

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)	Dr. Yugam MD (I CEO & Consultant F	Pathology)
NAME	: Dr. K.D SHARMA			
AGE/ GENDER	: 72 YRS/Male	PA	TIENT ID	: 1635028
COLLECTED BY	: SURJESH	RE	EG. NO./LAB NO.	:012410050018
REFERRED BY	:	RE	EGISTRATION DATE	: 05/Oct/2024 10:03 AM
BARCODE NO.	: 01518346	CO	LLECTION DATE	: 05/Oct/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		EPORTING DATE	: 05/Oct/2024 10:16AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMAT	OLOGY	
	CON	MPLETE BLOO	D COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		10.2 ^L	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RE		4.47	Millions/cm	nm 3.50 - 5.00
	FOCUSING, ELECTRICAL IMPEDENCE	4.47	IVIIIIOUIS/CIT	ini 5.50 - 5.00
PACKED CELL VOLUN	NE (PCV) automated hematology analyzer	33.2 ^L	%	40.0 - 54.0
MEAN CORPUSCULA		74.2 ^L	fL	80.0 - 100.0
			5.4	27.0 - 34.0
	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	22.9 ^L	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC) AUTOMATED HEMATOLOGY ANALYZER	30.8 ^L	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	TION WIDTH (RDW-CV)	17.8 ^H	%	11.00 - 16.00
	AUTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	49.4	fL	35.0 - 56.0
	AUTOMATED HEMATOLOGY ANALYZER	47.4	IL IL	33.0 - 30.0
MENTZERS INDEX		16.6	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED GREEN & KING INDE	TY	29.65	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT:<= 65.0
by CALCULATED	.^	27.00	KATIO	IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C		6670	/cmm	4000 - 11000
by FLOW CYTOMETRY NUCLEATED RED BLO	Y BY SF CUBE & MICROSCOPY	NIL		0.00 - 20.00
	JOD GELLS (IIRDGS) RT HEMATOLOGY ANALYZER	INIL		0.00 - 20.00
	DOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY A	AUTOMATED HEMATOLOGY ANALYZER			
NEUTROPHILS		73 ^H	%	50 - 70
	Y BY SF CUBE & MICROSCOPY	13.	70	30 70





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Dr. K.D SHARMA AGE/ GENDER : 72 YRS/Male **PATIENT ID** :1635028 **COLLECTED BY** : SURJESH :012410050018 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :05/0ct/2024 10:03 AM : **BARCODE NO.** :01518346 **COLLECTION DATE** :05/0ct/2024 10:09AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Oct/2024 10:16AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LYMPHOCYTES 22 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY EOSINOPHILS 2 % 1 - 6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 3 MONOCYTES % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 4869 /cmm 2000 - 7500 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 800 - 4900 ABSOLUTE LYMPHOCYTE COUNT 1467 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 133 40 - 440 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 200 80 - 880 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT 0 - 110 0 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. 369000 150000 - 450000 PLATELET COUNT (PLT) /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.28 0.10 - 0.36 PLATELETCRIT (PCT) % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) 8 fL 6.50 - 12.0 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 45000 30000 - 90000 /cmm by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL RATIO (P-LCR) 12.3 11.0 - 45.0 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET DISTRIBUTION WIDTH (PDW) 15.0 - 17.0 15.9 % by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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REFERRED BY	:	REGIS	TRATION DATE	: 05/Oct/2024 11:14 AM
BARCODE NO.	:01518346	COLLE	CTION DATE	:05/Oct/2024 11:22AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO!	RTING DATE	: 05/Oct/2024 04:03PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	GLY	YCOSYLATED HAEMOG	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM(WHOLE BLOOD	. ,	6.6 ^H	%	4.0 - 6.4
ESTIMATED AVERAGE F by HPLC (HIGH PERFORM	MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY)	142.72 ^H	mg/dL	60.00 - 140.00
INTERPRETATION:				
INTERPRETATION:	AS PER AMERICAN DIABE	ETES ASSOCIATION (ADA):		
RE	FERENCE GROUP		EMOGLOGIB (HBAIC) i	n %
RE Non diab	FERENCE GROUP etic Adults >= 18 years		EMOGLOGIB (HBAIC) in <5.7	n %
RE Non diab At R	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED H	<5.7 5.7 – 6.4	n %
RE Non diab At R	FERENCE GROUP etic Adults >= 18 years	GLYCOSYLATED H	<5.7 5.7 – 6.4 >= 6.5	n %
RE Non diab At R	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED H	<5.7 5.7 - 6.4 >= 6.5 e > 19 Years	
REI Non diab At R Diag	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	GLYCOSYLATED H Age Goals of Therapy:	<5.7 5.7 - 6.4 >= 6.5 e > 19 Years < 7.0	
REI Non diab At R Diag	FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	GLYCOSYLATED H Age Goals of Therapy: Actions Suggested:	<5.7 5.7 - 6.4 >= 6.5 e > 19 Years	

