A PIONEER DIAGNOSTIC CENTRE

【 0171-2532620, 8222896961 🛛 🖾 pkrjainhealthcare@gmail.com

NAME	: Mr. PIYUSH			
AGE/ GENDER	: 34 YRS/MALE		PATIENT ID	: 1547469
COLLECTED BY	:		REG. NO./LAB NO.	: 122407130006
REFERRED BY	:		REGISTRATION DATE	: 13/Jul/2024 09:09 AM
BARCODE NO.	: 12503573		COLLECTION DATE	: 13/Jul/2024 09:37AM
CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTIT	UTE	REPORTING DATE	: 13/Jul/2024 01:56PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBA	LA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.2	
	COI	MPLETE BL	OOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB))	15.7	gm/dL	12.0 - 17.0
RED BLOOD CELL (RE		4.56	Millions/cr	mm 3.50 - 5.00
PACKED CELL VOLUN	OCUSING, ELECTRICAL IMPEDENCE NE (PCV) UTOMATED HEMATOLOGY ANALYZER	44.1	%	40.0 - 54.0
MEAN CORPUSCULA		96.6	KR fl	80.0 - 100.0
MEAN CORPUSCULA	R HAEMOGLOBIN (MCH) AUTOMATED HEMATOLOGY ANALYZER	34.5 ^H	pg	27.0 - 34.0
by CALCULATED BY A	R HEMOGLOBIN CONC. (MCHC)	35.7	g/dL	32.0 - 36.0
by CALCULATED BY A	ION WIDTH (RDW-CV)	14.1	%	11.00 - 16.00
	ION WIDTH (RDW-SD) UTOMATED HEMATOLOGY ANALYZER	52.5	fL	35.0 - 56.0
MENTZERS INDEX		21.18	RATIO	BETA THALASSEMIA TRAIT: < 13 IRON DEFICIENCY ANEMIA: >13.
GREEN & KING INDE by CALCULATED	Х	29.93	RATIO	BETA THALASSEMIA TRAIT: < = 65.0 IRON DEFICIENCY ANEMIA: > 65
WHITE BLOOD CELLS	<u>S (WBCS)</u>			
TOTAL LEUCOCYTE C by FLOW CYTOMETRY DIFFERENTIAL LEUCO	Y BY SF CUBE & MICROSCOPY	8800	/cmm	4000 - 11000
NEUTROPHILS	Y BY SF CUBE & MICROSCOPY	50 ^L	%	50 - 70
LYMPHOCYTES	Y BY SF CUBE & MICROSCOPY	40 ^H	%	20 - 40
EOSINOPHILS		4	%	1 - 6

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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST



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Test Name		Value	Unit	Biological Reference interval
by FLOW CYTOMETE	RY BY SF CUBE & MICROSCOPY			5
MONOCYTES		6	%	2 - 12
	RY BY SF CUBE & MICROSCOPY			
BASOPHILS	RY BY SF CUBE & MICROSCOPY	0	%	0 - 1
-	CYTES (WBC) COUNT			
ABSOLUTE NEUTRO		4400	/cmm	2000 - 7500
	RY BY SF CUBE & MICROSCOPY		, smith	
ABSOLUTE LYMPHO		3520 ^L	/cmm	800 - 4900
ABSOLUTE EOSINO	RY BY SF CUBE & MICROSCOPY	352	/cmm	40 - 440
	RY BY SF CUBE & MICROSCOPY	332	KR / Chill	40 - 440
ABSOLUTE MONOC		52 <mark>8</mark>	/cmm	80 - 880
-	RY BY SF CUBE & MICROSCOPY	0	lonere	0, 110
ABSOLUTE BASOPH	11L COUNT RY BY SF CUBE & MICROSCOPY	0	/cmm	0 - 110
	THER PLATELET PREDICTIVE MARKE	<u>. RS.</u>		
PLATELET COUNT (I	PLT)	284000	/cmm	150000 - 450000
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELETCRIT (PCT) FOCUSING, ELECTRICAL IMPEDENCE	0.24	%	0.10 - 0.36
MEAN PLATELET V		8	fL	6.50 - 12.0
by HYDRO DYNAMIC	FOCUSING, ELECTRICAL IMPEDENCE			
PLATELET LARGE CE		49000	/cmm	30000 - 90000
<i>by HYDRO DYNAMIC</i> PLATELET LARGE CI	FOCUSING, ELECTRICAL IMPEDENCE	17.4	%	11.0 - 45.0
	FOCUSING, ELECTRICAL IMPEDENCE	17.4	/0	11.0 - 45.0
	JTION WIDTH (PDW)	16.1	%	15.0 - 17.0
-	FOCUSING, ELECTRICAL IMPEDENCE			
NOTE: TEST COND	UCTED ON EDTA WHOLE BLOOD			



