



	Dr. Vinay Chopra MD (Pathology & Micr Chairman & Consultar	obiology)	ME	m Chopra D (Pathology) ht Pathologist
NAME	: Mrs. KIRAN			
AGE/ GENDER	: 67 YRS/FEMALE		PATIENT ID	: 1665162
COLLECTED BY	:		REG. NO./LAB NO.	: 012411080034
REFERRED BY	:		REGISTRATION DATE	:08/Nov/2024 10:32 AM
BARCODE NO.	:01520364		COLLECTION DATE	: 08/Nov/2024 10:41AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 08/Nov/2024 11:05AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB	ALA CANT		
Test Name		Value	Unit	Biological Reference interval
		HAEN	IATOLOGY	
	COMP		LOOD COUNT (CBC)	
RED BLOOD CELLS	(RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HI		12.2	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT OCUSING, ELECTRICAL IMPEDENCE	4.43	Millions	s/cmm 3.50 - 5.00
PACKED CELL VOLU		38.5	%	37.0 - 50.0
MEAN CORPUSCULA		87	fL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH) UTOMATED HEMATOLOGY ANALYZER	27.3	pg	27.0 - 34.0
MEAN CORPUSCUL	AR HEMOGLOBIN CONC. (MCHC) UTOMATED HEMATOLOGY ANALYZER	31.4 ^L	g/dL	32.0 - 36.0
	UTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	15.7	%	11.00 - 16.00
	UTION WIDTH (RDW-SD) utomated hematology analyzer	50.9	fL	35.0 - 56.0
MENTZERS INDEX		19.64	RATIO	BETA THALASSEMIA TRAIT: < 13.0 IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IND by CALCULATED	DEX	30.56	RATIO	BETA THALASSEMIA TRAIT:<= 65.0 IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CEI	LLS (WBCS)			
FOTAL LEUCOCYTE by flow cytometry	COUNT (TLC) y by sf cube & microscopy	6940	/cmm	4000 - 11000
by AUTOMATED 6 PAR	LOOD CELLS (nRBCS) RT HEMATOLOGY ANALYZER	NIL		0.00 - 20.00
	LOOD CELLS (nRBCS) % UTOMATED HEMATOLOGY ANALYZER	NIL	%	< 10 %



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





Dr. Vinay Chopra

MD (Pathology & Microbiology) Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name	Value	Unit	Biological Reference interval
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			
NEUTROPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	52	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	28	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	15 ^H	%	1 - 6
MONOCYTES by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	5	%	2 - 12
BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 1
IMMATURE GRANULOCTE (IG) % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	%	0 - 5.0
ABSOLUTE LEUKOCYTES (WBC) COUNT			
ABSOLUTE NEUTROPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	3609	/cmm	2000 - 7500
ABSOLUTE LYMPHOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1943	/cmm	800 - 4900
ABSOLUTE EOSINOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	1041 ^H	/cmm	40 - 440
ABSOLUTE MONOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	347	/cmm	80 - 880
ABSOLUTE BASOPHIL COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
ABSOLUTE IMMATURE GRANULOCYTE COUNT by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	0	/cmm	0.0 - 999.0
PLATELETS AND OTHER PLATELET PREDICTIVE	MARKERS.		
PLATELET COUNT (PLT) by hydro dynamic focusing, electrical impedence	202000	/cmm	150000 - 450000
PLATELETCRIT (PCT) by hydro dynamic focusing, electrical impedence	0.26	%	0.10 - 0.36
MEAN PLATELET VOLUME (MPV) by hydro dynamic focusing, electrical impedence	13 ^H	fL	6.50 - 12.0
PLATELET LARGE CELL COUNT (P-LCC) by hydro dynamic focusing, electrical impedence	95000 ^H	/cmm	30000 - 90000
PLATELET LARGE CELL RATIO (P-LCR) by hydro dynamic focusing, electrical impedence	47.6 ^H	%	11.0 - 45.0



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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)







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Tost Nama	V	ahua Unit	Rialogical Reference interval

Te	est Name	Value	Unit	Biological Reference interval	
	ATELET DISTRIBUTION WIDTH (PDW) by hydro dynamic focusing, electrical impedence	16.5	%	15.0 - 17.0	_
NC	DTE: TEST CONDUCTED ON EDTA WHOLE BLOOD				

