



	Dr. Vinay Chopr MD (Pathology & Mic Chairman & Consulta	robiology)		(Pathology)
NAME	: Mr. RAJEEV SHARMA			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408060026
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:56 AM
BARCODE NO.	: 01514574		COLLECTION DATE	:06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 10:34AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AME	BALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	SWAS	THYA WE	LLNESS PANEL: 1.5	
	CON	APLETE BLC	DOD COUNT (CBC)	
RED BLOOD CELLS (F	RBCS) COUNT AND INDICES			
HAEMOGLOBIN (HB)		16.3	gm/dL	12.0 - 17.0
by CALORIMETRIC RED BLOOD CELL (RE		E 4 H	Millions/o	cmm 3.50 - 5.00
	FOCUSING, ELECTRICAL IMPEDENCE	5.14 <sup>H</sup>		
	NE (PCV) NUTOMATED HEMATOLOGY ANALYZER	49.3	%	40.0 - 54.0
MEAN CORPUSCULA		95.8	fL	80.0 - 100.0
		21.2		27.0.24.0
	R HAEMOGLOBIN (MCH)	31.3	pg	27.0 - 34.0
	R HEMOGLOBIN CONC. (MCHC)	32.7	g/dL	32.0 - 36.0
RED CELL DISTRIBUT	ION WIDTH (RDW-CV)	13.6	%	11.00 - 16.00
	UTOMATED HEMATOLOGY ANALYZER TON WIDTH (RDW-SD)	48.5	fL	35.0 - 56.0
	UTOMATED HEMATOLOGY ANALYZER	40.0	IL IL	33.0 - 38.0
MENTZERS INDEX		18.64	RATIO	BETA THALASSEMIA TRAIT: < 13.
GREEN & KING INDE	X	25.02	RATIO	IRON DEFICIENCY ANEMIA: >13.0 BETA THALASSEMIA TRAIT: < =
by CALCULATED		20.02		65.0
				IRON DEFICIENCY ANEMIA: > 65.
WHITE BLOOD CELLS		0020	lamm	4000 11000
TOTAL LEUCOCYTE C by FLOW CYTOMETRY	OUNT (TLC) Y BY SF CUBE & MICROSCOPY	8830	/cmm	4000 - 11000
NUCLEATED RED BLC by CALCULATED BY A MICROSCOPY	DOD CELLS (nRBCS) NUTOMATED HEMATOLOGY ANALYZER &	NIL		0.00 - 20.00
NUCLEATED RED BLO	DOD CELLS (nRBCS) % NUTOMATED HEMATOLOGY ANALYZER &	NIL	%	< 10 %

KOS Diagnostic Lab (A Unit of KOS Healthcare)





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

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Dr. Vinay Chopra



Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJEEV SHARMA AGE/ GENDER : 52 YRS/MALE **PATIENT ID** :1572109 **COLLECTED BY** : SURJESH :012408060026 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :06/Aug/2024 09:56 AM : **BARCODE NO.** :01514574 **COLLECTION DATE** :06/Aug/2024 10:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Aug/2024 10:34AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 65 50 - 70 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 26 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % EOSINOPHILS 4 1-6 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 5 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY 0 % 0 - 1 BASOPHILS by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % IMMATURE GRANULOCTE (IG) % 0 0 - 5.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 5740 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 2296 /cmm 800 - 4900 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 353 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 80 - 880 442 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE BASOPHIL COUNT Ω /cmm 0 - 110 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE IMMATURE GRANULOCYTE COUNT 0 /cmm 0.0 - 999.0 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 150000 - 450000 /cmm 127000<sup>L</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE % 0.15 0.10 - 0.36 PLATELETCRIT (PCT) by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE MEAN PLATELET VOLUME (MPV) fL 6.50 - 12.0 14<sup>H</sup> by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE PLATELET LARGE CELL COUNT (P-LCC) 60000 30000 - 90000 /cmm

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

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

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NAME	: Mr. RAJEEV SHARMA			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CANT		Т	
Test Name		Value	Unit	Biological Reference interval
PLATELET LARGE CEI	LL RATIO (P-LCR) FOCUSING, ELECTRICAL IMPEDENCE	53 <sup>H</sup>	%	11.0 - 45.0
PLATELET DISTRIBU	TION WIDTH (PDW) FOCUSING, ELECTRICAL IMPEDENCE	16.7	%	15.0 - 17.0

NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

RECHECKED



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NAME	: Mr. RAJEEV SHARMA			
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BARCODE NO.	: 01514574	COLL	ECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 06/Aug/2024 02:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		U
Test Name		Value	Unit	Biological Reference interval
	GL	YCOSYLATED HAEMO	GLOBIN (HBA1C)	
GLYCOSYLATED HAEM WHOLE BLOOD	DGLOBIN (HbA1c):	6.7 <sup>H</sup>	%	4.0 - 6.4
ESTIMATED AVERAGE		145.59 <sup>H</sup>	mg/dL	60.00 - 140.00
	AS PER AMERICAN DIAB	ETES ASSOCIATION (ADA):		
	FERENCE GROUP	GLYCOSYLATED I	HEMOGLOGIB (HBAIC) i	in %
	etic Adults >= 18 years		<5.7	
	Risk (Prediabetes)	/	5.7 - 6.4 >= 6.5	
Dia	gnosing Diabetes	Δα	>= 0.0 je > 19 Years	
		Goals of Therapy:	< 7.0	0
Therapeutic	goals for glycemic control	Actions Suggested:	>8.0	
merapeutic goals for grycennic control		Actions suggested. >0.0		
merupeutie		Ag	je < 19 Years	

### 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.





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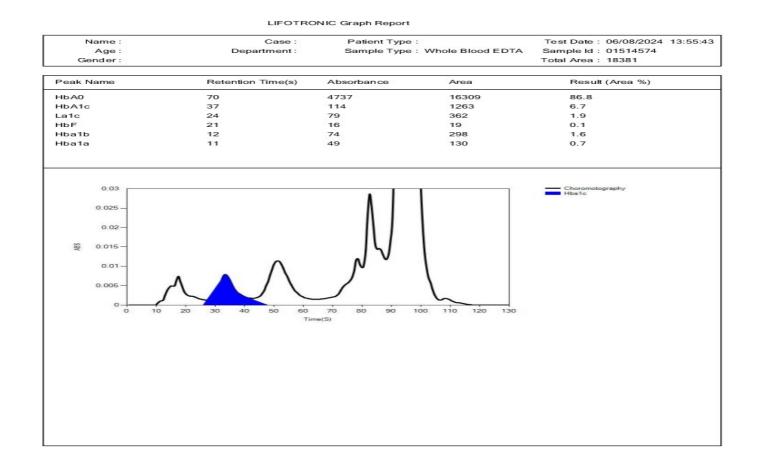


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	Dr. Vinay Cho MD (Pathology & I Chairman & Const	Microbiology) M	m Chopra D (Pathology) nt Pathologist
NAME	: Mr. RAJEEV SHARMA		
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CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DATE</b>	:06/Aug/202402:16PM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value Unit	Biological Reference interval