COMMENTS:

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2.Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications 5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7. Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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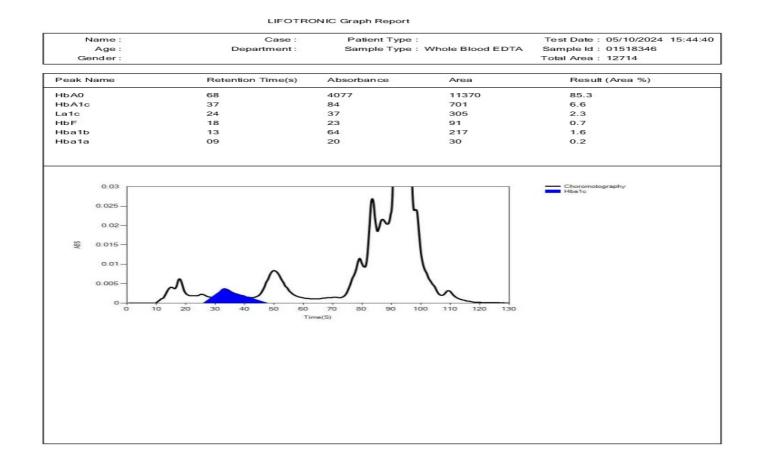








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Test Name		Value Unit	Biological Reference interval





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BARCODE NO.	:01518346	COLL	ECTION DATE	:05/Oct/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:05/Oct/2024 10:25AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYT	HROCYTE SEDIMENT	ATION RATE (ES	R)
by RED CELL AGGRE INTERPRETATION: 1. ESR is a non-specif	MENTATION RATE (ESR) GATION BY CAPILLARY PHOTOME	80 ^H TRY	mm/1st	hr 0 - 20
 An ESR can be affe as C-reactive protein 	,	es inflammation. For this	reason, the ESR is ty	e body or what is causing it. pically used in conjunction with other test such bove diseases as well as some others, such as
systemic lupus eryth CONDITION WITH LO A low ESR can be see (polycythaemia), sigr as sickle cells in sick	ematosus W ESR en with conditions that inhibit tl	ne normal sedimentation count (leucocytosis) , and	of red blood cells, s	uch as a high red blood cell count ormalities. Some changes in red cell shape (such
NOTE: 1. ESR and C - reactiv	e protein (C-RP) are both marke	ers of inflammation.		

ESR and C - reactive protein (C-RP) are both markers of inflammation.
 Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.
 4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.
 5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.

6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while aspirin, cortisone, and quinine may decrease it





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Page 5 of 18





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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	:06/Oct/202404:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	TT	
Test Name		Value	Unit	Biological Reference interval

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE:

1.Results must be clinically correlated

2.Test conducted on Citrated plasma. Comments Fibrinogen (Factor I), a coagulation factor produced by the liver prolongs PT & PTT at low plasma concentrations usually

COMMENTS:

Fibrinogen (Factor I), a coagulation factor produced by the liver prolongs PT & PTT at low plasma concentrations usually < 100 mg/dL

AFIBRINOGENEMIA represents total absence of fibrinogen and is an autosomal recessive disorder causing mainly bleeding from umbilical stump & mucosa.