RECHECKED



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CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 08/Nov/2024 11:58AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A			
Test Name		Value	Unit	Biological Reference interval
				2)
WHOLE BLOOD	EMOGLOBIN (HbA1c):	DSYLATED HAE 5.6	MOGLOBIN (HBA1) %	C) 4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA				
WHOLE BLOOD by HPLC (HIGH PERFOR ESTIMATED AVERA by HPLC (HIGH PERFOR	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	5.6	% mg/dL	4.0 - 6.4
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP	5.6 114.02 DIABETES ASSOCIAT	% mg/dL ION (ADA): COSYLATED HEMOGLOGIB	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	5.6 114.02 DIABETES ASSOCIAT	% mg/dL ION (ADA): COSYLATED HEMOGLOGIB <5.7	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION: NOT DIA Non dia A	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02 DIABETES ASSOCIAT	% mg/dL ION (ADA): COSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years	5.6 114.02 DIABETES ASSOCIAT	% mg/dL ion (ADA): <u>cosylated hemoglogib</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02 DIABETES ASSOCIAT GLYC	% mg/dL iON (ADA): <u>COSYLATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) GE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	5.6 114.02 DIABETES ASSOCIATI GLYC GLYC Goals of	% mg/dL iON (ADA): cosyLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years Therapy:	4.0 - 6.4 60.00 - 140.00 (HBAIC) in % < 7.0
WHOLE BLOOD by HPLC (HIGH PERFON ESTIMATED AVERA by HPLC (HIGH PERFON INTERPRETATION:	EMOGLOBIN (HbA1c): RMANCE LIQUID CHROMATOGRAPHY) IGE PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	5.6 114.02 DIABETES ASSOCIATI GLYC GLYC Goals of	% mg/dL iON (ADA): <u>COSYLATED HEMOGLOGIB</u> < <u>5.7</u> <u>5.7 - 6.4</u> >= 6.5 Age > 19 Years	4.0 - 6.4 60.00 - 140.00 (HBAIC) in %

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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		hopra & Microbiology) onsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
IAME	: Mrs. KIRAN			
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:08/Nov/2024 11:39AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLINI	ICAL CHEMISTRY/	BIOCHEMIST	RY
		GLUCOSE FAST	ING (F)	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood

test (after consumption of 75 gms of glucose) is recommended for all such patients. 3. A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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Dr. Yugam Chopra

CEO & Consultant Pathologist

MD (Pathology)

:1665162

:012411080034

:08/Nov/2024 10:32 AM

:08/Nov/2024 10:41AM

:08/Nov/2024 11:58AM

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist : Mrs. KIRAN AGE/ GENDER : 67 YRS/FEMALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : :01520364 **COLLECTION DATE** : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value

Test Name	Value	Unit	Biological Reference interval
LIVER	FUNCTION TI	EST (COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	1.43 ^H	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.27	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	1.16 ^H	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	16.5	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	8.1	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY	2.04	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by Para nitrophenyl phosphatase by amino methyl propanol	159.6 ^H	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by SZASZ, SPECTROPHTOMETRY	14.7	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	7.32	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	4.3	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by CALCULATED, SPECTROPHOTOMETRY	3.02	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated, spectrophotometry	1.42	RATIO	1.00 - 2.00

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)





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NAME

BARCODE NO.

CLIENT CODE.





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Test Name	Val	ue Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANT	Г	
Test Name		Value	Unit	Biological Reference interval
			UREA	
UREA: SERUM	ATE DEHYDROGENASE (GLDH)	21.24	mg/dL	10.00 - 50.00





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



0 9001 : 2008 CERT		KOS Healthcare)	EXCELLENCE IN HEALTHCARE &	DIAGNOSTICS
	Dr. Vinay C MD (Pathology	& Microbiology)		Pathology)
NAME	Chairman & Co	nsultant Pathologist	CEO & Consultant F	
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. KIRAN : 67 YRS/FEMALE : : : 01520364 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD	REG. 1 REGIS COLLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1665162 : 012411080034 : 08/Nov/2024 10:32 AM : 08/Nov/2024 10:41AM : 08/Nov/2024 11:58AM
Test Name		Value	Unit	Biological Reference interval
CREATININE: SERU		CREATINI 0.81	INE mg∕dL	0.40 - 1.20
	ther-	Guop		
	DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICR	DR.YUGAM CHI CONSULTANT I OBIOLOGY) MBBS , MD (PA	PATHOLOGIST	

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CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	DRTING DATE	:09/Nov/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI), AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name		Value		Biological Reference interval
Test Name	COF		DLOGY	
	COF NG (8 A.M 10 A.M.) IESCENCE IMMUNOASSAY)	ENDOCRIN	DLOGY	

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.

