



	Dr. Vinay Cho MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1572062
COLLECTED BY	:		REG. NO./LAB NO.	: 012408060005
REFERRED BY	:		REGISTRATION DATE	:06/Aug/202407:42AM
BARCODE NO.	: 01514553		COLLECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 01:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		VOODVI ATER II		
GLYCOSYLATED HAEM		YCOSYLATED H. 7 ^H	AEMOGLOBIN (HBA1C) %	4.0 - 6.4
NHOLE BLOOD by HPLC (HIGH PERFORI ESTIMATED AVERAGE I by HPLC (HIGH PERFORI	DGLOBIN (HbA1c): Mance liquid chromatography)			4.0 - 6.4 60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM STIMATED AVERAGE I by HPLC (HIGH PERFORM <u>NTERPRETATION:</u>	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABI	7 ^H 154.2 ^H ETES ASSOCIATION	% mg/dL (ADA):	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM <u>INTERPRETATION:</u> RE	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABBI FERENCE GROUP	7 ^H 154.2 ^H ETES ASSOCIATION	% mg/dL (ADA): YLATED HEMOGLOGIB (HBAIC) ii	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM STIMATED AVERAGE I by HPLC (HIGH PERFORM NTERPRETATION: RE RE	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7 ^H 154.2 ^H ETES ASSOCIATION	% mg/dL (ADA): <u>/LATED HEMOGLOGIB (HBAIC) in</u> <5.7	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM STIMATED AVERAGE I by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7 ^H 154.2 ^H ETES ASSOCIATION	% mg/dL (ADA): <u>/LATED HEMOGLOGIB (HBAIC) in</u> <5.7 5.7 – 6.4	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM STIMATED AVERAGE I by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years	7 ^H 154.2 ^H ETES ASSOCIATION	% mg/dL (ADA): <u>/LATED HEMOGLOGIB (HBAIC) in</u> <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM STIMATED AVERAGE I by HPLC (HIGH PERFORM <u>NTERPRETATION:</u> RE Non diab At F	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7 ^H 154.2 ^H ETES ASSOCIATION GLYCOST	% mg/dL (ADA): <u>/LATED HEMOGLOGIB (HBAIC) in</u> <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years	60.00 - 140.00
NHOLE BLOOD by HPLC (HIGH PERFORM ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIAB FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes) gnosing Diabetes	7 ^H 154.2 ^H ETES ASSOCIATION GLYCOSY Goals of The	% mg/dL (ADA): YLATED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: <7.0	60.00 - 140.00
ESTIMATED AVERAGE I by HPLC (HIGH PERFORM INTERPRETATION: RE Non diab At F Diag	DGLOBIN (HbA1c): MANCE LIQUID CHROMATOGRAPHY) PLASMA GLUCOSE MANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN DIABI FERENCE GROUP etic Adults >= 18 years Risk (Prediabetes)	7 ^H 154.2 ^H ETES ASSOCIATION GLYCOST	% mg/dL (ADA): YLATED HEMOGLOGIB (HBAIC) in <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years erapy: <7.0	60.00 - 140.00