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



NME       : Mr. RAJEEV SHARMA         AGE/ CENDER       :: 21 YES/MALE       PATTENT ID       :: 1572109         COLLECTED BY       : SURJESH       REG. NO./LAB NO.       :: 012409806028         EFFEREED BY       :       REGISTRATION DATE       :: 06/Aug/2024 09:56 AM         CLEOTED BY       :       REGISTRATION DATE       :: 06/Aug/2024 10:50 AM         CLENT CODE       :: KOS DIAGNOSTIC LAB       REPORTING DATE       :: 06/Aug/2024 10:50 AM         CLENT ADDRESS       ::: 63/49/1, NICHOLSON ROAD, AMBALA CANTT         Test Mame       Value       Unit       Biological Reference Interval         PMOORPED WESTERGREN AUTOMATED (ESR)       6       mm/1st hr       0 - 20         PMOORPED WESTERGREN AUTOMATED (ESR)       6       mm/1st hr       0 - 20         PMOORPED WESTERGREN AUTOMATED METHOD       15.87 ka is nonspecific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and an immume disease. but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.       .         2. An ESR can be affected by obter conditions backies inflammation. For this reacon, the ESR kipucally used in conjunction with other test systemic luws erythematousus         CONDITION WITH LOW ESR       Alow ESR can be sen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (e		<b>Dr. Vinay Cho</b> MD (Pathology & Chairman & Cons	Microbiology)		(Pathology)
COLLECTED BY       SURJESH       REG. NO./LAB NO.       : 012408060026         REFERRED BY       :       REGISTRATION DATE       : 06/Aug/2024 09:56 AM         BARCODE NO.       : 01514574       COLLECTION DATE       : 06/Aug/2024 10:08AM         CLIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 06/Aug/2024 10:50AM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       : 06/Aug/2024 10:50AM         Test Name       Value       Unit       Biological Reference interval         REFYTHROCYTE SEDIMENTATION RATE (ESR)       6       mm/1st hr       0 - 20         by MODIFIED WESTERGREN AUTOMATED METHOD       6       mm/1st hr       0 - 20         INTERPRETATION:       1. SER can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein         3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus       COMDITION WITH LOW ESR         A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (as sickle cells in sickle cell anaemia) also lower the ESR.         NOTE:       1. ESR and C - reactive protein (C-RP) are both markers of inflammation.         2. Generally	NAME	: Mr. RAJEEV SHARMA			
REFERRED BY       :       REGISTRATION DATE       : 06/Aug/2024 09:56 AM         BARCODE NO.       : 01514574       COLLECTION DATE       : 06/Aug/2024 10:08AM         CLIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 06/Aug/2024 10:50AM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       :       :       :         Test Name       Value       Unit       Biological Reference interval         REPTHROCYTE SEDIMENTATION RATE (ESR)       6       mm/1st hr       0 - 20         by MODIFIED WESTERGREN AUTOMATED METHOD       inthe conjunction with other test s       :         INTERPRETATION:       .       .       .         1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and at immune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.       .         2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein       .         3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus         CONDITION WITH LOW ESR       .       .       .         A tow ESR can be seen with conditions that inhibit the normal sedimentation of r	AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
BARCODE NO.       : 01514574       COLLECTION DATE       : 06/Aug/2024 10:50AM         CLIENT CODE       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 06/Aug/2024 10:50AM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interval         Test Name       Value       Unit       Biological Reference interval         CERYTHROCYTE SEDIMENTATION RATE (ESR)         O - 20         by MODIFIED WESTERGREN AUTOMATED METHOD         NTERPRETATION:         LSSR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein         A This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus         CONDITION WITH LOW ESR         A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (buccocytosis), and some protein abnormalities. Some changes in red cell shape (as skele cells in sickle cell anaemia) also lower the ESR.         VOTE:         LESR is no the affected by other factors as is ESR, making it a better marker of inflammation or as it resolves.         CONDITION WITH LOW ESR         A low ESR can be seen with conditions that inhibit t	COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408060026
CLIENT CODE.       : KOS DIAGNOSTIC LAB       REPORTING DATE       : 06/Aug/2024 10:50AM         CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT       Biological Reference interval         Test Name       Value       Unit       Biological Reference interval         ERYTHROCYTE SEDIMENTATION RATE (ESR)       6       mm/1st hr       0 - 20         by MODIFIED WESTERGREN AUTOMATED METHOD       6       mm/1st hr       0 - 20         INTERPETATION:       .       .       .       .         1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and au mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.       .         2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein       .         3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus       CONDITION WITH LOW ESR         A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (eucocytosis) , and some protein abnormalities. Some changes in red cell shape (a sckle cells in sickle cell anaemia) also lower the ESR.         NOTE:       .       .       .       .       .       .	REFERRED BY	:		<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:56 AM
CLIENT ADDRESS       : 6349/1, NICHOLSON ROAD, AMBALA CANTT         Test Name       Value       Unit       Biological Reference interval         ERYTHROCYTE SEDIMENTATION RATE (ESR)       6       mm/1st hr       0 - 20         by MODIFIED WESTERGREN AUTOMATED METHOD       0       20         DTERPRETATION       1       0 - 20         Bit is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and at mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.       2         2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein       3         3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus       CONDITION WITH LOW ESR         Alow ESR can be seem with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (as scile cells in sickle cells in sickle cells in sickle cells in sock as as tSR, making it a better marker of inflammation or as it resolves.         3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.       3         4. If the ESR is elevated, it is typically a result of two types of protei	BARCODE NO.	: 01514574		COLLECTION DATE	:06/Aug/2024 10:08AM