HYPOFIBRINOGENEMIA shows decreased levels of fibrinogen with a milder pattern of bleeding. These are also associated with recurrent miscarriage, antepartum and postpartum hemorrhage.

DYSFIBRINOGENEMIA represents a qualitative defect in fibrinogen and is most commonly acquired due to liver disease. Fibrinogen is also an acute phase reactant that rises sharply with conditions causing acute tissue inflammation or damage.

DECREASED LEVELS:

1. Disseminated Intravascular coagulation,

- 2.Liver disease,
- 3. Massive transfusion,

4. Dysfibrinogenemia & following thrombolytic therapy

INCREASED LEVELS:

- 1.Increasing age,
- 2.Female gender,
- 3.Pregnancy,
- 4.contraception, 5.Post menopausal women,
- 6.Acute phase reaction & disseminated malignancy



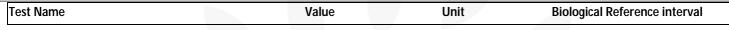


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Test Name	Va	lue luit	Dialogical Deference interval





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r. Yugam Cho MD (Patho Consultant Pathol	ilogy)
NO. : 01 N DATE : 05 ATE : 05	335028 12410050018 5/Oct/2024 10:03 AM 5/Oct/2024 10:09AM 5/Oct/2024 11:29AM
Unit	Biological Reference interval
EMISTRY	
mg/dL	OPTIMAL: < 200.0
Ing/ dL	BORDERLINE HIGH: 200.0 - 239.0
mg/dL	HIGH CHOLESTEROL: > OR = 240.0 OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0
	VERY HIGH: > OR = 500.0
mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
mg/dL	HIGH HDL: > OR = 60.0 OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159.0 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189.0 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
mg/dL	0.00 - 45.00
mg/dL	350.00 - 700.00
RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
	RATIO



On **DR.VINAY CHOPRA**

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SEF by calculated, spi		4.06 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.24	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for

Total Cholesterol, Triglycerides, HDL & LDL Cholesterol. 2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

 Jow HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues.
 NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement





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Test Name		Value	Unit	Biological Reference interval
		FERRI	TIN	
FERRITIN: SERUM by CLIA (CHEMILUMII	NESCENCE IMMUNOASSAY)	407.38 ^H	ng/mL	21.81 - 274.66

INTERPRETATION:

Serum ferritin appears to be in equilibrium with tissue ferritin and is a good indicator of storage iron in normal subjects and in most disorders. In patients with some hepatocellular diseases, malignancies and inflammatory diseases, serum ferritin is a disproportionately high estimate of storage iron because serum ferritin is an acute phase reactant. In such disorders iron deficiency anemia may exist with a normal serum ferritin concentration. In the presence of inflammation, persons with low serum ferritin are likely to respond to iron therapy. DECREASED:

1. Iron depletion appears to be the only condition associated with reduced serum ferritin concentrations.

2. Hypothyroidism.

- 3. Vitamin-C deficiency
- INCREASED FERRITIN DUE TO IRON OVERLOAD (PRIMARY):

1. Hemochromatosis or hemosiderosis.

2. Wilson Disease.

INCREASED FERRITIN DUE TO IRON OVERLOAD (SECONDARY):

- 1. Transfusion overload
- 2. Excess dietary Iron

3. Porphyria Cutanea tada

4. Ineffective erythropoiesis. INCREASED FERRITIN WITHOUT IRON OVERLOAD:

1. Liver disorders (NASH) or viral hepatitis (B/C)

- 2. Inflammatory conditions (Ferritin is a acute phase reactant) both acute and chronic.
- 3. Leukaemia, hodgkin's disease.
- 4. Alcohol excess.

5. Other malignancies in which increases probably reflect the escape of ferritin from damaged liver cells, impaired clearance from the plasma, synthesis of ferritin by tumour cells.

