



	Dr. Vinay Chopra MD (Pathology & Microbi Chairman & Consultant P			ithology)
NAME	: Mrs. APOORVA DHADWAL			
AGE/ GENDER	: 25 YRS/FEMALE		PATIENT ID	: 1818692
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012504050020
REFERRED BY	:	•	REGISTRATION DATE	: 05/Apr/2025 09:54 AM
BARCODE NO.	: 01528385			: 05/Apr/2025 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Apr/2025 10:18AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL/	A CANTT		
Test Name	V	alue	Unit	Biological Reference interval
	CWA STILL		LLNESS PANEL: 1.2	
			DOD COUNT (CBC)	
RED BLOOD CELI	LS (RBCS) COUNT AND INDICES	LIE DLA	JOD COUNT (CBC)	
HAEMOGLOBIN (HI		13.9	gm/dL	12.0 - 16.0
by CALORIMETRIC				
RED BLOOD CELL	(RBC) COUNT	4.74	Millions/cn	am 3.50 - 5.00
PACKED CELL VOI		41.8	%	37.0 - 50.0
	UTOMATED HEMATOLOGY ANALYZER LAR VOLUME (MCV)	88.2	fL	80.0 - 100.0
	UTOMATED HEMATOLOGY ANALYZER	00.2	IL	80.0 - 100.0
	AR HAEMOGLOBIN (MCH)	29.2	pg	27.0 - 34.0
	LAR HEMOGLOBIN CONC. (MCHC)	33.1	g/dL	32.0 - 36.0
-	UTOMATED HEMATOLOGY ANALYZER	12.5	0/	11.00 16.00
	BUTION WIDTH (RDW-CV) UTOMATED HEMATOLOGY ANALYZER	13.5	%	11.00 - 16.00
	BUTION WIDTH (RDW-SD)	44.8	fL	35.0 - 56.0
MENTZERS INDEX	UTOMATED HEMATOLOGY ANALYZER	18.61	RATIO	BETA THALASSEMIA TRAIT: <
by CALCULATED				13.0
				IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING IN	DEX	75.55	RATIO	BETA THALASSEMIA TRAIT:
by CALCULATED				<= 65.0
				IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CI	ELLS (WBCS)			05.0
TOTAL LEUCOCYT	TE COUNT (TLC)	11050 ^H	/cmm	4000 - 11000
,	BY SF CUBE & MICROSCOPY BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
	SLOOD CELLS (NKBCS) T HEMATOLOGY ANALYZER	INIL		0.00 - 20.00
NUCLEATED RED I	BLOOD CELLS (nRBCS) %	NIL	%	< 10 %





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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•	UTOMATED HEMATOLOGY ANALYZER EUCOCYTE COUNT (DLC)			
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	56	%	50 - 70
LYMPHOCYTES by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	38	%	20 - 40
EOSINOPHILS by FLOW CYTOMETRY	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	4	%	2 - 12
-	Y BY SF CUBE & MICROSCOPY OCYTES (WBC) COUNT	0	%	0 - 1
ABSOLUTE NEUTR		6188	/cmm	2000 - 7500
ABSOLUTE LYMPI		4199	/cmm	800 - 4900
ABSOLUTE EOSIN		221	/cmm	40 - 440
ABSOLUTE MONO	CYTE COUNT Y BY SF CUBE & MICROSCOPY	442	/cmm	80 - 880
ABSOLUTE BASOF by FLOW CYTOMETR	YHIL COUNT Y BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
PLATELETS AND	OTHER PLATELET PREDICTIV	/E MARKERS.		
PLATELET COUNT	Γ (PLT) FOCUSING, ELECTRICAL IMPEDENCE	308000	/cmm	150000 - 450000
PLATELETCRIT (P		0.39 ^H	%	0.10 - 0.36
MEAN PLATELET		13 ^H	fL	6.50 - 12.0
PLATELET LARGE	CCELL COUNT (P-LCC) CCUSING, ELECTRICAL IMPEDENCE	144000 ^H	/cmm	30000 - 90000
PLATELET LARGE	CCELL RATIO (P-LCR)	46.6 ^H	%	11.0 - 45.0
	(BUTION WIDTH (PDW)	15.9	%	15.0 - 17.0





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Test Name	Value	Unit	Piological Deference interval