Test Name         Value         Unit         Biological Reference interval           ERYTHROCYTE SEDIMENTATION RATE (ESR)           ERYTHROCYTE SEDIMENTATION RATE (ESR)         6         mm/1st hr         0 - 20           by MODIFIED WESTERGREN AUTOMATED METHOD         6         mm/1st hr         0 - 20           NTERPRETATION           1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and an mune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.         2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test s as C-reactive protein           3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus         CONDITION WITH LOW ESR           Alow ESR can be seem with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (s s sckle cells in sickle cell anaemia) also lower the ESR.           MOTE:         .         .         .           1. ESR and C - reactive protein (C-RP) are both markers of inflammation.         .         .           2. Generally. ESR does not change as rapidly as does CRP, either at the start of inflammation or as it					: 06/Aug/2024 10:50AM
ERYTHROCYTE SEDIMENTATION RATE (ESR)         ERYTHROCYTE SEDIMENTATION RATE (ESR)         by MODIFIED WESTERGREN AUTOMATED METHOD         TERPRETATION         O - 20         by MODIFIED WESTERGREN AUTOMATED METHOD         TERPRETATION:         1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and au mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.         2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test as C-reactive protein         3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus         CONDITION WITH LOW ESR         A low ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (leucocytosis), and some protein abnormalities. Some changes in red cell shape (as sickle cells in sickle cell anaemia) also lower the ESR.         VOTE:         1. ESR is not affected by as many other factors as is ESR, making it a better marker of inflammation.         Construction of the otherapy in both of the above diseases as well as some changes in red cell shape (as sickle cells in sickle cell anaemia) also lower the ESR.	CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
<ul> <li>BYTHROCYTE SEDIMENTATION RATE (ESR)</li> <li>by MODIFIED WESTERGREN AUTOMATED METHOD</li> <li>NTERPRETATION:</li> <li>1. ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and at mmune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it.</li> <li>2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test as C-reactive protein</li> <li>3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such systemic lupus erythematosus</li> <li>CONDITION WITH LOW ESR</li> <li>Alow ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape (as sickle cells in sickle cell anaemia) also lower the ESR.</li> <li>NOTE:</li> <li>2. Generally, ESR does not change as rapidly as does CRP, either at the start of inflammation or as it resolves.</li> <li>3. CRP is not affected by as many other factors as is ESR, making it a better marker of inflammation.</li> <li>4. If the ESR is elevated, it is typically a result of two types of proteins, globulins or fibrinogen.</li> <li>5. Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations.</li> <li>6. Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while</li> </ul>	Test Name		Value	Unit	Biological Reference interval
RYTHROCYTE SEDIMENTATION RATE (ESR) 6 mm/1st hr 0-20 by MODIFIED WESTERGREN AUTOMATED METHOD NTERPRETATION: . ESR is a non-specific test because an elevated result often indicates the presence of inflammation associated with infection, cancer and automune disease, but does not tell the health practitioner exactly where the inflammation is in the body or what is causing it. 2. An ESR can be affected by other conditions besides inflammation. For this reason, the ESR is typically used in conjunction with other test as is C-reactive protein 3. This test may also be used to monitor disease activity and response to therapy in both of the above diseases as well as some others, such ystemic lupus erythematosus CONDITION WITH LOW ESR Alow ESR can be seen with conditions that inhibit the normal sedimentation of red blood cells, such as a high red blood cell count polycythaemia), significantly high white blood cell count (leucocytosis) , and some protein abnormalities. Some changes in red cell shape ( is sickle cells in sickle cell anaemia) also lower the ESR. <b>UOTE:</b> . ESR and C - reactive protein (C-RP) are both markers of inflammation. . EsR and C - reactive protein (C-RP) are both markers of inflammation. . ESR and S are apply as many other factors as is ESR, making it a better marker of inflammation. . GRP is not affected by as many other factors as is ESR, making it a better marker of inflammation. . Women tend to have a higher ESR, and menstruation and pregnancy can cause temporary elevations. . Drugs such as dextran, methyldopa, oral contraceptives, penicillamine procainamide, theophylline, and vitamin A can increase ESR, while		FRYTH	ROCYTE SEDI	MENTATION RATE (ES	R)
	by MODIFIED WESTER NTERPRETATION: 1. ESR is a non-specifi mmune disease, but of 2. An ESR can be affect as C-reactive protein 3. This test may also be systemic lupus erythe CONDITION WITH LOV A low ESR can be seer (polycythaemia), sign as sickle cells in sickle NOTE: 1. ESR and C - reactive 2. Generally, ESR does 3. CRP is not affected 4. If the ESR is elevated 5. Women tend to hav 3. Drugs such as dexti	GREN AUTOMATED METHOD c test because an elevated result does not tell the health practition cted by other conditions besides be used to monitor disease activi ematosus V ESR n with conditions that inhibit the ificantly high white blood cell co e cell anaemia) also lower the ES e protein (C-RP) are both markers s not change as rapidly as does C by as many other factors as is ESF ed, it is typically a result of two ty ve a higher ESR, and menstruation ran, methyldopa, oral contracept	coften indicates her exactly wher inflammation. For ty and response normal sedimer unt (leucocytosi SR. of inflammatior RP, either at the <b>R</b> , making it a be ypes of proteins, n and pregnancy	the presence of inflammati re the inflammation is in the or this reason, the ESR is typ to therapy in both of the al ntation of red blood cells, su s), and some protein abno n. e start of inflammation or as <b>tter marker of inflammation</b> , globulins or fibrinogen. can cause temporary eleva	ion associated with infection, cancer and auto- body or what is causing it. bically used in conjunction with other test such bove diseases as well as some others, such as uch as a high red blood cell count rmalities. Some changes in red cell shape (such s it resolves.





