



Dr. Vinay Choj MD (Pathology & M Chairman & Consul	licrobiology)	Dr. Yugam Chc MD (Patho CEO & Consultant Pathol	logy)
NAME : Mrs. NIDHI SEHGAL			
AGE/ GENDER : 42 YRS/FEMALE	PATI	: 15	43135
COLLECTED BY : SURJESH	REG.	NO./LAB NO. : 01	2407090033
REFERRED BY :			/Jul/2024 11:41 AM
<b>BARCODE NO.</b> : 01512805			/Jul/2024 11:50AM
<b>CLIENT CODE.</b> : KOS DIAGNOSTIC LAB			/Jul/2024 12:24PM
<b>CLIENT ADDRESS</b> : 6349/1, NICHOLSON ROAD, AM			Jul 2024 12.241 M
Test Name	Value	Unit	Biological Reference interval
SWA	STHYA WELLNE	ESS PANEL: 1.2	
CC	OMPLETE BLOOD	COUNT (CBC)	
RED BLOOD CELLS (RBCS) COUNT AND INDICES			
		ana (di	13.0.1/.0
HAEMOGLOBIN (HB) by calorimetric	9.6 <sup>L</sup>	gm/dL	12.0 - 16.0
RED BLOOD CELL (RBC) COUNT	3.47 <sup>L</sup>	Millions/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PACKED CELL VOLUME (PCV)	29.5 <sup>L</sup>	%	37.0 - 50.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZEF	2	70	
MEAN CORPUSCULAR VOLUME (MCV) by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER	85.1	fL	80.0 - 100.0
MEAN CORPUSCULAR HAEMOGLOBIN (MCH)	27.7	pg	27.0 - 34.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		Py	27.0 34.0
MEAN CORPUSCULAR HEMOGLOBIN CONC. (MCHC)	32.6	g/dL	32.0 - 36.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER RED CELL DISTRIBUTION WIDTH (RDW-CV)	14.8	%	11.00 - 16.00
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		70	11.00 - 10.00
RED CELL DISTRIBUTION WIDTH (RDW-SD)	47	fL	35.0 - 56.0
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER MENTZERS INDEX	24.52	RATIO	BETA THALASSEMIA TRAIT: < 13.0
by CALCULATED	24.52	KATIO	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX	36.34	RATIO	BETA THALASSEMIA TRAIT: < =
by CALCULATED			65.0
			IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (WBCS)			
TOTAL LEUCOCYTE COUNT (TLC) by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY	15470 <sup>H</sup>	/cmm	4000 - 11000
NUCLEATED RED BLOOD CELLS (nRBCS)	NIL		0.00 - 20.00
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER			
<i>місго</i> зсору NUCLEATED RED BLOOD CELLS (nRBCS) %	NIL	%	< 10 %
by CALCULATED BY AUTOMATED HEMATOLOGY ANALYZER		70	\$ 10 70
DIFFERENTIAL LEUCOCYTE COUNT (DLC)			





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Test Name		Value	Unit	Biological Reference interval
NEUTROPHILS	RY BY SF CUBE & MICROSCOPY	77 <sup>H</sup>	%	50 - 70
LYMPHOCYTES	RY BY SF CUBE & MICROSCOPY	15 <sup>L</sup>	%	20 - 40
EOSINOPHILS	Y BY SF CUBE & MICROSCOPY	2	%	1 - 6
MONOCYTES	Y BY SF CUBE & MICROSCOPY	6	%	2 - 12
BASOPHILS	Y BY SF CUBE & MICROSCOPY	0	%	0 - 1
ABSOLUTE LEUKOC				
	PHIL COUNT BY BY SF CUBE & MICROSCOPY	11912 <sup>H</sup>	/cmm	2000 - 7500
ABSOLUTE LYMPHO		2320	/cmm	800 - 4900
ABSOLUTE EOSINOF		309	/cmm	40 - 440
ABSOLUTE MONOC		928 <sup>H</sup>	/cmm	80 - 880
ABSOLUTE BASOPH		0	/cmm	0 - 110
	HER PLATELET PREDICTIVE MARKE	RS.		
	PLT) FOCUSING, ELECTRICAL IMPEDENCE	182000	/cmm	150000 - 450000
PLATELETCRIT (PCT)		0.21	%	0.10 - 0.36
MEAN PLATELET VC		12	fL	6.50 - 12.0
PLATELET LARGE CE		69000	/cmm	30000 - 90000
PLATELET LARGE CE		38.2	%	11.0 - 45.0
PLATELET DISTRIBU	ITION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	17.5 <sup>H</sup>	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD



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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	ERYTH	IROCYTE SEDIMEI	NTATION RATE (ES	R)
by MODIFIED WESTER INTERPRETATION:	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	92 <sup>H</sup>	mm/1st l	
1. ESR is a non-specif immune disease, but 2. An ESR can be affe as C-reactive protein	does not tell the health practitic cted by other conditions besides	It often indicates the oner exactly where the inflammation. For th	presence of inflammat e inflammation is in the is reason, the ESR is ty	ion associated with infection, cancer and auto- e body or what is causing it. pically used in conjunction with other test such
3. This test may also systemic lupus eryth	be used to monitor disease activ ematosus	ity and response to the	herapy in both of the a	bove diseases as well as some others, such as

#### CONDITION WITH LOW ESR

A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count

(polycythaemia), significantly high white blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (such as sickle cells in sickle cell anaemia) also lower the ESR.

#### NOTE:

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

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	IICAL CHEMISTR	Y/BIOCHEMISTR	Y
		GLUCOSE FA	ASTING (F)	
		73.45	mg/dL	NORMAL: < 100.0

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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.
 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 Name		Value	Unit	Biological Reference interval
		LIPID PROFILE :	BASIC	
CHOLESTEROL TOTAL: SE by CHOLESTEROL OXIDAS		171.75	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERUM by GLYCEROL PHOSPHAT		123.4	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIR by SELECTIVE INHIBITION		27.3 <sup>L</sup>	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SERU by CALCULATED, SPECTR		119.77	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 CHOLESTEROL by CALCULATED, SPECTR		144.45 <sup>H</sup>	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
LDL CHOLESTEROL: SEF		24.68	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM		466.9	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RAT by CALCULATED, SPECTR	IO: SERUM	6.29 <sup>H</sup>	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUM by CALCULATED, SPECTR		4.39 <sup>H</sup>	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
	lt	Ghopr	a	

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Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		4.52	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 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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Test Name		Value	Unit	Biological Reference interval
	LIV	ER FUNCTION T	EST (COMPLETE)	
BILIRUBIN TOTAL: S by diazotization, s		2.83 <sup>H</sup>	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
	CONJUGATED): SERUM	2.59 <sup>H</sup>	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT	(UNCONJUGATED): SERUM	0.24	mg/dL	0.10 - 1.00
by CALCULATED, SPE SGOT/AST: SERUM	CIROPHOIOMEIRY	26.9	U/L	7.00 - 45.00
	RIDOXAL PHOSPHATE	20.7	0/2	1.00 10.00
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	30.5	U/L	0.00 - 49.00
AST/ALT RATIO: SER	UM	0.88	RATIO	0.00 - 46.00
by CALCULATED, SPE ALKALINE PHOSPHA by PARA NITROPHEN PROPANOL		555.88 <sup>H</sup>	U/L	40.0 - 130.0
	TRANSFERASE (GGT): SERUM	214.97 <sup>H</sup>	U/L	0.00 - 55.0
TOTAL PROTEINS: SI	ERUM	6.02 <sup>L</sup>	gm/dL	6.20 - 8.00
ALBUMIN: SERUM		3.27 <sup>L</sup>	gm/dL	3.50 - 5.50
by BROMOCRESOL G GLOBULIN: SERUM		2.75	gm/dL	2.30 - 3.50
by CALCULATED, SPE		1 10	DATIO	1.00 2.00
A : G RATIO: SERUM		1.19	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