Test Name Value Unit **Biological Reference interval** by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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NAME AGE/ GENDER COLLECTED BY	: Mrs. APOORVA DHADWAL : 25 YRS/FEMALE : SURJESH		ATIENT ID EG. NO./LAB NO.	: 1818692 : 012504050020
REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: : 01528385 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, AM	R) C(R)	EGISTRATION DATE OLLECTION DATE EPORTING DATE	: 05/Apr/2025 09:54 AM : 05/Apr/2025 09:59AM : 05/Apr/2025 10:31AM
Test Name		Value	Unit	Biological Reference interval
	ERYTHROC	CYTE SEDIM	ENTATION RATE	(ESR)
by RED CELL AGGREG INTERPRETATION: 1. ESR is a non-specifi immune disease, but 4 2. An ESR can be affect as C-reactive protein 3. This test may also to systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR doe: 3. CRP is not affected 4. If the ESR is elevate 5. Women tend to hav 6. Drugs such as dexti	does not tell the health practitioner ted by other conditions besides inf be used to monitor disease activity matosus V ESR n with conditions that inhibit the no ificantly high white blood cell coun e cell anaemia) also lower the ESR. e protein (C-RP) are both markers of s not change as rapidly as does CRP by as many other factors as is ESR, r ed, it is typically a result of two type re a higher ESR, and menstruation a	r exactly where t lammation. For t and response to prmal sedimenta t (leucocytosis), f inflammation. c, either at the sta making it a better es of proteins, gle and pregnancy ca	he inflammation is in the this reason, the ESR is typ therapy in both of the al- tion of red blood cells, su and some protein abnor art of inflammation or as r marker of inflammation obulins or fibrinogen. n cause temporary eleva	on associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such





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CLIENT CODE.	: KOS DIAGNOSTIO	CLAB	REPORTING DATE	: 05/Apr/2025 12:56PM
CLIENT ADDRESS	: 6349/1, NICHOL	SON ROAD, AMBALA CANTI	2	
Test Name		Value	Unit	Biological Reference interval
		CLINICAL CHEMIS	STRY/BIOCHEMIS	STRY
		GLUCOS	E FASTING (F)	
GLUCOSE FASTIN by GLUCOSE OXIDAS	G (F): PLASMA E - PEROXIDASE (GOD-	92.72 POD)	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
INTERPRETATION				

KOS Diagnostic Lab (A Unit of KOS Healthcare)

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES: 1. A fasting plasma glucose level below 100 mg/dl is considered normal. 2. 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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





KOS Diagnostic Lab (A Unit of KOS Healthcare)

		Chopra y & Microbiology) consultant Pathologis		(Pathology)
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mrs. APOORVA DHADWA : 25 YRS/FEMALE : SURJESH : : 01528385 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA		PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1818692 : 012504050020 : 05/Apr/2025 09:54 AM : 05/Apr/2025 09:59AM : 05/Apr/2025 12:56PM
Test Name		Value	Unit	Biological Reference interval
			OFILE : BASIC	
CHOLESTEROL TO by CHOLESTEROL OX		156.08	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: S by GLYCEROL PHOSP	SERUM HATE OXIDASE (ENZYMATIC)	97.4	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTERC by SELECTIVE INHIBITI	OL (DIRECT): SERUM	41.26	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTERO		95.34	mg/dL	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
NON HDL CHOLES by CALCULATED, SPE		114.82	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
VLDL CHOLESTER by CALCULATED, SPE		19.48	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SEI by CALCULATED, SPE		409.56	mg/dL	350.00 - 700.00
CHOLESTEROL/HE		3.78	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0



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Test Name		Value	Unit	Biological Reference interval
				MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: S by CALCULATED, SPE		2.31	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/H by CALCULATED, SPE	IDL RATIO: SERUM	2.36 ^L	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.

3. Low 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. 4. 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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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBA	ALA CANT I		
Test Name		Value	Unit	Biological Reference interval
	LIVER F	UNCTION	TEST (COMPLETE)	
BILIRUBIN TOTAL by DIAZOTIZATION, SP	: SERUM PECTROPHOTOMETRY	0.47	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY		0.12	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY		0.35	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE		12.6	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE		16	U/L	0.00 - 49.00
AST/ALT RATIO: S by CALCULATED, SPE		0.79	RATIO	0.00 - 46.00
ALKALINE PHOSPI by PARA NITROPHENY PROPANOL	HATASE: SERUM YL PHOSPHATASE BY AMINO METHYL	80.48	U/L	40.0 - 130.0
GAMMA GLUTAM by SZASZ, SPECTROF	YL TRANSFERASE (GGT): SERUM Phtometry	1 15.46	U/L	0.00 - 55.0
TOTAL PROTEINS: by BIURET, SPECTRON		7.5	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GI		4.19	gm/dL	3.50 - 5.50
GLOBULIN: SERUN by CALCULATED, SPE	1	3.31	gm/dL	2.30 - 3.50
A : G RATIO: SERU by CALCULATED, SPE	Μ	1.27	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:

