



	MD (Path	ay Chopra ology & Microbiology) & Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. SWARAN KANTA			
AGE/ GENDER	: 60 YRS/MALE	PAT	FIENT ID	: 1702160
COLLECTED BY	:	REG	G. NO./LAB NO.	: 012412180005
REFERRED BY	:	REG	GISTRATION DATE	: 18/Dec/2024 08:12 AM
BARCODE NO.	:01522604	COL	LLECTION DATE	: 18/Dec/2024 08:15AM
CLIENT CODE.	: KOS DIAGNOSTIC LAP	3 REI	PORTING DATE	: 18/Dec/2024 10:38AM
CLIENT ADDRESS	: 6349/1, NICHOLSON	ROAD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	C	LINICAL CHEMISTR	Y/BIOCHEMIST	RY
		GLUCOSE FA	STING (F)	
	G (F): PLASMA	116.83 ^H	mg/dL	NORMAL: < 100.0

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

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.

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.





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

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

KOS Central Lab: 6349/1, Nicholson Road, Ambala Cantt -133 001, Haryana KOS Molecular Lab: Ilnd Floor, Parry Hotel, Staff Road, Opp. GPO, Ambala Cantt -133 001, Haryana 0171-2643898, +91 99910 43898 | care@koshealthcare.com | www.koshealthcare.com







	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Patholog		Dr. Yugam Chopra MD (Pathology) t CEO & Consultant Pathologist		
NAME	: Mr. SWARAN KANTA				
AGE/ GENDER	: 60 YRS/MALE	PAT	TENT ID	: 1702160	
COLLECTED BY	:	REG	. NO./LAB NO.	: 012412180005	
REFERRED BY	:	REC	ISTRATION DATE	: 18/Dec/2024 08:08 AM	
BARCODE NO.	:01522604	COI	LECTION DATE	: 18/Dec/2024 08:15AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	ORTING DATE	: 18/Dec/2024 10:58AM	
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
		URIC A	CID		
URIC ACID: SERUM	1			3.60 - 7.70	
by URICASE - OXIDAS INTERPRETATION:- 1.GOUT occurs wher 2.Uric Acid is the end ntestinal tract by m INCREASED:- (A).DUE TO INCREASE	SE PEROXIDASE In high levels of Uric Acid in the k I product of purine metabolism icrobial degradation. ED PRODUCTION:-	5.55	mg/dL form & accumulate are	3.60 - 7.70 ound a joint. e kidneys and to a smaller degree in the	
by URICASE - OXIDAS INTERPRETATION: 1.GOUT occurs wher 2.Uric Acid is the end ntestinal tract by m NCREASED: (A).DUE TO INCREASE 1.Idiopathic primary 2.Excessive dietary p 3.Cytolytic treatmen 4.Polycythemai vera 5.Sickle cell anaemia B).DUE TO DECREASE 1.Alcohol ingestion. 2.Thiazide diuretics. 3.Lactic acidosis. 4.Aspirin ingestion. (5.Diabetic ketoacido 5.Renal failure due to DECREASED: (A).DUE TO DIETARY 1.Dietary deficiency 2.Fanconi syndrome 3.Multiple sclerosis	SE PEROXIDASE high levels of Uric Acid in the k product of purine metabolism icrobial degradation. ED PRODUCTION:- gout. urines (organ meats,legumes,ar t of malignancies especially leu & myeloid metaplasia. etc. ED EXCREATION (BY KIDNEYS) ess than 2 grams per day). isis or starvation. b any cause etc. DEFICIENCY of Zinc, Iron and molybdenum. & Wilsons disease.	5.55 blood cause crystals to . Uric acid is excreted to nchovies, etc). kemais & lymphomas.	mg/dL form & accumulate are to a large degree by the	ound a joint.	





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

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



Page 2 of 4





	Dr. Vinay Ch MD (Pathology & Chairman & Con		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. SWARAN KANTA				
AGE/ GENDER	: 60 YRS/MALE	PATIE	NT ID	: 1702160	
COLLECTED BY	:	REG. N	O./LAB NO.	: 012412180005	
REFERRED BY	:	REGIS	FRATION DATE	: 18/Dec/2024 08:08 AM	
BARCODE NO.	: 01522604	COLLE	CTION DATE	: 18/Dec/2024 08:15AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPOI	TING DATE	: 18/Dec/2024 10:38AM	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT			
Test Name		Value	Unit	Biological Reference in	terval
Test Name		Value ENDOCRINO		Biological Reference in	terval
Test Name	ТН		LOGY	Biological Reference in	terval
TRIIODOTHYRONI		ENDOCRINO YROID FUNCTION 0.96	LOGY	Biological Reference in 0.35 - 1.93	terval
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4):	NE (T3): SERUM	ENDOCRINO YROID FUNCTION 0.96 SSAY) 8.9	LOGY TEST: TOTAL		terval
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): by CMIA (CHEMILUMII THYROID STIMULI	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS SERUM	ENDOCRINO IYROID FUNCTION 0.96 SSAY) 8.9 SSAY) JM 1.913	LOGY TEST: TOTAL ng/mL	0.35 - 1.93	terval
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT	NE (T3): SERUM vescent microparticle immunoas SERUM vescent microparticle immunoas ATING HORMONE (TSH): SERU vescent microparticle immunoas	ENDOCRINO IYROID FUNCTION 0.96 SSAY) 8.9 SSAY) JM 1.913	LOGY TEST: TOTAL ng/mL µgm/dL	0.35 - 1.93 4.87 - 12.60	terval
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): by CMIA (CHEMILUMII THYROID STIMUL by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION:	NE (T3): SERUM vescent microparticle immunoas SERUM vescent microparticle immunoas ATING HORMONE (TSH): SERU vescent microparticle immunoas rasensitive	ENDOCRINO (YROID FUNCTION 0.96 SSAY) 8.9 SSAY) JM 1.913 SSAY)	LOGY TEST: TOTAL ng/mL μgm/dL μIU/mL	0.35 - 1.93 4.87 - 12.60 0.35 - 5.50	
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): - by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS SERUM NESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU NESCENT MICROPARTICLE IMMUNOAS TRASENSITIVE circadian variation, reaching peak levels measured serum TSH concentrations. TS illure at any level of regulation of the hy	ENDOCRINO (YROID FUNCTION 0.96 SSAY) 8.9 SSAY) JM 1.913 SSAY) : between 2-4 a.m and at a mi SH stimulates the production	LOGY TEST: TOTAL ng/mL µgm/dL µIU/mL	0.35 - 1.93 4.87 - 12.60 0.35 - 5.50 <i>The variation is of the order of 50%.Hence t</i> abolically active hormones, thyroxine (T4)a	ime of th
TRIIODOTHYRONI by CMIA (CHEMILUMII THYROXINE (T4): - by CMIA (CHEMILUMII THYROID STIMULA by CMIA (CHEMILUMII 3rd GENERATION, ULT INTERPRETATION: TSH levels are subject to day has influence on the triiodothyronine (T3).Fa	NE (T3): SERUM NESCENT MICROPARTICLE IMMUNOAS SERUM NESCENT MICROPARTICLE IMMUNOAS ATING HORMONE (TSH): SERU NESCENT MICROPARTICLE IMMUNOAS TRASENSITIVE circadian variation, reaching peak levels measured serum TSH concentrations. TS	ENDOCRINO (YROID FUNCTION 0.96 SSAY) 8.9 SSAY) JM 1.913 SSAY) : between 2-4 a.m and at a mi SH stimulates the production	LOGY TEST: TOTAL ng/mL µgm/dL µIU/mL	0.35 - 1.93 4.87 - 12.60 0.35 - 5.50 <i>The variation is of the order of 50%.Hence t</i> abolically active hormones, thyroxine (T4)a	ime of th

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:-

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT

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.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)		
Age	Refferance Range (ng/mL)			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)

 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







		Dr. Vinay Ch MD (Pathology & Chairman & Con			u gam Chop MD (Patholo sultant Patholog	egy)
NAME	: Mr. SWARA	N KANTA				
AGE/ GENDER	: 60 YRS/MA	LE		PATIENT ID	: 1702	2160
COLLECTED BY	:			REG. NO./LAB NO.	:012	2412180005
REFERRED BY	:			REGISTRATION DA	TE : 18/1	Dec/2024 08:08 AM
BARCODE NO.	:01522604			COLLECTION DATE	: 18/1	Dec/2024 08:15AM
CLIENT CODE.	: KOS DIAGN	OSTIC LAB		REPORTING DATE	: 18/1	Dec/2024 10:38AM
CLIENT ADDRESS	: 6349/1, NI	CHOLSON ROAD,	AMBALA CANTT			
Test Name			Value	Unit	t	Biological Reference interval
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	

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
	RECOMI	MENDATIONS OF TSH LI	EVELS DURING PREG	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, 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

*** End Of Report ***





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

