



		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mrs. NEENA BAKSHI			
AGE/ GENDER	: 63 YRS/FEMALE	PATI	ENT ID	: 1610503
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012409120019
REFERRED BY	:	REGIS	STRATION DATE	: 12/Sep/2024 09:12 AM
BARCODE NO.	:01516809	COLL	ECTION DATE	: 12/Sep/2024 09:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 12/Sep/2024 09:56AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	D, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		HAEMOGLOB		
HAEMOGLOBIN (HB)	13.6	gm/dL	12.0 - 16.0
by CALORIMETRIC				
INTERPRETATION:- Hemoglobin is the pr	otein molecule in red blood co	ells that carries oxygen froi	m the lungs to the b	odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu	ings.		m the lungs to the bo	odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED	ings. /el is referred to as ANEMIA or HAEMOGLOBIN):	low red blood count.		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED 1) Loss of blood (trau	Ings. /el is referred to as ANEMIA or HAEMOGLOBIN): Imatic injury, surgery, bleedir	low red blood count.		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob	ings. vel is referred to as ANEMIA or HAEMOGLOBIN): umatic injury, surgery, bleedin ncy (iron, vitamin B12, folate) plems (replacement of bone m	low red blood count. Ig, colon cancer or stomach arrow by cancer)		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red	ings. vel is referred to as ANEMIA or HAEMOGLOBIN): imatic injury, surgery, bleedin incy (iron, vitamin B12, folate)	low red blood count. Ig, colon cancer or stomach arrow by cancer)		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red 5) Kidney failure 6) Abnormal hemogl	ings. vel is referred to as ANEMIA or HAEMOGLOBIN): umatic injury, surgery, bleedin ncy (iron, vitamin B12, folate) blems (replacement of bone m d blood cell synthesis by chem obin structure (sickle cell ane	low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red 5) Kidney failure 6) Abnormal hemogle POLYCYTHEMIA (INCE 7) People in higher a	Ings. yel is referred to as ANEMIA or HAEMOGLOBIN): Jumatic injury, surgery, bleedin Incy (iron, vitamin B12, folate) olems (replacement of bone m d blood cell synthesis by chem obin structure (sickle cell ane REASED HAEMOGLOBIN): Ititudes (Physiological)	low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs		odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by rec 5) Kidney failure 6) Abnormal hemogli POLYCYTHEMIA (INCF 7) People in higher a 2) Smoking (Seconda	Ings. yel is referred to as ANEMIA or HAEMOGLOBIN): Jumatic injury, surgery, bleedin Incy (iron, vitamin B12, folate) olems (replacement of bone m d blood cell synthesis by chem obin structure (sickle cell ane REASED HAEMOGLOBIN): Iltitudes (Physiological) ry Polycythemia)	low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs mia or thalassemia).	n ulcer)	odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red 5) Kidney failure 6) Abnormal hemogle POLYCYTHEMIA (INCF 1) People in higher a 2) Smoking (Seconda 3) Dehydration produ 4) Advanced lung dise	ings. yel is referred to as ANEMIA or HAEMOGLOBIN): umatic injury, surgery, bleedin ncy (iron, vitamin B12, folate) olems (replacement of bone m d blood cell synthesis by chem obin structure (sickle cell ane REASED HAEMOGLOBIN): Ititudes (Physiological)	I low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs mia or thalassemia). bin due to increased haemo	n ulcer)	odys tissues and returns carbon dioxide from th
INTERPRETATION:- Hemoglobin is the pr tissues back to the lu A low hemoglobin lev ANEMIA (DECRESED I 1) Loss of blood (trau 2) Nutritional deficie 3) Bone marrow prob 4) Suppression by red 5) Kidney failure 6) Abnormal hemogle POLYCYTHEMIA (INCF POLYCYTHEMIA (INCF 1) People in higher a 2) Smoking (Seconda 3) Dehydration produ 4) Advanced lung dise 5) Certain tumors	ings. yel is referred to as ANEMIA or HAEMOGLOBIN): umatic injury, surgery, bleedin ncy (iron, vitamin B12, folate) olems (replacement of bone m d blood cell synthesis by chem obin structure (sickle cell ane REASED HAEMOGLOBIN): Iltitudes (Physiological) ry Polycythemia) uces a falsely rise in hemoglob	low red blood count. Ig, colon cancer or stomach arrow by cancer) notherapy drugs mia or thalassemia). bin due to increased haemo a)	n ulcer)	odys tissues and returns carbon dioxide from th

