimester	2.1 - 3.6	0.8 - 1.3	0.200 - 3.000
3rd Trimester	2.0 - 3.3	0.7 - 1.2	0.300 - 3.000

NOTE: TSH LEVELS ARE SUBJECT TO CIRCADIAN VARIATION, REACHING PEAK LEVELS BETWEEN 2-4 A.M. AND AT A MINIMUM BETWEEN 6-10 P.M. THE VARIATION IS OF THE ORDER OF 50 TO 206%, HENCE TIME OF THE DAY HAS INFLUENCE ON THE MEASURED SERUM TSH CONCENTRATIONS. (REF: TETZ TEXTBOOK OF CLINICAL CHEMISTRY AND MOLECULAR DIAGNOSTICS-5TH EDITION Page 123). FLUCTUATING TSH VALUES SHOULD BE CLINICALLY CORRELATED.

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GLYCOSYLATED HAEMOGLOBIN [HBA1C]

GLYCOSYLATED HAEMOGLOBIN [HBA1C], Whole Blood [HPLC]

6.00 %

4.4-6.5

*Mean Plasma Glucose

136 mg/dL

ANALYZER: Tosoh Automated Glycohemoglobin Analyzer HLC-723G8 (G8)
METHODOLOGY: HPLC

- This assay is useful for diagnosing Diabetes and evaluating long term control of blood glucose concentrations in diabetic patients. It reflects the mean glucose concentration over the previous period of 8 - 12 weeks and is a better indicator of long-term glycemic control as compared with blood and urine glucose levels due to lesser day to day variation.
- Specifically, the A1C test measures what percentage of hemoglobin is coated with sugar (glycated). Higher the A1C level, the poorer is blood sugar control and higher is the risk of diabetes complications.
- Disorders associated with a decreased erythrocyte life-span, as well as individuals with recent and significant blood loss and chronic renal failure, exhibit low glycated Hb values.
- The test is performed by Gold standard technique of HPLC.
- Effectiveness of A1C may be limited in conditions that affect RBC turnover, such as hemolytic anemia, glucose-6-phosphate dehydrogenase deficiency, recent blood transfusions, drugs that stimulate erythropoiesis, end-stage kidney disease, and pregnancy.
- Hemoglobin variants may interfere with A1c results. Fructosamine level estimation is recommended in such cases.

As per American Diabetes Association (ADA)	
Reference Group	HbA1c in %
Nondiabetic adults >=18 years	<5.7
At risk (Prediabetes)	5.7 -6.4
Diagnosing Diabetes	>=6.5

Comment: The final report has been generated after reviewing the HPLC Chromatogram.

IgE LEVEL, Serum [ECLIA] 30.15 IU/mL 5 - 100

- This assay is useful for evaluation of patients suspected with allergic disease, primary immunodeficiency, infections, malignancies, other inflammatory diseases and allergic bronchopulmonary aspergillosis.
- IgE is the most important trigger molecule for allergic information. The level of IgE is low during the first year of life, gradually increases with age and reaches adult levels after 10 years.
- IgE is a mediator of allergic response. Quantitative measurement can provide useful information for differential diagnosis of atopic and non-atopic disease. Patients with atopic diseases like allergic asthma, allergic rhinitis & atopic dermatitis have moderately elevated IgE levels.
- An elevated/normal concentration does not indicate presence or absence of an allergic disease and must be interpreted in the clinical context of the patient, including age, gender, travel history, potential allergen exposure and family history.
- The total IgE test measures the overall quantity of immunoglobulin E in the blood, not the amount of a specific type. It can be used to detect an allergic response in the body rather than a specific allergy. This test may compliment the information provided by allergy tests that detect allergen-specific IgE

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COMMENT: For testing options to specific allergies (food/respiratory), kindly contact front office for details.