NAME

: Mr. PIYUSH



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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INS	TITUTE RE I	PORTING DATE	: 13/Jul/2024 01:57PM
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HARYA	NA	
Test Name		Value	Unit	Biological Reference interval
		20	mm/1st h	r 0-20
by MODIFIED WESTER INTERPRETATION: 1. ESR is a non-specif immune disease, but	MENTATION RATE (ESR) RGREN AUTOMATED METHOD Tic test because an elevated resu does not tell the health practitic	20 It often indicates the oner exactly where the	e inflammation is in the	r 0 - 20 on associated with infection, cancer and auto body or what is causing it.
as C-reactive protein	be used to monitor disease active ematosus			bicallý used in conjunctión with other test suc bove diseases as well as some others, such as
A low ESR can be see (polycythaemia), sign	n with conditions that inhibit the	ount (leucocytosis), a	on of red blood cells, sund some protein abnor	uch as a high red blood cell count rmalities. Some changes in red cell shape (suc
1. ESR and C - reactiv	e protein (C-RP) are both marker	s of inflammation.	t of inflammation or as	it resolves

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.

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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440 Dated 17.5.2012 u/s 80 G OF INCOME TAX ACT. PAN NO. AAAAP1600. **REPORT ATTRACTS THE CONDITIONS PRINTED OVERLEAF (P.T.O.)**



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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CLIENT CODE.	: P.K.R JAIN HEALTHCARE INSTITUTE		REPORTING DATE	: 13/Jul/2024 03:35PM	
CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, A	MBALA CITY - HAR	2 YANA		
Test Name		Value	Unit	Biological Reference interval	
	CLIN	ICAL CHEMIST	RY/BIOCHEMISTR	Y	
	CLIN		FRY/BIOCHEMISTR FASTING (F)	Y	
GLUCOSE FASTING (F): PLASMA			NORMAL: < 100.0	
•		GLUCOSE	FASTING (F)		

A fasting plasma glucose level below 100 mg/di 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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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AN	MBALA CITY - HA	RYANA	
Test Name		Value	Unit	Biological Reference interval
		LIPID PR	OFILE : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL OX		229.6 ^H	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.
TRIGLYCERIDES: SER by GLYCEROL PHOSP	RUM PHATE OXIDASE (ENZYMATIC)	130.66	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (by SELECTIVE INHIBITI		56.1	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPE		147.37 ^H	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 CHOLESTE by CALCULATED, SPE		173.5 ^H	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 CHOLESTEROL:		26.13	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN by CALCULATED, SPE	M	589.86	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	ratio: serum	4.09	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: SER by CALCULATED, SPE		2.63	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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NOT VALID FOR MEDICO LEGAL PURPOSE



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CLIENT ADDRESS	: NASIRPUR, HISSAR ROAD, AMBALA CITY	HARYANA	
Test Name	Value	Unit	Biological Reference interval

TRIGLYCERIDES/HDL RATIO: SERUM RATIO 3.00 - 5.00 2.33^L by CALCULATED, SPECTROPHOTOMETRY

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	: NASIRPUR, HISSAR ROAD, AM	BALA CITY - H	ARYANA		
Test Name		Value	Unit	Biological Reference interva	
	LIV	ER FUNCTIO	ON TEST (COMPLETE)		
BILIRUBIN TOTAL: S		0.35	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20	
	CONJUGATED): SERUM	0.13	mg/dL	0.00 - 0.40	
BILIRUBIN INDIRECT by CALCULATED, SPE	CUNCONJUGATED): SERUM	0.22	mg/dL	0.10 - 1.00	
SGOT/AST: SERUM	RIDOXAL PHOSPHATE	24.26	U/L	7.00 - 45.00	
SGPT/ALT: SERUM	RIDOXAL PHOSPHATE	<mark>42.57</mark>	KR U/L	0.00 - 49.00	
AST/ALT RATIO: SER by CALCULATED, SPE		0.57	RATIO	0.00 - 46.00	
ALKALINE PHOSPHA by para nitrophen propanol	TASE: SERUM YL PHOSPHATASE BY AMINO METHYL	78.13	U/L	40.0 - 130.0	
GAMMA GLUTAMYL by szasz, spectrof	TRANSFERASE (GGT): SERUM	47.66	U/L	0.00 - 55.0	
TOTAL PROTEINS: SE by BIURET, SPECTRO		7.17	gm/dL	6.20 - 8.00	
ALBUMIN: SERUM by bromocresol g	REEN	4.44	gm/dL	3.50 - 5.50	
GLOBULIN: SERUM by CALCULATED, SPE	ECTROPHOTOMETRY	2.73	gm/dL	2.30 - 3.50	
A : G RATIO: SERUM		1.63	RATIO	1.00 - 2.00	

by CALCULATED, SPECTROPHOTOMETRY

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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INTERPRETATION