# **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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#### 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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Test Name		Value	Unit	Biological Reference interval
	KID	NEY FUNCTION TES	ST (COMPLETE)	
UREA: SERUM		58.24 <sup>H</sup>	mg/dL	10.00 - 50.00
-	ATE DEHYDROGENASE (GLDH)		-	
CREATININE: SERUN by ENZYMATIC, SPEC		2.55 <sup>H</sup>	mg/dL	0.40 - 1.20
BLOOD UREA NITRO	GEN (BUN): SERUM	27.21 <sup>H</sup>	mg/dL	7.0 - 25.0
by calculated, spe BLOOD UREA NITRO	GEN (BUN)/CREATININE	10.67	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPE UREA/CREATININE R		22.84	RATIO	
by CALCULATED, SPE		22.04	KATIO	
URIC ACID: SERUM		7.88 <sup>H</sup>	mg/dL	2.50 - 6.80
CALCIUM: SERUM	SE PEROXIDASE	9.34	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE			C C	
PHOSPHOROUS: SER	UM ATE, SPECTROPHOTOMETRY	4.68	mg/dL	2.30 - 4.70
ELECTROLYTES				
sodium: serum		140.5	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV		4.02	mana al /l	
POTASSIUM: SERUM by ISE (ION SELECTIV		4.03	mmol/L	3.50 - 5.00
CHLORIDE: SERUM		105.38	mmol/L	90.0 - 110.0
by ISE (ION SELECTIVI	e electrode) RULAR FILTERATION RATE			
	RULAR FILTERATION RATE	23.5		
(eGFR): SERUM		20.0		
by CALCULATED				
NOTE 2				
Advice Interpretation:		KINDLY CORREL	ATE CLINICALLY	

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



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EFERRED BY	:			<b>REGISTRATION D</b>	<b>ATE</b> : 09	/Jul/2024 11:4	41 AM	
ARCODE NO.	:01512805			COLLECTION DAT		/Jul/2024 11:5		
LIENT CODE.	: KOS DIAGN(	STICIAB		REPORTING DATI		/Jul/2024 03:1		
LIENT ADDRESS		HOLSON ROAD, AMB						
est Name			Value	Un	it	Biologica	al Reference ir	nterval
. Urine reabsorption Reduced muscle m	ass (subnormal	creatinine production	)					
2. Urine reabsorption 3. Reduced muscle m 4. Certain drugs (e.g. <b>NCREASED RATIO (&gt;2</b> 4. Postrenal azotemia 5. Prerenal azotemia 6. Acute tubular necr 7. Low protein diet ar 6. Severe liver disease 6. Other causes of de 6. Repeated dialysis ( 6. Inherited hyperam 7. SIADH (syndrome of 8. Pregnancy. 7. Phenacimide thera 7. Rhabdomyolysis (r 8. Muscular patients 7. NAPPROPIATE RATIO 7. Diabetic ketoacido 7. Diabetic ketoacido 7. CKD STAGE	(e.g. ureter colo ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. ad starvation. e. creased urea sy urea rather tha monemias (urea of inappropiate a <b>0:1) WITH INCR</b> py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <b>ULAR FILTERATIC</b>	creatinine production ucocorticoids) ATED CREATININE LEVE proportionately more t on renal disease. EASED BUN : In thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. In failure. In causes false increase eatinine ratio). with creatinine measur IN RATE: DESCRIPTION	LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea ne). ne with certain met	n. hodologies,re ASSOCIAT	ED FINDINGS	nal ratio when	dehydratic
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. Urine reabsorption Reduced muscle m Certain drugs (e.g. VCREASED RATIO (>2 Postrenal azotemia Prerenal azotemia ECREASED RATIO (< Acute tubular necr Low protein diet ar Severe liver disease Other causes of de Repeated dialysis ( Inherited hyperam SIADH (syndrome of Pregnancy. ECREASED RATIO (< Phenacimide thera Rhabdomyolysis (r Muscular patients VAPPROPIATE RATIO Diabetic ketoacido nould produce an in Cephalosporin ther STIMATED GLOMERL CKD STAGE	(e.g. ureter colo ass (subnormal tetracycline, glu <b>0:1) WITH ELEV</b> (BUN rises disp superimposed of <b>0:1) WITH DECR</b> osis. ad starvation. creased urea sy urea rather tha monemias (urea of inappropiate of <b>0:1) WITH INCR</b> py (accelerates eleases muscle who develop re sis (acetoacetat creased BUN/cr apy (interferes <b>DLAR FILTERATIC</b> Nor	creatinine production ucocorticoids) ATED CREATININE LEVE proportionately more t on renal disease. EASED BUN : In thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. In a f	LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea ne). ne with certain met	hodologies,re <b>ASSOCIA</b> T No pr Presence	ED FINDINGS	nal ratio when	dehydratic
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. Urine reabsorption . Reduced muscle m . Certain drugs (e.g. <b>VCREASED RATIO (&gt;2</b> . Postrenal azotemia <b>DECREASED RATIO (</b> . Acute tubular necr . Low protein diet ar . Severe liver disease . Other causes of de . Repeated dialysis ( . Inherited hyperam . SIADH (syndrome of . Pregnancy. <b>DECREASED RATIO (&lt;</b> . Phenacimide thera . Rhabdomyolysis (r . Muscular patients <b>VAPPROPIATE RATIO</b> . Diabetic ketoacido hould produce an in . Cephalosporin ther <u>STIMATED GLOMERU</u> <u>G1</u> <u>G2</u>	(e.g. ureter colo ass (subnormal tetracycline, glu 0:1) WITH ELEVA (BUN rises disp superimposed of 0:1) WITH DECF osis. Ind starvation. 2: creased urea sy urea rather tha monemias (urea of inappropiate a 0:1) WITH INCR py (accelerates eleases muscle who develop re : sis (acetoacetat creased BUN/cr apy (interferes ULAR FILTERATIO	creatinine production ucocorticoids) ATED CREATININE LEVE proportionately more t on renal disease. EASED BUN : In thesis. In creatinine diffuses of a is virtually absent in antidiuretic harmone) EASED CREATININE: conversion of creatine creatinine). nal failure. In a f	LS: han creatinin ut of extrace blood). due to tubul to creatinin e in creatinin rement).	ellular fluid). ar secretion of urea ne). ne with certain met <u>hL/min/1.73m2 )</u> >90 >90	hodologies,re <b>ASSOCIA</b> T No pr Presence	ED FINDINGS toteinuria e of Protein ,	nal ratio when	dehydratic



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

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









	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mrs. NIDHI SEHGAL		
AGE/ GENDER	: 42 YRS/FEMALE	PATIENT ID	: 1543135
COLLECTED BY	: SURJESH	REG. NO./LAB NO.	: 012407090033
<b>REFERRED BY</b>	:	<b>REGISTRATION DATE</b>	: 09/Jul/2024 11:41 AM
BARCODE NO.	: 01512805	COLLECTION DATE	: 09/Jul/2024 11:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 09/Jul/2024 03:14PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
Test Name		Value 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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NAME	: Mrs. NIDHI SEHGAL			
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BARCODE NO.	: 01512805		COLLECTION DATE	: 09/Jul/2024 11:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 09/Jul/2024 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AM	BALA CANT	ΓT	
Test Name		Value	Unit	Biological Reference interval
		ENDO	OCRINOLOGY	
	ТНҮ	ROID FUI	NCTION TEST: TOTAL	
TRIIODOTHYRONINI	E (T3): SERUM iescent microparticle immunoassa'	0.957 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE by CMIA (CHEMILUMIN	RUM iescent microparticle immunoassa'	8.37 Y)	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN	ING HORMONE (TSH): SERUM	2.661 <sub>Y)</sub>	μIU/mL	0.35 - 5.50
3rd GENERATION, ULT INTERPRETATION:	RASENSITIVE			
TSH levels are subject to day has influence on the		mulates the p	production and secretion of the m	m. The variation is of the order of 50%.Hence time of etabolically active hormones, thyroxine (T4)and er underproduction (hypothyroidism) or

overproduction(hyperthyroidism) of T4 and/or T3.