VITAMIN B-12 LEVEL, Serum[ECLIA]	510.10 pg/mL	197 - 771
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- Vitamin B12 (cobalamin) is a water-soluble vitamin and is normally found in animal products including meats, eggs and milk & milk products. It cannot be produced in the body and must be supplied by the diet.
- It is necessary for hematopoiesis and normal neuronal function. As it is obtained mainly from animal proteins, in humans, it requires intrinsic factor (IF) for absorption.
- Vitamin B12 deficiency may be due to lack of IF secretion by the gastric mucosa (pernicious anaemia) or intestinal malabsorption. It is also seen in vegetarians with inadequate B12 intake.
- Its deficiency frequently causes macrocytic anaemia, glossitis, peripheral neuropathy, weakness, ataxia, poor coordination and affective behavioural changes.
- An increase in the levels of Vitamin B 12 is mostly due to excessive ingestion of multivitamin capsules with B12. Conditions such as liver diseases and myeloproliferative disorders occasionally exhibit increased levels.
- Serum homocysteine levels are also elevated in B12 deficiency.

VITAMIN D-3 LEVEL, Serum[ECLIA]	27.00 ng/mL	25-100
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Interpretation:

Less than 12 ng/ml: Definitely deficient
12-25 ng/ml: Insufficient
25 - 100 ng/ml: Adequate
More than 100 ng/ml: Toxic

THE TEST IS BEING PERFORMED ON FDA APPROVED FULLY AUTOMATED REFERENCE IVD PLATFORM .

The two most important forms of Vitamin D are Vitamin D3 and Vitamin D2. In contrast to Vitamin D3, Vitamin D2 has to be taken up with food. In the human body Vitamin D3 and D2 are bound to Vitamin D- binding protein in plasma and transported to liver where both are hydroxylated in position 25 forming 25-OH Vitamin D. 25-OH Vitamin D is the metabolite that should be measured in blood to determine the overall Vitamin D status because it is the major storage form of Vitamin D in the human body. More than 95% of 25-OH Vitamin D, measurable in serum, is 25-OH Vitamin D3 whereas 25-OH Vitamin D2 reaches measurable levels only in patients taking Vitamin D2 supplements. Vitamin D is a common cause of secondary hyperparathyroidism. Elevations of PTH levels, especially in elderly Vitamin D deficient adults can result in osteomalacia, increased bone turnover, reduced bone mass and risk of bone fractures.

Reference - Position paper of the International Osteoporosis Foundation.

**** End of IMMUNO ASSAYS Report ****


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MICROBIOLOGY

SARS-COV-2 QUANTITATIVE IGG ANTIBODIES, SERUM (CLIA)

SARS-CoV-2 QUANTITATIVE IgG ANTIBODIES

24.80 AU/ml

INTERPRETATION:

POSITIVE

INTERPRETATION:

AU/mL	Results	INTERPRETATION
< 12.0	Negative	A negative result may indicate the absence of IgG antibodies or a very low level of IgG antibodies to the pathogen AND/OR vaccination against it (below detection limit of the assay). The test could score negative in infected patients during the incubation period and in the early stages of infection AND/OR vaccination against SARS-CoV-2. A repeat testing should be done in such patients after minimum 2 weeks to conclude serological status.
≥ 12.0 to < 15.0	Equivocal	A second sample should be collected and tested one to two weeks later.
≥ 15.0	Positive	A positive result generally indicates exposure of the subject to the SARS-CoV-2 AND/OR seroconversion post-vaccination.

1. The LIAISON® SARS-CoV-2 S1/S2 IgG uses indirect chemiluminescence immunoassay (CLIA) technology for the QUANTITATIVE DETERMINATION OF ANTI-S1 AND ANTI-S2 SPECIFIC IgG ANTIBODIES TO SARS-COV-2 IN HUMAN SERUM OR PLASMA SAMPLES. This is an USFDA-EUA and CE approved assay.

2. IgG ANTIBODY TEST RESULTS SHOULD ONLY BE INTERPRETED FOR SURVEILLANCE AND NOT AS A SOLE PARAMETER FOR DIAGNOSIS OF SARS-CoV-2 INFECTION.