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Test Name	Value	Unit	Biological Reference interval
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS		> 1.3 (Slightly Increased)	

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	
	KI	ONEY FUNCT	ION TEST (COMPLETE)		
UREA: SERUM by UREASE - GLUTAM.	ATE DEHYDROGENASE (GLDH)	32.6	mg/dL	10.00 - 50.00	
CREATININE: SERUM		1.18	mg/dL	0.40 - 1.40	
BLOOD UREA NITRO	CTROPHOTOMETRY	15.23	mg/dL	7.0 - 25.0	
BLOOD UREA NITRO RATIO: SERUM by CALCULATED, SPE	GEN (BUN)/CREATININE CTROPHOTOMETRY	12.91	RATIO	10.0 - 20.0	
UREA/CREATININE R		27.63	RATIO		
URIC ACID: SERUM by URICASE - OXIDASI	E PEROXIDASE	5.31	mg/dL	3.60 - 7.70	
CALCIUM: SERUM by ARSENAZO III, SPEC	CTROPHOTOMETRY	10.54	mg/dL	8.50 - 10.60	
PHOSPHOROUS: SER by PHOSPHOMOLYBD. ELECTROLYTES	UM ATE, SPECTROPHOTOMETRY	3.26	mg/dL	2.30 - 4.70	
SODIUM: SERUM by ISE (ION SELECTIVE	E ELECTRODE)	143.5	mmol/L	135.0 - 150.0	
POTASSIUM: SERUM by ISE (ION SELECTIVE		4.74	mmol/L	3.50 - 5.00	
CHLORIDE: SERUM by ISE (ION SELECTIVE ESTIMATED GLOMER	E ELECTRODE) RULAR FILTERATION RATE	107.63	mmol/L	90.0 - 110.0	
(eGFR): SERUM by CALCULATED INTERPRETATION:	RULAR FILTERATION RATE	83			

I o 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.

2. Catabolic states with increased tissue breakdown.



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3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus
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BARCODE NO. : 12503573 COLLECTION DATE : 13/Jul/2024 09:37AM CLIENT CODE. : P.K.R JAIN HEALTHCARE INSTITUTE REPORTING DATE : 13/Jul/2024 03:35PM CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Test Name Value Unit Biological Reference interval 3. Gl haemorrhage. 4. High protein intake. 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet bourns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN :
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CLIENT ADDRESS : NASIRPUR, HISSAR ROAD, AMBALA CITY - HARYANA Test Name Value Unit Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus 5. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet purns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia superimposed on renal disease. Decreased RATIO (<10:1) WITH DECREASED BUN :
Test Name Value Unit Biological Reference interval 3. GI haemorrhage. 4. High protein intake. 5. Impaired renal function plus 5. Impaired renal function plus 6. Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet pourns, surgery, cachexia, high fever). 7. Urine reabsorption (e.g. ureter colostomy) 8. Reduced muscle mass (subnormal creatinine production) 9. Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: 1. Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). 2. Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN : EVENCE
 GI haemorrhage. High protein intake. Impaired renal function plus Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet burns, surgery, cachexia, high fever). Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (subnormal creatinine production) Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN :
 High protein intake. Impaired renal function plus Excess protein intake or production or tissue breakdown (e.g. infection, GI bleeding, thyrotoxicosis, Cushing's syndrome, high protein diet, burns, surgery, cachexia, high fever). Urine reabsorption (e.g. ureter colostomy) Reduced muscle mass (subnormal creatinine production) Certain drugs (e.g. tetracycline, glucocorticoids) INCREASED RATIO (>20:1) WITH ELEVATED CREATININE LEVELS: Postrenal azotemia (BUN rises disproportionately more than creatinine) (e.g. obstructive uropathy). Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN :
I. ACUTE TUDUTAL HECTOSIS.
2. Prerenal azotemia superimposed on renal disease. DECREASED RATIO (<10:1) WITH DECREASED BUN :

3. Severe liver disease.

4. Other causes of decreased urea synthesis.

5. Repeated dialysis (urea rather than creatinine diffuses out of extracellular fluid).

6. Inherited hyperammonemias (urea is virtually absent in blood).

7. SIADH (syndrome of inappropiate antidiuretic harmone) due to tubular secretion of urea.

8. Pregnancy.

DECREASED RATIO (<10:1) WITH INCREASED CREATININE:

1. Phenacimide therapy (accelerates conversion of creatine to creatinine).

2. Rhabdomyolysis (releases muscle creatinine).

3. Muscular patients who develop renal failure.

INAPPROPIATE RATIO:

1. Diabetic ketoacidosis (acetoacetate causes false increase in creatinine with certain methodologies, resulting in normal ratio when dehydration should produce an increased BUN/creatinine ratio).