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

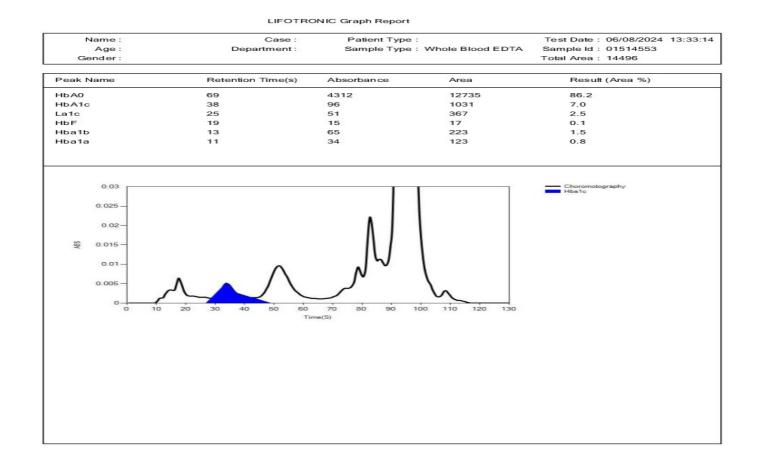


Page 1 of 12





	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pat	logy) MD	n Chopra D (Pathology) It Pathologist
NAME	: Mr. AJAY BAWEJA		
AGE/ GENDER	: 54 YRS/MALE	PATIENT ID	: 1572062
COLLECTED BY	:	REG. NO./LAB NO.	: 012408060005
REFERRED BY	:	REGISTRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553	COLLECTION DATE	:06/Aug/202407:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	:06/Aug/202401:50PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Val	ue Unit	Biological Reference interval





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







NAME		& Microbiology) onsultant Pathologist	CEO & Consultant	(Pathology) Pathologist
AGE/ GENDER	: 54 YRS/MALE	PATI	ENT ID	: 1572062
COLLECTED BY	:	REG. I	NO./LAB NO.	: 012408060005
REFERRED BY	:	REGIS	TRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553	COLL	ECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Aug/2024 11:26AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	NICAL CHEMISTRY/	BIOCHEMISTR	Y
		GLUCOSE FAST	ING (F)	
GLUCOSE FASTING (by glucose oxidas	F): PLASMA SE - PEROXIDASE (GOD-POD)	119.78 ^H	mg/dL	NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0
INTERPRETATION	H AMERICAN DIABETES ASSOCIA	TION GUIDELINES: considered normal.		prediabetic. A fasting and post-prandial blood





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 & Cor		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	PA	TIENT ID	: 1572062
COLLECTED BY	:	RF	EG. NO./LAB NO.	: 012408060005
REFERRED BY	:	RE	GISTRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	:01514553	CO	ILLECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	EPORTING DATE	: 06/Aug/2024 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFI	LE : BASIC	
CHOLESTEROL TOTAL by CHOLESTEROL OX		115.87	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SER by GLYCEROL PHOSP	UM HATE OXIDASE (ENZYMATIC)	116.27	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (I by SELECTIVE INHIBITI		31.63	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: S by CALCULATED, SPEC		60.99	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTER by CALCULATED, SPEC		84.24	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: by CALCULATED, SPE		23.25	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUI	VI	348.01 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL F by CALCULATED, SPE	RATIO: SERUM	3.66	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, spec		1.93	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0



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



Page 4 of 12





	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	PATI	ENT ID	: 1572062
COLLECTED BY	:	REG.	NO./LAB NO.	: 012408060005
REFERRED BY	:	REGIS	STRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553	COLL	ECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	:06/Aug/2024 11:37AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HDL by CALCULATED, SPE		3.68	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.

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





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







9001:2008 CERT	IFIED LAB	1	EXCELLENCE IN HEALTHCARE	& DIAGNOSTICS
		Chopra / & Microbiology) onsultant Pathologist	Dr. Yugarı MD CEO & Consultant	(Pathology)
IAME GE/ GENDER OLLECTED BY REFERRED BY GARCODE NO. FLIENT CODE.	: Mr. AJAY BAWEJA : 54 YRS/MALE : : : 01514553 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROA	REGIS COLLE REPOI	NT ID 10./LAB NO. TRATION DATE ECTION DATE RTING DATE	: 1572062 : 012408060005 : 06/Aug/2024 07:42 AM : 06/Aug/2024 07:48AM : 06/Aug/2024 11:37AM
Test Name		Value	Unit	Biological Reference interval
		CREATINI	NE	
by ENZYMATIC, SPEC				

Page 6 of 12

 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.