3. The Spike (S) protein comprises of two functional subunits responsible for binding to the host cell receptor (S1 subunit) and fusion of the viral and cellular membranes (S2 subunit).

4. THE ASSAY IS INTENDED AS AN AID IN THE STUDY OF THE IMMUNE STATUS OF INFECTED PATIENT BY PROVIDING AN INDICATION OF THE PRESENCE OF ANTI S1 AND ANTI S2 IGG ANTIBODIES AGAINST SARS-COV-2, IN COVID-19 POSITIVE PATIENTS AND/OR POST-VACCINATION AGAINST SARS-COV-2. DUE TO THE RECENT DISCOVERY OF THE SARS-COV-2 AND THE LACK OF DATA ON PATIENTS, IT IS STILL NOT KNOWN WHETHER SUCH IMMUNE RESPONSE WILL BE LONG LASTING/ OR SUCH ANTIBODIES WILL CONFER IMMUNITY AGAINST RE-INFECTION BY THE VIRUS.

5. This assay is usually recommended after minimum of 2 weeks of exposure/infection/onset of symptoms or post vaccination.

6. Results from the LIAISON® SARS-CoV-2 S1/S2 IgG test should only be interpreted in conjunction with clinical findings, and the results from other laboratory tests, evaluations and immunization status.

7. REAL TIME RT-PCR IS THE GOLD STANDARD TEST FOR DIAGNOSIS OF COVID-19 VIRUS (SARS-COV-2).

METHODOLOGY: CHEMILUMINESCENCE IMMUNOASSAY (Indirect)

EQUIPMENT: LIAISON XL

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**** End of MICROBIOLOGY Report ****

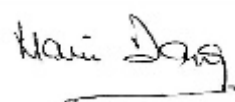


DR. SWATI JAIN
M.D (MICROBIOLOGY)
(Authorised Signatory)

Authentication : 09-03-2021 15:25
Printed on : 09-03-2021 16:40



DR. DEVJANI DE
M.D. (MICROBIOLOGY)
(Authorised Signatory)



PROF (DR) NAVIN DANG
M.D.
(Director)

CONDITIONS OF REPORTING

- ▶ In case of alarming or unexpected test results you are advised to contact the laboratory immediately for further discussions and action. Laboratory results are meant to be correlated with the patient's clinical history.
- ▶ The report will carry the name and age provided at the time of registration.
- ▶ Reporting of tests will be as per defined laboratory turn around time for each test. The same will be informed to the patient during first point of contact i.e. registration or phlebotomy as the case may be.
- ▶ Test results & reference ranges vary depending on the technology and methodology used.
- ▶ Rarely a second sample may be requested for an indeterminate result or any other pre-analytical / analytical reason.
- ▶ Reports can be received either as a hard copy or an email on your personal ID. Reports can also be delivered via courier. Payments can be made online on our website. Only reports with no pending payments are mailed, uploaded or dispatched.
- ▶ Reports can also be accessed via Dr. Dangs lab website or through the Dr. Dangs mobile application on IOS and android using the unique ID and password provided to you during registration or received by you via SMS.
- ▶ Home collection sample facility is provided with prior appointment. Request for same to be given on 999-999-2020, booked online on www.drdangslab.com or through the Dr. Dangs mobile application on IOS and android.
- ▶ A digital invoice for tests performed is available on our website and can be accessed by using the unique I.D. and password provided.
- ▶ To maintain confidentiality, certain reports may not be mailed at the discretion of the management.
- ▶ In case of any queries pertaining to your test results or to provide feedback/suggestions please call us on 01145004200 or mail us at info@drdangslab.com.
- ▶ 48 hour notice is required for the issuing of slides and blocks.
- ▶ Test results are not valid for medico legal purposes.
- ▶ The courts (forums) at Delhi shall have exclusive jurisdiction in all disputes/claims concerning the tests and/or results of the tests.
- ▶ * For any change in timings, please visit our website.



DR DANGS LAB LLP

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