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

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







NAME	: Mr. RAJEEV SHARMA			
GE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
OLLECTED BY	: SURJESH		<b>REG. NO./LAB NO.</b>	: 012408060026
EFERRED BY	:		<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:56 AM
ARCODE NO.	:01514574		<b>COLLECTION DATE</b>	: 06/Aug/2024 10:08AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 06/Aug/2024 11:40AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAI	D, AMBALA CANT	Т	
est Name		Value	Unit	Biological Reference interval
	CLI	NICAL CHEMI	STRY/BIOCHEMISTR	Y
	CLI		STRY/BIOCHEMISTR SE FASTING (F)	Y
GLUCOSE FASTING ( by glucose oxidas INTERPRETATION				Y NORMAL: < 100.0 PREDIABETIC: 100.0 - 125.0 DIABETIC: > 0R = 126.0





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		Chopra gy & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
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AGE/ GENDER	: 52 YRS/MALE	PAT	FIENT ID	: 1572109
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFIL	E : BASIC	
CHOLESTEROL TOTA by CHOLESTEROL O		208.25 <sup>H</sup>	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239 HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SEF by GLYCEROL PHOSE	RUM PHATE OXIDASE (ENZYMATIC)	131.34	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL ( by SELECTIVE INHIBIT		77.38	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: 5 by CALCULATED, SPE		104.6	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 CHOLESTE by calculated, spi	EROL: SERUM ECTROPHOTOMETRY	130.87 <sup>H</sup>	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		26.27	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERU by CALCULATED, SPE	M	547.84	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL by CALCULATED, SPE	RATIO: SERUM	2.69	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: SEF by CALCULATED, SPE		1.35	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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		hopra & Microbiology) nsultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJEEV SHARMA			
AGE/ GENDER	: 52 YRS/MALE	PATI	ENT ID	: 1572109
COLLECTED BY	: SURJESH	REG.	NO./LAB NO.	: 012408060026
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		1.7 <sup>L</sup>	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





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Dr. Vinay Chopra Dr. Yugam Chopra MD (Pathology) MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAJEEV SHARMA AGE/ GENDER : 52 YRS/MALE **PATIENT ID** :1572109 **COLLECTED BY** : SURJESH :012408060026 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** :06/Aug/2024 09:56 AM **BARCODE NO.** :01514574 **COLLECTION DATE** :06/Aug/2024 10:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :06/Aug/2024 11:40AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval** LIVER FUNCTION TEST (COMPLETE) **BILIRUBIN TOTAL: SERUM** 0.68 mg/dL INFANT: 0.20 - 8.00 by DIAZOTIZATION, SPECTROPHOTOMETRY ADULT: 0.00 - 1.20 0.00 - 0.40 BILIRUBIN DIRECT (CONJUGATED): SERUM 0.28 mg/dL by DIAZO MODIFIED, SPECTROPHOTOMETRY BILIRUBIN INDIRECT (UNCONJUGATED): SERUM 0.4 mg/dL 0.10 - 1.00 by CALCULATED, SPECTROPHOTOMETRY SGOT/AST: SERUM 44.1U/L 7.00 - 45.00 by IFCC, WITHOUT PYRIDOXAL PHOSPHATE SGPT/ALT: SERUM U/L 0.00 - 49.00 49.1<sup>H</sup> by IFCC, WITHOUT PYRIDOXAL PHOSPHATE 0.9 RATIO 0.00 - 46.00 AST/ALT RATIO: SERUM by CALCULATED, SPECTROPHOTOMETRY **ALKALINE PHOSPHATASE: SERUM** U/L 40.0 - 130.0 198.19<sup>H</sup> by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM 466.83<sup>H</sup> U/L 0.00 - 55.0 by SZASZ, SPECTROPHTOMETRY TOTAL PROTEINS: SERUM 6.97 gm/dL 6.20 - 8.00 by BIURET, SPECTROPHOTOMETRY ALBUMIN: SERUM 4.07 gm/dL 3.50 - 5.50 by BROMOCRESOL GREEN **GLOBULIN: SERUM** 2.9 gm/dL 2.30 - 3.50 by CALCULATED, SPECTROPHOTOMETRY RATIO A : G RATIO: SERUM 1.4 1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

## **INTERPRETATION**

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range.

USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

# **INCREASED:**

> 2
> 2 (Highly Suggestive)
1.4 - 2.0
> 1.5
> 1.3 (Slightly Increased)



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TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	Dr. Vinay Chc MD (Pathology & I Chairman & Consi	Microbiology)	r. Yugam Chopra MD (Pathology) Consultant Pathologist
NAME	: Mr. RAJEEV SHARMA		
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1572109
<b>COLLECTED BY</b>	: SURJESH	<b>REG. NO./LAB N</b>	NO. : 012408060026
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BARCODE NO.	:01514574	<b>COLLECTION D</b> A	ATE : 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	<b>REPORTING DA</b>	<b>TE</b> : 06/Aug/2024 11:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	MBALA CANTT	
Test Name		Value l	Unit Biological Reference interval

## DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

NORMAL	< 0.65
GOOD PROGNOSTIC SIGN	0.3 - 0.6
POOR PROGNOSTIC SIGN	1.2 - 1.6



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AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
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CLIENT CODE.: ROS DIAGNOSTIC LABCLIENT ADDRESS: 6349/1, NICHOLSON ROAD,			NEI ONTING DATE	. 00/ Aug/ 2024 11.40AM
Test Name		Value	Unit	Biological Reference interva
	KIE	ONEY FUNCTIO	ON TEST (COMPLETE)	
UREA: SERUM		22.83	mg/dL	10.00 - 50.00
	IATE DEHYDROGENASE (GLDH)		<b>J</b>	
CREATININE: SERUM		1.12	mg/dL	0.40 - 1.40
		10.67	ma/dl	7.0 - 25.0
BLOOD UREA NITROGEN (BUN): SERUM by calculated, spectrophotometry		10.07	mg/dL	7.0 - 25.0
BLOOD UREA NITROGEN (BUN)/CREATININE		9.53 <sup>L</sup>	RATIO	10.0 - 20.0
RATIO: SERUM				
by CALCULATED, SPI UREA/CREATININE F		20.38	RATIO	
by CALCULATED, SPE		20.38	RATIO	
URIC ACID: SERUM		6.45	mg/dL	3.60 - 7.70
by URICASE - OXIDAS	E PEROXIDASE			
CALCIUM: SERUM		10.36	mg/dL	8.50 - 10.60
by ARSENAZO III, SPE PHOSPHOROUS: SER		3.76	mg/dL	2.30 - 4.70
	DATE, SPECTROPHOTOMETRY	0.70	Thig/ dE	2.00 1.70
<u>ELECTROLYTES</u>				
sodium: serum		139.1	mmol/L	135.0 - 150.0
by ISE (ION SELECTIV				
POTASSIUM: SERUN by ISE (ION SELECTIV		4.42	mmol/L	3.50 - 5.00
CHLORIDE: SERUM	e eleuirude)	104.32	mmol/L	90.0 - 110.0
by ISE (ION SELECTIV	'E ELECTRODE)	104.52	THINO/ L	70.0 110.0
ESTIMATED GLOME	RULAR FILTERATION RATE			
ESTIMATED GLOME	RULAR FILTERATION RATE	79		
(eGFR): SERUM				
by CALCULATED				

**INTERPRETATION:** 

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.





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NAME	: Mr. RAJEEV SHARMA			
AGE/ GENDER	: 52 YRS/MALE	PATIENT ID	: 1572109	
COLLECTED BY	: SURJESH	<b>REG. NO./LAB NO</b>		
<b>REFERRED BY</b>	:	REGISTRATION	8	
BARCODE NO.	: 01514574	COLLECTION DA	<b>TE</b> : 06/Aug/2024 10:0	8AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DAT	E : 06/Aug/2024 11:4	OAM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AN	MBALA CANTT		
Test Name		Value U	nit Biological	Reference interval
<ol> <li>Repeated dialysis (</li> <li>Inherited hyperam</li> <li>SIADH (syndrome of 8. Pregnancy.</li> <li>DECREASED RATIO (</li> <li>1. Phenacimide thera</li> <li>2. Rhabdomyolysis (r</li> <li>3. Muscular patients</li> <li>INAPPROPIATE RATIO</li> <li>1. Diabetic ketoacido should produce an in</li> <li>2. Cephalosporin their</li> </ol>	nd starvation. e. creased urea synthesis. furea rather than creatinine diffuse monemias (urea is virtually absent of inappropiate antidiuretic harmon (0:1) WITH INCREASED CREATININE py (accelerates conversion of crea eleases muscle creatinine). who develop renal failure.	in blood). ne) due to tubular secretion of ure tine to creatinine). ease in creatinine with certain me		al ratio when dehydration
CKD STAGE	DESCRIPTION	GFR ( mL/min/1.73m2 )	ASSOCIATED FINDINGS	1
G1	Normal kidney function	n >90	No proteinuria	]
G2	Kidney damage with normal or high GFR	>90	Presence of Protein , Albumin or cast in urine	
G3a	Mild decrease in GFR	60 - 89		]
G3b	Moderate decrease in C	FR 30-59		]

G4 G5

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Severe decrease in GFR

Kidney failure

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15-29

<15

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Test Name		Value	Jnit Biological Refe	rence interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated





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CLIENT ADDRESS			SON ROAD, AMBALA CANTT		. 00/ Aug/ 2024 11.40AW	
Test Name			Value	Unit	Biological Reference interval	
RON: SERUM by FERROZINE, SPECT			150.5	PROFILE µg/dL	59.0 - 158.0	
UNSATURATED IRON SERUM by Ferrozine, speci			74.77 <sup>L</sup>	μg/dL	150.0 - 336.0	
TOTAL IRON BINDING SERUM by SPECTROPHOTOM	G CAPACITY (TIB		225.27 <sup>L</sup>	μg/dL	230 - 430	
%TRANSFERRIN SATU	JRATION: SERU		66.81 <sup>H</sup>	%	15.0 - 50.0	
TRANSFERRIN: SERU			159.94 <sup>L</sup>	mg/dL	200.0 - 350.0	
<u>INTERPRETATION:-</u> VARIABL	FS	ANEMIA OF CH	RONIC DISEASE	IRON DEFICIENCY ANEMIA	THALASSEMIA $\alpha/\beta$ TRAIT	
SERUM IR		Normal to		Reduced	Normal	
TOTAL IRON BINDIN	NG CAPACITY:	Decre	eased	Increased	Normal	