KOS Diagnostic Lab (A Unit of KOS Healthcare)

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD





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

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







	Dr. Vinay Cho MD (Pathology & N Chairman & Consu	1icrobiology)		(Pathology)
NAME	: Mrs. NEENA BAKSHI			
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BARCODE NO.	:01516809		COLLECTION DATE	: 12/Sep/2024 09:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Sep/2024 02:22PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AI	MBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
GLYCO GLYCOSYLATED HAEMOGLOBIN (HbA1c): WHOLE BLOOD by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY) ESTIMATED AVERAGE PLASMA GLUCOSE by HPLC (HIGH PERFORMANCE LIQUID CHROMATOGRAPHY)				
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE	7.1 ^H 157.07 ^H	% mg/dL	4.0 - 6.4 60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY)	157.07 ^H	mg/dL	
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D	157.07 ^H IABETES ASSOCI	mg/dL ATION (ADA):	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP	157.07 ^H IABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	157.07 ^H IABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NOT dia A	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	157.07 ^H IABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: NOT GIA	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years	157.07 ^H IABETES ASSOCI	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION: Non dia A D	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	157.07 ^H	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5	60.00 - 140.00
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes)	157.07 ^H	mg/dL ATION (ADA): LYCOSYLATED HEMOGLOGIB <5.7 5.7 - 6.4 >= 6.5 Age > 19 Years a of Therapy: as Suggested:	60.00 - 140.00 (HBAIC) in %
WHOLE BLOOD by HPLC (HIGH PERFO ESTIMATED AVERAG by HPLC (HIGH PERFO INTERPRETATION:	RMANCE LIQUID CHROMATOGRAPHY) E PLASMA GLUCOSE RMANCE LIQUID CHROMATOGRAPHY) AS PER AMERICAN D REFERENCE GROUP abetic Adults >= 18 years t Risk (Prediabetes) iagnosing Diabetes	157.07 ^H	mg/dL ATION (ADA): 	60.00 - 140.00 (HBAIC) in %

KOS Diagnostic Lab

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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)



TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





		Chopra gy & Microbiology) Consultant Pathologist		(Pathology)
NAME AGE/ GENDER	: Mrs. NEENA BAKSHI : 63 YRS/FEMALE		PATIENT ID	: 1610503
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BARCODE NO.	: 01516809		COLLECTION DATE	: 12/Sep/2024 09:27AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 12/Sep/2024 10:47AM
CLIENT ADDRESS	: 6349/1, NICHOLSON RO			
Test Name		Value	Unit	Biological Reference interval
	CI	INICAL CHEMIST	TRY/BIOCHEMISTRY	Y
			FILE : BASIC	
CHOLESTEROL TOTAL	: SERUM	197.05	mg/dL	OPTIMAL: < 200.0
by CHOLESTEROL OXIL		177.00	ing, at	BORDERLINE HIGH: 200.0 - 239.0 HIGH CHOLESTEROL: > OR = 240.0
TRIGLYCERIDES: SERU by GLYCEROL PHOSPH	JM Hate oxidase (enzymatic)	256.93 ^H	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199.0 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (D by SELECTIVE INHIBITIC		33.05	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0
LDL CHOLESTEROL: SE by CALCULATED, SPEC		112.61	mg/dL	HIGH HDL: > OR = 60.0 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 CHOLESTER by CALCULATED, SPEC		164 ^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:		51.39 ^H	mg/dL	0.00 - 45.00
by CALCULATED, SPE TOTAL LIPIDS: SERUN	1	651.03	mg/dL	350.00 - 700.00
by CALCULATED, SPEC CHOLESTEROL/HDL R by CALCULATED, SPEC	ATIO: SERUM	5.96 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
	Br	G	hopra	

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

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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD), AMBALA CANT'	Г	
Test Name		Value	Unit	Biological Reference interval
LDL/HDL RATIO: SEI	RUM ECTROPHOTOMETRY	3.41 ^H	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0
TRIGLYCERIDES/HD by CALCULATED, SP	L RATIO: SERUM ECTROPHOTOMETRY	7.77 ^H	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

End Of Report ***





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

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