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 (eg: phenytoin , salicylates).

3. Serum T4 levies 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROX	INE (T4)	THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)			Age	Reference Range ( µIU/mL)	
0-7 Days	- 7 Days 0.20 - 2.65		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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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiolog <sub>)</sub> Chairman & Consultant Pathol		(Pathology)
NAME	: Mrs. NIDHI SEHGAL		
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	: 09/Jul/2024 02:34PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	VTT	
Test Name	Value	Unit	<b>Biological Reference interval</b>

rest ivame			value	Unit		ыоюуіса	
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 LE	VELS DURING PREGN	IANCY ( 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, idonie 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 goitre & Thyroiditis.

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

3. Autonomously functioning Thyroid adenoma

4. Secondary pituatary or hypothalmic 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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		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
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BARCODE NO.	: 01512805	COL	LECTION DATE	: 09/Jul/2024 11:50AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	: 09/Jul/2024 01:49PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		IMMUNOPATHOLO	GY/SEROLOGY	
	DENGUE FE	EVER COMBO SCREENING	- (NS1 ANTIGEN, IgG	AND IgM)
DENGUE NS1 ANTIGEN - by ICT (IMMUNOCHROMAT		NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY IgG by ICT (IMMUNOCHROMAT	OGRAPHY)	NEGATIVE (-ve)		NEGATIVE (-ve)
DENGUE ANTIBODY IgM by ICT (IMMUNOCHROMAT		NEGATIVE (-ve)		NEGATIVE (-ve)

## **INTERPRETATION:-**

1. This is a solid phase immunochromatographic ELISA test for the qualitative detection of the specific IgG and IgM antibodies against the Dengue virus.

2. The IgM antibodies take a minimum of 5-10 days in primary infection and 4-5 days in secondary infections to test positive and hence are suitable for the diagnosis of dengue fever only when the fever is approximately one week old.

3. The IgG antibodies develop at least two weeks after exposure to primary infection and subsequently remain positive for the rest of the life. A positive result is incapable of differentiating a current infection from a past infection.

4. The Dengue NS-1 antigen test is most suited for early diagnosis (within the first week of exposure).





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BARCODE NO.	: 01512805	COLI	ECTION DATE	: 09/Jul/2024 11:50AM	
<b>CLIENT CODE.</b> : KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>		:09/Jul/202401:49PM	
CLIENT CODE.	. ROS DIAGNOSTIC LAD				
	: 6349/1, NICHOLSON ROAI				
CLIENT ADDRESS			Unit	Biological Reference interval	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		Biological Reference interval	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT		<b>Biological Reference interval</b> 1 : 80	
CLIENT ADDRESS Test Name SALMONELLA TYPHI	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT Value WIDAL SLIDE AGGLU	TINATION TEST		
CLIENT ADDRESS Test Name SALMONELLA TYPHI by SLIDE AGGLUTINA SALMONELLA TYPHI	: 6349/1, NICHOLSON ROAI	D, AMBALA CANTT Value WIDAL SLIDE AGGLU NIL	TINATION TEST TITRE	1 : 80	

KOS Diagnostic Lab (A Unit of KOS Healthcare)

## **INTERPRETATION:**

1. Titres of 1:80 or more for "O" agglutinin is considered significant.

2. Titres of 1:160 or more for "H" agglutinin is considered significant.

## LIMITATIONS:

1.Agglutinins usually appear by 5th to 6th day of illness of enteric fever, hence a negative result in early stage is inconclusive. The titre then rises till 3rd or 4th week, after which it declines gradually.

2.Lower titres may be found in normal individuals.

3.A single positive result has less significance than the rising agglutination titre, since demonstration of rising titre four or more in 1st and 3rd week is considered as a definite evidence of infection.

4.A simultaneous rise in H agglutinins is suggestive of paratyphoid infection.

#### NOTE:

1. Individuals with prior infection or immunization with TAB vaccine may develop an ANAMNESTIC RESPONSE (False-Positive) during an unrelated fever i.e High titres of antibodies to various antigens. This may be differentiated by repitition of the test after a week.

2. The anamnestic response shows only a transient rise, while in enteric fever rise is sustained.

3.H agglutinins tend to persist for many months after vaccination but O agglutinins tend to disappear sooner i.e within 6 months. Therefore rise in Oagglutinins indicate recent infection.





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NAME : Mrs. NID	HI SEHGAL			
AGE/ GENDER : 42 YRS/F		PATIE	NT ID	: 1543135
<b>COLLECTED BY</b> : SURJESH		REG. N	0./LAB NO.	: 012407090033
<b>REFERRED BY</b> :		REGIS	<b>FRATION DATE</b>	: 09/Jul/2024 11:41 AM
<b>BARCODE NO.</b> : 01512805	5	COLLE	CTION DATE	: 09/Jul/2024 11:50AM
<b>CLIENT CODE.</b> : KOS DIAG	NOSTIC LAB	REPOR	RTING DATE	: 09/Jul/2024 12:50PM
<b>CLIENT ADDRESS</b> : 6349/1, N	NICHOLSON ROAD, AMB	ALA CANTT		
	,			
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PATH	OLOGY	
		INE & MICROSC		
	URINE ROUT	INE & MICRUSC	OPIC EXAMINAT	ION
PHYSICAL EXAMINATION				
QUANTITY RECIEVED		10	ml	
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
COLOUR by DIP STICK/REFLECTANCE SPECT	POPULATOMETRY	AMBER YELLOW		PALE YELLOW
TRANSPARANCY	ROPHOTOMETRY	HAZY		CLEAR
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	HALI		GLEAR
SPECIFIC GRAVITY		<=1.005		1.002 - 1.030
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
CHEMICAL EXAMINATION				
REACTION		ACIDIC		
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
PROTEIN by DIP STICK/REFLECTANCE SPECT	POPUOTOMETRY	2+		NEGATIVE (-ve)
SUGAR	ROPHOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	nogativo		
рН		<=5.0		5.0 - 7.5
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
BILIRUBIN by DIP STICK/REFLECTANCE SPECT	POPHOTOMETRY	Negative		NEGATIVE (-ve)
NITRITE	KOFHOTOMETKT	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY.	Negative		
UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			
KETONE BODIES	DODUOTOMETRY	Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT BLOOD	RUFAUIUNEIKY	TRACE		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY	INAUL		
ASCORBIC ACID		NEGATIVE (-ve)		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECT	ROPHOTOMETRY			

**MICROSCOPIC EXAMINATION** 



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

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Dr. Yugam Chopra Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist MD (Pathology) CEO & Consultant Pathologist NAME : Mrs. NIDHI SEHGAL AGE/ GENDER : 42 YRS/FEMALE **PATIENT ID** :1543135 **COLLECTED BY** : SURJESH REG. NO./LAB NO. :012407090033 **REFERRED BY REGISTRATION DATE** :09/Jul/2024 11:41 AM : **COLLECTION DATE BARCODE NO.** :01512805 :09/Jul/2024 11:50AM **CLIENT CODE.** : KOS DIAGNOSTIC LAB **REPORTING DATE** :09/Jul/2024 12:50PM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT

Test Name	Value	Unit	<b>Biological Reference interval</b>
RED BLOOD CELLS (RBCs) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	2-3	/HPF	0 - 3
US CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	5-7	/HPF	0 - 5
PITHELIAL CELLS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	10-12	/HPF	ABSENT
RYSTALS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ASTS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
ACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
THERS by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
RICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	ABSENT		ABSENT

\*\*\* End Of Report \*\*\*





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