**IRON**:

1.Serum iron studies is recommended for differential diagnosis of microcytic hypochromic anemia.i.e iron deficiency anemia, zinc deficiency anemia, anemia of chronic disease and thalassemia syndromes.

Decreased

2. It is essential to isolate iron deficiency anemia from Beta thalassemia syndromes because during iron replacement which is therapeutic for iron deficiency anemia, is severely contra-indicated in Thalassemia.

**SERUM FERRITIN:** 

**TOTAL IRON BINDING CAPACITY (TIBC):** 1.It is a direct measure of protein transferrin which transports iron from the gut to storage sites in the bone marrow. **% TRANSFERRIN SATURATION:** 

Normal to Increased

1.Occurs in idiopathic hemochromatosis and transfusional hemosiderosis where no unsaturated iron binding capacity is available for iron mobilization. Similar condition is seen in congenital deficiency of transferrin.



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Normal or Increased

TEST PERFORMED AT KOS DIAGNOSTIC LAB. AMBALA CANTT





	<b>Dr. Vinay Chop</b> MD (Pathology & Mi Chairman & Consult	icrobiology)		(Pathology)
NAME	: Mr. RAJEEV SHARMA			
AGE/ GENDER	: 52 YRS/MALE		PATIENT ID	: 1572109
COLLECTED BY	: SURJESH		REG. NO./LAB NO.	: 012408060026
REFERRED BY	:		<b>REGISTRATION DATE</b>	: 06/Aug/2024 09:56 AM
BARCODE NO.	: 01514574		<b>COLLECTION DATE</b>	:06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		<b>REPORTING DATE</b>	: 06/Aug/2024 12:56PM
CLIENT ADDRESS Test Name	: 6349/1, NICHOLSON ROAD, AM	Value	Unit	Biological Reference interval
		ENDO	CRINOLOGY	
	TH	ROID FUN	ICTION TEST: TOTAL	
TRIIODOTHYRONINE by CMIA (CHEMILUMIN	E (T3): SERUM IESCENT MICROPARTICLE IMMUNOASSA	0.861 Y)	ng/mL	0.35 - 1.93
THYROXINE (T4): SE	RUM iescent microparticle immunoassa	8.15 Y)	µgm/dL	4.87 - 12.60
by CMIA (CHEMILUMIN 3rd GENERATION, ULT <u>INTERPRETATION:</u> TSH levels are subject to day has influence on the trilodothyronine (T3).Fai	circadian variation, reaching peak levels bet	tween 2-4 a.m a imulates the pr	roduction and secretion of the m	0.35 - 5.50 om. The variation is of the order of 50%. Hence time of the tetabolically active hormones, thyroxine (T4) and er underproduction (hypothyroidism) or

**KOS Diagnostic Lab** 

(A Unit of KOS Healthcare)

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 (eg: phenytoin , salicylates).

3. Serum T4 levles 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 hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTH	(RONINE (T3)	THYROXINE (T4)		THYROID STIMUL	ATING 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





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	<b>Dr. Vinay Chopra</b> MD (Pathology & Microbiology Chairman & Consultant Patholo		(Pathology)
NAME	: Mr. RAJEEV SHARMA		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA CAN	TT	

Test Name			Value	Unit	:	Biological Reference interval
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 – 12 Months	0.70 - 7.00	
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	
	RECO	VIMENDATIONS OF TSH LI	EVELS DURING PRE	GNANCY ( µIU/mL)		
	1st Trimester	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, idonie 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 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