6. Ferritin levels below 10 ng/ml have been reported as indicative of iron deficiency anemia.

NOTE: 1. As Ferritin is an acute phase reactant, it is often raised in both acute and chronic inflammatory condition of the body such as infections leading to false positive results. It can thererfore mask a diagnostically low result. In such Cases serum ferritin levels should always be correlated with C-Reactive proteins to rule out any inflammatory conditions. 2. Patients with iron deficiency anaemia may occasionally have elevated or normal ferritin levels. This is usually seen in patients already receiving iron

therapy or in patients with concomitant hepatocellular injury.



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Test Name		Value	Unit	Biological Reference interval
		ENDOCRINO	DLOGY	
	co	RTISOL: MORNING (8 A.M 10 A.M.)	
	G (8 A.M 10 A.M.) NESCENCE IMMUNOASSAY)	18 ^L	ng/mL	57.2 - 194.2

2. Cortisol levels go up when the pituitary gland releases another hormone called adrenocorticotropic hormone (ACTH).

3.Most cortisol in the blood is bound to a protein; only a small percentage is "free" and biologically active. Blood cortisol testing evaluates both protein-bound and free cortisol while urine and saliva testing evaluate only free cortisol, which should correlate with the levels of free cortisol in the blood. Multiple blood and/or saliva cortisol levels collected at different times, such as at 8 am and 4 pm, can be used to evaluate both cortisol levels and diurnal variation. A 24-hour urine cortisol sample will not show diurnal variation; it will measure the total amount of unbound cortisol excreted in 24 hours.

CORTISOL FUNCTIONS:

1.It helps the body use sugar (glucose) and fat for energy (metabolism), and it helps the body manage stress.

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- 2.Bone growth
- 3.Blood pressure control
- 4.Immune system function
- 5. Metabolism of fats, carbohydrates, and protein
- 6.Nervous system function
- 7.Stress response

THINGS TO KNOW ABOUT CORTISOL MEASUREMENT:

1.An increased or normal cortisol level just after waking along with a level that does not drop by bedtime suggests excess cortisol and Cushing syndrome. If this excess cortisol is not suppressed after an overnight dexamethasone suppression test, or if the 24-hour urine cortisol is elevated, or if the late-night salivary cortisol level is elevated, it suggests that the excess cortisol is due to abnormal increased ACTH production by the pituitary or a tumor outside of the pituitary or abnormal production by the adrenal glands. Additional testing will help to determine the exact cause.

2.If insufficient cortisol is present and the person tested responds to an ACTH stimulation test, then the problem is likely due to insufficient ACTH production by the pituitary. If the person does not respond to the ACTH stimulation test, then it is more likely that the problem is based in the adrenal glands. If the adrenal glands are underactive, due to pituitary dysfunction and/or insufficient ACTH production, then the person is said to have secondary adrenal insufficiency. If decreased cortisol production is due to adrenal damage, then the person is said to have primary adrenal insufficiency or Addison disease.

3. Once an abnormality has been identified and associated with the pituitary gland, adrenal glands, or other cause, then the health practitioner may use other testing such as CT (computerized tomography) or MRI (magnetic resonance imaging) scans to locate the source of the excess (such



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NAME	: Dr. K.D SHARMA		
AGE/ GENDER	: 72 YRS/Male	PATIENT ID	: 1635028
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012410050018
REFERRED BY	:	REGISTRATION DATE	: 05/Oct/2024 10:03 AM
BARCODE NO.	: 01518346	COLLECTION DATE	:05/Oct/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:05/Oct/2024 01:30PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	IBALA CANTT	
Test Name		Value Unit	Biological Reference interval

as a pituitary, adrenal, or other tumor) and to evaluate the extent of any damage to the glands.