DRUG HEPATOTOXICITY	> 2	
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)	
CIRRHOSIS	1.4 - 2.0	
INTRAHEPATIC CHOLESTATIS	> 1.5	





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Test Name		Value	Unit	Biologic	al Reference interval
HEPATOCELLULAR C	ARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Inc	reased)	
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).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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	KIDNE	Y FUNCTION	NTEST (COMPLETI	E)
UREA: SERUM		15.74	mg/dL	10.00 - 50.00
CREATININE: SERU by ENZYMATIC, SPECT		0.86	mg/dL	0.40 - 1.20
-	ROGEN (BUN): SERUM	7.36	mg/dL	7.0 - 25.0
	ROGEN (BUN)/CREATININE	8.56 ^L	RATIO	10.0 - 20.0
UREA/CREATININE by CALCULATED, SPEC	E RATIO: SERUM	18.3	RATIO	
URIC ACID: SERUM	1	4.66	mg/dL	2.50 - 6.80
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	8.75	mg/dL	8.50 - 10.60
PHOSPHOROUS: SE by PHOSPHOMOLYBD	RUM ATE, SPECTROPHOTOMETRY	3.57	mg/dL	2.30 - 4.70
ELECTROLYTES				
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	140.5	mmol/L	135.0 - 150.0
POTASSIUM: SERU	Μ	3.98	mmol/L	3.50 - 5.00
CHLORIDE: SERUM by ISE (ION SELECTIVE	I = ELECTRODE)	105.38	mmol/L	90.0 - 110.0
	MERULAR FILTERATION RAT			
ESTIMATED GLOM (eGFR): SERUM by CALCULATED	IERULAR FILTERATION RATE	96.1		
INTERPRETATION:	een pre- and post renal azotemia.			

To differentiate between pre- and post renal azotemia. INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.



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LIENT ADDRESS	: 6349/1, NICH	IOLSON ROAD, AMBAI	LA CANT'T			
Test Name			Value	Unit	Biologias	al Reference interval
Irns, surgery, cache Urine reabsorption Reduced muscle m Certain drugs (e.g. CREASED RATIO (>2	ake or production exia, high fever). a (e.g. ureter colos hass (subnormal c tetracycline, gluc 20:1) WITH ELEVA a (BUN rises dispr	stomy) reatinine production) cocorticoids) FED CREATININE LEVEL : oportionately more the	S:		toxicosis, Cushing's syndroi uropathy).	ne, high protein diet,
Inherited hyperam SIADH (syndrome of Pregnancy.	rosis. nd starvation. e. ecreased urea syn (urea rather than monemias (urea of inappropiate ar	thesis. creatinine diffuses ou is virtually absent in b ntidiuretic harmone) di	lood).			
ECREASED RATIO (<			to prophining)			
. Phenacimide thera . Rhabdomyolysis (r		onversion of creatine t reatinine).	lo creatinine).			
. Muscular patients	who develop ren					
NAPPROPIATE RATIO		aquiago folos incres	In prophiling with	the control march	adalaataa raauttinn in r	ol rotio whore deheader the
. Diabetic ketoacido hould produce an in			in creatinine Wi	th certain meth	odologies,resulting in norm	ai ratio when denydratio
. Cephalosporin the	rapy (interferes w	ith creatinine measure	ement).			
STIMATED GLOMERI			CED (mail /mail	$n/1.72m^{2}$		7
CKD STAGE G1		DESCRIPTION nal kidney function	GFR (mL/mi >9		ASSOCIATED FINDINGS No proteinuria	-
G1		ney damage with	>9		Presence of Protein ,	-
62		rmal or high CEP	29	U III	Albumin or cast in urino	

01	i torritar kianoj ranotion	, 10	
G2	Kidney damage with	>90	Presence of Protein,
	normal or high GFR		Albumin or cast in urine
G3a	Mild decrease in GFR	60 -89	
G3b	Moderate decrease in GFR	30-59	
G4	Severe decrease in GFR	15-29	
G5	Kidney failure	<15	





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









	Dr. Vinay Chopra MD (Pathology & Microb Chairman & Consultant F	iology) ME	m Chopra D (Pathology) at Pathologist
NAME	: Mrs. APOORVA DHADWAL		
AGE/ GENDER	: 25 YRS/FEMALE	PATIENT ID	: 1818692
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012504050020
REFERRED BY	:	REGISTRATION DATE	: 05/Apr/2025 09:54 AM
BARCODE NO.	: 01528385	COLLECTION DATE	: 05/Apr/2025 09:59AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:05/Apr/2025 12:56PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBAL	A CANTT	
Test Name	v	alue Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated





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Mrs. APOORVA DHADWAL 25 YRS/FEMALE			
95 VDC /EEMALE			
LJ IRJ/FENIALE		PATIENT ID	: 1818692
SURJESH		REG. NO./LAB NO.	: 012504050020
		REGISTRATION DATE	: 05/Apr/2025 09:54 AM
01528385		COLLECTION DATE	: 05/Apr/2025 09:59AM
KOS DIAGNOSTIC LAB		REPORTING DATE	: 05/Apr/2025 12:13PM
			Biological Reference interval
	0.997	ng/mL	0.35 - 1.93
	7.83	µgm/dL	4.87 - 12.60
CENT MICROPARTICLE IMMUNOASSAY)	3.931	µIU/mL	0.35 - 5.50
	E THYRO E (T3): SERUM CENT MICROPARTICLE IMMUNOASSAY) RUM CENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM CENT MICROPARTICLE IMMUNOASSAY) SENSITIVE	KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMBALA CANTT Value ENDOC: THYROID FUNC E (T3): SERUM 0.997 CENT MICROPARTICLE IMMUNOASSAY) RUM 7.83 CENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM 3.931 CENT MICROPARTICLE IMMUNOASSAY) SENSITIVE	01528385 COLLECTION DATE KOS DIAGNOSTIC LAB REPORTING DATE 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit ENDOCRINOLOGY THYROID FUNCTION TEST: TOTAL E (T3): SERUM 0.997 ng/mL CENT MICROPARTICLE IMMUNOASSAY) RUM 7.83 μgm/dL CENT MICROPARTICLE IMMUNOASSAY) TING HORMONE (TSH): SERUM 3.931 μlU/mL CENT MICROPARTICLE IMMUNOASSAY)

CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (e.g.: phenytoin , salicylates).

3. Serum T4 levels in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0 - 7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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	Dr. Vinay Chopra MD (Pathology & Microbiolo Chairman & Consultant Path	G, /	(Pathology)
NAME	: Mrs. APOORVA DHADWAL		
AGE/ GENDER	: 25 YRS/FEMALE	PATIENT ID	: 1818692
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012504050020
REFERRED BY	:	REGISTRATION DATE	: 05/Apr/2025 09:54 AM
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Test Name			Value	Unit	t	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 - 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35-5.50	
	RECOM	MENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester			0.10 - 2.50			
2nd Trimester			0.20 - 3.00			
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, iodine containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goiter & Thyroiditis.

2. Over replacement of thyroid hormone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4. Secondary pituitary or hypothalamic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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Dr. Yugam Chopra

MD (Pathology)

Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mrs. APOORVA DHADWAL NAME **AGE/ GENDER** : 25 YRS/FEMALE **PATIENT ID** :1818692 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012504050020 **REFERRED BY REGISTRATION DATE** :05/Apr/2025 09:54 AM **BARCODE NO.** :01528385 **COLLECTION DATE** :05/Apr/2025 09:59AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :05/Apr/2025 10:15AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value Unit Test Name **Biological Reference interval CLINICAL PATHOLOGY URINE ROUTINE & MICROSCOPIC EXAMINATION** PHYSICAL EXAMINATION QUANTITY RECIEVED 10 ml by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY AMBER YELLOW PALE YELLOW COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY CLEAR CLEAR TRANSPARANCY by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SPECIFIC GRAVITY <=1.0051.002 - 1.030 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **CHEMICAL EXAMINATION** REACTION ACIDIC by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY PROTEIN NEGATIVE (-ve) Negative by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY SUGAR Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY pН 6 5.0 - 7.5 by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BILIRUBIN Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NITRITE NEGATIVE (-ve) Negative by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN Normal EU/dL 0.2 - 1.0by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY **KETONE BODIES** Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY BLOOD Negative NEGATIVE (-ve) by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY NEGATIVE (-ve) NEGATIVE (-ve) ASCORBIC ACID by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY

Dr. Vinay Chopra

MD (Pathology & Microbiology)

MICROSCOPIC EXAMINATION



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



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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



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

NAME	: Mrs. APOORVA DHADWAL			
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	/IBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELL	S (RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 5
EPITHELIAL CELL by MICROSCOPY ON	S CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON (CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA		NEGATIVE (-ve)		NEGATIVE (-ve)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT OTHERS

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT TRICHOMONAS VAGINALIS (PROTOZOA)

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report ***

ABSENT

NEGATIVE (-ve)





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NEGATIVE (-ve)

ABSENT