KOS Diagnostic Lab (A Unit of KOS Healthcare)

- 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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	Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultant	biology) MD	(Pathology)
NAME	: Mrs. KIRAN		
AGE/ GENDER	: 67 YRS/FEMALE	PATIENT ID	: 1665162
COLLECTED BY	:	REG. NO./LAB NO.	: 012411080034
REFERRED BY	:	REGISTRATION DATE	: 08/Nov/2024 10:32 AM
BARCODE NO.	: 01520364	COLLECTION DATE	: 08/Nov/2024 10:41AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 09/Nov/2024 10:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	LA CANTT	

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:

1.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. 2.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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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



KOS Diagnostic Lab (A Unit of KOS Healthcare)

	Dr. Vinay Chopra MD (Pathology & Microl Chairman & Consultant		Dr. Yugam MD (CEO & Consultant	(Pathology)
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BARCODE NO.	: 01520364	CC	DLLECTION DATE	: 08/Nov/2024 10:41AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RI	EPORTING DATE	: 09/Nov/2024 10:06AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT		
Test Name	I I	/alue	Unit	Biological Reference interval
	IMMUNO	PATHOL	OGY/SEROLOGY	,
	ANTI THYRO	GLOBULI	N ANTIBODIES (AT	TG)
ANTI THYROGLOB SERUM	ULIN ANTIBODIES (ATG):	15.9 ^H	IU/mL	< 10.0
INTERPRETATION 1. Thyroglobulin is pr thyroglobulin (TG aut 2. For diagnostic purj be found in less than rheumatic diseases. CLINICAL UTILITY 1. Diagnosis of autoin 2. Investigation of cases 5. Assessment of risk 6. As a apart of asses INCREASED LEVELS 1. Mild to moderate- anaemia and autoim 2. Significantly increa 3. Higher levels also s NOTE: 1. Rising levels may b 2. All these antibodie 3. Thyroglobulin anti-	10% of the normal population at low leaves of goitre. * Follow up of deranged the id involvement in non thyroid related at s of pregnancy with autoimmune thyroid of foetal involvement in case of pregna sment of infertility.	nts with autoi in conjunctio evels and in p on from othe hyroid hormo utoimmune d d disorder lik ncy with thyr ders such as e's disease. s. he risk of thy polobulin as c	Immune thyroid disease. n with clinical informatic atients with non-thyroid er causes of thyroiditis. nes. liseases like SLE or RA. e Hashimoto's thyroiditis oid dysfunction. thyroid cancer, type I dia proid dysfunction in te foe ancer marker.	on and other test results. Autoantibodies may lial illnesses, such as the inflammatory s, Grave's Disease, etc. abetes, rheumatoid arthritis, perenicious
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		y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01520364		ECTION DATE	: 08/Nov/2024 10:41AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		ORTING DATE	: 08/Nov/2024 12:24PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ANTITHY	ROID PEROXIDASE (TPO/AMA) ANT	TIBODIES
ANTI TPO/AMA AN	VTIBODIES: SERUM	42.96 ^H	IU/mL	
				0.00 - 10.0
INTERPRETATION: 1. Thyroperoxidase (hyroglobulin for the 2. TPO is a membran 3. Anti-TPO is techni presenting with subc	TPO) is an enzyme involved in synthesis of triiodothyronine e-associated hemo glycoprote cally superior and a more spec linical hypothyroidism where	thyroid hormone synthesis and thyroxine (tetraiodoth in expressed only in thyroc cific method for measuring	s, catalyzing the oxid hyronine). cytes and is one of th thyroid auto-antibu	0.00 - 10.0 DIABETES (II): < 25.0 lation of iodide on tyrosine residues in ne most important thyroid gland antigens. odies , It is especially useful in patients
INTERPRETATION: 1. Thyroperoxidase (thyroglobulin for the 2. TPO is a membran 3. Anti-TPO is techni presenting with subce INCREASED LEVELS (A 1. Hashimoto thyroid 2. Idiopathic myxede 3. Graves disease 4. Post-partum thyroid 5. Primary hypothyro NOTE: 1. The highest TPO a antibodies is about 9 2. These auto-antibo 3. In patients with su	TPO) is an enzyme involved in e synthesis of triiodothyronine e-associated hemo glycoprote cally superior and a more spec linical hypothyroidism where Autoimmune thyroid disease) : ditis. ma. piditis. pidism due to Hashimoto thyro ntibody levels are observed in 10% of cases, confirming the au	thyroid hormone synthesis and thyroxine (tetraiodoth in expressed only in thyroc cific method for measuring TSH is elevated but Free T4 biditis. patients suffering from Ha utoimmune origin of the d	s, catalyzing the oxid hyronine). cytes and is one of th g thyroid auto-antibu 4 levels are normal. shimoto thyroiditis. isease.	DIABETES (II): < 25.0 lation of iodide on tyrosine residues in ne most important thyroid gland antigens.
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