



	Dr. Vinay C MD (Pathology Chairman & Co			n Chopra 9 (Pathology) 1 Pathologist	
NAME	: Mr. MANISH				
AGE/ GENDER	: 46 YRS/MALE	P	ATIENT ID	: 1665620	
COLLECTED BY	:	R	EG. NO./LAB NO.	:012411080054	
REFERRED BY	: DR. RESHAM SINGH	R	EGISTRATION DATE	: 08/Nov/2024 03:10 PM	
BARCODE NO.	: 01520384	C	OLLECTION DATE	:08/Nov/202403:10PM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	:08/Nov/202405:48PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Refe	erence interval
		ENDOCRI	NOLOGY		
	T	HYROID FUNCTI	ION TEST: TOTAL		
TRIIODOTHYRONI	NE (T3): SERUM VESCENT MICROPARTICLE IMMUNO/	0.938 ASSAY)	ng/mL	0.35 - 1.93	
THYROXINE (T4): S	SERUM VESCENT MICROPARTICLE IMMUNO	8.61 ASSAY)	µgm/dI	4.87 - 12.60	
	ATING HORMONE (TSH): SER		µIU/mL	0.35 - 5.50	
3rd GENERATION, ULT <u>INTERPRETATION</u> :	RASENSITIVE				
day has influence on the triiodothyronine (T3).Fai	circadian variation, reaching peak leve measured serum TSH concentrations. T ilure at any level of regulation of the l yroidism) of T4 and/or T3.	SH stimulates the produ	ction and secretion of the r	netabolically active hormones, thy	roxine (T4)and
CLINICAL CONDITION	Т3		T4	TSH]
Primary Hypothyroidis	m: Reduced		Reduced	Increased (Significantly)	

CLINICAL CONDITION	13	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	YRONINE (T3)	THYROX	(INE (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
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00





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

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







Lab ncare)	EXCELLENCE IN HEALTHCARE & DIAGNOSTICS	
gy) blogist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist	

NAME	: Mr. MANISH		
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Test Name			Value	Uni	t	Biological Reference interva
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	
	RECON	MMENDATIONS OF TSH L	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.

Dr. Vinay Chopra MD (Pathology & Microbiolog Chairman & Consultant Patho

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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Test Name		Value	Unit	Biological Reference interva
	IMI	MUNOPATH	OLOGY/SEROLOGY	ř
HEPATITIS C ANTI	HEPATI		HCV) ANTIBODY: TO	DTAL
		TIS C VIRUS (0.06		
by CMIA (CHEMILUMIN HEPATITIS C ANTI	HEPATI BODY (HCV) TOTAL: SERUM	TIS C VIRUS (0.06	HCV) ANTIBODY: TO S/CO	VTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT	HEPATI BODY (HCV) TOTAL: SERUM VESCENT MICROPARTICLE IMMUNO/ BODY (HCV) TOTAL	ASSAY) NON - RE	HCV) ANTIBODY: TO S/CO	VTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMI) HEPATITIS C ANTI RESULT by CMIA (CHEMILUMI)	HEPATI BODY (HCV) TOTAL: SERUM NESCENT MICROPARTICLE IMMUNO	ASSAY) NON - RE	HCV) ANTIBODY: TO S/CO	VTAL NEGATIVE: < 1.00
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	HEPATI BODY (HCV) TOTAL: SERUM VESCENT MICROPARTICLE IMMUNO/ BODY (HCV) TOTAL	ASSAY) NON - RE	HCV) ANTIBODY: TO S/CO EACTIVE REMARKS	OTAL NEGATIVE: < 1.00 POSITIVE: > 1.00
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	HEPATI BODY (HCV) TOTAL: SERUM VESCENT MICROPARTICLE IMMUNO/ BODY (HCV) TOTAL	ASSAY)	HCV) ANTIBODY: TO S/CO EACTIVE	DTAL NEGATIVE: < 1.00 POSITIVE: > 1.00
by CMIA (CHEMILUMIN HEPATITIS C ANTI RESULT by CMIA (CHEMILUMIN INTERPRETATION:-	HEPATI BODY (HCV) TOTAL: SERUM NESCENT MICROPARTICLE IMMUNO/ BODY (HCV) TOTAL NESCENT MICROPARTICLE IMMUNO/ ESULT (INDEX) < 1.00	ASSAY)	HCV) ANTIBODY: TO S/CO EACTIVE <u>REMARKS</u> NON - REACTIVE/NOT - DET	DTAL NEGATIVE: < 1.00 POSITIVE: > 1.00

2. Routine screening of low and high prevelance population including blood donors.

NOTE:

1. False positive results are seen in Auto-immune disease, Rheumatoid Factor, HYpergammaglobulinemia, Paraproteinemia, Passive antibody transfer, Anti-idiotypes and Anti-superoxide dismutase.

2. False negative results are seen in early Acute infection, Immunosuppression and Immuno-incompetence.

3. HCV-RNA PCR recommended in all reactive results to differentiate between past and present infection.





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Test Name		Value	Unit	Biological Reference interval
Test Name	HEPATITI		Unit E ANTIGEN (HBsAg) U	
HEPATITIS B SURF	ACE ANTIGEN (HBsAg):	S B SURFACI 0.34		
HEPATITIS B SURF SERUM by CMIA (CHEMILUMIN HEPATITIS B SURF RESULT		S B SURFACI 0.34 SSAY) NON REA	E ANTIGEN (HBsAg) U S/CO	J LTRA NEGATIVE: < 1.0
HEPATITIS B SURF SERUM by CMIA (CHEMILUMIN HEPATITIS B SURF RESULT by CMIA (CHEMILUMIN INTERPRETATION:	TACE ANTIGEN (HBsAg): IESCENT MICROPARTICLE IMMUNOAS TACE ANTIGEN (HBsAg) IESCENT MICROPARTICLE IMMUNOAS	S B SURFACI 0.34 SSAY) NON REA	E ANTIGEN (HBsAg) U S/CO ACTIVE	J LTRA NEGATIVE: < 1.0
HEPATITIS B SURF SERUM by CMIA (CHEMILUMIN HEPATITIS B SURF RESULT by CMIA (CHEMILUMIN <u>INTERPRETATION:</u> RESUL	TACE ANTIGEN (HBsAg): IESCENT MICROPARTICLE IMMUNOAS TACE ANTIGEN (HBsAg)	S B SURFACI 0.34 SSAY) NON REA	E ANTIGEN (HBsAg) U S/CO	J LTRA NEGATIVE: < 1.0

Hepatitis B Virus (HBV) is a member of the Hepadna virus family causing infection of the liver with extremely variable clinical features. Hepatitis B is transmitted primarily by body fluids especially serum and also spread effectively sexually and from mother to baby. In most individuals HBV hepatitis is self limiting, but 1-2 % normal adolescent and adults develop Chronic Hepatitis. Frequency of chronic HBV infection is 5-10% in immunocompromised patients and 80 % neonates. The initial serological marker of acute infection is HBsAg which typically appears 2-3 months after infection and disappears 12-20 weeks after onset of symtoms. Persistence of HBsAg for more than 6 months indicates carrier state or Chronic Liver disease.







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 KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana

 KOS Molecular Lab: IInd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana

 0171-2643898, +91 99910 43898
 care@koshealthcare.com

 www.koshealthcare.com
 www.koshealthcare.com



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT