



	Dr. Vinay Ch MD (Pathology & Chairman & Con			(Pathology)	
NAME	: Mr. SUNIL KUMAR				
AGE/ GENDER	: 63 YRS/MALE	PATIENT ID		: 1767410	
COLLECTED BY	:	REG. NO./LAB NO.		: 012502230044	
REFERRED BY		REGISTRATION DATE		: 23/Feb/2025 11:50 AM	
BARCODE NO.	: 01526036	COLLECTION DATE		: 23/Feb/2025 11:53AM	
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE		: 23/Feb/2025 04:21PM	
			ATING DATE	. 23/ FeD/ 2023 04.21FW	
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTI			
Test Name		Value	Unit	Biological Reference interval	
		HAEMATOL	OGY		
	GLY	COSYLATED HAEMOO	LOBIN (HBA1C)		
GLYCOSYLATED HAE	MOGLOBIN (HbA1c):	5.9	%	4.0 - 6.4	
WHOLE BLOOD					
by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE		122.63	mg/dL	60.00 - 140.00	
by HPLC (HIGH PERFORM	ANCE LIQUID CHROMATOGRAPHY)	122100	ing, az		
INTERPRETATION:					
	AS PER AMERICAN DIAE	BETES ASSOCIATION (ADA):			
RE	REFERENCE GROUP		EMOGLOGIB (HBAIC) ii	n %	
	Non diabetic Adults >= 18 years		<5.7		
	lisk (Prediabetes)		5.7 – 6.4		
Diag	gnosing Diabetes		>= 6.5		
			e > 19 Years		
		Goals of Therapy:	< 7.0		
Iherapeutic	goals for glycemic control	Actions Suggested:	>8.0		
		Age < 19 Years Goal of therapy: <7.5			

COMMENTS:

1.Glycosylated hemoglobin (HbA1c) test is three monthly monitoring done to assess compliace with therapeutic regimen in diabetic patients.

2. Since Hb1c reflects long term fluctuations in blood glucose concentration, a diabetic patient who has recently under good control may still have high concentration of HbAlc. Converse is true for a diabetic previously under good control but now poorly controlled.

3. Target goals of < 7.0 % may be beneficial in patients with short duration of diabetes, long life expectancy and no significant cardiovascular disease. In patients with significant complications of diabetes, limited life expectancy or extensive co-morbid conditions, targetting a goal of < 7.0% may not be appropriate. 4. High

HbA1c (>9.0 -9.5 %) is strongly associated with risk of development and rapid progression of microvascular and nerve complications

5.Any condition that shorten RBC life span like acute blood loss, hemolytic anemia falsely lower HbA1c results.

6.HbA1c results from patients with HbSS,HbSC and HbD must be interpreted with caution, given the pathological processes including anemia, increased red cell turnover, and transfusion requirement that adversely impact HbA1c as a marker of long-term gycemic control.

7.Specimens from patients with polycythemia or post-splenctomy may exhibit increse in HbA1c values due to a somewhat longer life span of the red cells.





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
 www.koshealthcare.com



2 F 3 s a F 5 6 t 1 7

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	crobiology) MI	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. SUNIL KUMAR		
AGE/ GENDER	: 63 YRS/MALE	PATIENT ID	: 1767410
COLLECTED BY	:	REG. NO./LAB NO.	: 012502230044
REFERRED BY	:	REGISTRATION DATE	: 23/Feb/2025 11:50 AM
BARCODE NO.	: 01526036	COLLECTION DATE	: 23/Feb/2025 11:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 23/Feb/2025 04:21PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT	
Test Name		Value Unit	Biological Reference interva

Name : Age : Gender :	Age : Department : Sample Type : Whole Blo			Test Date : 23/02/2025 18:30:19 Sample ld : 01526036 Total Area : 10168	
Peak Name	Retention Time(s)	Absorbance	Area	Result (Area %)	
Hb A0	68	3134	9065	84.9	
HbA1c	37	61	636	5.9	
_a1c	26	37	259	2.4	
HbF	19	13	22	0.2	
Hba1b	14	29	101	0.9	
Hba1a	11	21	85	0.8	
0.03			1	Choromotography Hba1c	
0.025 -				Pibalic	
0.02-		w			
ling 0.015 −					
0.01-		7	1		
0.005 -	\sim				
0 10		70 80 90 1 me(S)	100 110 120 130		