2. Cephalosporin therapy (interferes with creatinine measurement).

CKD STAGE	DESCRIPTION	GFR (mL/min/1.73m2)	ASSOCIATED FINDINGS
G1	Normal kidney function	>90	No proteinuria
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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NAME	: Mr. PIYUSH		
AGE/ GENDER	: 34 YRS/MALE	PATIENT ID	: 1547469
COLLECTED BY	:	REG. NO./LAB NO.	: 122407130006
REFERRED BY	:	REGISTRATION DATE	: 13/Jul/2024 09:09 AM
BARCODE NO.	: 12503573	COLLECTION DATE	: 13/Jul/2024 09:37AM
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Test Name	Value	Unit	Biological Reference interval

COMMENTS:

1. 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. 2. eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012

3. 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 eGFR with Cystatin C for confirmation of CKD

4. eGFR category G1 OR G2 does not fullfill 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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<u></u>				
Test Name		Value	Unit	Biological Reference interval
		ENDOC	RINOLOGY	
	IHY		CTION TEST: TOTAL	
TRIIODOTHYRONIN	E (T3): SERUM	1.322	ng/mL	0.35 - 1.93
	IESCENT MICROPARTICLE IMMUNOASSAY			
THYROXINE (T4): SE		8.2	µgm/dL	4.87 - 12.60
	IESCENT MICROPARTICLE IMMUNOASSAY)		
	ING HORMONE (TSH): SERUM	2.444	μIU/mL	0.35 - 5.50
	IESCENT MICROPARTICLE IMMUNOASSAY)		
3rd GENERATION, ULT	RASENSITIVE			

INTERPRETATION:

TSH levels are subject to circadian variation, reaching peak levels between 2-4 a.m and at a minimum between 6-10 pm. The variation is of the order of 50%. Hence time of the day has influence on the measured serum TSH concentrations. TSH stimulates the production and secretion of the metabolically active hormones, thyroxine (T4) and trilodothyronine (T3). Failure at any level of regulation of the hypothalamic-pituitary-thyroid axis will result in either 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 levles 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.

TRIIODOTH	YRONINE (T3)	THYROXINE (T4)		THYROID STIMULATING HORMONE	
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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Test Name			Value	Unit		Biologi	ical 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 PREC	NANCY (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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Test Name		Value	Unit	Biological Reference interva
		CLINICAL PA	THOLOGY	
	URINE	ROUTINE & MICRO	DSCOPIC EXAMINAT	ION
PHYSICAL EXAMINATIO	<u>DN</u>			
QUANTITY RECIEVED		30	ml	
•	NCE SPECTROPHOTOMETRY			
COLOUR by DIP STICK/REFLECTAL	NCE SPECTROPHOTOMETRY	AMBER YELLO	JVV	PALE YELLOW
TRANSPARANCY	VOE OF EOTINOI THOTOMETRY	CLEAR		CLEAR
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY			
SPECIFIC GRAVITY		1.02		1.002 - 1.030
	NCE SPECTROPHOTOMETRY			
CHEMICAL EXAMINATI				
REACTION	NCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN	VCE SPECIROPHOTOMETRY	NEGATIVE (-v	ve)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY		0)	
SUGAR		NEGATIVE (-v	re)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY			
pH	NCE SPECTROPHOTOMETRY	5.5		5.0 - 7.5
BILIRUBIN		NEGATIVE (-v	ve)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY		-,	
NITRITE		NEGATIVE (-v	re)	NEGATIVE (-ve)
•	NCE SPECTROPHOTOMETRY.			0.2 1.0
UROBILINOGEN by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY	NOT DETECTI	ED EU/dL	0.2 - 1.0
KETONE BODIES		NEGATIVE (-v	re)	NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY			
BLOOD		NEGATIVE (-v	re)	NEGATIVE (-ve)
by DIP STICK/REFLECTAI	NCE SPECTROPHOTOMETRY	NEGATIVE (-v		NEGATIVE (-ve)
	NCE SPECTROPHOTOMETRY	NÉGATIVÉ (-V	5)	INLOATIVE (-VE)
MICROSCOPIC EXAMIN				

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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (R	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
EPITHELIAL CELLS	CENTRIFUGED URINARY SEDIMENT	1-2	/HPF	ABSENT
CRYSTALS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
CASTS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
BACTERIA by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS by MICROSCOPY ON C	CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)

TRICHOMONAS VAGINALIS (PROTOZOA) by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

*** End Of Report

ABSENT



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