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REG. REGI COLI REPO AMBALA CANTT Value VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup>	OXY VITAMIN D3 ng/mL	: 1572109 : 012408060026 : 06/Aug/2024 09:56 AM : 06/Aug/2024 10:08AM : 06/Aug/2024 12:56PM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
REG. REGI COLI REPO AMBALA CANTT Value VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup>	G. NO./LAB NO. GISTRATION DATE LECTION DATE PORTING DATE Unit INS OXY VITAMIN D3 ng/mL	: 012408060026 : 06/Aug/2024 09:56 AM : 06/Aug/2024 10:08AM : 06/Aug/2024 12:56PM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
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COLI REPO AMBALA CANTT Value VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup>	LECTION DATE PORTING DATE Unit INS OXY VITAMIN D3 ng/mL	: 06/Aug/2024 10:08AM : 06/Aug/2024 12:56PM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
REPO AMBALA CANTT Value VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup>	PORTING DATE Unit UNS OXY VITAMIN D3 ng/mL	: 06/Aug/2024 10:08AM : 06/Aug/2024 12:56PM Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
AMBALA CANTT Value VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup> < 20 21 - 29	Unit INS OXY VITAMIN D3 ng/mL	Biological Reference interval DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
Value VITAMI TAMIN D/25 HYDRC 119 <sup>H</sup> < 20 21 - 29	INS OXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
VITAMI TAMIN D/25 HYDRO 119 <sup>H</sup> < 20 21 - 29	INS OXY VITAMIN D3 ng/mL	DEFICIENCY: < 20.0 INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
TAMIN D/25 HYDRO 119 <sup>H</sup> < 20 21 - 29	OXY VITAMIN D3 ng/mL	INSUFFICIENCY: 20.0 - 30.0 SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
< 20 21 - 29	ng/	SUFFICIENCY: 30.0 - 100.0 TOXICITY: > 100.0	
21 - 29	5		
21 - 29	5		
20 100	ng/	g/mL	
30 - 100 ng/mL > 100 ng/mL			
3 in the skin upon Ultra ir and transport form of a in circulation. of calcium homeostatis , calcium mobilization, i newly formed osteoid i rity Mild to Moderate defici enytoin, phenobarbital prolonged exposure to e als must be monitored b	aviolet exposure. of Vitamin D and transpo- is. It promotes calcium , mainly regulated by pa i in bone, resulting in ric ciency) I and carbamazepine, th extremely high doses o by periodic assessment	of Vitamin D levels in order to prevent	
p	prolonged exposure to als must be monitored	orolonged exposure to extremely high doses of all must be monitored by periodic assessment <i>is at higher risk of developing Vitamin D deficie</i>	



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ce interval
ery lab

6.Serum methylmalonic acid and homocysteine levels are also elevated in vitamin B12 deficiency states.

7.Follow-up testing for antibodies to intrinsic factor (IF) is recommended to identify this potential cause of vitamin B12 malabsorption. **NOTE:**A normal serum concentration of vitamin B12 does not rule out tissue deficiency of vitamin B12. The most sensitive test for vitamin B12 deficiency at the cellular level is the assay for MMA. If clinical symptoms suggest deficiency, measurement of MMA and homocysteine should be considered, even if serum vitamin B12 concentrations are normal.





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	Dr. Vinay Ch MD (Pathology & Chairman & Cons		Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAJEEV SHARMA			
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BARCODE NO.	: 01514574	CO	LLECTION DATE	: 06/Aug/2024 10:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	RE	PORTING DATE	: 06/Aug/2024 11:44AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, A	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		CLINICAL PA	THOLOGY	
	URINE R	<b>OUTINE &amp; MICRO</b>	SCOPIC EXAMINAT	<b>FION</b>
PHYSICAL EXAMINA	TION			
QUANTITY RECIEVE		10	ml	
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY COLOUR by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY		10	110	
		PALE YELLOW		PALE YELLOW
TRANSPARANCY		HAZY		CLEAR
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
	TANCE SPECTROPHOTOMETRY	1.02		1.002 - 1.030
CHEMICAL EXAMINA				
REACTION		ACIDIC		
	TANCE SPECTROPHOTOMETRY	ACIDIC		
PROTEIN		Negative		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY			
SUGAR		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	6		5.0 - 7.5
I. I.	TANCE SPECTROPHOTOMETRY	0		5.0 - 7.5
BILIRUBIN		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY				
NITRITE		Negative		NEGATIVE (-ve)
by DIP STICK/REFLECTANCE SPECTROPHOTOMETRY. UROBILINOGEN		Normal	EU/dL	0.2 - 1.0
	TANCE SPECTROPHOTOMETRY	Normai	LU/UL	0.2 - 1.0
KETONE BODIES		Negative		NEGATIVE (-ve)
,	TANCE SPECTROPHOTOMETRY			
BLOOD		Negative		NEGATIVE (-ve)
by DIP STICK/REFLEC	TANCE SPECTROPHOTOMETRY	NEGATIVE (-ve		NEGATIVE (-ve)
	TANCE SPECTROPHOTOMETRY	NEGATIVE (-VE	5)	

MICROSCOPIC EXAMINATION



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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist



Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name		Value	Unit	Biological Reference interval	
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3	
PUS CELLS		3-5	/HPF	0 - 5	

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	J-J	/1111	0-5
EPITHELIAL CELLS	1-2	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NLOATIVE (-VE)		NEGATIVE (-ve)
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)		NEGATIVE (-ve)
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT

by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT

End Of Report





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