ISO 9001 : 2008 CERTIFII	ED LAB	EXCELLENCE IN HEALTHCA	RE & DIAGNOSTICS
	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Pat	logy) MI	m Chopra D (Pathology) nt Pathologist
AGE/ GENDER: :COLLECTED BY:REFERRED BY:BARCODE NO.: (CLIENT CODE.:)	Mr. AJAY BAWEJA 54 YRS/MALE 01514553 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD, AMBALA (PATIENT ID REG. NO./LAB NO. REGISTRATION DATE COLLECTION DATE REPORTING DATE	: 1572062 : 012408060005 : 06/Aug/2024 07:42 AM : 06/Aug/2024 07:48AM : 06/Aug/2024 11:00AM
Test Name	Val	ue Unit	Biological Reference interval
		NDOCRINOLOGY THYROXINE (T4)	
THYROXINE (T4): SERUN			4.87 - 12.60
ALC: NOT A REAL OF A	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







	Dr. Vinay Cl MD (Pathology Chairman & Co		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	1	PATIENT ID	: 1572062
COLLECTED BY	:]	REG. NO./LAB NO.	: 012408060005
REFERRED BY		1	REGISTRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553		COLLECTION DATE	: 06/Aug/2024 07:48AM
				0
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANTT		
by CMIA (CHEMILUMI	THY ING HORMONE (TSH): SERUM NESCENT MICROPARTICLE		Unit ING HORMONE (TSH) µIU/mL	Biological Reference interval
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM	ROID STIMULAT	ING HORMONE (TSH))
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM	ROID STIMULAT	ING HORMONE (TSH)	0.35 - 5.50
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM Inescent microparticle rasensitive	ROID STIMULAT	ING HORMONE (TSH) μIU/mL) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM Inescent microparticle rasensitive AGE	ROID STIMULAT	ING HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (</u> 0.70 – 15.20 0.70 – 11.00) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 - 5 DAYS 6 Days - 2 Months 3 - 11 Months	ROID STIMULAT	ING HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years	ROID STIMULAT	ING HORMONE (TSH) μIU/mL <u>REFFERENCE RANGE (</u> 0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	ROID STIMULAT	ING HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	ROID STIMULAT	ING HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years	/ROID STIMULAT 1 0.288 ^L	ING HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	AGE 0 – 5 DAYS 6 Days – 2 Months 1 – 5 Years 6 – 10 Years 11 – 15 > 20 Years (Adults)	ROID STIMULAT	ING HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 11.00 0.70 – 3.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50 0.27 – 5.50) 0.35 - 5.50 (μIU/mL)
THYROID STIMULAT by CMIA (CHEMILUMI IMMUNOASSAY) 3rd GENERATION, ULT	TING HORMONE (TSH): SERUM NESCENT MICROPARTICLE RASENSITIVE AGE 0 – 5 DAYS 6 Days – 2 Months 3 – 11 Months 1 – 5 Years 6 – 10 Years 11 - 15	/ROID STIMULAT 1 0.288 ^L	ING HORMONE (TSH) μIU/mL REFFERENCE RANGE (0.70 – 15.20 0.70 – 11.00 0.70 – 8.40 0.70 – 7.00 0.60 – 5.50 0.50 – 5.50) 0.35 - 5.50 (μIU/mL)

of the order of 50 %. Hence time of the day has influence on the measured serum TSH concentration. USE:- TSH controls biosynthesis and release of thyroid harmones T4 & T3. It is a sensitive measure of thyroid function, especially useful in early

or subclinical hypothyroidism, before the patient develops any clinical findings or goitre or any other thyroid function abnormality. **INCREASED LEVELS:**

1.Primary or untreated hypothyroidism, may vary from 3 times to more than 100 times normal depending on degree of hypofunction.

- 2. Hypothyroid patients receiving insufficient thyroid replacement therapy.
- 3. Hashimotos thyroiditis.
- 4.DRUGS: Amphetamines, lodine containing agents and dopamine antagonist.
- 5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge.