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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT



		gy & Microbiology) Consultant Pathologist	Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. SUNIL KUMAR				
AGE/ GENDER	: 63 YRS/MALE	P	ATIENT ID	: 1767410	
COLLECTED BY	:	R	EG. NO./LAB NO.	:012502230044	
REFERRED BY	:	R	EGISTRATION DATE	: 23/Feb/2025 11:50 AM	
ARCODE NO.	:01526036	C	DLLECTION DATE	: 23/Feb/2025 11:53AM	
LIENT CODE.	: KOS DIAGNOSTIC LAB	R	EPORTING DATE	: 23/Feb/2025 02:12PM	
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT			
Test Name		Value	Unit	Biological Reference interval	
	CLI	NICAL CHEMISTI	RY/BIOCHEMIST		
	CLI	NICAL CHEMISTI CALC			
CALCIUM: SERUM					

2. Chronic renal failure is also frequently associated with hypocalcemia due to decreased vitamin-D synthesis as well as hyperphosphatemia and skeletal resistance to the action of parathyroid hormone (PTH).

3. NOTE:- A characteristic symptom of hypocalcemia is latent or manifest tetany and osteomalacia.

HYPERCALCEMIA (INCREASE CALCIUM LEVELS) CAUSES:-

1. Increased mobilization of calcium from the skeletal system or increased intestinal absorption.

2. Primary hyperparathyroidism (pHPT)

3.Bone metastasis of carcinoma of the breast, prostate, thyroid gland, or lung

NOTE:-Severe hypercalcemia may result in cardiac arrhythmia.





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





TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist		Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist		
NAME	: Mr. SUNIL KUMAR				
AGE/ GENDER	: 63 YRS/MALE		PATIENT ID	: 1767410	
COLLECTED BY	:		REG. NO./LAB NO.	:01250223	0044
REFERRED BY	:		REGISTRATION DATI	E : 23/Feb/202	5 11:50 AM
BARCODE NO.	: 01526036		COLLECTION DATE	:23/Feb/202	5 11:53AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 23/Feb/202	5 02:12PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMB/	ALA CANTT	,		
Test Name		Value	Unit	Biol	ogical Reference interval
		ENDOC	DINOLOCY		
			RINOLOGY		
			CTION TEST: FREI		
	RONINE (FT3): SERUM ESCENT MICROPARTICLE IMMUNOASSAY)	2.77	pg/m	L 1.60	0 - 3.90
FREE THYROXINE (0.88	ng/dI	. 0.70	0 - 1.50
, ,	TING HORMONE (TSH): SERUM	12.904 ^H	µIU/r	nL 0.3	5 - 5.50
by CMIA (CHEMILUMINE Brd GENERATION, ULTR	ESCENT MICROPARTICLE IMMUNOASSAY)	1.0001			
the order of 50 %. Her INCREASED TSH LEVEL 1. Primary hypothyroi hypothyroidism may v 2. Hypothyroid patien 3. Hashimotos thyroid 4. DRUGS: Amphetam 5. Neonatal period, in DECREASED TSH LEVEL 1. Primary hyperthyro 1. Toxic multi-nodular 2. Over replacement o 3. Autonomously func 4. Secondary pituatar 5. Acute psychiatric il 6. Severe dehydration. 7. DRUGS: Glucocortic 8. Pregnancy: 1st Trim NOTE:	ected to circardian variation, reaching nee time of the day has influence on the S : dism is accompanied by depressed servary from 3 times to more than 100 tir ts receiving insufficient thyroid replace ditis ines, idonie containing agents & dopa crease in 1st 2-3 days of life due to p S : didism is accompanied by elevated ser r goitre & Thyroiditis. of thyroid hormone in treatment of hyp etioning Thyroid adenoma y or hypothalmic hypothyroidism liness coids, Dopamine, Levodopa, T4 replace the the the total of the tot	ne measured erum FT3 & mes normal cement the mine antag ost-natal su rum FT3 & F pothyroidisu ement thera	d serum TSH concentration FT4 values and elevated depending upon degree rapy. onist. Juge T4 values along with de m. apy, Anti-thyroid drugs f	on. serum TSH levels. F of hypofunction. pressed TSH levels. or thyrotoxicosis.	rimary or untreated
2. Secondary & Tertiar	y hypothyroidism, this relatively rare by evels that are paradoxically either low/	ut importan ⁄normal or a	t condition is indicated by are not elevated to levels	y presence of low ser that are expected.	um FT3 and FT4 levels, in
	*** [End Of R	eport ***		



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