4.Similar to those with adrenal insufficiency, people with a condition called congenital adrenal hyperplasia (CAH) have low cortisol levels and do not respond to ACTH stimulation tests. Cortisol measurement is one of many tests that may be used to help evaluate a person for CAH. 5.Heat, cold, infection, trauma, exercise, obesity, and debilitating disease can influence cortisol concentrations. Pregnancy, physical and emotional stress, and illness can increase cortisol levels. Cortisol levels may also increase as a result of hyperthyroidism or obesity. A number of drugs can also increase levels, particularly oral contraceptives (birth control pills), hydrocortisone (the synthetic form of cortisol), and spironolactone.

6.Adults have slightly higher cortisol levels than children do.

7. Hypothyroidism may decrease cortisol levels. Drugs that may decrease levels include some steroid hormones.

8.Salivary cortisol testing is being used more frequently to help diagnose Cushing syndrome and stress-related disorders but still requires specialized expertise to perform.

NOTE:

Normally, cortisol levels rise during the early morning hours and are highest about 7 a.m. They drop very low in the evening and during the early phase of sleep. But if you sleep during the day and are up at night, this pattern may be reversed. If you do not have this daily change (diurnal rhythm) in cortisol levels, you may have overactive adrenal glands. This condition is called Cushing's syndrome.
 The timing of the cortisol test is very important because of the way cortisol levels vary throughout a day. If your doctor thinks you might make too much cortisol, the test will probably be done late in the day. If your doctor thinks you may not be making enough, a test is usually done in the morning.





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		hopra & Microbiology) onsultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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REFERRED BY	:	REG	ISTRATION DATE	: 05/Oct/2024 11:03 AM
BARCODE NO.	:01518346	COL	LECTION DATE	:05/Oct/2024 11:14AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 05/Oct/2024 01:31PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CORTISOL:	TOTAL	
CORTISOL TOTAL		274	ng/mL	52.0 - 350.0

by CLIA (CHEMILUMINESCENCE IMMUNOASSAY)

INTERPRETATION:

1.A cortisol test is done to measure the level of the hormone cortisol in the blood. The cortisol level may show problems with the adrenal glands or pituitary gland. Cortisol is made by the adrenal glands.

2.Cortisol levels go up when the pituitary gland releases another hormone called adrenocorticotropic hormone (ACTH).

3.Most cortisol in the blood is bound to a protein; only a small percentage is "free" and biologically active. Blood cortisol testing evaluates both protein-bound and free cortisol while urine and saliva testing evaluate only free cortisol, which should correlate with the levels of free cortisol in the blood. Multiple blood and/or saliva cortisol levels collected at different times, such as at 8 am and 4 pm, can be used to evaluate both cortisol levels and diurnal variation. A 24-hour urine cortisol sample will not show diurnal variation; it will measure the total amount of unbound cortisol excreted in 24 hours.

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4. Similar to those with adrenal insufficiency, people with a condition called congenital adrenal hyperplasia (CAH) have low cortisol levels and



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTI





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANTT	
Test Name		Value Unit	Biological Reference interval

do not respond to ACTH stimulation tests. Cortisol measurement is one of many tests that may be used to help evaluate a person for CAH. 5.Heat, cold, infection, trauma, exercise, obesity, and debilitating disease can influence cortisol concentrations. Pregnancy, physical and emotional stress, and illness can increase cortisol levels. Cortisol levels may also increase as a result of hyperthyroidism or obesity. A number of drugs can also increase levels, particularly oral contraceptives (birth control pills), hydrocortisone (the synthetic form of cortisol), and spironolactone.

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Note-After injection.





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BARCODE NO.	: 01518346	С	OLLECTION DATE	: 05/Oct/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:06/Oct/202404:40PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ADREN	OCORTICOTRO	PHIC HORMONE (ACT	ГН)
	OPHIC HORMONE (ACTH) escence immunoassay)	<5.0	pg/mL	0.00 - 46.00
СС	ONDITION	UNITS	REFERE	NCE RANGE FOR ACTH

condition	01115	KEI EKENCE KANOE I OK ACITI
HEALTHY ADULT	pg/mL	10 - 46
CORD BLOOD SERUM	pg/mL	50 - 570
NEW BORNS	pg/mL	10 - 185

Adrenocorticotropic hormone (ACTH), the primary stimulator of adrenal cortisol production, is synthesized by the pituitary in response to corticotropin-releasing hormone (CRH), which is released by the hypothalamus.

Plasma ACTH and cortisol levels are both pulsatile and circardian exhibit peaks (6-8 a.m.) and nadirs (11 p.m.).

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Cortisol, the main glucocorticoid, plays a central role in glucose metabolism and in the body's response to stress.

In a patient with hypocortisolism, an elevated adrenocorticotropic hormone (ACTH) indicates primary adrenal insufficiency, whereas a value that is not elevated is consistent with secondary adrenal insufficiency from a pituitary or hypothalamic cause

In a patient with hypercortisolism (Cushing syndrome), a suppressed value is consistent with a cortisol-producing adrenal adenoma or carcinoma, primary adrenal micronodular hyperplasia, or exogenous corticosteroid use.

Normal or elevated ACTH in a patient with Cushing syndrome puts the patient in the ACTH-dependent Cushing syndrome category. This is due to either an ACTH-producing pituitary adenoma or ectopic production of ACTH (bronchial carcinoid, small cell lung cancer, others). Furthe diagnostic studies such as dexamethasone suppression testing, corticotropin-releasing hormone stimulation testing, petrosal sinus sampling, and imaging studies are usually necessary to define the ACTH source.

CLINICAL USE

1.Diagnose disorders of the hypothalamic pituitary system 2.Differentiate Cushing's syndrome from normal patients when ACTH levels are low

INCREASED LEVELS

Stress
 Addison's disease
 Pituitary Cushing's disease





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4.ACTH secreting tumor

DECREASED LEVELS

1.Adrenal adenoma

2.Adrenal carcinoma





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BARCODE NO.	:01518346	(COLLECTION DATE	:05/Oct/2024 10:09AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	F	EPORTING DATE	: 05/Oct/2024 12:02PM
CLIENT ADDRESS	: 6349/1, NICHOLSON I	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IMMUNOPATHO	LOGY/SEROLOGY	
	ANTI	THYROID PEROXIDA	SE (TPO/AMA) ANTII	BODIES
ANTI TPO/AMA ANT	IBODIES: SERUM	< 1.00	IU/mL	0.00 - 10.0
NOTE:	ma. iditis. idism due to Hashimoto t		m Hashimoto thyroiditis	In this disease, the prevalence of TPO
antibodies is about 9 2 These auto-antibo	0% of cases, confirming th dies also frequently occur	e autoimmune origin of t	he disease.	an increased risk of developing overt

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CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Oct/2024 11:29AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI	ſ	
Test Name		Value	Unit	Biological Reference interval
		C-REACTIVI	E PROTEIN (CRP)	
C-REACTIVE PROTEI SERUM by NEPHLOMETRY	N (CRP) QUANTITATIVE:	147.73 ^H	mg/L	0.0 - 6.0

INTERPRETATION:

KOS Diagnostic Lab

(A Unit of KOS Healthcare)

1. C-reactive protein (CRP) is one of the most sensitive acute-phase reactants for inflammation. 2. CRP levels can increase dramatically (100-fold or more) after severe trauma, bacterial infection, inflammation, surgery, or neoplastic proliferation.

3. CRP levels (Quantitative) has been used to assess activity of inflammatory disease, to detect infections after surgery, to detect transplant

4. As compared to ESR, CRP shows an earlier rise in inflammatory disorders which begins in 4-6 hrs, the intensity of the rise being higher than ESR and the recovery being earlier than ESR. Unlike ESR, CRP levels are not influenced by hematologic conditions like Anemia, Polycythemia etc.,
5. Elevated values are consistent with an acute inflammatory process. NOTE:

1. Elevated C-reactive protein (CRP) values are nonspecific and should not be interpreted without a complete clinical history.

2. Oral contraceptives may increase CRP levels.

*** End Of Report ***





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