DECREASED 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



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

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

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

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







		h opra & Microbiology) nsultant Pathologist	Dr. Yugan MD CEO & Consultan	(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	PAT	ENT ID	: 1572062
COLLECTED BY	:	REG	NO./LAB NO.	: 012408060005
REFERRED BY	:	REG	STRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	:01514553	COL	LECTION DATE	:06/Aug/202407:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REP	ORTING DATE	:06/Aug/2024 11:00AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

LIMITATIONS:

1.TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothyroidism, pregnancy, phenytoin therapy. 2.Autoimmune disorders may produce spurious results.



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







NAME	: Mr. AJAY BAWEJA	nsultant Pathologis	t CEO & Consultant	
AGE/ GENDER	: 54 YRS/MALE		PATIENT ID	: 1572062
COLLECTED BY	:		REG. NO./LAB NO.	: 012408060005
REFERRED BY	:		REGISTRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553		COLLECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 01:01PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		INSULIN	FASTING (F)	
INSULIN FASTING (F)		12.6	μIU/ml	2.0 - 25.0

1.Insulin is a hormone produced by the beta cells of the pancreas. It regulates the uptake and utilization of glucose and is also involved in protein synthesis and triglyceride storage.

2.Type 1 diabets (insulin-dependent diabetes) is caused by insulin deficiency due to destruction of insulin producing pancreatic islets (beta) cells.

3. Type 2 diabetes (noninsulin dependent diabetes) is characterized by resistance to the action of insulin (insulin resistance).

KOS Diagnostic Lab (A Unit of KOS Healthcare)

4. The test is useful for management of diabetes mellitus and for diagnoses of insulinomas, when used in conjunction with proinsulin and C-

1.No standard referance range has yet been established for INSULIN POST-PRANDIAL (PP) in indian population, therefore same could not be provided along with test. However various studies done on several populations mention that the range of INSULIN PP can vary somewhere from 5-79 mIU/L which can be used for clinical purpose.

2. This assay has 100% cross-reactivity with recombinant human insulin (Novolin R and Novolin N). It does not recognize other commonly used analogues of injectable insulin (ie, insulin lispro, insulin aspart, and insulin glargine).

INTERPRETATIVE GUIDE:

1. During prolonged fasting, when the patient's glucose level is reduced to <40 mg/dL, elevated insulin level plus elevated levels of proinsulin and C-peptide suggest insulinomaS.

2. Insulin levels generally decline in patients with type 1 diabetes mellitus.

3.In the early stage of type 2 diabetes, insulin levels are either normal or elevated. In the late stage of type 2 diabetes, insulin levels decline. 4. In normal individuals, insulin levels parallel blood glucose levels.

5.Patients on insulin therapy may develop anti-insulin antibodies. These antibodies may interfere in the assay system, causing inaccurate results. In such individuals, measurement of free insulin FINS / Insulin, Free, Serum should be performed.





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

<u>INTERPRETATION:</u>

peptide measurements. NOTE:







	MD (Pathology & Chairman & Cor	s Microbiology) nsultant Pathologist		(Pathology) Pathologist
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	I	PATIENT ID	: 1572062
COLLECTED BY	:]	REG. NO./LAB NO.	: 012408060005
REFERRED BY	:]	REGISTRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553		COLLECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	I	REPORTING DATE	: 06/Aug/2024 01:32PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		C-PE	EPTIDE	
C-PEPTIDE: SERUM by CLIA (CHEMILUMI	NESCENCE IMMUNOASSAY)	4.63 ^H	ng/mL	0.30 - 3.80

INTERPRETATION:-

C-peptde is useful in distinguishing insulinomas from exogenous insulin administration. When insulin secretion is diminished, as in insulin dependent diabetes, low c-peptide levels are to be expected. Elevated c-peptide levels may result from increased beta cell activity associated with insulinomas. C-Peptide is also useful in monitoring patients who have received islet cell or pancreatic transplants.

C-peptide orginates in pancreatic beta cells as an inert byproduct in the synthesis of insulin from proinsulin. Insulin and c-peptide are released from proinsulin in equimolar concentration into the circulation. C-peptide levels can therefore serve as an index of insulin secretion. Anti-insulin antibodies are commonly found in patients who have underfore insulin therepy. These antibodies may interfere with insulin assay. C-peptide measurments are therefore used as an alternative measurment index in this context.





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





		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. AJAY BAWEJA			
AGE/ GENDER	: 54 YRS/MALE	PATI	ENT ID	: 1572062
COLLECTED BY	:	REG.	NO./LAB NO.	: 012408060005
REFERRED BY	:	REGI	STRATION DATE	: 06/Aug/2024 07:42 AM
BARCODE NO.	: 01514553	COLL	ECTION DATE	: 06/Aug/2024 07:48AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Aug/2024 02:35PM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
Test Name		Value CLINICAL PATI		Biological Reference interval
Test Name	MICROA		HOLOGY	
	ANDOM URINE	CLINICAL PATI	HOLOGY	
MICROALBUMIN: RA	ANDOM URINE METRY OM URINE	CLINICAL PATI	HOLOGY RATIO - RANDOM	I URINE
MICROALBUMIN: RA by SPECTROPHOTON CREATININE: RANDO	ANDOM URINE METRY OM URINE METRY	CLINICAL PATI LBUMIN/CREATININE 12.59	HOLOGY RATIO - RANDOM mg/L	I URINE 0 - 25
MICROALBUMIN: RJ by SPECTROPHOTON CREATININE: RANDO by SPECTROPHOTON MICROALBUMIN/CF RANDOM URINE	ANDOM URINE Metry OM URINE Metry REATININE RATIO -	CLINICAL PATI LBUMIN/CREATININE 12.59 111.08	HOLOGY RATIO - RANDOM mg/L mg/dL	0 - 25 20 - 320
MICROALBUMIN: RJ by spectrophoton CREATININE: RAND by spectrophoton MICROALBUMIN/CF RANDOM URINE by spectrophoton	ANDOM URINE Metry OM URINE Metry REATININE RATIO -	CLINICAL PATI LBUMIN/CREATININE 12.59 111.08	HOLOGY RATIO - RANDOM mg/L mg/dL	0 - 25 20 - 320
MICROALBUMIN: RJ by SPECTROPHOTON CREATININE: RANDO by SPECTROPHOTON MICROALBUMIN/CF RANDOM URINE	ANDOM URINE METRY OM URINE METRY REATININE RATIO -	CLINICAL PATI LBUMIN/CREATININE 12.59 111.08	HOLOGY RATIO - RANDOM mg/L mg/dL	0 - 25 20 - 320
MICROALBUMIN: RJ by SPECTROPHOTON CREATININE: RAND by SPECTROPHOTON MICROALBUMIN/CF RANDOM URINE by SPECTROPHOTON INTERPRETATION:-	ANDOM URINE METRY OM URINE METRY REATININE RATIO - METRY NORMAL: mg/L	CLINICAL PATI LBUMIN/CREATININE 12.59 111.08	HOLOGY RATIO - RANDOM mg/L mg/dL mg/g	0 - 25 20 - 320

Long standing un-treated Diabetes and Hypertension can lead to renal dysfunction. 2. Diabetic nephropathy or kidney disease is the most common cause of end stage renal disease(ERSD) or kidney failure. 3. Presence of Microalbuminuria is an early indicator of onset of compromised renal function in these patients.

4. Microalbuminuria is the condition when urinary albumin excre tion is between 30-300 mg & above this it is called as macroalbuminuria, the

 5. Microalbuminuria is the condition when a mary abdition excercition is between is be APPROPIATE.

*** End Of Report ***





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

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

